本初子午線正中時

星名	λ Horo				ϰ Erid				ξ² Ceti				λ¹ Forn			
等級 スペクトル型	5.47		F2		4.44		B5		4.34		A0		5.88		K0	
世界時	赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯
月 日	h m		° ′		h m		° ′		h m		° ′		h m		° ′	
	2 23		−60 33		2 24		−47 56		2 25		+ 8 12		2 30		−34 53	
	s		″		s		″		s		″		s		″	
1 0.8	20.08		67.88		55.942		98.34		10.486		29.64		46.788		63.06	
10.8	19.73	35	68.93	105	55.715	227	99.51	117	10.382	104	29.07	57	46.626	162	64.29	123
20.8	19.35	38	69.42	49	55.466	249	100.17	66	10.257	125	28.50	57	46.445	181	65.11	82
30.7	18.96	39	69.32	10	55.205	261	100.31	14	10.117	140	27.94	56	46.248	197	65.49	38
2 9.7	18.57	39	68.65	67	54.940	265	99.92	39	9.969	148	27.41	53	46.046	202	65.42	7
		38		122		260		89		150		47		202		51
19.7	18.19		67.43		54.680		99.03		9.819		26.94		45.844		64.91	
29.7	17.83	36	65.69	174	54.434	246	97.64	139	9.677	142	26.54	40	45.651	193	63.97	94
3 10.6	17.51	32	63.49	220	54.214	220	95.81	183	9.550	127	26.24	30	45.477	174	62.62	135
20.6	17.24	27	60.87	262	54.026	188	93.57	224	9.446	104	26.07	17	45.329	148	60.90	172
30.6	17.02	22	57.90	297	53.881	145	90.97	260	9.375	71	26.06	1	45.216	113	58.82	208
		15		325		96		290		33		17		72		238
4 9.6	16.87	8	54.65		53.785	41	88.07		9.342	—	26.23		45.144		56.44	
19.5	16.79	0	51.17	348	53.744	19	84.93	314	9.351	9	26.60	37	45.119	25	53.80	264
29.5	16.79	—	47.55	362	53.763	78	81.60	333	9.406	55	27.19	59	45.144	25	50.95	285
5 9.5	16.86	7	43.87	368	53.841	139	78.17	343	9.507	101	28.00	81	45.220	76	47.95	300
19.4	17.02	16	40.21	366	53.980	196	74.71	346	9.653	146	29.03	103	45.348	128	44.86	309
		23		356				341		188		123		176		312
29.4	17.25		36.65		54.176		71.30		9.841		30.26		45.524		41.74	
6 8.4	17.54	29	33.27	338	54.425	249	68.01	329	10.066	225	31.68	142	45.746	222	38.68	306
18.4	17.91	37	30.15	312	54.721	296	64.92	309	10.321	255	33.25	157	46.006	260	35.75	293
28.3	18.32	41	27.38	277	55.056	335	62.12	280	10.601	280	34.93	168	46.299	293	33.01	274
7 8.3	18.78	46	25.02	236	55.422	366	59.66	246	10.897	296	36.68	175	46.616	317	30.55	246
		49		188		385		203		305		176		333		213
18.3	19.27		23.14		55.807		57.63		11.202		38.44		46.949		28.42	
28.3	19.77	50	21.79	135	56.203	396	56.08	155	11.509	307	40.18	174	47.290	341	26.68	174
8 7.2	20.28	51	21.01	78	56.599	396	55.05	103	11.810	301	41.85	167	47.630	340	25.39	129
17.2	20.77	49	20.82	19	56.984	385	54.57	48	12.100	290	43.40	155	47.960	330	24.58	81
27.2	21.25	48	21.23	41	57.349	365	54.65	8	12.373	273	44.79	139	48.273	313	24.28	30
		43		100		337		64		251		120		290		20
9 6.1	21.68	38	22.23		57.686		55.29		12.624	227	45.99		48.563	261	24.48	
16.1	22.06	33	23.78	155	57.986	300	56.47	118	12.851	199	46.98	99	48.824	227	25.18	70
26.1	22.39	26	25.82	204	58.243	257	58.14	167	13.050	171	47.76	78	49.051	190	26.35	117
10 6.1	22.65	19	28.28	246	58.453	210	60.23	209	13.221	142	48.31	55	49.241	150	27.93	158
16.0	22.84	11	31.07	279	58.612	159	62.66	243	13.363	113	48.65	34	49.391	110	29.85	192
				300		106		268				14				219
26.0	22.95	4	34.07		58.718		65.34	281	13.476	83	48.79	3	49.501	69	32.04	
11 4.9	22.99	—	37.18	311	58.772	54	68.15	284	13.559	53	48.76	18	49.570	29	34.41	237
14.9	22.95	4	40.26	308	58.773	1	70.99	275	13.612	23	48.58	31	49.599	11	36.84	243
24.9	22.84	11	43.20	294	58.725	48	73.74	256	13.635	5	48.27	39	49.588	47	39.26	242
12 4.9	22.66	18	45.88	268	58.629	96	76.30	226	13.630	5	47.88	46	49.541	83	41.55	229
		24		233		138				34						208
14.9	22.42		48.21		58.491		78.56		13.596		47.42		49.458		43.63	
24.8	22.13	29	50.09	188	58.315	176	80.44	188	13.535	61	46.90	52	49.343	115	45.43	180
34.8	21.81	32	51.46	137	58.108	207	81.89	145	13.448	87	46.36	54	49.200	143	46.87	144
平位	s		″		s		″		s		″		s		″	
sec δ, tan δ	19.856		43.46		55.955		76.05		10.648		36.34		46.876		43.76	
	+ 2.035		− 1.772		+ 1.493		− 1.109		+ 1.010		+ 0.144		+ 1.219		− 0.697	
2 回正中	10 月 27 日				10 月 27 日				10 月 27 日				10 月 29 日			
a b	+ 0.0842		− 0.0958		+ 0.1096		− 0.0596		+ 0.1590		+ 0.0078		+ 0.1249		− 0.0368	
a′ b′	+ 0.8107		− 0.5854		+ 0.8066		− 0.5911		+ 0.8060		− 0.5919		+ 0.7913		− 0.6115	
FK3番號	84				86				85				88			

1944

本初子午線正中時

星名	36 H. Cass				μ Hydi				ν Aris				δ Ceti			
等級 スペクトル型	5.34		K0		5.29		K0		5.36		A2		4.04		B2	
世界時	赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯
月 日	h m		° ′		h m		° ′		h m		° ′		h m		° ′	
	2 32		+72 34		2 32		−79 20		2 35		+21 43		2 36		+ 0 5	
	s		″		s		″		s		″		s		″	
1 0.8	41.26		39.47		50.79		99.93		37.775		10.73		36.405		7.55	
10.8	40.74	52	40.91	144	49.68	111	100.82	89	37.667	108	10.55	18	36.305	100	6.78	77
20.8	40.14	60	41.81	90	48.50	118	101.10	28	37.534	133	10.24	31	36.183	122	6.11	67
30.8	39.50	64	42.14	33	47.31	119	100.78	32	37.382	152	9.79	45	36.044	139	5.53	58
2 9.7	38.85	65	41.88	26	46.11	120	99.86	92	37.219	163	9.23	56	35.895	149	5.09	44
		65		82		115		149		167		66		152		31
19.7	38.20	62	41.06		44.96	108	98.37	199	37.052	160	8.57	72	35.743	146	4.78	
29.7	37.58	54	39.72	134	43.88	99	96.38	246	36.892	144	7.85	75	35.597	134	4.62	16
3 10.6	37.04	46	37.92	180	42.89	86	93.92	286	36.748	120	7.10	73	35.463	111	4.64	2
20.6	36.58	34	35.74	218	42.03	71	91.06	319	36.628	86	6.37	68	35.352	81	4.84	20
30.6	36.24	22	33.27	247	41.32	56	87.87	345	36.542	45	5.69	57	35.271	46	5.24	40
				265												61
4 9.6	36.02	8	30.62		40.76	38	84.42	363	36.497	0	5.12	42	35.225	3	5.85	
19.5	35.94	6	27.91	271	40.38	19	80.79	373	36.497	49	4.70	23	35.222	40	6.69	84
29.5	36.00	20	25.23	268	40.19	1	77.06	375	36.546	99	4.47	2	35.262	86	7.74	105
5 9.5	36.20	34	22.69	254	40.20	20	73.31	370	36.645	146	4.45	21	35.348	132	9.01	127
19.5	36.54	46	20.37	232	40.40	39	69.61	355	36.791	192	4.66	47	35.480	172	10.47	146
				201												164
29.4	37.00		18.36		40.79		66.06		36.983		5.13		35.652		12.11	
6 8.4	37.58	58	16.72	164	41.36	57	62.73	333	37.214	231	5.83	70	35.863	211	13.88	177
18.4	38.24	66	15.50	122	42.10	74	59.71	302	37.479	265	6.76	93	36.106	243	15.76	188
28.3	38.97	73	14.73	77	42.98	88	57.06	265	37.770	291	7.90	114	36.375	269	17.68	192
7 8.3	39.76	79	14.43	30	44.00	102	54.87	219	38.080	310	9.22	132	36.662	287	19.61	193
		83		19		110		170		320		146		298		188
18.3	40.59	83	14.62	65	45.10	118	53.17	114	38.400	323	10.68	156	36.960	302	21.49	
28.3	41.42	83	15.27	112	46.28	120	52.03	54	38.723	319	12.24	161	37.262	299	23.26	177
8 7.2	42.25	81	16.39	155	47.48	120	51.49	5	39.042	309	13.85	164	37.561	289	24.88	162
17.2	43.06	77	17.94	195	48.68	115	51.54	67	39.351	292	15.49	161	37.850	275	26.31	143
27.2	43.83	72	19.89	231	49.83	108	52.21	125	39.643	271	17.10	155	38.125	254	27.50	119
																94
9 6.2	44.55	66	22.20	262	50.91	96	53.46	179	39.914	247	18.65	146	38.379	232	28.44	
16.1	45.21	58	24.82	289	51.87	81	55.25	228	40.161	221	20.11	135	38.611	206	29.10	66
26.1	45.79	50	27.71	310	52.68	63	57.53	269	40.382	192	21.46	122	38.817	178	29.48	38
10 6.1	46.29	41	30.81	325	53.31	44	60.22	298	40.574	162	22.68	108	38.995	149	29.59	11
16.0	46.70	30	34.06	333	53.75	23	63.20	317	40.736	132	23.76	93	39.144	120	29.44	15
																36
26.0	47.00		37.39		53.98		66.37		40.868		24.69		39.264		29.08	
11 4.9	47.20	20	40.73	334	53.99	1	69.61	324	40.969	101	25.47	78	39.355	91	28.53	55
14.9	47.28	8	44.02	329	53.77	22	72.78	317	41.038	69	26.11	64	39.416	61	27.84	69
24.9	47.25	3	47.17	315	53.35	42	75.76	298	41.076	38	26.60	49	39.447	31	27.05	79
12 4.9	47.10	15	50.09	292	52.73	62	78.45	269	41.081	5	26.96	36	39.448	1	26.21	84
		26		262		79		227		27		21		28		86
14.9	46.84		52.71		51.94		80.72		41.054		27.17		39.420		25.35	
24.9	46.47	37	54.95	224	51.00	94	82.51	179	40.995	59	27.25	8	39.364	56	24.51	84
34.8	46.00	47	56.73	178	49.95	105	83.74	123	40.906	89	27.18	7	39.282	82	23.72	79
平位	s		″		s		″		s		″		s		″	
sec δ, tan δ	39.495		30.95		48.519		74.21		37.816		13.48		36.533		16.90	
	+ 3.339		+ 3.186		+ 5.413		− 5.320		+ 1.076		+ 0.398		+ 1.000		+ 0.002	
2 回正中	10 月 29 日				10 月 29 日				10 月 30 日				10 月 30 日			
a b	+ 0.2846		+ 0.1670		− 0.0660		− 0.2787		+ 0.1700		+ 0.0207		+ 0.1534		+ 0.0001	
a′ b′	+ 0.7862		− 0.6179		+ 0.7858		− 0.6184		+ 0.7782		− 0.6281		+ 0.7755		− 0.6314	
FK3番號	87				90				89				91			

星名	ε Hydi		Br 366 Cass		35 Aris		ϑ Pers	
等級	4.26		5.84		4.58		4.22	
スペクトル型	B9		A2		B3		F8	
世界時	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月 日	h m 2 38	° ′ −68 30	h m 2 39	° ′ +67 35	h m 2 40	° ′ +27 28	h m 2 40	° ′ +48 59
	s	″	s	″	s	″	s	″
1 0.8	44.13	48.03	59.79	26.01	9.549	11.19	22.055	39.17
10.8	43.63 50	49.18 115	59.41 38	27.37 136	9.434 115	11.22 3	21.874 181	39.92 75
20.8	43.09 54	49.75 57	58.97 44	28.23 86	9.294 140	11.05 17	21.658 216	40.29 37
30.8	42.53 56	49.72 3	58.49 48	28.56 33	9.132 162	10.69 36	21.415 243	40.26 3
2 9.7	41.96 57	49.10 62	57.99 50	28.33 23	8.959 173	10.16 53	21.156 259	39.83 43
	55	120	50	76	179	70	262	81
19.7	41.41	47.90	57.49	27.57	8.780	9.46	20.894	39.02
29.7	40.88 53	46.18 172	57.02 47	26.32 125	8.608 172	8.65 81	20.643 251	37.88 114
3 10.6	40.40 48	43.97 221	56.59 43	24.63 169	8.452 156	7.74 91	20.416 227	36.44 144
20.6	39.98 42	41.33 264	56.23 36	22.58 205	8.322 130	6.79 95	20.227 189	34.79 165
30.6	39.63 35	38.32 301	55.96 27	20.26 232	8.227 95	5.87 92	20.086 141	32.99 180
	26	330	18	248	53	87	83	186
4 9.6	39.37 18	35.02	55.78 7	17.78	8.174 5	5.00	20.003 18	31.13
19.5	39.19 7	31.49 353	55.71 5	15.23 255	8.169 46	4.26 74	19.985 49	29.29 184
29.5	39.12 3	27.81 368	55.76 16	12.71 252	8.215 97	3.68 58	20.034 118	27.56 173
5 9.5	39.15 13	24.06 375	55.92 26	10.32 239	8.312 148	3.31 37	20.152 183	25.99 157
19.5	39.28 23	20.33 373	56.18 37	8.16 216	8.460 195	3.18 13	20.335 245	24.66 133
		364		188		12		103
29.4	39.51	16.69	56.55	6.28	8.655	3.30	20.580	23.63
6 8.4	39.83 32	13.23 346	57.00 45	4.76 152	8.892 237	3.68 38	20.879 299	22.91 72
18.4	40.25 42	10.04 319	57.54 54	3.64 112	9.165 273	4.32 64	21.224 345	22.56 35
28.3	40.74 49	7.20 284	58.13 59	2.95 69	9.465 300	5.21 89	21.605 381	22.56 0
7 8.3	41.29 55	4.77 243	58.76 63	2.71 24	9.784 319	6.31 110	22.012 407	22.92 36
	60	194	67	22	332	129	423	72
18.3	41.89 64	2.83 141	59.43 67	2.93 66	10.116 335	7.60 144	22.435 428	23.64
28.3	42.53 64	1.42 83	60.10 68	3.59 109	10.451 332	9.04 156	22.863 425	24.69 105
8 7.2	43.17 65	0.59 22	60.78 65	4.68 150	10.783 322	10.60 164	23.288 413	26.04 135
17.2	43.82 62	0.37 40	61.43 63	6.18 187	11.105 322	12.24 166	23.701 393	27.66 162
27.2	44.44 58	0.77 99	62.06 63	8.05 220	11.410 305	13.90 167	24.094 369	29.51 185
			60		285			205
9 6.2	45.02	1.76	62.66	10.25	11.695	15.57	24.463	31.56
16.1	45.54 52	3.33 157	63.20 54	12.75 250	11.955 260	17.20 163	24.800 337	33.76 220
26.1	45.98 44	5.41 208	63.68 48	15.49 274	12.189 234	18.76 156	25.103 303	36.07 231
10 6.1	46.35 37	7.93 252	64.10 42	18.42 293	12.394 205	20.24 148	25.367 264	38.45 238
16.0	46.61 26	10.80 287	64.45 35	21.49 307	12.567 173	21.61 137	25.591 224	40.85 240
	17	310	27	314	143	125	181	239
26.0	46.78 6	13.90	64.72 19	24.63	12.710	22.86	25.772	43.24
11 4.9	46.84 5	17.11 321	64.91 10	27.78 315	12.820 110	23.98 112	25.908 136	45.56 232
14.9	46.79 15	20.31 320	65.01 10	30.88 310	12.897 77	24.97 99	25.997 89	47.79 223
24.9	46.64 15	23.38 307	65.03 2	33.84 296	12.940 43	25.81 84	26.037 40	49.87 208
12 4.9	46.39 25	26.20 282	64.95 8	36.59 275	12.949 9	26.50 69	26.028 9	51.75 188
	33	245	17	248	27	52	59	163
14.9	46.06	28.65	64.78	39.07	12.922	27.02	25.969	53.38
24.9	45.65 41	30.65 200	64.53 25	41.18 211	12.862 60	27.37 35	25.862 107	54.71 133
34.8	45.18 47	32.13 148	64.20 33	42.86 168	12.769 93	27.54 17	25.710 152	55.72 101
平位	s 43.261	″ 23.20	s 58.533	″ 18.48	s 9.522	″ 12.41	s 21.689	″ 34.98
sec δ, tan δ	+ 2.729	− 2.539	+ 2.623	+ 2.425	+ 1.127	+ 0.520	+ 1.524	+ 1.150
2 回正中	10 月 31 日		10 月 31 日		10 月 31 日		10 月 31 日	
a b	+ 0.0452	− 0.1303	+ 0.2572	+ 0.1238	+ 0.1756	+ 0.0265	+ 0.2027	+ 0.0587
a′ b′	+ 0.7696	− 0.6385	+ 0.7661	− 0.6427	+ 0.7656	− 0.6433	+ 0.7650	− 0.6440
FK3番號	95		92		94		93	

星名	† γ Ceti		π Ceti		μ Ceti		η Pers	
等級	3.58		4.39		4.36		3.93	
スペクトル型	A2		B5		F0		K0	
世界時	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月 日	h m 2 40	° ′ +2 59	h m 2 41	° ′ −14 5	h m 2 41	° ′ + 9 52	h m 2 46	° ′ +55 39
	s	″	s	″	s	″	s	″
1 0.8	23.643	54.58	27.238	55.18	54.563	37.31	36.266	58.06
10.8	23.545 98	53.88 70	27.128 110	56.25 107	54.465 98	36.80 51	36.046 220	59.10 104
20.8	23.424 121	53.23 65	26.996 132	57.10 85	54.345 120	36.28 52	35.784 262	59.71 61
30.8	23.285 139	52.66 57	26.847 149	57.69 59	54.205 140	35.75 53	35.489 295	59.87 16
2 9.7	23.136 149	52.19 47	26.689 158	58.00 31	54.054 151	35.25 50	35.176 313	59.58 29
	154	37	163	4	155	47	318	72
19.7	22.982	51.82	26.526	58.04	53.899	34.78	34.858	58.86
29.7	22.833 149	51.58 24	26.369 157	57.80 24	53.748 151	34.36 42	34.552 306	57.72 114
3 10.6	22.698 135	51.49 9	26.225 144	57.27 53	53.610 138	34.03 33	34.273 279	56.24 148
20.6	22.583 115	51.55 6	26.103 122	56.45 82	53.495 115	33.80 23	34.037 236	54.47 177
30.6	22.499 84	51.80 25	26.010 93	55.36 109	53.410 85	33.71 9	33.857 180	52.51 196
	48	45	58	136	49	8	114	209
4 9.6	22.451 7	52.25 66	25.952 15	54.00 162	53.361 5	33.79 26	33.743 39	50.42
19.5	22.444 38	52.91 87	25.937 28	52.38 184	53.356 40	34.05 47	33.704 38	48.31 211
29.5	22.482 84	53.78 109	25.965 75	50.54 204	53.396 86	34.52 67	33.742 117	46.27 204
5 9.5	22.566 129	54.87 129	26.040 120	48.50 220	53.482 132	35.19 90	33.859 193	44.37 190
19.5	22.695 170	56.16 147	26.160 164	46.30 233	53.614 175	36.09 110	34.052 263	42.70 167
								140
29.4	22.865	57.63	26.324	43.97	53.789	37.19	34.315	41.30
6 8.4	23.075 210	59.26 163	26.527 203	41.58 239	54.003 214	38.47 128	34.643 328	40.23 107
18.4	23.316 241	61.00 174	26.764 237	39.18 240	54.250 247	39.91 144	35.023 380	39.53 70
28.3	23.584 268	62.81 181	27.029 265	36.83 235	54.523 273	41.48 157	35.447 424	39.21 32
7 8.3	23.871 287	64.66 185	27.314 285	34.59 224	54.814 291	43.13 165	35.902 455	39.28 7
	298	182	299	207	304	168	475	45
18.3	24.169	66.48	27.613	32.52	55.118	44.81	36.377	39.74
28.3	24.471 302	68.22 174	27.917 304	30.68 184	55.425 307	46.49 168	36.862 485	40.57 83
8 7.2	24.771 300	69.84 162	28.220 303	29.12 156	55.730 305	48.11 162	37.344 482	41.76 119
17.2	25.061 290	71.29 145	28.515 295	27.88 124	56.025 295	49.63 152	37.816 472	43.27 151
27.2	25.337 276	72.54 125	28.796 281	27.00 88	56.306 281	51.01 138	38.268 452	45.08 181
	257	101	262	50	262	121	424	205
9 6.2	25.594	73.55	29.058	26.50	56.568	52.22	38.692	47.13
16.1	25.829 235	74.32 77	29.296 238	26.39 11	56.808 240	53.24 102	39.084 392	49.40 227
26.1	26.033 209	74.82 50	29.507 211	26.64 25	57.022 214	54.05 81	39.436 352	51.83 243
10 6.1	26.220 182	75.07 25	29.690 183	27.25 61	57.210 188	54.65 60	39.746 310	54.39 256
16.0	26.373 153	75.08 1	29.842 152	28.17 92	57.369 159	55.05 40	40.009 263	57.02 263
	125	20	121	118	131	21	213	266
26.0	26.498	74.88	29.963	29.35	57.500	55.26	40.222	59.68
11 4.9	26.593 95	74.50 38	30.053 90	30.72 137	57.601 101	55.30 4	40.382 160	62.31 263
14.9	26.659 66	73.97 53	30.110 57	32.22 150	57.672 71	55.19 11	40.487 105	64.88 257
24.9	26.695 36	73.34 63	30.136 26	33.79 157	57.713 41	54.96 23	40.533 46	67.30 242
12 4.9	26.701 6	72.64 70	30.131 5	35.34 155	57.724 11	54.64 32	40.520 13	69.54 224
	24	73	36	149	20	39	74	198
14.9	26.677	71.91	30.095	36.83	57.704	54.25	40.446	71.52
24.9	26.625 52	71.17 74	30.030 65	38.18 135	57.654 50	53.81 44	40.315 131	73.20 168
34.8	26.545 80	70.46 71	29.938 92	39.36 118	57.576 78	53.33 48	40.130 185	74.51 131
平位	s 23.746	″ 63.06	s 27.340	″ 41.59	s 54.638	″ 43.73	s 35.661	″ 52.79
sec δ, tan δ	+ 1.001	+ 0.035	+ 1.031	− 0.251	+ 1.015	+ 0.174	+ 1.773	+ 1.464
2 回正中	10 月 31 日		11 月 1 日		11 月 1 日		11 月 2 日	
a b	+ 0.1556	+ 0.0027	+ 0.1425	− 0.0128	+ 0.1609	+ 0.0088	+ 0.2182	+ 0.0729
a′ b′	+ 0.7649	− 0.6441	+ 0.7619	− 0.6476	+ 0.7607	− 0.6492	+ 0.7472	− 0.6646
FK3番號	96		97		98		99	

星名	41 Aris				β Forn				τ^2 Erid				τ Pers			
等級	3.68				4.50				4.81				4.06			
スペクトル型	B 8				K 0				K 0				G 0, A 5			
世界時	赤 経		赤 緯		赤 経		赤 緯		赤 経		赤 緯		赤 経		赤 緯	
月 日	h m 2 46		° ′ +27 1		h m 2 46		° ′ −32 38		h m 2 48		° ′ −21 13		h m 2 50		° ′ +52 31	
	s		″		s		″		s		″		s		″	
1 0.8	40.894	110	49.87	3	44.795	148	42.99	135	29.785	118	77.56	123	16.852	194	69.88	96
10.8	40.784	138	49.90	14	44.647	171	44.34	96	29.667	142	78.79	93	16.658	234	70.84	57
20.8	40.646	159	49.76	33	44.476	189	45.30	54	29.525	160	79.72	62	16.424	266	71.41	14
30.8	40.487	173	49.43	50	44.287	199	45.84	10	29.365	171	80.34	27	16.158	286	71.55	28
2 9.7	40.314	179	48.93	65	44.088	202	45.94	32	29.194	175	80.61	7	15.872	291	71.27	70
19.7	40.135		48.28		43.886		45.62		29.019		80.54		15.581		70.57	
29.7	39.961	174	47.51	77	43.691	195	44.87	75	28.848	171	80.12	42	15.300	281	69.50	107
3 10.7	39.802	159	46.64	87	43.510	181	43.71	116	28.690	158	79.36	76	15.042	258	68.10	140
20.6	39.668	134	45.74	90	43.353	157	42.17	154	28.554	136	78.28	108	14.823	219	66.44	166
30.6	39.567	101	44.85	89	43.228	125	40.27	190	28.447	107	76.89	139	14.654	169	64.59	185
		59		83		86		221		71		169		107		195
4 9.6	39.508	11	44.02		43.142	40	38.06		28.376	29	75.20		14.547	39	62.64	
19.5	39.497	39	43.30	72	43.102	8	35.57	249	28.347	17	73.24	196	14.508	258	60.67	197
29.5	39.536	91	42.75	55	43.110	58	32.85	272	28.364	63	71.05	219	14.542	34	58.77	190
5 9.5	39.627	141	42.39	36	43.168	109	29.95	290	28.427	111	68.66	239	14.649	107	57.01	176
19.5	39.768	189	42.26	13	43.277	158	26.94	301	28.538	155	66.13	253	14.827	178	55.47	154
				11				306				263		245		126
29.4	39.957		42.37		43.435	204	23.88		28.693	197	63.50	267	15.072	305	54.21	
6 8.4	40.188	231	42.74	37	43.639	243	20.84	304	28.890	233	60.83	264	15.377	355	53.26	95
18.4	40.455	267	43.36	62	43.882	276	17.90	294	29.123	264	58.19	254	15.732	396	52.66	60
28.4	40.750	295	44.22	86	44.158	303	15.12	278	29.387	286	55.65	239	16.128	426	52.42	24
7 8.3	41.066	316	45.28	106	44.461	321	12.58	254	29.673	302	53.26	216	16.554	447	52.56	14
		330		126				223								51
18.3	41.396		46.54		44.782		10.35	186	29.975	310	51.10	188	17.001	455	53.07	86
28.3	41.730	334	47.94	140	45.113	331	8.49	144	30.285	310	49.22	154	17.456	453	53.93	119
8 7.2	42.061	331	49.45	151	45.446	333	7.05	97	30.595	304	47.68	116	17.909	444	55.12	149
17.2	42.384	323	51.04	159	45.772	326	6.08	48	30.899	290	46.52	74	18.353	426	56.61	176
27.2	42.691	307	52.65	161	46.085	313	5.60	2	31.189	272	45.78	31	18.779	401	58.37	198
		288		161		293										
9 6.2	42.979	265	54.26	158	46.378	266	5.62	53	31.461	249	45.47	13	19.180	371	60.35	218
16.1	43.244	238	55.84	150	46.644	237	6.15	99	31.710	222	45.60	54	19.551	335	62.53	232
26.1	43.482	211	57.34	142	46.881	202	7.14	143	31.932	192	46.14	93	19.886	296	64.85	242
10 6.1	43.693	180	58.76	132	47.083	166	8.57	179	32.124	160	47.07	127	20.182	253	67.27	249
16.1	43.873	150	60.08	121	47.249	127	10.36	208	32.284	128	48.34	156	20.435	207	69.76	251
26.0	44.023		61.29		47.376		12.44		32.412		49.90		20.642		72.27	
11 4.9	44.140	117	62.36	107	47.465	89	14.72	228	32.506	94	51.65	175	20.801	159	74.74	247
14.9	44.225	85	63.31	95	47.515	50	17.11	239	32.566	60	53.54	189	20.909	108	77.15	241
24.9	44.275	50	64.12	81	47.525	10	19.50	239	32.591	25	55.47	193	20.963	54	79.42	227
12 4.9	44.291	16	64.79	67	47.498	27	21.81	231	32.584	7	57.36	189	20.962	1	81.51	209
		20		51		64		213		40		179		56		185
14.9	44.271		65.30		47.434		23.94	187	32.544	71	59.15	161	20.906	111	83.36	156
24.9	44.217	54	65.64	34	47.337	97	25.81	155	32.473	100	60.76	138	20.795	161	84.92	122
34.8	44.129	88	65.81	17	47.209	128	27.36		32.373		62.14		20.634		86.14	
平位	s 40.842		″ 51.38		s 44.778		″ 24.54		s 29.825		″ 62.05		s 16.337		″ 65.37	
sec δ, tan δ	+ 1.123		+ 0.510		+ 1.188		− 0.641		+ 1.073		− 0.389		+ 1.644		+ 1.305	
2 回正中	11 月 2 日				11 月 2 日				11 月 2 日				11 月 3 日			
a , b	+ 0.1759		+ 0.0254		+ 0.1249		− 0.0319		+ 0.1360		− 0.0192		+ 0.2122		+ 0.0641	
a′ b′	+ 0.7470		− 0.6648		+ 0.7468		− 0.6651		+ 0.7417		− 0.6707		+ 0.7365		− 0.6765	
FK3番號	100				101				102				103			

星名	η Erid				ϑ Erid *pr*				47 H. Ceph				α Ceti			
等級	4.05				3.42				5.66				2.82			
スペクトル型	K 0				A 2				M 0				M 0			
世界時	赤 経		赤 緯		赤 経		赤 緯		赤 経		赤 緯		赤 経		赤 緯	
月 日	h m 2 53		° ′ − 9 6		h m 2 56		° ′ −40 31		h m 2 58		° ′ +79 11		h m 2 59		° ′ + 3 52	
	s		″		s		″		s		″		s		″	
1 0.9	41.332	100	83.85	102	8.399	175	61.42	149	36.90	82	68.67		20.922	90	8.04	69
10.8	41.232	123	84.87	85	8.224	201	62.91	105	36.08	94	70.60	193	20.832	115	7.35	63
20.8	41.109	143	85.72	64	8.023	221	63.96	57	35.14	104	72.00	140	20.717	136	6.72	56
30.8	40.966	155	86.36	41	7.802	233	64.53	9	34.10	109	72.81	81	20.581	151	6.16	47
2 9.7	40.811	161	86.77	18	7.569	237	64.62	40	33.01	110	73.02	21	20.430	158	5.69	37
												39				
19.7	40.650		86.95		7.332		64.22		31.91		72.63		20.272		5.32	
29.7	40.492	158	86.88	7	7.101	231	63.35	87	30.86	105	71.64	99	20.116	156	5.06	26
3 10.7	40.345	147	86.57	31	6.885	216	62.03	132	29.88	98	70.13	151	19.969	147	4.94	12
20.6	40.217	128	86.01	56	6.695	190	60.29	174	29.04	84	68.15	198	19.842	127	4.98	4
30.6	40.118	99	85.19	82	6.538	157	58.16	213	28.36	68	65.81	234	19.742	100	5.18	20
		65		107		115		246		50		263		64		39
4 9.6	40.053	24	84.12		6.423	68	55.70		27.86	28	63.18		19.678	24	5.57	
19.6	40.029	20	82.81	131	6.355	15	52.94	276	27.58	6	60.40	278	19.654	20	6.16	59
29.5	40.049	65	81.27	154	6.340	40	49.95	299	27.52	17	57.55	285	19.674	66	6.96	80
5 9.5	40.114	110	79.52	175	6.380	94	46.79	316	27.69	38	54.76	279	19.740	112	7.96	100
19.5	40.224	154	77.59	193	6.474	149	43.53	326	28.07	58	52.12	264	19.852	155	9.16	120
				207				330				240				139
29.4	40.378		75.52		6.623		40.23		28.65		49.72		20.007		10.55	
6 8.4	40.572	194	73.36	216	6.822	199	36.98	325	29.41	76	47.64	208	20.202	195	12.08	153
18.4	40.800	228	71.15	221	7.066	244	33.85	313	30.34	93	45.93	171	20.431	229	13.75	167
28.4	41.057	257	68.94	221	7.348	282	30.92	293	31.40	106	44.65	128	20.688	257	15.48	173
7 8.3	41.335	278	66.80	214	7.662	314	28.26	266	32.56	116	43.83	82	20.967	279	17.26	178
		293		201		337		230		125		34		293		177
18.3	41.628		64.79		7.999		25.96		33.81		43.49		21.260		19.03	
28.3	41.928	300	62.95	184	8.350	351	24.06	190	35.09	128	43.63	14	21.560	300	20.73	170
8 7.3	42.228	300	61.36	159	8.706	356	22.64	142	36.40	131	44.26	63	21.860	300	22.32	159
17.2	42.522	294	60.03	133	9.059	353	21.73	91	37.69	129	45.36	110	22.155	295	23.76	144
27.2	42.803	281	59.03	100	9.400	341	21.36	37	38.95	126	46.90	154	22.437	282	24.99	123
		264		67		321		17		120		196		267		102
9 6.2	43.067	243	58.36		9.721		21.53		40.15	112	48.86		22.704	246	26.01	
16.1	43.310	219	58.04	32	10.015	294	22.24	70	41.27	101	51.20	234	22.950	224	26.78	77
26.1	43.529	192	58.07	3	10.277	262	23.47	123	42.28	90	53.88	268	23.174	198	27.30	52
10 6.1	43.721	163	58.43	36	10.503	226	25.16	169	43.18	75	56.84	296	23.372	172	27.57	27
16.1	43.884	134	59.10	67	10.687	184	27.23	207	43.93	59	60.03	319	23.544	144	27.60	3
				92		142		239				336				19
26.0	44.018		60.02		10.829		29.62		44.52		63.39		23.688		27.41	
11 5.0	44.122	104	61.14	112	10.927	98	32.22	260	44.94	42	66.84	345	23.803	115	27.05	36
14.9	44.195	73	62.40	126	10.979	52	34.92	270	45.18	24	70.31	347	23.889	86	26.54	51
24.9	44.236	41	63.74	134	10.987	8	37.62	270	45.23	5	73.72	341	23.943	54	25.92	62
12 4.9	44.247	11	65.11	137	10.951	36	40.22	260	45.08	15	76.98	326	23.967	24	25.24	68
		21		132		78		239		35		301		7		72
14.9	44.226		66.43		10.873		42.61		44.73		79.99		23.960		24.52	
24.9	44.174	52	67.67	124	10.756	117	44.70	209	44.19	54	82.67	268	23.921	39	23.81	71
34.8	44.094	80	68.78	111	10.603	153	46.43	173	43.48	71	84.92	225	23.852	69	23.11	70
平位	s 41.373		″ 71.75		s 8.222		″ 41.45		s 33.203		″ 60.86		s 20.932		″ 16.40	
sec δ, tan δ	+ 1.013		− 0.161		+ 1.316		− 0.855		+ 5.337		+ 5.242		+ 1.002		+ 0.068	
2 回正中	11 月 4 日				11 月 4 日				11 月 5 日				11 月 5 日			
a , b	+ 0.1460		− 0.0078		+ 0.1137		+ 0.0410		+ 0.3989		+ 0.2487		+ 0.1565		+ 0.0032	
a′ b′	+ 0.7263		− 0.6874		+ 0.7189		− 0.6951		+ 0.7116		− 0.7026		+ 0.7091		− 0.7051	
FK3番號	104				106				105				107			

本初子午線正中時

星名	γ Pers		ρ Pers		ϑ Hydi		μ Horo	
等級	3.08		3.3—4.1		5.52		5.16	
スペクトル型	F5, A3		M3		B8		F0	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 3 0	° ′ +53 17	h m 3 1	° ′ +38 37	h m 3 2	° ′ −72 6	h m 3 2	° ′ −59 56
	s	″	s	″	s	″	s	″
1 0.9	44.107 188	23.79 108	34.978 124	30.02 54	9.28 60	99.96 143	18.185 325	98.43 155
10.8	43.919 233	24.87 69	34.854 159	30.56 26	8.68 66	101.39 85	17.860 362	99.98 102
20.8	43.686 268	25.56 27	34.695 187	30.82 3	8.02 69	102.24 25	17.498 389	101.00 44
30.8	43.418 290	25.83 15	34.508 205	30.79 31	7.33 71	102.49 34	17.109 402	101.44 13
2 9.7	43.128 299	25.68 57	34.303 215	30.48 59	6.62 70	102.15 93	16.707 404	101.31 70
19.7	42.829 293	25.11 97	34.088 212	29.89 84	5.92 68	101.22 147	16.303 392	100.61 124
29.7	42.536 271	24.14 131	33.876 196	29.05 105	5.24 64	99.75 198	15.911 368	99.37 175
3 10.7	42.265 235	22.83 159	33.680 171	28.00 121	4.60 57	97.77 243	15.543 330	97.62 221
20.6	42.030 185	21.24 180	33.509 133	26.79 130	4.03 50	95.34 283	15.213 281	95.41 262
30.6	41.845 124	19.44 193	33.376 86	25.49 134	3.53 40	92.51 316	14.932 223	92.79 297
4 9.6	41.721 55	17.51 197	33.290 34	24.15 130	3.13 30	89.35 342	14.709 156	89.82 325
19.6	41.666 17	15.54 193	33.256 23	22.85 120	2.83 18	85.93 360	14.553 82	86.57 348
29.5	41.683 93	13.61 180	33.279 82	21.65 105	2.65 7	82.33 372	14.471 5	83.09 361
5 9.5	41.776 165	11.81 161	33.361 139	20.60 84	2.58 6	78.61 374	14.466 73	79.48 366
19.5	41.941 234	10.20 136	33.500 193	19.76 60	2.64 18	74.87 367	14.539 151	75.82 365
29.4	42.175 296	8.84 106	33.693 242	19.16 33	2.82 30	71.20 354	14.690 226	72.17 354
6 8.4	42.471 350	7.78 73	33.935 284	18.83 4	3.12 41	67.66 331	14.916 294	68.63 335
18.4	42.821 393	7.05 36	34.219 319	18.79 25	3.53 50	64.35 299	15.210 354	65.28 307
28.4	43.214 427	6.69 0	34.538 344	19.04 54	4.03 60	61.36 261	15.564 406	62.21 271
7 8.3	43.641 449	6.69 36	34.882 362	19.58 80	4.63 66	58.75 214	15.970 447	59.50 229
18.3	44.090	7.05	35.244	20.38	5.29	56.61	16.417	57.21
28.3	44.550 460	7.77 72	35.614 370	21.42 104	6.00 71	54.98 163	16.891 474	55.42 179
8 7.3	45.013 463	8.82 105	35.984 370	22.69 127	6.74 74	53.92 106	17.381 490	54.18 124
17.2	45.468 455	10.18 136	36.348 364	24.13 144	7.50 76	53.47 45	17.874 493	53.52 66
27.2	45.907 439	11.82 164	36.699 351	25.72 159	8.24 74	53.64 17	18.354 480	53.47 5
	416	187	331	170	70	78	456	57
9 6.2	46.323 388	13.69 208	37.030 308	27.42 178	8.94 65	54.42	18.810	54.04
16.1	46.711 354	15.77 224	37.338 282	29.20 182	9.59 57	55.79 137	19.230 420	55.19 115
26.1	47.065 316	18.01 237	37.620 252	31.02 183	10.16 48	57.71 192	19.603 373	56.90 171
10 6.1	47.381 273	20.38 244	37.872 220	32.85 181	10.64 36	60.11 240	19.919 316	59.10 220
16.1	47.654 228	22.82 248	38.092 186	34.66 178	11.00 25	62.90 279	20.171 252	61.71 261
						307	182	291
26.0	47.882 179	25.30 248	38.278 149	36.44 171	11.25 13	65.97	20.353 109	64.62
11 5.0	48.061 127	27.78 242	38.427 112	38.15 161	11.38 1	69.20 323	20.462 34	67.73 311
14.9	48.188 73	30.20 231	38.539 71	39.76 150	11.37 13	72.47 327	20.496 41	70.92 319
24.9	48.261 15	32.51 215	38.610 29	41.26 135	11.24 26	75.66 319	20.455 112	74.05 313
12 4.9	48.276 42	34.66 193	38.639 13	42.61 117	10.98 37	78.64 298	20.343 179	77.02 297
						265		268
14.9	48.234	36.59	38.626	43.78	10.61	81.29	20.164	79.70
24.9	48.134 100	38.25 166	38.570 56	44.73 95	10.14 47	83.53 224	19.923 241	82.01 231
34.8	47.981 153	39.58 133	38.473 97	45.45 72	9.58 56	85.27 174	19.629 294	83.86 185
平位	s 43.516	″ 19.60	s 34.724	″ 29.02	s 7.547	″ 75.86	s 17.429	″ 75.48
sec δ, tan δ	1.673	+ 1.341	+ 1.280	+ 0.799	+ 3.257	− 3.100	+ 1.997	− 1.729
2 回正中	11 月 5 日		11 月 6 日		11 月 6 日		11 月 6 日	
a b	+ 0.2167	+ 0.0630	+ 0.1913	+ 0.0374	+ 0.0058	− 0.1448	+ 0.0710	− 0.0807
a′ b′	+ 0.7049	− 0.7093	+ 0.7022	− 0.7120	+ 0.7005	− 0.7136	+ 0.7000	− 0.7141
FK3番號	108		109		113		110	

本初子午線正中時

星名	β Pers		ε Pers		∂ Aris		† α Forn	
等級	2.2—3.5		4.17		4.53		3.95	
スペクトル型	B8		G0		K0		F8	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 3 4	° ′ +40 44	h m 3 4	° ′ +49 23	h m 3 8	° ′ +19 30	h m 3 9	° ′ −29 12
	s	″	s	″	s	″	s	″
1 0.9	31.243 129	30.59 64	61.220 158	67.34 97	25.383 88	54.46 15	41.604 127	41.60 148
10.8	31.114 164	31.23 34	61.062 201	68.31 62	25.295 119	54.31 24	41.477 154	43.08 113
20.8	30.950 194	31.57 5	60.861 234	68.93 23	25.176 142	54.07 33	41.323 177	44.21 73
30.8	30.756 215	31.62 27	60.627 257	69.16 16	25.034 161	53.74 42	41.146 192	44.94 33
2 9.8	30.541 223	31.35 56	60.370 267	69.00 55	24.873 170	53.32 48	40.954 199	45.27 9
19.7	30.318 221	30.79 83	60.103 262	68.45 89	24.703 169	52.84 53	40.755 197	45.18
29.7	30.097 207	29.96 107	59.841 245	67.56 122	24.534 160	52.31 56	40.558 187	44.68 89
3 10.7	29.890 179	28.89 124	59.596 212	66.34 146	24.374 141	51.75 54	40.371 167	43.79 128
20.6	29.711 141	27.65 136	59.384 168	64.88 166	24.233 111	51.21 54	40.204 139	42.51 164
30.6	29.570 94	26.29 142	59.216 113	63.22 176	24.122 74	50.72 49	40.065 103	40.87 196
4 9.6	29.476 40	24.87 139	59.103 49	61.46 180	24.048 30	50.31 28	39.962 61	38.91 226
19.6	29.436 19	23.48 131	59.054 18	59.66 174	24.018 16	50.03 13	39.901 14	36.65 252
29.5	29.455 79	22.17 117	59.072 86	57.92 162	24.034 65	49.90 6	39.887 35	34.13 271
5 9.5	29.534 138	21.00 96	59.158 155	56.30 143	24.099 114	49.96 26	39.922 85	31.42 287
19.5	29.672 194	20.04 73	59.313 219	54.87 119	24.213 159	50.22 47	40.007 134	28.55 295
29.4	29.866 245	19.31 45	59.532 277	53.68 90	24.372 203	50.69 68	40.141 178	25.60 297
6 8.4	30.111 288	18.86 16	59.809 327	52.78 59	24.575 239	51.37 88	40.319 220	22.63 293
18.4	30.399 324	18.70 13	60.136 368	52.19 24	24.814 269	52.25 106	40.539 254	19.70 280
28.4	30.723 351	18.83 43	60.504 399	51.95 9	25.083 292	53.31 120	40.793 283	16.90 260
7 8.3	31.074 370	19.26 71	60.903 421	52.04 44	25.375 307	54.51 133	41.076 303	14.30 235
18.3	31.444	19.97	61.324	52.48	25.682	55.84	41.379	11.95
28.3	31.822 378	20.94 97	61.756 432	53.24 76	25.998 316	57.24 140	41.696 317	9.94 201
8 7.3	32.202 380	22.15 121	62.191 435	54.30 106	26.315 317	58.69 145	42.018 322	8.32 162
17.2	32.576 374	23.56 141	62.619 428	55.64 134	26.628 313	60.13 144	42.338 320	7.13 119
27.2	32.936 360	25.13 157	63.033 414	57.22 158	26.928 300	61.54 141	42.648 310	6.42 71
	342	170	394	179	286	133	295	22
9 6.2	33.278	26.83 180	63.427	59.01 197	27.214 266	62.87 124	42.943 274	6.20 27
16.1	33.597 319	28.63 187	63.795 368	60.98 210	27.480 244	64.11 111	43.217 248	6.47 75
26.1	33.889 292	30.50 190	64.132 337	63.08 220	27.724 219	65.22 97	43.465 219	7.22 119
10 6.1	34.151 262	32.40 189	64.435 303	65.28 226	27.943 194	66.19 84	43.684 186	8.41 157
16.1	34.380 229	34.29 188	64.699 264	67.54 228	28.137 164	67.03 70	43.870 151	9.98 190
	194		224					
26.0	34.574 156	36.17 181	64.923 179	69.82 227	28.301 135	67.73 57	44.021 116	11.88 213
11 5.0	34.730 117	37.98 174	65.102 132	72.09 221	28.436 105	68.30 44	44.137 77	14.01 228
14.9	34.847 76	39.72 162	65.234 82	74.30 210	28.541 72	68.74 33	44.214 40	16.29 233
24.9	34.923 32	41.34 147	65.316 31	76.40 195	28.613 38	69.07 22	44.254 2	18.62 229
12 4.9	34.955 13	42.81 130	65.347 23	78.35 175	28.651 4	69.29 12	44.256 36	20.91 215
14.9	34.942	44.11	65.324	80.10	28.655 —	69.41	44.220	23.06
24.9	34.885 57	45.19 108	65.249 75	81.60 150	28.623 32	69.43 2	44.149 71	25.00 194
34.8	34.785 100	46.01 82	65.123 126	82.80 120	28.558 65	69.36 7	44.044 105	26.67 167
平位	s 30.941	″ 29.20	s 60.727	″ 64.11	s 25.296	″ 58.55	s 41.456	″ 24.50
sec δ, tan δ	+ 1.320	+ 0.861	+ 1.537	+ 1.167	+ 1.061	+ 0.354	+ 1.146	− 0.559
2 回正中	11 月 6 日		11 月 7 日		11 月 7 日		11 月 8 日	
a b	+ 0.1947	+ 0.0398	+ 0.2095	+ 0.0538	+ 0.1706	+ 0.0161	+ 0.1259	− 0.0252
a′ b′	+ 0.6930	− 0.7209	+ 0.6915	− 0.7224	+ 0.6807	− 0.7326	+ 0.6766	− 0.7364
FK3番號	111		112		114		117	

星名	94 Ceti		38 G. Horo		48 H. Ceph		82 G. Erid	
等級 スペクトル型	5.14	F8	5.72	N0	5.50	F0	4.30	G5
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 3 9	° ′ −1 24	h m 3 11	° ′ −57 31	h m 3 13	° ′ +77 31	h m 3 17	° ′ −43 16
	s	″	s	″	s	″	s	″
1 0.9	54.820 86	25.42 86	8.575 289	72.31 168	11.50 65	62.00 203	41.861 170	78.03 169
10.8	54.734 112	26.28 75	8.286 327	73.99 115	10.85 77	64.03 153	41.691 202	79.72 124
20.8	54.622 136	27.03 62	7.959 355	75.14 59	10.08 87	65.56 97	41.489 227	80.96 75
30.8	54.486 151	27.65 47	7.604 372	75.73 2	9.21 92	66.53 38	41.262 244	81.71 24
2 9.8	54.335 160	28.12 31	7.232 376	75.75 54	8.29 95	66.91 21	41.018 251	81.95 26
19.7	54.175 161	28.43 14	6.856 368	75.21 108	7.34 92	66.70 80	40.767 249	81.69 76
29.7	54.014 151	28.57 4	6.488 348	74.13 159	6.42 87	65.90 133	40.518 237	80.93 123
3 10.7	53.863 135	28.53 23	6.140 316	72.54 206	5.55 76	64.57 181	40.281 213	79.70 168
20.6	53.728 108	28.30 44	5.824 272	70.48 248	4.79 63	62.76 220	40.068 182	78.02 209
30.6	53.620 74	27.86 65	5.552 218	68.00 285	4.16 47	60.56 250	39.886 140	75.93 244
4 9.6	53.546 35	27.21 87	5.334 155	65.15 315	3.69 30	58.06 269	39.746 92	73.49 277
19.6	53.511 8	26.34 108	5.179 88	62.00 338	3.39 10	55.37 277	39.654 40	70.72 302
29.5	53.519	25.26 129	5.091	58.62 355	3.29 9	52.60 276	39.614 16	67.70 321
5 9.5	53.573 54	23.97 148	5.076 15	55.07 363	3.38 29	49.84 264	39.630 75	64.49 334
19.5	53.672 99	22.49 165	5.135 59	51.44 363	3.67 46	47.20 243	39.705 130	61.15 339
29.5	53.815 184	20.84 178	5.268 203	47.81 355	4.13 63	44.77 214	39.835 185	57.76 337
6 8.4	53.999 219	19.06 187	5.471 268	44.26 338	4.76 78	42.63 179	40.020 233	54.39 326
18.4	54.218 248	17.19 193	5.739 327	40.88 313	5.54 90	40.84 140	40.253 277	51.13 307
28.4	54.466 271	15.26 192	6.066 376	37.75 280	6.44 100	39.44 96	40.530 313	48.06 280
7 8.3	54.737 288	13.34 186	6.442 416	34.95 239	7.44 108	38.48 50	40.843 341	45.26 246
18.3	55.025 296	11.48 176	6.858 443	32.56 190	8.52 112	37.98 4	41.184 360	42.80 205
28.3	55.321 298	9.72 160	7.301 460	30.66 138	9.64 115	37.94 45	41.544 371	40.75 158
8 7.3	55.619 294	8.12 140	7.761 464	29.28 79	10.79 115	38.39 90	41.915 371	39.17 106
17.2	55.913 284	6.72 115	8.225 455	28.49 20	11.94 113	39.29 135	42.286 364	38.11 50
27.2	56.197 270	5.57 88	8.680 435	28.29 42	13.07 108	40.64 176	42.650 349	37.61 6
9 6.2	56.467 251	4.69 59	9.115 404	28.71 101	14.15 103	42.40 214	42.999 325	37.67 62
16.2	56.718 230	4.10 29	9.519 362	29.72 158	15.18 94	44.54 249	43.324 295	38.29 117
26.1	56.948 205	3.81 0	9.881 311	31.30 208	16.12 83	47.03 279	43.619 259	39.46 166
10 6.1	57.153 180	3.81 26	10.192 254	33.38 251	16.95 73	49.82 303	43.878 220	41.12 208
16.1	57.333 151	4.07 51	10.446 190	35.89 284	17.68 59	52.85 321	44.098 176	43.20 243
26.0	57.484 123	4.58 69	10.636 123	38.73 305	18.27 45	56.06 334	44.274 130	45.63 268
11 5.0	57.607 94	5.27 85	10.759 54	41.78 317	18.72 29	59.40 334	44.404 83	48.31 282
14.9	57.701 62	6.12 95	10.813 15	44.95 314	19.01 13	62.79 339	44.487 34	51.13 284
24.9	57.763 31	7.07 100	10.798 83	48.09 299	19.14 5	66.14 335	44.521 14	53.97 276
12 4.9	57.794 1	8.07 100	10.715 147	51.08 275	19.09 23	69.37 323	44.507 60	56.73 257
14.9	57.793 34	9.07 97	10.568 205	53.83 239	18.86 39	72.40 272	44.447 105	59.30 229
24.9	57.759 65	10.04 90	10.363 258	56.22 196	18.47 55	75.12 234	44.342 144	61.59 192
34.9	57.694	10.94	10.105	58.18	17.92	77.46	44.198	63.51
平位	s 54.786	″ 15.53	s 7.814	″ 50.07	s 8.244	″ 55.13	s 41.467	″ 58.18
sec δ, tan δ	+ 1.000	− 0.025	+ 1.863	− 1.572	+ 4.632	+ 4.523	+ 1.374	− 0.942
2 回正中	11 月 8 日		11 月 8 日		11 月 9 日		11 月 9 日	
a b	+ 0.1521	− 0.0011	+ 0.0757	− 0.0704	+ 0.3784	+ 0.2006	+ 0.1056	− 0.0408
a′ b′	+ 0.6759	− 0.7370	+ 0.6719	− 0.7406	+ 0.6654	− 0.7465	+ 0.6505	− 0.7595
FK3番號	116		118		115		119	

星名	α Pers		o Taur		ξ Taur		2 H. Caml	
等級 スペクトル型	1.90	F5	3.80	G5	3.75	B8	4.42	B9p
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 3 20	° ′ +49 39	h m 3 21	° ′ +8 49	h m 3 24	° ′ +9 32	h m 3 24	° ′ +59 44
	s	″	s	″	s	″	s	″
1 0.9	19.312 148	51.67 110	47.848 77	52.20 53	7.925 76	12.94 50	31.871 208	53.87 153
10.8	19.164 194	52.77 76	47.771 107	51.67 51	7.849 106	12.44 49	31.663 268	55.40 112
20.8	18.970 232	53.53 39	47.664 133	51.16 48	7.743 132	11.95 47	31.395 316	56.52 69
30.8	18.738 259	53.92 1	47.531 151	50.68 44	7.611 151	11.48 43	31.079 351	57.21 22
2 9.8	18.479 273	53.93 38	47.380 163	50.24 40	7.460 163	11.05 39	30.728 369	57.43 25
19.7	18.206 273	53.55 74	47.217 165	49.84 32	7.297 166	10.66 33	30.359 368	57.18 71
29.7	17.933 259	52.81 106	47.052 159	49.52 24	7.131 160	10.33 26	29.991 349	56.47 112
3 10.7	17.674 231	51.75 135	46.893 142	49.28 14	6.971 143	10.07 16	29.642 312	55.35 149
20.7	17.443 188	50.40 155	46.751 116	49.14 1	6.828 118	9.91 4	29.330 259	53.86 178
30.6	17.255 135	48.85 169	46.635 83	49.13 13	6.710 84	9.87 10	29.071 193	52.08 200
4 9.6	17.120 74	47.16 175	46.552 43	49.26 30	6.626 45	9.97 27	28.878 114	50.08 212
19.6	17.046 7	45.41 174	46.509 1	49.56 48	6.581 1	10.24 44	28.764 31	47.96 216
29.5	17.039 62	43.67 164	46.510 47	50.04 67	6.580 45	10.68 62	28.733 57	45.80 212
5 9.5	17.101 131	42.03 148	46.557 94	50.71 86	6.625 93	11.30 82	28.790 143	43.68 198
19.5	17.232 197	40.55 127	46.651 138	51.57 105	6.718 137	12.12 100	28.933 226	41.70 178
29.5	17.429 257	39.28 101	46.789 180	52.62 122	6.855 178	13.12 117	29.159 302	39.92 152
6 8.4	17.686 309	38.27 71	46.969 216	53.84 136	7.033 216	14.29 132	29.461 369	38.40 120
18.4	17.995 354	37.56 40	47.185 248	55.20 147	7.249 246	15.61 144	29.830 427	37.20 87
28.4	18.349 388	37.16 7	47.433 271	56.67 154	7.495 271	17.05 151	30.257 471	36.33 50
7 8.4	18.737 413	37.09 26	47.704 288	58.21 157	7.766 288	18.56 154	30.728 505	35.83 11
18.3	19.150 427	37.35 58	47.992 299	59.78 156	8.054 299	20.10 154	31.233 527	35.72 26
28.3	19.577 434	37.93 88	48.291 302	61.34 150	8.353 303	21.64 148	31.760 536	35.98 63
8 7.3	20.011 431	38.81 116	48.593 299	62.84 139	8.656 300	23 12 138	32.296 537	36.61 98
17.2	20.442 420	39.97 141	48.892 291	64.23 125	8.956 293	24.50 125	32.833 525	37.59 132
27.2	20.862 403	41.38 162	49.183 278	65.48 108	9.249 279	25.75 108	33.358 507	38.91 162
9 6.2	21.265 380	43.00 181	49.461 261	66.56 87	9.528 263	26.83 89	33.865 479	40.53 189
16.2	21.645 353	44.81 196	49.722 242	67.43 67	9.791 244	27.72 69	34.344 446	42.42 212
26.1	21.998 320	46.77 208	49.964 218	68.10 44	10.035 221	28.41 47	34.790 406	44.54 233
10 6.1	22.318 283	48.85 216	50.182 195	68.54 25	10.256 197	28.88 27	35.196 359	46.87 247
16.1	22.601 244	51.01 220	50.377 168	68.79 4	10.453 171	29.15 9	35.555 308	49.34 259
26.1	22.845 201	53.21 222	50.545 140	68.83 11	10.624 143	29.24 8	35.863 251	51.93 266
11 5.0	23.046 154	55.43 218	50.685 111	68.72 26	10.767 114	29.16 22	36.114 189	54.59 266
14.9	23.200 103	57.61 210	50.796 79	68.46 36	10.881 83	28.94 32	36.303 122	57.25 262
24.9	23.303 51	59.71 199	50.875 48	68.10 44	10.964 50	28.62 40	36.425 53	59.87 250
12 4.9	23.354 4	61.70 181	50.923 13	67.66 48	11.014 16	28.22 45	36.478 21	62.37 233
14.9	23.350 59	63.51 158	50.936 20	67.18 51	11.030 18	27.77 47	36.457 93	64.70 208
24.9	23.291 113	65.09 132	50.916 55	66.67 52	11.012 52	27.30 49	36.364 164	66.78 178
34.9	23.178	66.41	50.861	66.15	10.960	26.81	36.200	68.56
平位	s 18.747	″ 49.05	s 47.750	″ 59.36	s 7.816	″ 19.93	s 30.893	″ 49.72
sec δ, tan δ	+ 1.545	+ 1.178	+ 1.012	+ 0.155	+ 1.014	+ 0.168	+ 1.985	+ 1.715
2 回正中	11 月 10 日		11 月 11 日		11 月 11 日		11 月 12 日	
a b	+ 0.2135	+ 0.0504	+ 0.1613	+ 0.0066	+ 0.1620	+ 0.0070	+ 0.2423	+ 0.0717
a′ b′	+ 0.6427	− 0.7669	+ 0.6368	− 0.7711	+ 0.6289	− 0.7775	+ 0.6276	− 0.7786
FK3番號	120		121		123		122	

星名	σ Pers		5 Taur		x Reti		ε Erid	
等級 スペクトル型	4.55	K0	4.28	K0	4.80	F5	3.81	K0
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 3 26	° ′ +47 48	h m 3 27	° ′ +12 44	h m 3 28	° ′ −63 7	h m 3 30	° ′ − 9 38
	s	″	s	″	s	″	s	″
1 0.9	37.439	15.24	46.766	40.03	24.93	85.84	17.527	59.99
10.8	37.306 133	16.31 107	46.692 74	39.65 38	24.58 35	87.68 184	17.441 86	61.14 115
20.8	37.126 180	17.06 75	46.587 105	39.26 39	24.18 40	89.00 132	17.325 116	62.11 97
30.8	36.909 217	17.47 41	46.455 132	38.86 40	23.74 44	89.76 76	17.185 140	62.85 74
2 9.8	36.664 245	17.51 4	46.302 153	38.46 40	23.28 46	89.94 18	17.026 159	63.36 51
	262	32	165	39	47	40	170	25
19.7	36.402	17.19	46.137	38.07	22.81	89.54	16.856	63.61
29.7	36.139 263	16.52 67	45.968 169	37.70 37	22.35 46	88.58 96	16.683 173	63.62 1
3 10.7	35.888 251	15.54 98	45.805 163	37.38 32	21.90 45	87.09 149	16.516 167	63.36 26
20.7	35.662 226	14.30 124	45.659 146	37.12 26	21.49 41	85.12 197	16.364 152	62.84 52
30.6	35.476 186	12.85 145	45.537 122	36.95 17	21.13 36	82.70 242	16.237 127	62.07 77
	136	159	88	5	30	281	96	103
4 9.6	35.340 78	11.26 165	45.449 48	36.90 9	20.83	79.89	16.141 58	61.04
19.6	35.262 13	9.61 163	45.401 4	36.99 25	20.60 23	76.76 313	16.083 14	59.77 127
29.5	35.249 53	7.98 155	45.397 44	37.24 43	20.44 16	73.38 338	16.069 30	58.26 151
5 9.5	35.302 120	6.43 140	45.441 90	37.67 62	20.37 7	69.81 357	16.099 76	56.54 172
19.5	35.422 184	5.03 120	45.531 136	38.29 81	20.38 1	66.14 367	16.175 122	54.64 190
					10	369		205
29.5	35.606	3.83	45.667	39.10	20.48	62.45	16.297	52.59
6 8.4	35.849 243	2.88 95	45.846 179	40.08 98	20.66 18	58.82 363	16.459 162	50.44 215
18.4	36.143 294	2.21 67	46.062 216	41.23 115	20.93 27	55.34 348	16.660 201	48.23 221
28.4	36.481 338	1.85 36	46.309 247	42.50 127	21.26 33	52.10 324	16.892 232	46.02 221
7 8.4	36.853 372	1.79 6	46.581 272	43.88 138	21.66 40	49.18 292	17.150 258	43.87 215
	398	26	290	143	46	251	277	204
18.3	37.251	2.05	46.871	45.31	22.12	46.67	17.427	41.83
28.3	37.664 413	2.61 56	47.172 301	46.77 146	22.61 49	44.63 204	17.716 289	39.97 186
8 7.3	38.085 421	3.45 84	47.478 306	48.20 143	23.13 52	43.12 151	18.011 295	38.34 163
17.2	38.503 418	4.56 111	47.782 304	49.56 136	23.66 53	42.19 93	18.305 294	36.98 136
27.2	38.912 409	5.90 134	48.078 296	50.82 126	24.19 53	41.88 31	18.592 287	35.94 104
	395	154	284	112	52	31	274	69
9 6.2	39.307	7.44	48.362	51.94	24.71	42.19	18.866	35.25
16.2	39.680 373	9.15 171	48.630 268	52.91 97	25.19 48	43.12 93	19.125 259	34.92 33
26.1	40.027 347	11.01 186	48.878 248	53.69 78	25.63 44	44.63 151	19.363 238	34.96 4
10 6.1	40.344 317	12.97 196	49.105 227	54.30 61	26.02 39	46.67 204	19.579 216	35.34 38
16.1	40.627 283	15.01 204	49.308 203	54.72 42	26.34 32	49.17 250	19.769 190	36.05 71
	246	208	177	25	25	286	164	98
26.1	40.873	17.09	49.485	54.97 10	26.59 16	52.03	19.933	37.03
11 5.0	41.077 204	19.18 209	49.634 149	55.07 2	26.75 8	55.15 312	20.067 134	38.24 121
14.9	41.237 160	21.24 206	49.754 120	55.05 13	26.83 8	58.39 324	20.170 103	39.62 138
24.9	41.349 112	23.24 200	49.843 89	54.92 21	26.83 0	61.64 325	20.241 71	41.09 147
12 4.9	41.410 61	25.13 189	49.898 55	54.71 28	26.74 9	64.77 313	20.280 39	42.59 150
	8	172	20		17	290	4	147
14.9	41.418 46	26.85	49.918 15	54.43	26.57	67.67	20.284 31	44.06
24.9	41.372 99	28.38 153	49.903 50	54.12 31	26.33 24	70.23 256	20.253 63	45.44 138
34.9	41.273	29.65 127	49.853	53.78 34	26.02 31	72.36 213	20.190	46.68 124
平位	s 36.899	″ 13.25	s 46.634	″ 46.22	s 23.619	″ 63.85	s 17.396	″ 47.90
sec δ, tan δ	+ 1.489	+ 1.103	+ 1.025	+ 0.226	+ 2.213	− 1.974	+ 1.014	− 0.170
2 回正中	11 月 12 日		11 月 12 日		11 月 12 日		11 月 13 日	
a b	+ 0.2110	+ 0.0456	+ 0.1652	+ 0.0093	+ 0.0495	− 0.0808	+ 0.1443	− 0.0069
a′ b′	+ 0.6204	− 0.7843	+ 0.6164	− 0.7874	+ 0.6143	− 0.7891	+ 0.6078	− 0.7941
FK3番號	124		125		126		127	

星名	45 G. Horo		110 G. Erid		Grb 716 Caml		δ Pers	
等級 スペクトル型	5.60	K0	4.58	K0	5.32	M0	3.10	B5
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 3 30	° ′ −50 33	h m 3 35	° ′ −40 27	h m 3 37	° ′ +63 2	h m 3 38	° ′ +47 36
	s	″	s	″	s	″	s	″
1 0.9	55.080	84.74	5.475	45.04	17.66	18.55	56.194	38.59
10.9	54.863 212	86.64 190	5.323 152	46.91 187	17.44 22	20.30 175	56.074 120	39.73 114
20.8	54.618 250	88.06 142	5.136 187	48.36 145	17.15 29	21.67 137	55.906 168	40.57 84
30.8	54.337 281	88.97 91	4.920 216	49.35 99	16.80 35	22.58 91	55.697 209	41.09 52
2 9.8	54.034 303	89.34 37	4.683 237	49.85 50	16.41 39	23.02 44	55.457 240	41.25 16
	313	17	248	2	41	6	260	20
19.7	53.721	89.17	4.435	49.87 48	16.00	22.96	55.197	41.05
29.7	53.409 312	88.47 70	4.184 251	49.39	15.58 42	22.42 54	54.932 265	40.51 54
3 10.7	53.108 301	87.25 122	3.941 243	48.45 94	15.18 40	21.43 99	54.676 256	39.65 86
20.7	52.830 278	85.57 168	3.717 224	47.05 140	14.81 37	20.03 140	54.443 233	38.51 114
30.6	52.587 243	83.44 213	3.521 196	45.24 181	14.50 31	18.29 174	54.246 197	37.16 135
	200	251	160	219	24	200	149	151
4 9.6	52.387	80.93	3.361	43.05	14.26	16.29	54.097	35.65
19.6	52.239 148	78.08 285	3.247 114	40.53 252	14.11 15	14.12 217	54.005 92	34.06 159
29.6	52.148 91	74.95 313	3.182 65	37.72 281	14.04 7	11.87 225	53.976 29	32.46 160
5 9.5	52.120 28	71.62 333	3.170 12	34.68 304	14.07 3	9.62 225	54.013 37	30.92 154
19.5	52.155 35	68.15 347	3.214 44	31.49 319	14.20 13	7.47 215	54.117 104	29.50 142
	100	353	99	328	22	198	168	123
29.5	52.255	64.62	3.313	28.21	14.42	5.49	54.285	28.27
6 8.4	52.417 162	61.12 350	3.465 152	24.91 330	14.72 30	3.75 174	54.512 227	27.26 101
18.4	52.636 219	57.72 340	3.665 200	21.68 323	15.10 38	2.30 145	54.793 281	26.51 75
28.4	52.907 271	54.52 320	3.909 244	18.60 308	15.55 45	1.17 113	55.119 326	26.05 46
7 8.4	53.222 315	51.59 293	4.190 281	15.74 286	16.05 50	0.41 76	55.481 362	25.88 17
	352	257	311	256	55	38	391	14
18.3	53.574	49.02	4.501	13.18	16.60	0.03 1	55.872	26.02
28.3	53.953 379	46.88 214	4.832 331	11.01 217	17.17 57	0.04 1	56.280 408	26.45 43
8 7.3	54.348 395	45.23 165	5.177 345	9.27 174	17.75 58	0.43 39	56.698 418	27.15 70
17.3	54.751 403	44.13 110	5.528 351	8.03 124	18.35 60	1.20 77	57.117 419	28.11 96
27.2	55.150 399	43.60 53	5.874 346	7.33 70	18.93 58	2.32 112	57.529 412	29.31 120
	386	8	335	15	57	145	400	140
9 6.2	55.536	43.68	6.209	7.18 1	19.50	3.77	57.929	30.71
16.2	55.899 363	44.35 67	6.526 317	7.59 41	20.04 54	5.53 176	58.310 381	32.29 158
26.1	56.233 334	45.59 124	6.818 292	8.56 97	20.55 51	7.56 203	58.668 358	34.01 172
10 6.1	56.528 295	47.37 178	7.079 261	10.03 147	21.02 47	9.82 226	58.998 330	35.85 184
16.1	56.778 250	49.60 223	7.306 227	11.95 192	21.44 42	12.28 246	59.296 298	37.78 193
	201	261	187	230	36	261	262	199
26.1	56.979	52.21	7.493	14.25	21.80	14.89	59.558	39.77
11 5.0	57.126 147	55.09 288	7.638 145	16.83 258	22.10 30	17.60 271	59.780 222	41.78 201
15.0	57.218 92	58.13 304	7.739 101	19.59 276	22.33 23	20.36 276	59.959 179	43.79 201
24.9	57.252 34	61.21 308	7.793 54	22.42 283	22.49 16	23.10 274	60.089 130	45.74 195
12 4.9	57.228 24	64.22 301	7.801 8	25.22 280	22.57 8	25.77 267	60.169 80	47.62 188
	79	281	38	264	1	252	26	173
14.9	57.149	67.03	7.763 84	27.86	22.56	28.29	60.195 29	49.35
24.9	57.016 133	69.56 253	7.679 125	30.27 241	22.48 8	30.59 230	60.166 84	50.91 156
34.9	56.835 181	71.71 215	7.554	32.36 209	22.31 17	32.59 200	60.082	52.24 133
平位	s 54.367	″ 64.41	s 4.990	″ 26.53	s 16.428	″ 14.59	s 55.614	″ 37.18
sec δ, tan δ	+ 1.574	− 1.216	+ 1.314	− 0.853	+ 2.206	+ 1.966	+ 1.483	+ 1.096
2 回正中	11 月 13 日		11 月 14 日		11 月 14 日		11 月 15 日	
a b	+ 0.0888	− 0.0491	+ 0.1075	− 0.0336	+ 0.2598	+ 0.0764	+ 0.2130	+ 0.0422
a′ b′	+ 0.6056	− 0.7958	+ 0.5910	− 0.8067	+ 0.5833	− 0.8123	+ 0.5774	− 0.8165
FK3番號	128		130		129		131	

恒星視位

本初子午線正中時　　昭和19年

星名 / 等級 / スペクトル型	δ Forn 4.93 B5		δ Erid 3.72 K0		† o Pers 3.94 B1		ν Pers 3.93 F5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 3 39	° ′ −32 6	h m 3 40	° ′ −9 56	h m 3 40	° ′ +32 6	h m 3 41	° ′ +42 24
	s	″	s	″	s	″	s	″
1 0.9	61.540	75.01	33.990	78.18	48.335	43.14	23.304	12.62
10.9	61.421 119	76.80 179	33.912 78	79.38 120	48.255 80	43.61 47	23.204 100	13.56 94
20.8	61.269 152	78.22 142	33.803 109	80.38 100	48.136 119	43.91 30	23.059 145	14.23 67
30.8	61.088 181	79.24 102	33.668 135	81.16 78	47.983 153	44.01 10	22.875 184	14.62 39
2 9.8	60.886 202	79.83 59	33.512 156	81.70 54	47.804 179	43.92 9	22.661 214	14.71 9
	215	15	170	28	196	29	232	22
19.7	60.671	79.98 28	33.342	81.98 3	47.608	43.63	22.429	14.49
29.7	60.452 219	79.70 72	33.167 175	82.01 23	47.406 202	43.15 48	22.191 238	13.98 51
3 10.7	60.239 213	78.98 112	32.996 171	81.78 50	47.209 197	42.50 65	21.959 232	13.21 77
20.7	60.042 197	77.86 152	32.839 157	81.28 76	47.030 179	41.73 77	21.748 211	12.20 101
30.6	59.869 173	76.34 188	32.705 134	80.52 101	46.879 151	40.88 85	21.570 178	11.01 119
	139		105		115	90	136	130
4 9.6	59.730	74.46	32.600	79.51	46.764	39.98	21.434	9.71
19.6	59.631 99	72.26 220	32.534 66	78.24 127	46.696 68	39.10 88	21.350 84	8.35 136
29.6	59.578 53	69.77 249	32.509 25	76.74 150	46.678 18	38.28 82	21.324 26	7.01 134
5 9.5	59.575 3	67.05 272	32.529 20	75.02 172	46.714 36	37.57 71	21.359 35	5.74 127
19.5	59.622 47	64.16 289	32.594 65	73.12 190	46.803 89	37.01 56	21.455 96	4.60 114
	98	301	111	206	142	37	156	96
29.5	59.720	61.15	32.705	71.06	46.945	36.64	21.611	3.64
6 8.4	59.866 146	58.10 305	32.858 153	68.89 217	47.136 191	36.47 17	21.821 210	2.90 74
18.4	60.056 190	55.07 303	33.050 192	66.66 223	47.370 234	36.52 5	22.081 260	2.40 50
28.4	60.285 229	52.14 293	33.274 224	64.42 224	47.641 271	36.80 28	22.382 301	2.17 23
7 8.4	60.548 263	49.39 275	33.526 252	62.24 218	47.941 300	37.29 49	22.718 336	2.20 3
	289	249	272	208	323	68	361	30
18.3	60.837	46.90	33.798	60.16	48.264	37.97	23.079	2.50
28.3	61.145 308	44.73 217	34.084 286	58.25 191	48.601 337	38.84 87	23.456 377	3.06 56
8 7.3	61.465 320	42.95 178	34.378 294	56.57 168	48.945 344	39.85 101	23.843 387	3.85 79
17.3	61.789 324	41.61 134	34.673 295	55.17 140	49.290 345	40.98 113	24.230 387	4.85 100
27.2	62.109 320	40.76 85	34.963 290	54.08 109	49.629 339	42.21 123	24.612 382	6.05 120
	310	34	280	74	328	128	370	134
9 6.2	62.419	40.42 —	35.243	53.34	49.957	43.49	24.982	7.39
16.2	62.713 294	40.61 19	35.508 265	52.97 37	50.269 312	44.80 131	25.335 353	8.87 148
26.1	62.986 273	41.31 70	35.755 247	52.97 0	50.562 293	46.13 133	25.667 332	10.45 158
10 6.1	63.233 247	42.49 118	35.981 226	53.33 36	50.833 271	47.43 130	25.974 307	12.11 166
16.1	63.450 217	44.11 162	36.184 203	54.01 68	51.078 245	48.71 128	26.251 277	13.82 171
	183	198	175	98	218	123	246	173
26.1	63.633	46.09	36.359	54.99	51.296	49.94	26.497	15.55
11 5.0	63.781 148	48.36 227	36.507 148	56.19 120	51.482 186	51.13 119	26.707 210	17.29 174
15.0	63.890 109	50.82 246	36.624 117	57.57 138	51.636 154	52.25 112	26.878 171	19.00 171
24.9	63.959 69	53.37 255	36.709 85	59.06 149	51.752 116	53.29 104	27.005 127	20.66 166
12 4.9	63.987 28	55.91 254	36.760 51	60.59 153	51.829 77	54.25 96	27.087 82	22.23 157
	14	243	17	149	35	86	33	146
14.9	63.973	58.34	36.777 —	62.08	51.864 —	55.11	27.120 —	23.69
24.9	63.919 54	60.58 224	36.758 19	63.50 142	51.857 7	55.84 73	27.103 17	24.98 129
34.9	63.826 93	62.55 197	36.704 54	64.78 128	51.806 51	56.44 60	27.035 68	26.07 109
平位	s 61.162	″ 58.26	s 33.801	″ 60.25	s 48.022	″ 44.95	s 22.833	″ 12.31
sec δ, tan δ	+ 1.181	− 0.628	+ 1.015	− 0.175	+ 1.181	+ 0.628	+ 1.354	+ 0.913
2 回正中	11 月 15 日		11 月 16 日		11 月 16 日		11 月 16 日	
a b	+ 0.1190	− 0.0240	+ 0.1437	− 0.0067	+ 0.1877	+ 0.0239	+ 0.2034	+ 0.0346
a′ b′	+ 0.5735	− 0.8192	+ 0.5716	− 0.8206	+ 0.5707	− 0.8212	+ 0.5686	− 0.8226
FK3番號	133		135		132		134	

恒星視位

本初子午線正中時

星名 / 等級 / スペクトル型	17 Taur 3.81 B5p		.24 Erid 5.09 B8		β Reti 3.80 K0		η Taur 2.96 B5p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 3 41	° ′ +23 56	h m 3 41	° ′ −1 20	h m 3 43	° ′ −64 58	h m 3 44	° ′ +23 55
	s	″	s	″	s	″	s	″
1 0.9	32.920	16.16	39.836	28.09	31.08	79.14	9.273	56.93
10.9	32.850 70	16.27 11	39.768 68	29.02 93	30.71 37	81.16 202	9.204 69	57.05 12
20.8	32.744 106	16.28 1	39.668 100	29.83 81	30.29 42	82.68 152	9.100 104	57.06 1
30.8	32.606 138	16.17 11	39.540 128	30.49 66	29.82 47	83.64 96	8.963 137	56.97 9
2 9.8	32.443 163	15.95 22	39.390 150	31.01 52	29.33 49	84.02 38	8.801 162	56.76 21
	178	33	164	35	52	20	178	31
19.7	32.265	15.62	39.226	31.36	28.81	83.82	8.623	56.45
29.7	32.080 185	15.20 42	39.057 169	31.53 17	28.30 51	83.06 76	8.438 185	56.03 42
3 10.7	31.900 180	14.69 51	38.891 166	31.53 0	27.80 50	81.76 130	8.256 182	55.54 49
20.7	31.735 165	14.14 55	38.738 153	31.33 20	27.34 46	79.95 181	8.090 166	55.00 54
30.6	31.596 139	13.57 57	38.608 130	30.94 39	26.92 42	77.68 227	7.949 141	54.44 56
	106	54	101	60	36	267	107	53
4 9.6	31.490	13.03	38.507	30.34	26.56	75.01	7.842	53.91
19.6	31.427 63	12.54 49	38.444 63	29.53 81	26.28 28	71.99 302	7.776 66	53.43 48
29.6	31.411 16	12.17 37	38.423 21	28.50 103	26.07 21	68.70 329	7.758 18	53.06 37
5 9.5	31.445 34	11.93 24	38.446 23	27.28 122	25.95 12	65.19 351	7.789 31	52.81 25
19.5	31.529 84	11.85 8	38.516 70	25.87 141	25.92 3	61.56 363	7.870 81	52.73 8
	132	10	113	157	6	368	130	10
29.5	31.661	11.95	38.629	24.30	25.98	57.88	8.000	52.83
6 8.4	31.840 179	12.25 30	38.785 156	22.59 171	26.14 16	54.23 365	8.176 176	53.12 29
18.4	32.059 219	12.74 49	38.979 194	20.78 181	26.38 24	50.71 352	8.393 217	53.60 48
28.4	32.312 253	13.42 68	39.205 226	18.92 186	26.70 32	47.41 330	8.644 251	54.26 66
7 8.4	32.593 281	14.25 83	39.457 252	17.05 187	27.09 39	44.40 301	8.924 280	55.08 82
	303	99	273	183	46	262	301	96
18.3	32.896	15.24	39.730	15.22	27.55	41.78	9.225	56.04
28.3	33.211 315	16.32 108	40.016 286	13.50 172	28.05 50	39.61 217	9.540 315	57.11 107
8 7.3	33.534 323	17.49 117	40.309 293	11.92 158	28.59 54	37.96 165	9.862 322	58.27 116
17.3	33.856 322	18.71 122	40.603 294	10.55 137	29.14 55	36.89 107	10.184 322	59.46 119
27.2	34.173 317	19.93 122	40.892 289	9.41 114	29.71 57	36.43 46	10.501 317	60.66 120
	306	120	280	87	55	16	308	118
9 6.2	34.479	21.13	41.172	8.54	30.26	36.59	10.809	61.84
16.2	34.771 292	22.28 115	41.437 265	7.97 57	30.78 52	37.39 80	11.102 293	62.98 114
26.1	35.045 274	23.36 108	41.686 249	7.69 28	31.27 49	38.78 139	11.377 275	64.04 106
10 6.1	35.298 253	24.35 99	41.913 227	7.71 2	31.70 43	40.73 195	11.632 255	65.02 98
16.1	35.528 230	25.25 90	42.119 206	8.01 30	32.06 36	43.16 243	11.864 232	65.91 89
	203	81	180	55	29	282	206	79
26.1	35.731	26.06	42.299	8.56	32.35	45.98	12.070	66.70
11 5.0	35.906 175	26.77 71	42.453 154	9.31 75	32.55 20	49.09 311	12.248 178	67.40 70
15.0	36.050 144	27.39 62	42.577 124	10.22 91	32.66 11	52.36 327	12.395 147	68.01 61
24.9	36.161 111	27.93 54	42.670 93	11.24 102	32.68 2	55.67 331	12.508 113	68.54 53
12 4.9	36.235 74	28.38 45	42.730 60	12.31 107	32.61 7	58.90 323	12.586 78	68.99 45
	36	38	26	108	16	302	38	37
14.9	36.271 —	28.76	42.756 —	13.39	32.45	61.92	12.624 —	69.36
24.9	36.268 3	29.04 28	42.747 9	14.43 104	32.21 24	64.63 271	12.623 1	69.65 29
34.9	36.225 43	29.23 19	42.702 45	15.40 97	31.89 32	66.93 230	12.583 40	69.85 20
平位	s 32.680	″ 19.83	s 39.662	″ 18.31	s 29.399	″ 57.89	s 9.024	″ 60.67
sec δ, tan δ	+ 1.094	+ 0.444	+ 1.000	− 0.023	+ 2.365	− 2.143	+ 1.094	+ 0.444
2 回正中	11 月 16 日		11 月 16 日		11 月 16 日		11 月 17 日	
a b	+ 0.1777	+ 0.0168	+ 0.1520	− 0.0009	+ 0.0351	− 0.0802	+ 0.1779	+ 0.0165
a′ b′	+ 0.5680	− 0.8230	+ 0.5676	− 0.8233	+ 0.5610	− 0.8278	+ 0.5587	− 0.8294
FK3番號	136		137		141		139	

本初子午線正中時

星名	γ Caml		τ^6 Eridani		27 Taurī		138 G. Eridani	
等級	4.67		4.33		3.80		4.24	
スペクトル型	A0		F8		B8		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 3 44	° ′ +71 9	h m 3 44	° ′ −23 24	h m 3 45	° ′ +23 52	h m 3 47	° ′ −36 21
	s	″	s	″	s	″	s	″
1 0.9	26.69	49.38	26.533	65.15	49.877	57.73	21.911	84.73
10.9	26.36 33	51.50 212	26.438 95	66.80 165	49.810 67	57.85 12	21.783 128	86.66 193
20.8	25.93 43	53.19 169	26.310 128	68.14 134	49.707 103	57.87 2	21.619 164	88.19 153
30.8	25.42 51	54.40 121	26.154 156	69.15 101	49.571 136	57.78 9	21.424 195	89.30 111
2 9.8	24.85 57	55.08 68	25.977 177	69.79 64	49.409 162	57.58 20	21.207 217	89.95 65
	61	14	192	28	178	31	232	19
19.7	24.24	55.22	25.785	70.07	49.231	57.27	20.975	90.14
29.7	23.63 61	54.80 42	25.589 196	69.97 10	49.046 185	56.87 40	20.738 237	89.86 28
3 10.7	23.04 59	53.87 93	25.396 193	69.49 48	48.864 182	56.38 49	20.506 232	89.12 74
20.7	22.49 55	52.47 140	25.217 179	68.66 83	48.697 167	55.85 53	20.289 217	87.94 118
30.6	22.03 46	50.66 181	25.060 157	67.47 119	48.555 142	55.30 55	20.098 191	86.36 158
	37	213	125	151	109	53	159	197
4 9.6	21.66	48.53	24.935	65.96	48.446	54.77	19.939	84.39
19.6	21.40 26	46.17 236	24.848 87	64.14 182	48.380 66	54.30 47	19.823 116	82.08 231
29.6	21.27 13	43.66 251	24.804 44	62.06 208	48.359 21	53.93 37	19.753 70	79.48 260
5 9.5	21.27 0	41.12 254	24.806 2	59.73 233	48.389 30	53.69 24	19.734 19	76.64 284
19.5	21.40 13	38.64 248	24.857 51	57.22 251	48.468 79	53.61 8	19.767 33	73.61 303
	26	234	97	264	129	10	86	314
29.5	21.66	36.30	24.954	54.58	48.597	53.71	19.853	70.47
6 8.4	22.03 37	34.18 212	25.097 143	51.85 273	48.771 174	53.99 28	19.990 137	67.29 318
18.4	22.52 49	32.34 184	25.281 184	49.12 273	48.986 215	54.46 47	20.174 184	64.14 315
28.4	23.10 58	30.83 151	25.502 221	46.44 268	49.237 251	55.12 66	20.401 227	61.10 304
7 8.4	23.76 66	29.70 113	25.753 251	43.89 255	49.515 278	55.93 81	20.663 262	58.25 285
	72	73	276	235	300	96	291	258
18.3	24.48	28.97	26.029	41.54	49.815	56.89	20.954	55.67
28.3	25.24 76	28.66 31	26.321 292	39.45 209	50.129 314	57.95 106	21.268 314	53.43 224
8 7.3	26.03 79	28.78 12	26.624 303	37.69 176	50.450 321	59.09 114	21.595 327	51.60 183
17.3	26.84 81	29.31 53	26.930 306	36.31 138	50.773 323	60.27 118	21.929 334	50.24 136
27.2	27.64 80	30.26 95	27.232 302	35.36 95	51.090 317	61.46 119	22.261 332	49.39 85
	78	133	294	50	308	117	324	32
9 6.2	28.42	31.59	27.526	34.86 3	51.398	62.63	22.585	49.07
16.2	29.18 76	33.29 170	27.805 279	34.83 44	51.692 294	63.75 112	22.893 308	49.31 24
26.1	29.89 71	35.33 204	28.066 261	35.27 88	51.969 277	64.80 105	23.181 288	50.08 77
10 6.1	30.54 65	37.66 233	28.303 237	36.15 128	52.225 256	65.77 97	23.442 261	51.36 128
16.1	31.13 59	40.25 259	28.514 211	37.43 163	52.457 232	66.65 88	23.672 230	53.09 173
	51	280	183		208	78	195	213
26.1	31.64	43.05	28.697	39.06	52.665	67.43	23.867	55.22
11 5.0	32.06 42	46.00 295	28.847 150	40.97 191	52.844 179	68.12 69	24.024 157	57.64 242
15.0	32.38 32	49.05 305	28.964 117	43.07 210	52.993 149	68.73 61	24.140 116	60.27 263
24.9	32.59 21	52.12 307	29.044 80	45.27 220	53.109 116	69.25 52	24.213 73	62.99 272
12 4.9	32.69 10	55.14 302	29.087 43	47.50 223	53.188 79	69.69 44	24.243 30	65.71 272
	2	289	6	215	40	37	15	261
14.9	32.67	58.03	29.093	49.65	53.228	70.06	24.228	68.32
24.9	32.53 14	60.70 267	29.060 33	51.65 200	53.229 1	70.34 28	24.169 59	70.72 240
34.9	32.27 26	63.07 237	28.990 70	53.44 179	53.190 39	70.54 20	24.067 102	72.84 212
平位	s 24.589	″ 44.88	s 26.231	″ 50.33	s 49.623	″ 61.51	s 21.417	″ 67.49
sec δ, tan δ	+ 3.097	+ 2.931	+ 1.090	− 0.433	+ 1.094	+ 0.443	+ 1.242	− 0.736
2 回正中	11 月 17 日		11 月 17 日		11 月 17 日		11 月 17 日	
a b	+ 0.3155	+ 0.1090	+ 0.1294	− 0.0161	+ 0.1779	+ 0.0163	+ 0.1122	− 0.0269
a′ b′	+ 0.5577	− 0.8300	+ 0.5576	− 0.8301	+ 0.5526	− 0.8335	+ 0.5470	− 0.8371
FK3番號	138		140		142		143	

本初子午線正中時

星名	γ Hydi		ζ Pers		† 9 H. Caml		ε Pers	
等級	3.17		2.91		5.22		2.96	
スペクトル型	M0		B1		K0, A0		B1	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 3 47	° ′ −74 24	h m 3 50	° ′ +31 43	h m 3 52	° ′ +60 56	h m 3 54	° ′ +39 50
	s	″	s	″	s	″	s	″
1 0.9	68.29	61.11	36.677	6.12	21.82	52.46	5.748	59.22
10.9	67.66 63	63.10 199	36.606 71	6.61 49	21.64 18	54.25 179	5.666 82	60.10 88
20.8	66.94 72	64.58 148	36.494 112	6.94 33	21.40 24	55.68 143	5.539 127	60.76 66
30.8	66.14 80	65.48 90	36.347 147	7.09 15	21.09 31	56.70 102	5.371 168	61.18 42
2 9.8	65.31 83	65.81 33	36.172 175	7.05 4	20.74 35	57.27 57	5.173 198	61.33 15
	86	26	195	22	38	11	220	13
19.8	64.45	65.55	35.977	6.83	20.36	57.38	4.953	61.20
29.7	63.60 85	64.73 82	35.775 202	6.42 41	19.97 39	57.01 37	4.724 229	60.81 39
3 10.7	62.77 83	63.37 136	35.576 199	5.85 57	19.59 38	56.21 80	4.498 226	60.17 64
20.7	62.00 77	61.50 187	35.392 184	5.15 70	19.23 36	54.99 122	4.289 209	59.31 86
30.6	61.30 70	59.19 231	35.234 158	4.35 80	18.93 30	53.44 155	4.109 180	58.29 102
	62	271	121	84	24	183	140	114
4 9.6	60.68	56.48	35.113	3.51	18.69	51.61	3.969	57.15
19.6	60.17 51	53.43 305	35.035 78	2.68 83	18.52 17	49.59 202	3.876 93	55.95 120
29.6	59.78 39	50.11 332	35.008 27	1.89 79	18.44 8	47.47 212	3.839 37	54.76 119
5 9.5	59.53 25	46.59 352	35.033 25	1.20 69	18.44 0	45.33 214	3.859 20	53.63 113
19.5	59.40 13	42.96 363	35.112 79	0.65 55	18.54 10	43.25 208	3.938 79	52.61 102
	2	367	131	37	18	194	137	85
29.5	59.42	39.29	35.243	0.28	18.72	41.31	4.075	51.76
6 8.5	59.58 16	35.66 363	35.424 181	0.09 19	18.99 27	39.58 173	4.267 192	51.10 66
18.4	59.88 30	32.17 349	35.648 224	0.11 2	19.33 34	38.10 148	4.506 239	50.66 44
28.4	60.30 42	28.90 327	35.910 262	0.34 23	19.73 40	36.93 117	4.788 282	50.45 21
7 8.4	60.84 54	25.94 296	36.203 293	0.78 44	20.19 46	36.09 84	5.104 316	50.49 4
	64	257	317	62	50	49	343	28
18.3	61.48	23.37	36.520	1.40	20.69	35.60	5.447	50.77
28.3	62.20 72	21.26 211	36.853 333	2.19 79	21.22 53	35.47 13	5.803 361	51.28 51
8 7.3	62.99 79	19.68 158	37.194 341	3.13 94	21.77 55	35.71 24	6.179 371	52.00 72
17.3	63.81 82	18.67 101	37.537 343	4.19 106	22.33 56	36.30 59	6.554 375	52.90 90
27.2	64.66 85	18.27 40	37.876 339	5.32 113	22.89 56	37.23 93	6.927 373	53.97 107
	83	23	330	120	54	125	361	120
9 6.2	65.49	18.50	38.206	6.52	23.43	38.48	7.288	55.17
16.2	66.28 79	19.36 86	38.522 316	7.75 123	23.96 53	40.02 154	7.637 349	56.49 132
26.2	67.02 74	20.81 145	38.821 299	8.98 123	24.45 49	41.83 181	7.967 330	57.89 140
10 6.1	67.67 65	22.82 201	39.099 278	10.20 122	24.91 46	43.88 205	8.275 308	59.35 146
16.1	68.21 54	25.30 248	39.352 253	11.39 119	25.33 42	46.12 224	8.557 282	60.85 150
	42	286	227	116	37	241	252	153
26.1	68.63	28.16	39.579	12.55	25.70	48.53	8.809	62.38
11 5.0	68.91 28	31.31 315	39.776 197	13.66 111	26.02 32	51.06 253	9.028 219	63.90 152
15.0	69.05 14	34.60 329	39.941 165	14.72 106	26.27 25	53.65 259	9.211 183	65.42 152
24.9	69.03 2	37.93 333	40.068 127	15.72 100	26.46 19	56.26 261	9.353 142	66.89 147
12 4.9	68.87 16	41.17 324	40.157 89	16.64 92	26.57 11	58.82 256	9.451 98	68.30 141
	31	301	46	84	3	245	50	132
14.9	68.56	44.18	40.203	17.48	26.60	61.27	9.501	69.62
24.9	68.11 45	46.87 269	40.206 3	18.21 73	26.55 5	63.53 226	9.502 1	70.81 119
34.9	67.54 57	49.14 227	40.165 41	18.81 60	26.43 12	65.54 201	9.454 48	71.83 102
平位	s 65.057	″ 39.59	s 36.337	″ 8.30	s 20.657	″ 49.59	s 5.283	″ 59.89
sec δ, tan δ	+ 3.721	− 3.584	+ 1.176	+ 0.618	+ 2.059	+ 1.800	+ 1.303	+ 0.835
2 回正中	11 月 18 日		11 月 18 日		11 月 19 日		11 月 19 日	
a b	− 0.0471	− 0.1301	+ 0.1881	+ 0.0220	+ 0.2552	+ 0.0634	+ 0.2008	+ 0.0291
a′ b′	+ 0.5443	− 0.8389	+ 0.5351	− 0.8448	+ 0.5287	− 0.8488	+ 0.5222	− 0.8528
FK3番號	146		144		145		147	

星名	ξ Pers		γ Erid		λ Taur		ν Taur	
等級	4.05		3.19		3.8—4.1		3.94	
スペクトル型	Oe 5		K 5		B 3		A 0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
	3 55	+35 37	3 55	−13 39	3 57	+12 19	4 0	+ 5 49
月 日	s	″	s	″	s	″	s	″
1 0.9	19.874 73	52.71 69	25.168 72	72.05 141	34.676 54	54.29 38	10.673 53	59.45 67
10.9	19.801 116	53.40 51	25.096 105	73.46 119	34.622 90	53.91 38	10.620 88	58.78 60
20.8	19.685 154	53.91 30	24.991 134	74.65 93	34.532 121	53.53 36	10.532 120	58.18 53
30.8	19.531 184	54.21 7	24.857 158	75.58 66	34.411 147	53.17 35	10.412 144	57.65 45
2 9.8	19.347 205	54.28 16	24.699 175	76.24 37	34.264 166	52.82 32	10.268 163	57.20 35
19.8	19.142 214	54.12 38	24.524 181	76.61 8	34.098 173	52.50 30	10.105 172	56.85 25
29.7	18.928 211	53.74 58	24.343 181	76.69 22	33.925 173	52.20 24	9.933 171	56.60 14
3 10.7	18.717 197	53.16 76	24.162 169	76.47 52	33.752 162	51.96 19	9.762 161	56.46 1
20.7	18.520 169	52.40 89	23.993 148	75.95 81	33.590 140	51.77 11	9.601 140	56.45 12
30.6	18.351 133	51.51 97	23.845 119	75.14 108	33.450 111	51.66 1	9.461 112	56.57 26
4 9.6	18.218 86	50.54 100	23.726 85	74.06 136	33.339 73	51.65 11	9.349 76	56.83
19.6	18.132 35	49.54 98	23.641 42	72.70 161	33.266 31	51.76 26	9.273 34	57.27 44
29.6	18.097 19	48.56 91	23.599 1	71.09 184	33.235 15	52.02 42	9.239 10	57.87 60
5 9.5	18.116 76	47.65 78	23.600 48	69.25 202	33.250 62	52.44 58	9.249 56	58.66 79
19.5	18.192 131	46.87 61	23.648 93	67.23 219	33.312 108	53.02 76	9.305 101	59.61 95 113
29.5	18.323 182	46.26 43	23.741 137	65.04 230	33.420 152	53.78 91	9.406 145	60.74
6 8.5	18.505 228	45.83 22	23.878 176	62.74 235	33.572 191	54.69 106	9.551 183	62.01 127
18.4	18.733 268	45.61 0	24.054 212	60.39 235	33.763 226	55.75 117	9.734 217	63.41 140
28.4	19.001 301	45.61 22	24.266 241	58.04 235	33.989 253	56.92 127	9.951 246	64.90 149
7 8.4	19.302 326	45.83 44	24.507 264	55.76 228 216	34.242 276	58.19 132	10.197 267	66.44 154 154
18.3	19.628 344	46.27 63	24.771 281	53.60 198	34.518 290	59.51 134	10.464 283	67.98
28.3	19.972 354	46.90 81	25.052 291	51.62 172	34.808 300	60.85 130	10.747 292	69.49 151
8 7.3	20.326 357	47.71 95	25.343 295	49.90 143	35.108 302	62.15 124	11.039 296	70.92 143
17.3	20.683 353	48.66 108	25.638 292	48.47 107	35.410 299	63.39 114	11.335 293	72.22 130
27.2	21.036 345	49.74 117	25.930 286	47.40 70	35.709 292	64.53 100	11.628 287	73.35 113 93
9 6.2	21.381 332	50.91 125	26.216 274	46.70 30	36.001 280	65.53 83	11.915 275	74.28
16.2	21.713 315	52.16 129	26.490 257	46.40 11	36.281 266	66.36 66	12.190 261	74.98 70
26.2	22.028 293	53.45 132	26.747 238	46.51 49	36.547 247	67.02 48	12.451 243	75.44 46
10 6.1	22.321 269	54.77 132	26.985 216	47.00 85	36.794 227	67.50 29	12.694 223	75.67 23
16.1	22.590 241	56.09 132	27.201 190	47.85 117	37.021 204	67.79 13	12.917 200	75.67 0 22
26.1	22.831 211	57.41 130	27.391 162	49.02 143	37.225 177	67.92 2	13.117 175	75.45
11 5.0	23.042 176	58.71 127	27.553 131	50.45 162	37.402 150	67.90 13	13.292 147	75.06 39
15.0	23.218 138	59.98 122	27.684 99	52.07 175	37.552 118	67.77 23	13.439 117	74.53 53
24.9	23.356 96	61.20 115	27.783 64	53.82 178	37.670 85	67.54 30	13.556 83	73.89 64
12 4.9	23.452 53	62.35 107	27.847 28	55.60 176	37.755 48	67.24 33	13.639 47	73.20 69 73
14.9	23.505	63.42	27.875 9	57.36 166	37.803 11	66.91 36	13.686 11	72.47
24.9	23.510 5	64.38 96	27.866 47	59.02 150	37.814 27	66.55 37	13.697 27	71.76 71
34.9	23.470 40	65.19 81	27.819	60.52	37.787	66.18	13.670	71.07 69
平位	s 19.471	″ 54.25	s 24.889	″ 59.61	s 34.437	″ 60.88	s 10.433	″ 67.52
sec δ, tan δ	+ 1.230	+ 0.717	+ 1.029	− 0.243	+ 1.024	+ 0.219	+ 1.005	+ 0.102
2 回正中	11 月 19 日		11 月 19 日		11 月 20 日		11 月 21 日	
a b	+ 0.1942	+ 0.0247	+ 0.1395	− 0.0084	+ 0.1659	+ 0.0074	+ 0.1592	+ 0.0034
a′ b′	+ 0.5176	− 0.8556	+ 0.5172	− 0.8559	− 0.5091	− 0.8607	+ 0.4993	− 0.8664
FK3番號	148		149		150		151	

星名	174 G. Erid		48 Pers		o^1 Erid		α Haro	
等級	5.57		4.03		4.14		3.83	
スペクトル型	A 5		B 3 p		F 2		K 0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
	4 3	−27 47	4 4	+47 33	4 9	− 6 58	4 12	−42 25
月 日	s	″	s	″	s	″	s	″
1 0.9	19.315 91	88.87 186	35.837 90	54.28 129	8.073 55	66.76 122	9.437 133	70.26 224
10.9	19.224 128	90.73 154	35.747 144	55.57 103	8.013 90	67.98 105	9.304 176	72.50 185
20.8	19.096 160	92.27 118	35.603 192	56.60 74	7.928 122	69.03 85	9.128 213	74.35 140
30.8	18.936 185	93.45 79	35.411 229	57.34 41	7.806 148	69.88 64	8.915 242	75.75 91
2 9.8	18.751 203	94.24 38	35.182 255	57.75 6	7.658 166	70.52 41	8.673 262	76.66 42
19.8	18.548 211	94.62 3	34.927 267	57.81 28	7.492 177	70.93 18	8.411 272	77.08 9
29.7	18.337 210	94.59 44	34.660 266	57.53 61	7.315 178	71.11 6	8.139 272	76.99 58
3 10.7	18.127 199	94.15 83	34.394 266	56.92 90	7.137 169	71.05 30	7.867 272	76.41 106
20.7	17.928 178	93.32 122	34.145 249	56.02 115	6.968 150	70.75 54	7.608 259	75.35 151
30.7	17.750 149	92.10 158	33.928 217 175	54.87 134	6.818 123	70.21 78	7.371 237 204	73.84 193
4 9.6	17.601 111	90.52 190	33.753 122	53.53 147	6.695 89	69.43 102	7.167 163	71.91 230
19.6	17.490 69	88.62 221	33.631 61	52.06 152	6.606 49	68.41 125	7.004 115	69.61 264
29.6	17.421 22	86.41 245	33.570 3	50.54 152	6.557 6	67.16 146	6.889 63	66.97 290
5 9.5	17.399 26	83.96 265	33.573 70	49.02 152	6.551 40	65.70 165	6.826 8	64.07 312
19.5	17.425 75	81.31 280	33.643 135	47.58 144 131	6.591 84	64.05 182	6.818 49	60.95 326
29.5	17.500 123	78.51 289	33.778 196	46.27 112	6.675 128	62.23 194	6.867 105	57.69 332
6 8.5	17.623 166	75.62 290	33.974 252	45.15 91	6.803 167	60.29 203	6.972 157	54.37 331
18.4	17.789 206	72.72 285	34.226 301	44.24 66	6.970 203	58.26 206	7.129 205	51.06 322
28.4	17.995 240	69.87 272	34.527 342	43.58 40	7.173 231	56.20 205	7.334 248	47.84 303
7 8.4	18.235 268	67.15 251	34.869 373	43.18 12	7.404 256	54.15 196	7.582 285	44.81 277
18.4	18.503 288	64.64 223	35.242 397	43.06 15	7.660 274	52.19 184	7.867 313	42.04 243
28.3	18.791 303	62.41 189	35.639 412	43.21 41	7.934 285	50.35 165	8.180 335	39.61 201
8 7.3	19.094 311	60.52 149	36.051 419	43.62 66	8.219 290	48.70 140	8.515 348	37.60 153
17.3	19.405 310	59.03 103	36.470 417	44.28 89	8.509 289	47.30 113	8.863 352	36.07 100
27.2	19.715 305	58.00 55	36.887 411	45.17 110	8.798 285	46.17 80	9.215 350	35.07 43
9 6.2	20.020 294	57.45 5	37.298 397	46.27 129	9.083 275	45.37 45	9.565 340	34.64 16
16.2	20.314 278	57.40 45	37.695 379	47.56 145	9.358 262	44.92 11	9.905 321	34.80 73
26.2	20.592 257	57.85 94	38.074 356	49.01 158	9.620 244	44.81 24	10.226 297	35.53 129
10 6.1	20.849 231	58.79 138	38.430 328	50.59 170	9.864 225	45.05 57	10.523 267	36.82 179
16.1	21.080 203	60.17 176	38.758 296	52.29 178	10.089 202	45.62 85	10.790 231	38.61 223
26.1	21.283 171	61.93 207	39.054 258	54.07 185	10.291 176	46.47 110	11.021 191	40.84 257
11 5.1	21.454 136	64.00 229	39.312 217	55.92 188	10.467 148	47.57 128	11.212 147	43.41 283
15.0	21.590 98	66.29 242	39.529 170	57.80 188	10.615 116	48.85 141	11.359 99	46.24 297
25.0	21.688 58	68.71 246	39.699 119	59.68 184	10.731 83	50.26 146	11.458 49	49.21 299
12 4.9	21.746 18	71.17 239	39.818 64	61.52 176	10.814 46	51.72 146	11.507 1	52.20 299 291
14.9	21.764 24	73.56 225	39.882 6	63.28 163	10.860 9	53.18 140	11.506	55.11
24.9	21.740 64	75.81 202	39.888 52	64.91 144	10.869 29	54.58 129	11.453 53	57.84 273
34.9	21.676	77.83	39.836	66.35	10.840	55.87	11.352 101	60.27 243
平位	s 18.861	″ 73.84	s 35.178	″ 54.02	s 7.773	″ 56.00	s 8.638	″ 53.32
sec δ, tan δ	+ 1.131	− 0.527	+ 1.482	+ 1.094	+ 1.007	− 0.122	+ 1.355	− 0.914
2 回正中	11 月 21 日		11 月 22 日		11 月 23 日		11 月 24 日	
a b	+ 0.1226	− 0.0171	+ 0.2172	+ 0.0352	+ 0.1461	− 0.0038	+ 0.0990	− 0.0276
a′ b′	+ 0.4874	− 0.8732	+ 0.4826	− 0.8759	+ 0.4651	− 0.8853	+ 0.4534	− 0.8913
FK3番號	153		152		154		155	

本初子午線正中時

星名		α Reti		γ Dora		† 41 υ⁴ Erid *m*		γ Taur	
等級	スペクトル型	3.36	G5	4.36	F5	3.59	B9	3.86	K0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 4 13	° ′ −62 36	h m 4 14	° ′ −51 37	h m 4 15	° ′ −33 55	h m 4 16	° ′ +15 29
		s	″	s	″	s	″	s	″
1	0.9	43.74	67.97	34.555 181	55.26	47.032	77.71	36.473	32.28
	10.9	43.45 29	70.35 238	34.374	57.62 236	46.933 99	79.81 210	36.434 39	32.05 23
	20.9	43.10 35	72.27 192	34.142 232	59.55 193	46.794 139	81.57 176	36.356 78	31.81 24
	30.8	42.69 41	73.68 141	33.869 273	60.99 144	46.620 174	82.93 136	36.242 114	31.57 24
2	9.8	42.24 45	74.52 84	33.563 306	61.91 92	46.417 203	83.85 92	36.099 143	31.33 24
		47	28	328	38	223	49	165	26
	19.8	41.77 48	74.80 —	33.235	62.29 —	46.194	84.34 2	35.934	31.07
	29.7	41.29 48	74.51 29	32.896 339	62.12 17	45.961 233	84.36 2	35.756 178	30.82 25
3	10.7	40.81 48	73.67 84	32.559 337	61.43 69	45.727 234	83.94 42	35.577 179	30.58 24
	20.7	40.36 45	72.31 136	32.236 323	60.23 120	45.502 225	83.07 87	35.406 171	30.36 22
	30.7	39.93 43	70.45 186	31.940 296	58.55 168	45.298 204	81.79 128	35.253 153	30.18 18
		37	230	260	212	175	167	124	11
4	9.6	39.56 31	68.15 269	31.680 213	56.43 251	45.123 138	80.12 203	35.129 89	30.07
	19.6	39.25 25	65.46 303	31.467 158	53.92 285	44.985 94	78.09 235	35.040 46	30.04 3
	29.6	39.00 16	62.43 330	31.309 99	51.07 313	44.891 47	75.74 263	34.994 2	30.13 9
5	9.6	38.84 9	59.13 349	31.210 35	47.94 333	44.844 4	73.11 283	34.992 46	30.35 22
	19.5	38.75 0	55.64 360	31.175 30	44.61 347	44.848 55	70.28 300	35.038 93	30.72 37 52
	29.5	38.75 —	52.04 364	31.205	41.14 352	44.903	67.28 308	35.131 137	31.24 67
6	8.5	38.84 9	48.40 357	31.300 95	37.62 349	45.008 105	64.20 309	35.268 179	31.91 81
	18.4	39.01 17	44.83 344	31.457 157	34.13 337	45.160 152	61.11 303	35.447 214	32.72 94
	28.4	39.25 24	41.39 319	31.672 215	30.76 317	45.356 196	58.08 289	35.661 245	33.66 104
7	8.4	39.57 32 38	38.20 288	31.938 266 312	27.59 287	45.589 233 266	55.19 266	35.906 269	34.70 111
	18.4	39.95 44	35.32 247	32.250	24.72 250	45.855	52.53 237	36.175 287	35.81 114
	28.3	40.39 47	32.85 198	32.599 349	22.22 204	46.145 290	50.16 200	36.462 298	36.95 115
8	7.3	40.86 50	30.87 145	32.975 376	20.18 153	46.454 309	48.16 156	36.760 304	38.10 110
	17.3	41.36 52	29.42 85	33.370 395	18.65 96	46.774 320	46.60 108	37.064 304	39.20 104
	27.3	41.88 52	28.57 22	33.773 403 402	17.69 36	47.097 323 320	45.52 56	37.368 300	40.24 93
	6.2	42.40	28.35 41	34.175	17.33 25	47.417	44.96 2	37.668	41.17 80
9	16.2	42.90 50	28.76 104	34.566 391	17.58 87	47.729 312	44.94 53	37.959 291	41.97 65
	26.2	43.38 48	29.80 163	34.937 371	18.45 145	48.025 296	45.47 105	38.237 278	42.62 51
10	6.1	43.81 43	31.43 216	35.278 341	19.90 197	48.301 276	46.52 153	38.501 264	43.13 35
	16.1	44.20 39 32	33.59 262	35.583 305 261	21.87 243	48.551 250 220	48.05 195	38.745 244 224	43.48 21
	26.1	44.52	36.21 297	35.844	24.30	48.771	50.00 229	38.969	43.69 9
11	5.1	44.77 25	39.18 322	36.055 211	27.09 279	48.958 187	52.29 254	39.168 199	43.78 1
	15.0	44.94 17	42.40 334	36.211 156	30.14 305	49.106 148	54.83 268	39.340 172	43.77 9
	25.0	45.03 9	45.74 334	36.308 97	33.32 318	49.214 108	57.51 268	39.481 141	43.68 15
12	4.9	45.03 0 9	49.08 334 321	36.343 35 26	36.52 320 310	49.279 65 20	60.24 273 268	39.587 106 69	43.53 18
	14.9	44.94	52.29	36.317	39.62 289	49.299 —	62.92	39.656	43.35
	24.9	44.78 16	55.26 297	36.230 87	42.51 289	49.274 25	65.43 251	39.686 30	43.15 20
	34.9	44.53 25	57.89 263	36.085 145	45.09 258	49.204 70	67.71 228	39.675 11	42.93 22
平位		s 41.886	″ 48.97	s 33.406	″ 37.33	s 46.409	″ 62.20	s 36.167	″ 38.38
sec δ, tan δ		+ 2.174	− 1.930	+ 1.611	− 1.263	+ 1.205	− 0.673	+ 1.038	+ 0.277
2 回正中		11 月 24 日		11 月 24 日		11 月 25 日		11 月 25 日	
a	b	+ 0.0382	− 0.0576	+ 0.0779	− 0.0374	+ 0.1130	− 0.0197	+ 0.1700	+ 0.0081
a′	b′	+ 0.4474	− 0.8944	+ 0.4440	− 0.8960	+ 0.4393	− 0.8984	+ 0.4360	− 0.8999
FK3番號		156		157		160		159	

本初子午線正中時

星名		54 Pers		212 G. Erid		δ Taur		η Reti	
等級	スペクトル型	5.10	G5	5.31	A0	3.93	K0	5.18	K0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 4 16	° ′ +34 25	h m 4 18	° ′ −20 46	h m 4 19	° ′ +17 24	h m 4 21	° ′ −63 30
		s	″	s	″	s	″	s	″
1	0.9	46.537	57.46	12.788	32.35	42.409	40.32	18.70	86.79
	10.9	46.486 51	58.17 71	12.721 67	34.11 176	42.372 37	40.19 13	18.41 29	89.26 247
	20.9	46.389 97	58.73 56	12.617 104	35.60 149	42.295 77	40.03 16	18.04 37	91.27 201
	30.8	46.251 138	59.12 39	12.479 138	36.78 118	42.181 114	39.86 17	17.63 41	92.76 149
2	9.8	46.078 173 197	59.31 19 1	12.314 165 185	37.63 85 50	42.038 143 166	39.66 20 22	17.17 46 49	93.70 94 38
	19.8	45.881	59.30	12.129	38.13 14	41.872	39.44	16.68	94.03 18
	29.7	45.669 212	59.03 22	11.932 197	38.27 22	41.693 179	39.20 24	16.18 50	93.90
3	10.7	45.456 213	58.67 41	11.733 199	38.05	41.511 182	38.95 25	15.68 50	93.15 75
	20.7	45.253 203	58.09 58	11.543 190	37.49 56	41.337 174	38.70 25	15.20 48	91.88 127
	30.7	45.073 180 147	57.37 72 83	11.370 173 146	36.57 92 125	41.182 155 128	38.47 23 18	14.75 45 40	90.11 177 223
4	9.6	44.926	56.54	11.224	35.32	41.054	38.29	14.35	87.88
	19.6	44.821 105	55.67 87	11.112 112	33.77 155	40.963 91	38.18 11	14.01 34	85.26 262
	29.6	44.765 56	54.80 87	11.040 72	31.93 184	40.913 50	38.17 1	13.74 27	82.28 298
5	9.6	44.762 3	53.98 82	11.012 28	29.85 208	40.909 4	38.28 11	13.55 19	79.03 325
	19.5	44.814 52 106	53.25 73 61	11.031 19 65	27.55 230 247	40.953 44 91	38.53 25 40	13.45 10 2	75.57 346 359
	29.5	44.920	52.64	11.096	25.08	41.044	38.93	13.43 —	71.98
6	8.5	45.078 158	52.20 44	11.207 111	22.51 257	41.181 137	39.48 55	13.50 7	68.35 363
	18.4	45.283 205	51.94 26	11.360 153	19.88 263	41.358 177	40.17 69	13.65 15	64.75 360
	28.4	45.529 246	51.87 7	11.551 191	17.27 261	41.573 215	40.99 82	13.89 24	61.29 346
7	8.4	45.810 281 310	51.99 12 31	11.775 224 252	14.74 253 238	41.818 245 270	41.92 93 102	14.20 31 37	58.05 324 292
	18.4	46.120	52.30	12.027	12.36	42.088	42.94	14.57	55.13
	28.3	46.450 330	52.78 48	12.300 273	10.20 216	42.376 288	44.00 106	15.01 44	52.59 254
8	7.3	46.793 343	53.42 64	12.587 287	8.34 186	42.676 300	45.08 108	15.49 48	50.53 206
	17.3	47.143 350	54.20 78	12.883 296	6.81 153	42.983 307	46.14 106	16.00 51	49.01 152
	27.3	47.494 351 346	55.08 88 97	13.181 298 295	5.68 113 70	43.290 307 303	47.15 101 91	16.52 52 54	48.08 93 31
	6.2	47.840	56.05	13.476	4.98	43.593	48.06	17.06	47.77 —
9	16.2	48.176 336	57.08 103	13.763 287	4.74 24	43.887 294	48.87 81	17.58 52	48.09 32
	26.2	48.499 323	58.15 107	14.037 274	4.97 23	44.170 283	49.56 69	18.07 49	49.06 97
10	6.1	48.805 306	59.25 110	14.294 257	5.64 67	44.438 268	50.11 55	18.53 46	50.62 156
	16.1	49.089 284 260	60.36 111 111	14.529 235 211	6.73 109 146	44.688 250 228	50.53 42 29	18.93 40 35	52.72 210 258
	26.1	49.349	61.47	14.740	8.19	44.916	50.82	19.28	55.30
11	5.1	49.581 232	62.58 111	14.923 183	9.95 176	45.121 205	51.00 18	19.55 27	58.25 295
	15.0	49.781 200	63.68 110	15.075 152	11.94 199	45.298 177	51.09 9	19.73 18	61.46 321
	25.0	49.943 162	64.75 107	15.192 117	14.08 214	45.443 145	51.10 1	19.84 11	64.81 335
12	4.9	50.066 123 77	65.79 104 99	15.272 80 42	16.28 220 216	45.554 111 74	51.07 3 7	19.85 1 8	68.17 336 325
	14.9	50.143	66.78	15.314	18.44	45.628	51.00	19.77	71.42
	24.9	50.174 31	67.69 91	15.315 1	20.50 206	45.661 33	50.91 9	19.61 16	74.45 303
	34.9	50.156 18	68.49 80	15.276 39	22.38 188	45.652 9	50.80 11	19.37 24	77.15 270
平位		s 46.091	″ 59.93	s 12.347	″ 19.15	s 42.088	″ 46.08	s 16.663	″ 68.30
sec δ, tan δ		+ 1.212	+ 0.686	+ 1.070	− 0.379	+ 1.048	+ 0.314	+ 2.243	− 2.007
2 回正中		11 月 25 日		11 月 25 日		11 月 26 日		11 月 26 日	
a	b	+ 0.1945	+ 0.0199	+ 0.1305	− 0.0109	+ 0.1723	+ 0.0089	+ 0.0317	− 0.0559
a′	b′	+ 0.4354	− 0.9003	+ 0.4297	− 0.9030	+ 0.4238	− 0.9058	+ 0.4176	− 0.9087
FK3番號		158		161		162		163	

星名 等級 スペクトル型	δ Mens 5.62 K0p		ε Taur 3.63 K0		1 Caml *sq* 5.86 B1		δ Cael 5.16 B3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 4 21	° ′ −80 20	h m 4 25	° ′ +19 3	h m 4 27	° ′ +53 47	h m 4 29	° ′ −45 4
	s	″	s	″	s	″	s	″
1 0.9	49.57	68.08	20.907	22.93	35.957	28.99	8.076	39.09
10.9	48.61 96	70.39 231	20.874 33	22.87 6	35.875 82	30.68 169	7.946 130	41.51 242
20.9	47.47 114	72.24 185	20.800 74	22.80 7	35.727 148	32.13 145	7.769 177	43.55 204
30.8	46.19 128	73.56 132	20.689 111	22.69 11	35.521 206	33.26 113	7.550 219	45.14 159
2 9.8	44.83 136	74.33 77	20.546 143	22.55 14	35.266 255	34.05 79	7.297 253	46.25 111
	143	20	166	18	291	40	277	60
19.8	43.40	74.53	20.380	22.37	34.975	34.45	7.020	46.85
29.8	41.95 145	74.18 35	20.199 181	22.15 22	34.664 311	34.45 0	6.729 291	46.93 8
3 10.7	40.52 143	73.28 90	20.014 185	21.90 25	34.349 315	34.07 38	6.436 293	46.51 42
20.7	39.14 138	71.87 141	19.837 177	21.64 26	34.047 302	33.32 75	6.152 284	45.59 92
30.7	37.86 128	69.99 188	19.677 160	21.38 26	33.775 272	32.24 108	5.889 263	44.20 139
	117	232	132	23	230	135	233	183
4 9.6	36.69	67.67	19.545	21.15	33.545	30.89	5.656	42.37
19.6	35.67 102	64.99 268	19.448 97	20.98 17	33.373 172	29.34 155	5.463 193	40.14 223
29.6	34.83 84	61.98 301	19.394 54	20.89 9	33.265 108	27.65 169	5.318 145	37.56 258
5 9.6	34.17 66	58.72 326	19.385 9	20.91 2	33.228 37	25.89 176	5.225 93	34.68 288
19.5	33.72 45	55.29 343	19.424 39	21.05 14	33.266 38	24.14 175	5.189 36	31.57 311
	23	354	87	29	111	167	22	328
29.5	33.49	51.75	19.511	21.34	33.377	22.47	5.211	28.29
6 8.5	33.49 0	48.20 355	19.643 132	21.77 43	33.558 181	20.93 154	5.290 79	24.93 336
18.5	33.70 21	44.71 349	19.818 175	22.35 58	33.805 247	19.57 136	5.425 135	21.55 338
28.4	34.13 43	41.37 334	20.030 212	23.06 71	34.111 306	18.44 113	5.612 187	18.25 330
7 8.4	34.77 64	38.27 310	20.273 243	23.88 82	34.466 355	17.56 88	5.846 234	15.11 314
	82	277	269	92	397	60	274	289
18.4	35.59	35.50	20.542	24.80	34.863	16.96	6.120	12.22
28.3	36.57 98	33.14 236	20.830 288	25.77 97	35.292 429	16.64 32	6.428 308	9.67 255
8 7.3	37.69 112	31.25 189	21.131 301	26.77 100	35.744 452	16.61 3	6.762 334	7.52 215
17.3	38.91 122	29.90 135	21.440 309	27.77 100	36.211 467	16.87 26	7.114 352	5.85 167
27.3	40.19 128	29.14 76	21.749 309	28.73 96	36.682 471	17.40 53	7.475 361	4.72 113
	131	15	307	88	469	80	362	57
9 6.2	41.50	28.99	22.056	29.61	37.151	18.20	7.837	4.15
16.2	42.78 128	29.47 48	22.355 299	30.41 80	37.612 461	19.24 104	8.193 356	4.19 4
26.2	44.00 122	30.56 109	22.643 288	31.10 69	38.058 446	20.51 127	8.534 341	4.82 63
10 6.2	45.11 111	32.24 168	22.917 274	31.67 57	38.482 424	21.99 148	8.853 319	6.03 121
16.1	46.08 97	34.43 219	23.173 256	32.13 46	38.878 396	23.64 165	9.143 290	7.77 174
	79	264	235	34	363	182	256	221
26.1	46.87	37.07	23.408	32.47	39.241	25.46	9.399	9.98
11 5.1	47.44 57	40.05 298	23.620 212	32.71 24	39.565 324	27.41 195	9.614 215	12.57 259
15.0	47.79 35	43.26 321	23.805 185	32.88 17	39.843 278	29.46 205	9.783 169	15.44 287
25.0	47.88 9	46.58 332	23.958 153	32.98 10	40.067 224	31.58 212	9.903 120	18.50 306
12 4.9	47.73 15	49.88 330	24.076 118	33.03 5	40.233 166	33.71 213	9.970 67	21.60 310
	40	316	80	2	102	209	13	305
14.9	47.33	53.04	24.156	33.05	40.335	35.80	9.983	24.65
24.9	46.69 64	55.96 292	24.195 39	33.05 0	40.369 34	37.80 200	9.941 42	27.53 288
34.9	45.84 85	58.52 256	24.192 3	33.03 2	40.334 35	39.65 185	9.845 96	30.15 262
平位	s 42.707	″ 48.97	s 20.564	″ 28.44	s 35.041	″ 28.91	s 7.080	″ 22.84
sec δ, tan δ	+ 5.964	− 5.879	+ 1.058	+ 0.345	+ 1.693	+ 1.366	+ 1.416	− 1.003
2 回正中	11 月 26 日		11 月 27 日		11 月 28 日		11 月 28 日	
a b	− 0.2031	− 0.1630	+ 0.1744	+ 0.0092	+ 0.2371	+ 0.0357	+ 0.0917	− 0.0258
a′ b′	+ 0.4158	− 0.9094	+ 0.4014	− 0.9159	+ 0.3924	− 0.9198	+ 0.3862	− 0.9224
FK3番號	166		164		165		167	

星名 等級 スペクトル型	α Taur 1.06 K5		α Dora 3.47 A0p		υ° Erid 3.88 K0		ν Erid 4.12 B2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 4 32	° ′ +16 23	h m 4 32	° ′ −55 9	h m 4 33	° ′ −30 40	h m 4 33	° ′ − 3 27
	s	″	s	″	s	″	s	″
1 0.9	42.597	47.91	48.493	53.19	22.959	47.27	31.485	65.50
10.9	42.570 27	47.72 19	48.305 188	55.76 257	22.882 77	49.42 215	31.451 34	66.65 115
20.9	42.502 68	47.53 19	48.060 245	57.91 215	22.765 117	51.26 184	31.378 73	67.65 100
30.8	42.397 105	47.34 19	47.765 295	59.58 167	22.609 156	52.73 147	31.270 108	68.49 84
2 9.8	42.259 138	47.15 20	47.430 335	60.73 115	22.423 186	53.79 106	31.132 138	69.14 65
	163		362	61	210	65	161	45
19.8	42.096	46.95	47.068	61.34	22.213	54.44	30.971	69.59
29.8	41.919 177	46.75 20	46.690 378	61.39 5	21.990 223	54.65 21	30.796 175	69.85 26
3 10.7	41.736 183	46.54 21	46.310 380	60.91 48	21.762 228	54.43 22	30.616 180	69.90 5
20.7	41.558 178	46.34 20	45.941 369	59.89 102	21.541 221	53.78 65	30.441 175	69.73 17
30.7	41.397 161	46.17 17	45.596 345	58.38 151	21.336 205	52.73 105	30.281 160	69.36 37
	135	12	310	197	179	144	137	59
4 9.6	41.262	46.05	45.286	56.41	21.157	51.29	30.144	68.77
19.6	41.161 101	46.00 5	45.024 262	54.02 239	21.012 145	49.48 181	30.040 104	67.97 80
29.6	41.101 60	46.05 5	44.817 207	51.27 275	20.908 104	47.35 213	29.974 66	66.96 101
5 9.6	41.085 16	46.20 15	44.672 145	48.21 306	20.849 59	44.94 241	29.949 25	65.75 121
19.5	41.116 31	46.49 29	44.594 78	44.92 329	20.839 10	42.30 264	29.969 20	64.35 140
	78	42	9	346	38	282	64	156
29.5	41.194	46.91	44.585	41.46	20.877	39.48	30.033	62.79
6 8.5	41.318 124	47.48 57	44.646 61	37.92 354	20.965 88	36.55 293	30.140 107	61.09 170
18.5	41.483 165	48.18 70	44.775 129	34.38 354	21.099 134	33.57 298	30.288 148	59.30 179
28.4	41.685 202	48.99 81	44.968 193	30.94 344	21.275 176	30.62 295	30.472 184	57.44 186
7 8.4	41.919 234	49.91 92	45.221 253	27.68 326	21.490 215	27.78 284	30.688 216	55.58 186
	261	99	304	299	247	266	241	181
18.4	42.180	50.90	45.525	24.69	21.737	25.12	30.929	53.77
28.3	42.460 280	51.93 103	45.875 350	22.06 263	22.010 273	22.73 239	31.191 262	52.06 171
8 7.3	42.753 293	52.96 103	46.259 384	19.86 220	22.302 292	20.67 206	31.467 276	50.50 156
17.3	43.055 302	53.96 100	46.670 411	18.18 168	22.608 306	19.02 165	31.751 284	49.14 136
27.3	43.360 305	54.89 93	47.095 425	17.06 112	22.920 312	17.82 120	32.039 288	48.03 111
	302	84	430	52	313	70	286	82
9 6.2	43.662	55.73	47.525	16.54	23.233	17.12	32.325	47.21
16.2	43.959 297	56.46 73	47.949 424	16.65 11	23.539 306	16.94 18	32.606 281	46.70 51
26.2	44.245 286	57.05 59	48.356 407	17.39 74	23.835 296	17.29 35	32.877 271	46.51 19
10 6.2	44.519 274	57.50 45	48.737 381	18.74 135	24.114 279	18.16 87	33.135 258	46.65 14
16.1	44.776 257	57.80 30	49.081 344	20.64 190	24.371 257	19.52 136	33.376 241	47.10 45
	237	18	300	239	232	178	222	72
26.1	45.013	57.98 6	49.381	23.03	24.603	21.30	33.598	47.82
11 5.1	45.228 215	58.04 2	49.628 247	25.82 279	24.804 201	23.44 214	33.796 198	48.78 96
15.0	45.416 188	58.02 9	49.816 188	28.90 308	24.971 167	25.85 241	33.969 173	49.92 114
25.0	45.574 158	57.93 14	49.940 124	32.17 327	25.100 129	28.43 258	34.111 142	51.19 127
12 4.9	45.698 124	57.79 16	49.997 57	35.48 331	25.187 87	31.09 266	34.220 109	52.52 133
	85		13	324	44	263	72	135
14.9	45.783	57.63	49.984	38.72	25.231	33.72	34.292	53.87
24.9	45.829 46	57.45 18	49.904 80	41.79 307	25.230 1	36.23 251	34.326 34	55.17 130
34.9	45.832 3	57.28 17	49.756 148	44.56 277	25.184 46	38.54 231	34.320 6	56.37 120
平位	s 42.245	″ 54.01	s 47.004	″ 36.19	s 22.306	″ 33.13	s 31.115	″ 55.81
sec δ, tan δ	+ 1.042	+ 0.294	+ 1.750	− 1.437	+ 1.163	− 0.593	+ 1.002	− 0.061
2 回正中	11 月 29 日		11 月 29 日		11 月 29 日		11 月 29 日	
a b	+ 0.1715	+ 0.0073	+ 0.0644	− 0.0356	+ 0.1166	− 0.0146	+ 0.1496	− 0.0015
a′ b′	+ 0.3718	− 0.9283	+ 0.3714	− 0.9285	+ 0.3691	− 0.9294	+ 0.3685	− 0.9296
FK3番號	168		171		170		169	

本初子午線正中時

星名	53 Erid		τ Taur		Grb 848 Caml		μ Erid	
等級	3.98		4.33		6.04		4.18	
スペクトル型	K0		B5		F0		B5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 4 35	° ′ ″ −14 24	h m s 4 38	° ′ ″ +22 50	h m s 4 41	° ′ ″ +75 50	h m s 4 42	° ′ ″ − 3 21
1 0.9	37.299	55.40	53.190	59.45	18.92	36.70	42.392	30.44
10.9	37.255 44	57.03 163	53.168 22	59.60 15	18.65 27	39.39 269	42.365 27	31.62 118
20.9	37.172 83	58.43 140	53.102 66	59.71 11	18.22 43	41.75 236	42.299 66	32.65 103
30.8	37.053 119	59.58 115	52.995 107	59.78 7	17.65 57	43.71 196	42.196 103	33.50 85
2 9.8	36.904 149	60.45 87	52.854 141	59.79 1	16.97 68	45.20 149	42.061 135	34.17 67
	172	58	168	7	77	95	158	48
19.8	36.732 186	61.03 26	52.686	59.72 14	16.20 82	46.15 40	41.903	34.65
29.8	36.546 192	61.29 4	52.501 185	59.58 21	15.38 83	46.55 17	41.728 175	34.92 27
3 10.7	36.354 186	61.25 34	52.309 192	59.37 27	14.55 83	46.38 72	41.546 182	34.99 7
20.7	36.168 172	60.91 65	52.123 186	59.10 31	13.75 80	45.66 72	41.369 177	34.85 14
30.7	35.996 172	60.26 94	51.953 170	58.79 33	13.00 75	44.44 122	41.204 165	34.50 35
	148		144		64	167	141	56
4 9.7	35.848 116	59.32	51.809	58.46 30	12.36	42.77	41.063	33.94
19.6	35.732 79	58.10 122	51.699 110	58.16 26	11.83 53	40.73 204	40.953 110	33.16 78
29.6	35.653 36	56.61 149	51.631 68	57.90 19	11.45 38	38.40 233	40.879 74	32.18 98
5 9.6	35.617 8	54.88 173	51.610 21	57.71 9	11.23 22	35.88 252	40.847 32	31.00 118
19.5	35.625	52.94 194	51.637 27	57.62 4	11.18 5	33.26 262	40.858 11	29.63 137
	54	211	76		11	262	56	153
29.5	35.679 97	50.83	51.713	57.66 17	11.29 28	30.64	40.914	28.10
6 8.5	35.776 140	48.59 224	51.836 123	57.83 31	11.57 28	28.09 255	41.013 99	26.43 167
18.5	35.916 177	46.27 232	52.002 166	58.14 44	12.00 43	25.70 239	41.153 140	24.67 176
28.4	36.093 210	43.92 235	52.208 206	58.58 56	12.58 58	23.52 218	41.329 176	22.84 183
7 8.4	36.303 237	41.62 230	52.447 239	59.14 67	13.28 70	21.64 188	41.538 209	21.01 183
		219	267		82	156	235	180
18.4	36.540 260	39.43 203	52.714 287	59.81 75	14.10 90	20.08 120	41.773 257	19.21 169
28.4	36.800 275	37.40 180	53.001 303	60.56 81	15.00 98	18.88 80	42.030 272	17.52 155
8 7.3	37.075 286	35.60 151	53.304 313	61.37 83	15.98 102	18.08 39	42.302 282	15.97 135
17.3	37.361 290	34.09 116	53.617 315	62.20 83	17.00 106	17.69 2	42.584 286	14.62 110
27.3	37.651 289	32.93 79	53.932 315	63.03 79	18.06 107	17.71 44	42.870 286	13.52 82
9 6.2	37.940 284	32.14 38	54.247 310	63.82 75	19.13 106	18.15 85	43.156 282	12.70
16.2	38.224 274	31.76 4	54.557 301	64.57 68	20.19 104	19.00 125	43.438 275	12.19 51
26.2	38.498 261	31.80 45	54.858 288	65.25 59	21.23 99	20.25 162	43.713 262	12.01 18
10 6.2	38.759 243	32.25 83	55.146 272	65.84 52	22.22 92	21.87 199	43.975 247	12.15 14
16.1	39.002 223	33.08 119	55.418 253	66.36 44	23.14 85	23.86 230	44.222 228	12.60 45
								73
26.1	39.225 197	34.27 148	55.671 229	66.80 38	23.99 75	26.16 258	44.450 206	13.33
11 5.1	39.422 170	35.75 171	55.900 203	67.18 32	24.74 63	28.74 282	44.656 181	14.30 97
15.1	39.592 138	37.46 186	56.103 171	67.50 28	25.37 49	31.56 299	44.837 151	15.45 115
25.0	39.730 103	39.32 194	56.274 136	67.78 26	25.86 34	34.55 308	44.988 118	16.74 129
12 4.9	39.833 64	41.26 194	56.410 97	68.04 23	26.20 18	37.63 310	45.106 81	18.09 135
								137
14.9	39.897	43.20	56.507	68.27	26.38	40.73	45.187	19.46
24.9	39.922 25	45.06 186	56.561 54	68.48 21	26.39 1	43.76 303	45.229 42	20.78 132
34.9	39.906 16	46.78 172	56.570 9	68.67 19	26.23 16	46.61 285	45.231 2	22.01 123
平位	s 36.851	″ 43.89	s 52.796	″ 64.51	s 15.611	″ 35.28	s 41.995	″ 20.94
sec δ, tan δ	+ 1.032	− 0.257	+ 1.085	+ 0.421	+ 4.089	+ 3.965	+ 1.002	− 0.059
2回正中	11月30日		11月30日		12月1日		12月1日	
a b	+ 0.1373	− 0.0062	+ 0.1797	+ 0.0097	+ 0.4022	+ 0.0890	+ 0.1496	− 0.0013
a′ b′	+ 0.3599	− 0.9330	+ 0.3466	− 0.9380	+ 0.3369	− 0.9416	+ 0.3309	− 0.9437
FK3番號	172		174		173		176	

1944

本初子午線正中時

星名	4 Caml		μ Mens		π⁴ Orio		α Caml	
等級	5.35		5.69		3.78		4.38	
スペクトル型	A2		B9		B3		B0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 4 43	° ′ ″ +56 39	h m s 4 43	° ′ ″ −71 1	h m s 4 48	° ′ ″ + 5 30	h m s 4 48	° ′ ″ +66 14
1 0.9	20.803	36.24	40.32	79.42	13.633	31.39	29.74	62.18
10.9	20.734 69	38.14 190	39.92 40	82.09 267	13.617 16	30.63 76	29.62 12	64.53 235
20.9	20.592 142	39.81 167	39.42 50	84.33 224	13.559 58	29.97 66	29.41 21	66.62 209
30.8	20.383 209	41.17 136	38.84 58	86.08 175	13.463 96	29.40 57	29.11 30	68.36 174
2 9.8	20.118 265	42.18 101	38.19 65	87.29 121	13.335 128	28.94 46	28.73 38	69.69 133
	307	63	70	66	155	35	44	87
19.8	19.811	42.81 20	37.49	87.95 9	13.180	28.59 23	28.29	70.56
29.8	19.476 335	43.01 20	36.77 72	88.04 9	13.008 172	28.36 23	27.82 47	70.95 39
3 10.7	19.133 343	42.81 61	36.05 72	87.57 47	12.829 179	28.24 12	27.34 48	70.84 11
20.7	18.799 334	42.20 97	35.34 71	86.56 101	12.652 177	28.24 0	26.86 48	70.25 59
30.7	18.491 308	41.23 129	34.67 67	85.04 152	12.488 164	28.37 13	26.42 44	69.21 104
	264		61	199	141	27	38	143
4 9.7	18.227 208	39.94 154	34.06	83.05 242	12.347	28.64	26.04	67.78
19.6	18.019 141	38.40 172	33.52 54	80.63 279	12.236 111	29.05 41	25.73 31	66.02 176
29.6	17.878 68	36.68 183	33.06 46	77.84 310	12.163 73	29.62 57	25.51 22	64.01 201
5 9.6	17.810 11	34.85 187	32.71 35	74.74 334	12.131 32	30.35 73	25.38 13	61.83 218
19.5	17.821 89	32.98 184	32.46 25	71.40 351	12.143 12	31.23 88	25.36 2	59.57 226
			13		57	102	9	226
29.5	17.910 166	31.14	32.33	67.89	12.200 100	32.25 117	25.45 18	57.31
6 8.5	18.076 236	29.41 173	32.31 2	64.30 359	12.300 142	33.42 127	25.63 29	55.12 219
18.5	18.312 302	27.82 159	32.41 10	60.72 358	12.442 178	34.69 135	25.92 37	53.07 205
28.4	18.614 357	26.44 138	32.63 22	57.23 349	12.620 211	36.04 141	26.29 37	51.23 184
7 8.4	18.971 406	25.29 115	32.95 32	53.92 331	12.831 237	37.45 140	26.74 45	49.63 160
		88	42	304			52	130
18.4	19.377	24.41	33.37	50.88	13.068	38.85	27.26	48.33
28.4	19.820 443	23.81 60	33.88 51	48.22 266	13.327 259	40.22 137	27.83 57	47.34 99
8 7.3	20.292 472	23.50 31	34.47 59	45.99 223	13.601 274	41.52 130	28.44 61	46.70 64
17.3	20.784 492	23.49 1	35.11 64	44.28 171	13.886 285	42.68 116	29.09 65	46.40 30
27.3	21.286 502	23.77 28	35.79 68	43.15 113	14.175 289	43.68 100	29.75 66	46.46 6
	504	56	70	52	291	80	67	41
9 6.2	21.790	24.33	36.49	42.63	14.466	44.48	30.42	46.87
16.2	22.289 499	25.17 84	37.19 70	42.76 13	14.752 286	45.05 57	31.09 67	47.64 77
26.2	22.777 488	26.26 109	37.87 68	43.53 77	15.032 280	45.38 33	31.74 65	48.73 109
10 6.2	23.244 467	27.59 133	38.50 63	44.91 138	15.300 268	45.47 9	32.37 63	50.15 142
16.1	23.686 442	29.14 155	39.07 57	46.87 196	15.555 255	45.32 15	32.97 60	51.86 171
	409	175	49	247	237	36	55	199
26.1	24.095	30.89	39.56	49.34	15.792	44.96	33.52	53.85
11 5.1	24.464 369	32.81 192	39.95 39	52.21 287	16.008 216	44.41 55	34.01 49	56.07 222
15.1	24.785 321	34.88 207	40.23 28	55.39 318	16.200 192	43.72 69	34.43 42	58.50 243
25.0	25.049 264	37.04 216	40.40 17	58.75 336	16.362 162	42.92 80	34.78 35	61.07 257
12 5.0	25.252 203	39.27 223	40.43 3	62.18 343	16.492 130	42.07 85	35.04 26	63.74 267
	133	222	9	336	94	86	17	269
14.9	25.385	41.49	40.34	65.54	16.586	41.21	35.21	66.43
24.9	25.444 59	43.65 216	40.13 21	68.72 318	16.640 54	40.37 84	35.27 6	69.07 264
34.9	25.426 18	45.68 203	39.80 33	71.60 288	16.652 12	39.59 78	35.22 5	71.57 250
平位	s 19.735	″ 36.63	s 36.851	″ 62.39	s 13.250	″ 39.38	s 28.011	″ 61.91
sec δ, tan δ	+ 1.820	+ 1.520	+ 3.077	− 2.910	+ 1.005	+ 0.096	+ 2.483	+ 2.273
2回正中	12月2日		12月2日		12月3日		12月3日	
a b	+ 0.2490	+ 0.0333	− 0.0300	− 0.0635	+ 0.1594	+ 0.0020	+ 0.2975	+ 0.0465
a′ b′	+ 0.3283	− 0.9446	+ 0.3272	− 0.9450	+ 0.3081	− 0.9514	+ 0.3071	− 0.9517
FK3番號	175		177		179		178	

星名	π^5 Orio		ι Auri		ε Auri		β Caml	
等級	3.87		2.90		3.1–3.8		4.22	
スペクトル型	B3		K2		F5p		G0p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 4 51	° ′ + 2 20	h m 4 53	° ′ +33 4	h m 4 57	° ′ +43 44	h m 4 53	° ′ +60 21
	s	″	s	″	s	″	s	″
1 0.9	20.304	53.46	21.045	41.83	57.383	30.67	26.86	46.11
10.9	20.289 15	52.54 92	21.033 12	42.55 72	57.365 18	31.98 131	26.81 5	48.25 214
20.9	20.232 57	51.73 81	20.970 63	43.19 64	57.289 76	33.15 117	26.66 15	50.17 192
30.9	20.137 95	51.04 69	20.861 109	43.71 52	57.158 131	34.13 98	26.45 21	51.79 162
2 9.8	20.009 128	50.50 54	20.711 150	44.09 38	56.981 177	34.88 75	26.16 29	53.06 127
	154	41	183	22	215	49	34	87
19.8	19.855	50.09	20.528	44.31	56.766	35.37	25.82	53.93
29.8	19.683 172	49.84 25	20.325 203	44.35 4	56.525 241	35.58 21	25.45 37	54.36 43
3 10.7	19.503 180	49.73 11	20.112 213	44.21 14	56.273 252	35.50 8	25.06 39	54.35 1
20.7	19.325 178	49.78 5	19.901 211	43.89 32	56.024 249	35.14 36	24.68 38	53.90 45
30.7	19.160 165	49.93 20	19.706 195	43.43 46	55.791 233	34.52 62	24.33 35	53.04 86
	143	36	169	58	203	84	32	122
4 9.7	19.017	50.34	19.537	42.85 66	55.588	33.68	24.01	51.82
19.6	18.903 114	50.88 54	19.405 132	42.19 70	55.426 162	32.66 102	23.76 25	50.30 152
29.6	18.826 77	51.59 71	19.316 89	41.49 70	55.314 112	31.52 114	23.57 19	48.55 175
5 9.6	18.790 36	52.47 88	19.277 39	40.79 66	55.258 56	30.32 120	23.47 10	46.63 192
19.6	18.798 8	53.51 104	19.290 13	40.13 58	55.262 4	29.10 122	23.44 3	44.63 200
	52	120	67		64	118	7	200
29.5	18.850	54.71	19.357	39.55 47	55.326	27.92	23.51	42.63
6 8.5	18.945 95	56.04 133	19.474 117	39.08 34	55.450 124	26.83 109	23.66 15	40.68 195
18.5	19.081 136	57.48 144	19.640 166	38.74 21	55.629 179	25.86 97	23.89 23	38.85 183
28.4	19.254 173	58.99 151	19.850 210	38.53 5	55.858 229	25.05 81	24.19 30	37.20 165
7 8.4	19.460 206	60.53 154	20.097 247	38.48 9	56.132 274	24.41 64	24.56 37	35.77 143
	233	154	279		312	44	42	118
18.4	19.693	62.07	20.376	38.57 24	56.444	23.97 25	24.98	34.59
28.4	19.947 254	63.55 148	20.681 305	38.81 24	56.786 342	23.72 5	25.45 47	33.69 90
8 7.3	20.218 271	64.93 138	21.004 323	39.17 36	57.151 365	23.67 14	25.95 50	33.09 60
17.3	20.499 281	66.15 122	21.340 336	39.63 46	57.533 382	23.81 32	26.49 54	32.79 30
27.3	20.786 287	67.18 103	21.683 343	40.19 56	57.923 390	24.13 48	27.03 54	32.81 2
	288	80	345	62	395		56	32
9 6.3	21.074	67.98	22.028	40.81 68	58.318	24.61	27.59	33.13
16.2	21.359 285	68.53 55	22.370 342	41.49 71	58.710 392	25.25 64	28.15 56	33.76 63
26.2	21.637 278	68.80 27	22.704 334	42.20 74	59.096 386	26.04 79	28.69 54	34.67 91
10 6.2	21.905 268	68.80 0	23.028 324	42.94 76	59.469 373	26.96 92	29.22 53	35.86 119
16.1	22.159 254	68.53 27	23.336 308	43.70 77	59.826 357	27.99 103	29.73 51	37.32 146
	237	51	289		335	115	47	170
26.1	22.396	68.02	23.625	44.47 80	60.161	29.14	30.20	39.02
11 5.1	22.613 217	67.31 71	23.890 265	45.27 81	60.469 308	30.39 125	30.62 42	40.93 191
15.1	22.805 192	66.44 87	24.127 237	46.08 83	60.744 275	31.73 134	31.00 38	43.04 211
25.0	22.968 163	65.46 98	24.331 204	46.91 84	60.979 235	33.14 141	31.32 32	45.28 224
12 5.0	23.098 130	64.41 105	24.495 164	47.75 84	61.168 189	34.60 146	31.56 24	47.63 235
	94	106	121		139	147	17	239
14.9	23.192	63.35	24.616	48.59 82	61.307	36.07	31.73	50.02
24.9	23.247 55	62.32 103	24.689 73	49.41 78	61.389 82	37.52 145	31.82 9	52.37 235
34.9	23.260 13	61.36 96	24.712 23	50.19 78	61.412 23	38.92 140	31.82 0	54.63 226
平位	s 19.906	″ 61.93	s 20.541	″ 45.65	s 56.704	″ 33.26	s 25.579	″ 46.94
sec δ, tan δ	+ 1.001	+ 0.041	+ 1.193	+ 0.651	+ 1.384	+ 0.957	+ 2.022	+ 1.758
2 回正中	12 月 4 日		12 月 4 日		12 月 5 日		12 月 5 日	
a b	+ 0.1559	+ 0.0008	+ 0.1949	+ 0.0125	+ 0.2148	+ 0.0171	+ 0.2663	+ 0.0311
a′ b′	+ 0.2952	− 0.9555	+ 0.2868	− 0.9580	+ 0.2675	− 0.9636	+ 0.2654	− 0.9641
FK3番號	180		181		183		182	

星名	ι Taur		η Auri		ε Leps		η^2 Pict	
等級	4.70		3.28		3.29		4.92	
スペクトル型	A5		B3		K5		K5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 4 59	° ′ +21 30	h m 5 2	° ′ +41 9	h m 5 3	° ′ −22 26	h m 5 3	° ′ −49 38
	s	″	s	″	s	″	s	″
1 0.9	45.130	36.76	35.598	36.05	5.977	53.41	32.194	84.86
10.9	45.128 2	36.85 9	35.589 9	37.24 119	5.943 34	55.49 208	32.078 116	87.65 279
20.9	45.079 49	36.93 8	35.523 66	38.30 106	5.866 77	57.31 182	31.904 174	90.08 243
30.9	44.988 91	37.00 7	35.405 118	39.20 90	5.749 117	58.83 152	31.680 224	92.09 201
2 9.8	44.859 129	37.03 3	35.240 165	39.90 70	5.597 152	60.01 118	31.412 268	93.62 153
	160	1	203	47	180	82	302	102
19.8	44.699	37.02 6	35.037	40.37 21	5.417	60.83 46	31.110	94.64
29.8	44.519 180	36.96 11	34.809 228	40.58 5	5.217 200	61.29 7	30.787 323	95.14 50
3 10.7	44.329 190	36.85 17	34.569 240	40.53 31	5.009 208	61.36 29	30.453 334	95.11 3
20.7	44.139 190	36.68 20	34.330 239	40.22 54	4.801 208	61.07 66	30.122 331	94.56 55
30.7	43.963 176	36.48 21	34.106 224	39.68 74	4.604 197	60.41 101	29.806 316	93.51 105
	155		197		177		291	154
4 9.7	43.808	36.27	33.909	38.94	4.427	59.40	29.515	91.97
19.6	43.686 122	36.07 20	33.752 157	38.04 90	4.279 148	58.05 135	29.262 253	90.00 197
29.6	43.602 84	35.91 16	33.642 110	37.03 101	4.167 112	56.38 167	29.054 208	87.63 237
5 9.6	43.563 39	35.80 11	33.585 57	35.96 107	4.096 71	54.44 194	28.898 156	84.91 272
19.6	43.570 7	35.78 2	33.585 0	34.87 109	4.069 27	52.26 218	28.801 97	81.91 300
	55	8	58	104	18	238	38	322
29.5	43.625	35.86	33.643	33.83	4.087	49.88	28.763	78.69
6 8.5	43.727 102	36.05 19	33.758 115	32.87 96	4.152 65	47.35 253	28.787 24	75.32 337
18.5	43.872 145	36.37 32	33.927 169	32.03 84	4.260 108	44.73 262	28.871 84	71.89 343
28.4	44.058 186	36.79 42	34.145 218	31.33 70	4.408 148	42.09 264	29.014 143	68.49 340
7 8.4	44.278 220	37.32 53	34.406 261	30.80 53	4.594 186	39.50 259	29.212 198	65.20 329
	249	61	297	37	218	247	246	309
18.4	44.527	37.93	34.703	30.43	4.812	37.03	29.458	62.11
28.4	44.800 273	38.60 67	35.030 327	30.25 18	5.056 244	34.74 229	29.748 290	59.31 280
8 7.3	45.091 291	39.32 72	35.380 350	30.24 1	5.321 265	32.72 202	30.073 325	56.89 242
17.3	45.394 303	40.04 72	35.746 366	30.40 16	5.603 282	31.03 169	30.426 353	54.93 196
27.3	45.704 310	40.74 70	36.122 376	30.71 31	5.893 290	29.72 131	30.798 372	53.49 144
	312	66	379	46	296	88	384	87
9 6.3	46.016	41.40	36.501	31.17	6.189	28.84	31.182	52.62
16.2	46.326 310	41.99 59	36.880 379	31.75 58	6.484 295	28.44 40	31.567 385	52.37 25
26.2	46.631 305	42.50 51	37.253 373	32.46 71	6.774 290	28.51 7	31.947 380	52.74 37
10 6.2	46.926 295	42.93 43	37.615 362	33.28 82	7.054 280	29.07 56	32.310 363	53.72 98
16.1	47.209 283	43.27 34	37.962 347	34.19 91	7.320 266	30.08 101	32.649 339	55.28 156
	266	25	327	100	246	143	307	210
26.1	47.475	43.52	38.289	35.19	7.566	31.51	32.956	57.38
11 5.1	47.721 246	43.71 19	38.591 302	36.29 110	7.789 223	33.29 178	33.223 267	59.92 254
15.1	47.942 221	43.86 15	38.862 271	37.46 117	7.983 194	35.36 207	33.444 221	62.81 289
25.0	48.133 191	43.97 11	39.095 233	38.70 124	8.145 162	37.64 228	33.612 168	65.95 314
12 5.0	48.290 157	44.06 9	39.286 191	39.98 128	8.270 125	40.02 238	33.722 110	69.22 327
	118	10	141	131	85	240	49	328
14.9	48.408	44.16	39.427	41.29	8.355	42.42	33.771	72.50
24.9	48.482 74	44.26 10	39.514 87	42.59 130	8.396 41	44.75 233	33.757 14	75.67 317
34.9	48.512 30	44.36 10	39.545 31	43.83 124	8.393 3	46.93 218	33.681 76	78.63 296
平位	s 44.703	″ 42.37	s 34.964	″ 39.14	s 5.339	″ 41.83	s 30.787	″ 70.66
sec δ, tan δ	+ 1.075	+ 0.394	+ 1.328	+ 0.874	+ 1.082	− 0.413	+ 1.545	− 1.177
2 回正中	12 月 6 日		12 月 6 日		12 月 7 日		12 月 7 日	
a b	+ 0.1787	+ 0.0068	+ 0.2098	+ 0.0145	+ 0.1266	− 0.0068	+ 0.0772	− 0.0191
a′ b′	+ 0.2599	− 0.9656	+ 0.2479	− 0.9688	+ 0.2458	− 0.9693	+ 0.2440	− 0.9698
FK3番號	184		185		186		187	

星名		ζ Dora		β Erid		λ Erid		μ Auri	
等級	スペクトル型	4.76	F 8	2.92	A 3	4.34	B 2	4.78	A 3
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 5 4	° ′ −57 32	h m 5 5	° ′ − 5 9	h m 5 6	° ′ − 8 49	h m 5 9	° ′ +38 25
		s	″	s	″	s	″	s	″
1	0.9	34.741 166	69.71 288	6.144 11	35.68 134	28.372 13	37.80 151	36.109 2	8.85 105
	10.9	34.575 234	72.59 250	6.133 52	37.02 117	28.359 54	39.31 133	36.111 54	9.90 95
	20.9	34.341 294	75.09 206	6.081 91	38.19 99	28.305 94	40.64 112	36.057 106	10.85 82
	30.9	34.047 344	77.15 156	5.990 127	39.18 78	28.211 129	41.76 88	35.951 152	11.67 65
2	9.8	33.703 382	78.71 104	5.863 154	39.96 56	28.082 157	42.64 64	35.799 190	12.32 45
	19.8	33.321 406	79.75 49	5.709 174	40.52 35	27.925 177	43.28 37	35.609 215	12.77 23
	29.8	32.915 418	80.24 6	5.535 184	40.87 12	27.748 187	43.65 12	35.394 230	13.00 0
3	10.8	32.497 414	80.18 61	5.351 184	40.99 11	27.561 187	43.77 14	35.164 230	13.00 23
	20.7	32.083 397	79.57 112	5.167 174	40.88 34	27.374 177	43.63 40	34.934 217	12.77 44
	30.7	31.686 366	78.45 161	4.993 154	40.54 55	27.197 158	43.23 65	34.717 192	12.33 63
4	9.7	31.320	76.84 207	4.839 126	39.99 79	27.039 130	42.58 91	34.525 155	11.70 76
	19.6	30.996 324	74.77 248	4.713 91	39.20 99	26.909 96	41.67 114	34.370 111	10.94 87
	29.6	30.724 272	72.29 282	4.622 53	38.21 121	26.813 56	40.53 137	34.259 61	10.07 92
5	9.6	30.513 211	69.47 312	4.569 9	37.00 139	26.757 14	39.16 156	34.198 6	9.15 93
	19.6	30.370 143	66.35 334	4.560 33	35.61 156	26.743 30	37.60 175	34.192 50	8.22 90
		73							
	29.5	30.297 0	63.01	4.593	34.05	26.773	35.85	34.242	7.32
6	8.5	30.297 72	59.53 348	4.670 77	32.35 170	26.846 73	33.97 188	34.347 105	6.51 81
	18.5	30.369 142	56.00 353	4.788 118	30.55 180	26.960 114	31.98 199	34.503 156	5.79 72
	28.5	30.511 209	52.49 351	4.944 156	28.70 185	27.113 153	29.94 204	34.707 204	5.21 58
7	8.4	30.720 270	49.11 338	5.134 190	26.83 187	27.299 186	27.91 203	34.952 245	4.77 44
				5.352 218		27.515 216		35.234 282	4.49 28
	18.4	30.990	45.95	5.352	25.00	27.515	25.93	35.234	4.49
	28.4	31.313 323	43.09 286	5.593 241	23.28 172	27.755 240	24.07 186	35.545 311	4.36 13
8	7.3	31.683 370	40.63 246	5.854 261	21.70 158	28.014 259	22.39 168	35.879 334	4.38 2
	17.3	32.088 405	38.64 199	6.127 273	20.34 136	28.286 272	20.94 145	36.229 350	4.55 17
	27.3	32.519 431	37.20 144	6.408 281	19.23 111	28.567 281	19.78 116	36.590 361	4.84 29
		446	85	285	82	286	84	365	41
	6.3	32.965	36.35	6.693	18.41	28.853	18.94	36.955	5.25
9	16.2	33.416 451	36.12 23	6.977 284	17.92 49	29.137 284	18.47 47	37.321 366	5.76 51
	26.2	33.859 443	36.54 42	7.256 279	17.78 14	29.417 280	18.36 11	37.682 361	6.36 60
10	6.2	34.283 424	37.60 106	7.527 271	17.97 19	29.689 272	18.63 27	38.035 353	7.05 69
	16.1	34.676 393	39.24 164	7.786 259	18.50 53	29.949 260	19.26 63	38.374 339	7.82 77
		354	219	242	82	243	96	321	84
	26.1	35.030	41.43	8.028	19.32	30.192	20.22	38.695	8.66
11	5.1	35.333 303	44.08 265	8.252 224	20.41 109	30.415 223	21.47 125	38.993 298	9.57 91
	15.1	35.578 245	47.09 301	8.451 199	21.70 129	30.614 199	22.93 146	39.262 269	10.55 98
	25.0	35.756 178	50.36 327	8.621 170	23.14 144	30.784 170	24.56 163	39.496 234	11.59 104
12	5.0	35.862 106	53.75 339	8.759 138	24.65 151	30.921 137	26.28 172	39.690 194	12.68 109
		32	339	102	154	100	174	146	112
	14.9	35.894 —	57.14	8.861	26.19	31.021	28.02	39.836	13.80
	24.9	35.849 45	60.42 328	8.922 61	27.68 149	31.081 60	29.71 169	39.931 95	14.93 113
	34.9	35.729 120	63.47 305	8.941 19	29.08 140	31.098 17	31.30 159	39.972 41	16.02 109
平位		s 32.829	″ 55.10	s 5.677	″ 26.37	s 27.875	″ 28.04	s 35.512	″ 12.52
sec δ, tan δ		+ 1.864	− 1.573	+ 1.004	− 0.090	+ 1.012	− 0.155	+ 1.276	+ 0.793
2 回正中		12 月 7 日		12 月 7 日		12 月 7 日		12 月 8 日	
a b		+ 0.0515	− 0.0251	+ 0.1475	− 0.0014	+ 0.1433	− 0.0024	+ 0.2049	+ 0.0115
a′ b′		+ 0.2396	− 0.9709	+ 0.2373	− 0.9714	+ 0.2315	− 0.9728	+ 0.2182	− 0.9759
FK3番號		189		188		190		192	

星名		β Orio		α Auri		19 H. Caml		ϑ Dora	
等級	スペクトル型	0.34	B8p	0.21	G 0	5.16	F 8	4.78	K 0
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 5 11	° ′ − 8 15	h m 5 12	° ′ +45 56	h m 5 13	° ′ +79 9	h m 5 13	° ′ −67 14
		s	″	s	″	s	″	s	″
1	0.9	51.206 7	63.15 151	33.620 2	33.06 145	21.84 22	77.83 296	50.73 26	68.36 298
	10.9	51.199 50	64.66 132	33.618 63	34.51 133	21.62 44	80.79 270	50.47 35	71.34 261
	20.9	51.149 91	65.98 112	33.555 123	35.84 115	21.18 65	83.49 237	50.12 44	73.95 218
	30.9	51.058 125	67.10 89	33.432 174	36.99 92	20.53 82	85.86 193	49.68 50	76.13 167
2	9.8	50.933 155	67.99 65	33.258 217	37.91 66	19.71 95	87.79 142	49.18 55	77.80 114
	19.8	50.778	68.64	33.041	38.57	18.76	89.21	48.63	78.94
	29.8	50.603 175	69.03 39	32.795 246	38.93 36	17.72 104	90.09 88	48.04 59	79.53 59
3	10.8	50.416 187	69.17 14	32.533 262	38.98 5	16.62 110	90.39 30	47.43 61	79.56 3
	20.7	50.229 187	69.05 12	32.270 263	38.74 24	15.54 108	90.11 28	46.83 60	79.03 53
	30.7	50.051 178	68.68 37	32.021 249	38.20 54	14.50 104	89.28 83	46.24 59	77.98 105
		160	62	222	79	94	134	54	155
4	9.7	49.891	68.06	31.799	37.41	13.56	87.94	45.70	76.43
	19.6	49.758 133	67.19 87	31.618 181	36.41 100	12.76 80	86.15 179	45.21 49	74.41 202
	29.6	49.659 99	66.09 110	31.486 132	35.25 116	12.12 64	84.00 215	44.78 43	71.97 244
5	9.6	49.599 60	64.77 132	31.410 76	33.99 126	11.68 44	81.57 243	44.43 35	69.17 280
	19.6	49.581 18	63.25 152	31.394 16	32.67 132	11.44 24	78.96 261	44.17 26	66.06 311
		26	171	46	130	3	272	17	334
	29.5	49.607	61.54	31.440	31.37	11.41	76.24	44.00	62.72
6	8.5	49.675 68	59.70 184	31.548 108	30.11 126	11.59 18	73.53 271	43.93 7	59.23 349
	18.5	49.785 110	57.76 194	31.714 166	28.96 115	11.98 39	70.88 265	43.96 3	55.67 356
	28.5	49.933 148	55.76 200	31.933 219	27.94 102	12.57 59	68.39 249	44.09 13	52.14 353
7	8.4	50.115 182	53.76 195	32.200 267	27.08 86	13.34 77	66.12 227	44.31 22	48.71 343
		212		308	68	93	199	31	321
	18.4	50.327	51.81	32.508	26.40	14.27	64.13	44.62	45.50
	28.4	50.564 237	49.98 183	32.849 341	25.91 49	15.33 106	62.45 168	45.01 39	42.58 292
8	7.3	50.820 256	48.32 166	33.217 368	25.62 29	16.51 118	61.14 131	45.47 46	40.06 252
	17.3	51.090 270	46.88 144	33.605 388	25.53 9	17.78 127	60.21 93	45.98 51	38.01 205
	27.3	51.369 279	45.73 115	34.006 401	25.63 10	19.12 134	59.70 51	46.54 56	36.50 151
		285	84	497	27	137	9	59	92
	6.3	51.654	44.89	34.413	25.90	20.49	59.61 —	47.13	35.58
9	16.2	51.938 284	44.40 49	34.822 409	26.36 46	21.89 140	59.95 34	47.73 60	35.30 28
	26.2	52.219 281	44.29 11	35.227 405	26.98 62	23.27 138	60.71 76	48.32 59	35.67 37
10	6.2	52.493 274	44.54 25	35.622 395	27.75 77	24.62 135	61.88 117	48.89 57	36.69 102
	16.2	52.755 262	45.16 62	36.003 381	28.68 93	25.90 128	63.47 159	49.42 53	38.32 163
		247	94	360	106	120	196	48	218
	26.1	53.002	46.10	36.363	29.74	27.10	65.43	49.90	40.50
11	5.1	53.229 227	47.32 122	36.697 334	30.94 120	28.18 108	67.74 231	50.30 40	43.16 266
	15.1	53.433 204	48.77 145	36.999 302	32.26 132	29.13 95	70.36 262	50.62 32	46.20 304
	25.0	53.609 176	50.38 161	37.261 262	33.68 142	29.90 77	73.22 286	50.84 22	49.51 331
12	5.0	53.751 142	52.08 170	37.476 215	35.19 151	30.49 59	76.27 305	50.97 13	52.97 346
		106	173	163	154	38	316	1	347
	14.9	53.857	53.81	37.639	36.73	30.87	79.43	50.98	56.44
	24.9	53.922 65	55.49 168	37.743 104	38.29 156	31.02 15	82.60 317	50.89 9	59.81 337
	34.9	53.944 22	57.06 157	37.785 42	39.81 152	30.95 7	85.68 308	50.69 20	62.96 315
平位		s 50.700	″ 53.62	s 32.877	″ 36.02	s 17.249	″ 78.27	s 47.617	″ 54.20
sec δ, tan δ		+ 1.010	− 0.145	+ 1.438	+ 1.034	+ 5.323	+ 5.228	+ 2.586	− 2.384
2 回正中		12 月 9 日		12 月 9 日		12 月 9 日		12 月 9 日	
a b		+ 0.1439	− 0.0020	+ 0.2208	+ 0.0142	+ 0.4947	+ 0.0706	− 0.0024	− 0.0318
a′ b′		+ 0.2086	− 0.9780	+ 0.2056	− 0.9786	+ 0.2024	− 0.9793	+ 0.2003	− 0.9797
FK3番號		194		193		191		196	

星名	τ Orio		o Colm		12 G. Colm		ζ Pict	
等級	3.68		4.91		5.75		5.52	
スペクトル型	B5		K0		A0		F8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
	5 14	− 6 54	5 15	−34 56	5 17	−27 25	5 17	−50 39
月 日	s	″	s	″	s	″	s	″
1 0.9	53.628	21.75 145	28.733 48	68.28 257	10.469 30	41.95 233	61.071 103	68.43 291
10.9	53.625 3	23.20 128	28.685 97	70.85 227	10.439 76	44.28 207	60.968 165	71.34 257
20.9	53.579 46	24.48 108	28.588 143	73.12 192	10.363 120	46.35 174	60.803 219	73.91 217
30.9	53.492 87	25.56 86	28.445 182	75.04 152	10.243 157	48.09 139	00.584 267	76.08 170
2 9.8	53.369 123	26.42 63	28.263 213	76.56 108	10.086 188	49.48 100	60.317 303	77.78 120
19.8	53.217	27.05	28.050	77.64 62	9.898	50.48 59	60.014	78.98 69
29.8	53.043 174	27.44 39	27.814 236	78.26 17	9.689 209	51.07 18	59.684 330	79.67 15
3 10.8	52.858 185	27.58 14	27.567 247	78.43 29	9.467 222	51.25 23	59.341 343	79.82 38
20.7	52.672 186	27.49 9	27.319 248	78.14 73	9.244 223	51.02 64	58.997 344	79.44 88
30.7	52.494 178	27.15 34	27.080 239	77.41 117	9.030 214	50.38 102	58.665 332	78.56 138
	160	57	219		196		309	
4 9.7	52.334	26.58 82	26.861	76.24 156	8.834 168	49.36 139	58.356 273	77.18 183
19.6	52.201 133	25.76 104	26.672 189	74.68 194	8.666 168	47.97 173	58.083 231	75.35 225
29.6	52.101 100	24.72 125	26.519 153	72.74 227	8.533 133	46.24 203	57.852 179	73.10 261
5 9.6	52.040 61	23.47 145	26.409 110	70.47 255	8.440 93	44.21 230	57.673 122	70.49 293
19.6	52.020 20	22.02 162	26.347 62	67.92 278	8.392 48	41.91 252	57.551 62	67.56 316
	24		14		3			
29.5	52.044	20.40	26.333	65.14 295	8.389	39.39	57.489	64.40
6 8.5	52.111 67	18.64 176	26.369 36	62.19 303	8.434 45	36.70 269	57.489 0	61.07 333
18.5	52.219 108	16.78 186	26.454 85	59.16 305	8.523 89	33.92 278	57.551 62	57.65 342
28.5	52.365 146	14.85 193	26.585 131	56.11 299	8.656 133	31.11 281	57.673 122	54.22 343
7 8.4	52.545 180	12.92 193	26.759 174	53.12 284	8.828 172	28.34 277	57.851 178	50.88 334
	210	188	212		206	264	230	315
18.4	52.755	11.04	26.971	50.28 262	9.034	25.70	58.081	47.73
28.4	52.990 235	9.25 179	27.216 245	47.66 230	9.271 237	23.25 245	58.357 276	44.84 289
8 7.3	53.244 254	7.64 161	27.489 273	45.36 192	9.531 260	21.08 217	58.673 316	42.31 253
17.3	53.513 269	6.23 141	27.783 294	43.44 146	9.811 280	19.26 182	59.020 347	40.22 209
27.3	53.792 279	5.10 113	28.092 309	41.98 97	10.104 293	17.84 142	59.391 371	38.64 158
	283	83	318		301	96	385	101
9 6.3	54.075	4.27	28.410	41.01 42	10.405	16.88	59.776	37.63
16.2	54.360 285	3.78 49	28.731 321	40.59 14	10.709 304	16.42 46	60.168 392	37.22 41
26.2	54.641 281	3.65 13	29.049 318	40.73 71	11.009 300	16.48 6	60.557 389	37.45 23
10 6.2	54.916 275	3.88 23	29.358 309	41.44 124	11.302 293	17.05 57	60.934 377	38.29 84
16.2	55.179 263	4.45 57	29.651 293	42.68 173	11.581 279	18.13 108	61.289 355	39.74 145
	249	90	272		261	153	326	200
26.1	55.428	5.35	29.923	44.41 216	11.842	19.66	61.615	41.74
11 5.1	55.658 230	6.52 117	30.168 245	46.57 251	12.079 237	21.58 192	61.902 287	44.21 247
15.1	55.865 207	7.90 138	30.381 213	49.08 275	12.288 209	23.83 225	62.144 242	47.06 285
25.0	56.043 178	9.45 155	30.556 175	51.83 290	12.464 176	26.30 247	62.333 189	50.19 313
12 5.0	56.190 147	11.09 164	30.688 132	54.73 293	12.601 137	28.92 262	62.464 131	53.48 329
	109	166	86		94	265	68	333
14.9	56.299	12.75	30.774	57.66	12.695	31.57	62.532	56.81
24.9	56.368 69	14.36 161	30.810 36	60.53 287	12.744 49	34.16 259	62.535 3	60.07 326
34.9	56.395 27	15.88 152	30.795 15	63.22 269	12.747 3	36.60 244	62.473 62	63.11 304
平位	s 53.126	″ 12.46	s 27.802	″ 56.11	s 9.700	″ 30.56	s 59.526	″ 55.33
sec δ, tan δ	+ 1.007	− 0.121	+ 1.220	− 0.699	+ 1.127	− 0.519	+ 1.578	− 1.220
2 回正中	12 月 10 日		12 月 10 日		12 月 10 日		12 月 10 日	
a b	+ 0.1454	− 0.0016	+ 0.1076	− 0.0090	+ 0.1193	− 0.0064	+ 0.0733	− 0.0148
a′ b′	+ 0.1956	− 0.9807	+ 0.1931	− 0.9812	+ 0.1858	− 0.9826	+ 0.1823	− 0.9833
FK3番號	195		197		198		199	

星名	† η Orio m		γ Orio		β Taur		17 Caml	
等級	3.44		1.70		1.78		5.75	
スペクトル型	B1		B2		B8		K5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
	5 21	− 2 26	5 22	+ 6 17	5 22	+28 33	5 24	+63 1
月 日	s	″	s	″	s	″	s	″
1 0.9	40.065 7	58.09 125	7.980 13	54.35 78	45.459 19	38.26 49	53.88 2	21.89 235
10.9	40.072	59.34 110	7.993	53.57 68	45.478	38.75	53.86 11	24.24 217
20.9	40.035 37	60.44 93	7.962 31	52.89 57	45.447 31	39.22 47	53.75 20	26.41 193
30.9	39.956 79	61.37 74	7.888 74	52.32 45	45.367 80	39.65 43	53.55 28	28.34 160
2 9.8	39.840 116	62.12 75	7.776 112	51.87 34	45.244 123	40.01 36	53.27 35	29.94 121
	146	55	143		159	26		
19.8	39.694 168	62.67	7.633 166	51.53 22	45.085 186	40.27 16	52.92	31.15
29.8	39.526 182	63.02 35	7.467 179	51.31 11	44.899 201	40.43 2	52.53 39	31.94 79
3 10.8	39.344 184	63.17 15	7.288 182	51.20 0	44.698 204	40.45 9	52.11 42	32.26 32
20.7	39.160 184	63.12 5	7.106 182	51.20 0	44.494 204	40.36 21	51.68 43	32.13 13
30.7	38.983 177	62.87 25	6.931 175	51.32 12	44.299 195	40.15 31	51.28 40	31.55 58
	159	45	157	24	175		38	99
4 9.7	38.824	62.42	6.774	51.56	44.124	39.84	50.90	30.56
19.7	38.690 134	61.77 65	6.644 130	51.93 37	43.979 145	39.47 37	50.59 31	29.21 135
29.6	38.590 100	60.92 85	6.547 97	52.43 50	43.873 106	39.05 42	50.34 25	27.57 164
5 9.6	38.527 63	59.88 104	6.488 59	53.06 63	43.810 63	38.63 42	50.18 16	25.69 188
19.6	38.506 21	58.67 121	6.471 17	53.84 78	43.796 14	38.22 41	50.10 8	23.67 202
	21	137	27	90	34	34	1	210
29.5	38.527	57.30	6.498	54.74	43.830	37.88	50.11	21.57
6 8.5	38.591 64	55.79 151	6.569 71	55.77 103	43.914 84	37.60 28	50.22 11	19.46 211
18.5	38.696 105	54.17 162	6.680 111	56.90 113	44.044 130	37.42 18	50.41 19	17.42 204
28.5	38.840 144	52.49 168	6.830 150	58.10 120	44.218 174	37.34 8	50.68 27	15.50 192
7 8.4	39.017 177	50.79 170	7.013 183	59.35 125	44.429 211	37.36 2	51.03 35	13.74 176
	207	167	214	126	245	12	42	153
18.4	39.224	49.12	7.227	60.61	44.674	37.48	51.45	12.21
28.4	39.456 232	47.52 160	7.465 238	61.84 123	44.947 273	37.69 21	51.92 47	10.93 128
8 7.4	39.708 252	46.06 146	7.722 257	63.00 116	45.240 293	37.98 29	52.44 52	9.92 101
17.3	39.975 267	44.77 129	7.994 272	64.03 103	45.550 310	38.32 34	52.99 55	9.21 71
27.3	40.252 277	43.72 105	8.276 282	64.92 89	45.872 322	38.70 38	53.57 58	8.80 41
	283	79	288	69	327	40	60	9
9 6.3	40.535 285	42.93	8.564 289	65.61 47	46.199 329	39.10 41	54.17 61	8.71 23
16.2	40.820 282	42.44 49	8.853 287	66.08 24	46.528 328	39.51 40	54.78 60	8.94 55
26.2	41.102 282	42.27 17	9.140 282	66.32 1	46.856 328	39.91 38	55.38 60	9.49 85
10 6.2	41.379 277	42.42 15	9.422 272	66.33 23	47.177 321	40.29 38	55.98 57	10.34 115
16.2	41.646 267	42.88 46	9.694 260	66.10 44	47.489 312	40.67 36	56.55 55	11.49 144
	254	75			298			
26.1	41.900	43.63	9.954	65.66 62	47.787	41.03	57.10	12.93
11 5.1	42.137 237	44.62 99	10.197 243	65.04 76	48.066 279	41.40 37	57.60 50	14.65 172
15.1	42.351 214	45.81 119	10.418 221	64.28 86	48.322 256	41.78 38	58.05 45	16.60 195
25.1	42.539 188	47.14 133	10.613 195	63.42 91	48.548 226	42.18 40	58.45 40	18.77 217
12 5.0	42.695 156	48.55 141	10.776 163	62.51 91	48.738 190	42.61 43	58.76 31	21.10 233
	119	143	127		150	46	24	243
14.9	42.814	49.98	10.903	61.60	48.888	43.07	59.00	23.53
24.9	42.894 80	51.37 139	10.990 87	60.71 89	48.992 104	43.57 50	59.15 15	25.99 246
34.9	42.931 37	52.67 130	11.034 44	59.89 82	49.047 55	44.07 50	59.20 5	28.42 243
平位	s 39.578	″ 49.48	s 7.529	″ 61.98	s 44.958	″ 43.40	s 52.402	″ 23.99
sec δ, tan δ	+ 1.001	− 0.043	+ 1.006	+ 0.110	+ 1.139	+ 0.544	+ 2.204	+ 1.965
2 回正中	12 月 11 日		12 月 11 日		12 月 12 日		12 月 12 日	
a b	+ 0.1505	− 0.0005	+ 0.1606	+ 0.0012	+ 0.1891	+ 0.0059	+ 0.2828	+ 0.0200
a′ b′	+ 0.1665	− 0.9860	+ 0.1645	− 0.9864	+ 0.1618	− 0.9868	+ 0.1527	− 0.9883
FK3番號	200		201		202		203	

星名 / 等級 スペクトル型	β Leps 2.96 G0		δ Orio 2.48 B0		α Leps 2.69 F0		φ¹ Orio 4.53 B0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 5 25	° ′ −20 47	h m 5 29	° ′ − 0 20	h m 5 30	° ′ −17 51	h m 5 31	° ′ + 9 27
	s	″	s	″	s	″	s	″
1 0.9	51.365	80.53	9.119	28.58	16.181	49.44	45.110	4.76
10.9	51.354 11	82.65 212	9.134 15	29.74 116	16.179 2	51.45 201	45.133 23	4.14 62
20.9	51.298 56	84.55 190	9.105 29	30.76 102	16.131 48	53.26 181	45.111 22	3.60 54
30.9	51.199 99	86.17 162	9.032 73	31.63 87	16.040 91	54.80 154	45.045 66	3.17 43
2 9.8	51.062 137	87.47 130	8.922 110	32.32 69	15.911 129	56.05 125	44.940 105	2.82 35
	169	95	141	52	161	92	139	25
19.8	50.893	88.42	8.781	32.84	15.750	56.97	44.801	2.57
29.8	50.702 191	89.03 61	8.615 166	33.17 33	15.566 184	57.57 60	44.637 164	2.41 16
3 10.8	50.497 205	89.27 24	8.435 180	33.32 15	15.367 199	57.82 25	44.458 179	2.33 8
20.7	50.289 208	89.14 13	8.251 184	33.30 2	15.165 202	57.74 8	44.275 183	2.32 1
30.7	50.089 200	88.66 48	8.074 177	33.09 21	14.969 196	57.32 42	44.098 177	2.41 9
	184	82	161	39	180	75	161	17
4 9.7	49.905	87.84	7.913	32.70	14.789	56.57	43.937	2.58
19.7	49.746 159	86.68 116	7.777 136	32.13 57	14.633 156	55.51 106	43.801 136	2.84 26
29.6	49.621 125	85.21 147	7.673 104	31.38 75	14.510 123	54.16 135	43.698 103	3.22 38
5 9.6	49.533 88	83.45 176	7.606 67	30.45 93	14.424 86	52.53 163	43.633 65	3.70 48
19.6	49.488 45	81.44 201	7.580 26	29.36 109	14.379 45	50.66 187	43.610 23	4.30 60
	1	222	16	124	1	208	21	71
29.5	49.437 —	79.22	7.596	28.12	14.378 —	48.58	43.631	5.01
6 8.5	49.531 44	76.84 238	7.655 59	26.74 138	14.421 43	46.34 224	43.694 63	5.84 83
18.5	49.617 86	74.36 248	7.755 100	25.27 147	14.506 85	43.99 235	43.799 105	6.76 92
28.5	49.745 128	71.82 254	7.893 138	23.72 155	14.631 125	41.59 240	43.943 144	7.76 100
7 8.4	49.910 165	69.31 251	8.066 173	22.14 158	14.792 161	39.19 240	44.122 179	8.81 105
	198	243	203	156	195	231	209	107
18.4	50.108	66.88	8.269	20.58	14.987	36.88	44.331	9.88
28.4	50.334 226	64.62 226	8.497 228	19.09 149	15.209 222	34.71 217	44.565 234	10.93 105
8 7.4	50.584 250	62.59 203	8.745 248	17.71 138	15.455 246	32.75 196	44.820 255	11.93 100
17.3	50.852 268	60.86 173	9.010 265	16.50 121	15.718 263	31.08 167	45.091 271	12.83 90
27.3	51.133 281	59.50 136	9.285 275	15.50 100	15.995 277	29.74 134	45.372 281	13.61 78
	290	96	282	75	286	94	289	62
9 6.3	51.423	58.54	9.567	14.75 48	16.281	28.80 52	45.661	14.23
16.2	51.715 292	58.04 50	9.852 285	14.27 18	16.570 289	28.28 7	45.953 292	14.66 43
26.2	52.007 292	58.00 4	10.136 284	14.09 13	16.859 289	28.21 38	46.245 292	14.89 23
10 6.2	52.293 286	58.45 45	10.416 280	14.22 41	17.143 284	28.59 82	46.532 287	14.91 2
16.2	52.568 275	59.34 89	10.687 271	14.63 69	17.418 275	29.41 123	46.812 280	14.73 18
	260	133	259		260		268	36
26.1	52.828	60.67	10.946	15.32	17.678	30.64	47.080	14.37
11 5.1	53.067 239	62.36 169	11.189 243	16.24 92	17.920 242	32.23 159	47.333 253	13.85 52
15.1	53.282 215	64.35 199	11.410 221	17.34 110	18.137 217	34.10 187	47.565 232	13.21 64
25.1	53.466 184	66.57 222	11.606 196	18.58 124	18.326 189	36.19 209	47.771 206	12.49 72
12 5.0	53.615 149	68.92 235	11.770 164	19.90 132	18.481 155	38.41 222	47.946 175	11.73 76
	109	239	129	133	116	226	140	75
15.0	53.724	71.31	11.899	21.23	18.597	40.67	48.086	10.98
24.9	53.790 66	73.66 235	11.987 88	22.52 129	18.671 74	42.89 222	48.184 98	10.26 72
34.9	53.811 21	75.88 222	12.033 46	23.73 121	18.699 28	45.00 211	48.239 55	9.60 66
平位	s 50.682	″ 70.21	s 8.631	″ 20.35	s 15.530	″ 39.59	s 44.651	″ 11.98
sec δ, tan δ	+ 1.070	− 0.380	+ 1.000	− 0.006	+ 1.051	− 0.322	+ 1.014	+ 0.166
2 回正中	12 月 12 日		12 月 13 日		12 月 14 日		12 月 14 日	
a b	+ 0.1283	− 0.0038	+ 0.1529	− 0.0001	+ 0.1320	− 0.0028	+ 0.1643	+ 0.0014
a′ b′	+ 0.1485	− 0.9889	+ 0.1342	− 0.9910	+ 0.1294	− 0.9916	+ 0.1230	− 0.9924
FK3番號	204		206		207		208	

星名 / 等級 スペクトル型	Grb 966 Caml 6.36 K5		ε Orio 2.87 Oe5		β Dora 3.81 F5p		ε Orio 1.75 B0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 5 32	° ′ +75 0	h m 5 32	° ′ − 5 56	h m 5 33	° ′ −62 31	h m 5 33	° ′ − 1 14
	s	″	s	″	s	″	s	″
1 0.9	16.48	37.23	42.058	51.01	10.76	46.42	22.713	18.23
10.9	16.42 6	40.10 287	42.071 13	52.47 146	10.60 16	49.56 314	22.731 18	19.45 122
20.9	16.18 24	42.78 268	42.040 31	53.77 130	10.35 25	52.38 282	22.704 27	20.52 107
30.9	15.80 38	45.17 239	41.966 74	54.88 111	10.03 32	54.79 241	22.635 69	21.44 92
2 9.9	15.27 53	47.18 201	41.854 112	55.77 89	9.64 39	56.73 194	22.526 109	22.17 73
	64	157	144	67	44	143	140	55
19.8	14.63	48.75	41.710	56.44	9.20	58.16	22.386	22.72
29.8	13.91 72	49.81 106	41.541 169	56.87 43	8.73 47	59.05 89	22.221 165	23.03 36
3 10.8	13.14 77	50.33 52	41.359 182	57.07 20	8.23 50	59.40 35	22.041 180	23.24 16
20.7	12.37 77	50.30 3	41.171 188	57.04 3	7.73 50	59.20 20	21.857 184	23.22 2
30.7	11.61 76	49.76 54	40.990 181	56.77 27	7.24 49	58.45 75	21.678 179	23.01 21
	69	109	166	50	47	126	163	40
4 9.7	10.92	48.67	40.824	56.27	6.77	57.19	21.515	22.61
19.7	10.31 61	47.15 152	40.682 142	55.54 73	6.35 42	55.45 174	21.377 138	22.02 59
29.6	9.82 49	45.25 190	40.572 110	54.59 95	5.98 37	53.26 219	21.269 108	21.24 78
5 9.6	9.46 36	43.06 219	40.498 74	53.44 115	5.67 31	50.68 258	21.199 70	20.29 95
19.6	9.24 22	40.64 242	40.465 33	52.09 135	5.44 23	47.77 291	21.169 30	19.17 112
	6	254	9	152	16	319	12	128
29.6	9.18 —	38.10	40.474	50.57	5.28 —	44.58	21.181	17.89
6 8.5	9.28 10	35.50 260	40.526 52	48.92 165	5.20 8	41.19 339	21.236 55	16.48 141
18.5	9.52 24	32.94 256	40.618 92	47.15 177	5.21 1	37.70 349	21.331 95	14.96 152
28.5	9.92 40	30.49 245	40.749 131	45.32 183	5.29 8	34.17 353	21.465 134	13.38 158
7 8.4	10.44 52	28.21 228	40.915 166	43.47 185	5.46 17	30.72 345	21.633 168	11.77 161
	65	205	196	181	24	329	199	159
18.4	11.09	26.16	41.111	41.66	5.70	27.43	21.832	10.18
28.4	11.84 75	24.39 177	41.334 223	39.94 172	6.01 31	24.39 304	22.056 224	8.66 152
8 7.4	12.69 85	22.94 145	41.578 244	38.37 157	6.39 38	21.71 268	22.302 246	7.26 140
17.3	13.60 91	21.83 111	41.838 260	37.00 137	6.81 42	19.47 224	22.563 261	6.02 124
27.3	14.57 97	21.09 74	42.111 273	35.89 111	7.27 46	17.74 173	22.337 274	5.01 101
	101	35	280	82	50	116	280	76
9 6.3	15.58	20.74 —	42.391	35.07	7.77	16.58	23.117	4.25
16.3	16.61 103	20.79 5	42.675 284	34.58 49	8.28 51	16.05 53	23.402 285	3.78 47
26.2	17.64 103	21.24 45	42.958 283	34.43 15	8.79 51	16.17 12	23.686 284	3.61 17
10 6.2	18.65 101	22.09 85	43.238 280	34.64 21	9.29 50	16.95 78	23.967 281	3.75 14
16.2	19.63 98	23.33 124	43.509 271	35.20 56	9.76 47	18.34 139	24.239 272	4.20 45
	93	161	259	87	44	199	261	72
26.1	20.56	24.94	43.768	36.07	10.20	20.33	24.500	4.92
11 5.1	21.42 86	26.91 197	44.011 243	37.22 115	10.58 38	22.82 249	24.745 245	5.88 96
15.1	22.19 77	29.20 229	44.233 222	38.59 137	10.90 32	25.74 292	24.970 225	7.04 116
25.1	22.84 65	31.76 256	44.428 195	40.12 153	11.14 24	28.98 324	25.168 198	8.34 130
12 5.0	23.36 52	34.54 278	44.591 163	41.75 163	11.30 16	32.41 343	25.336 168	9.71 137
	37	292	128	166	7	350	132	140
15.0	23.73	37.46	44.719	43.41	11.37 —	35.91	25.468	11.11
24.9	23.95 22	40.44 298	44.806 87	45.03 162	11.35 2	39.36 345	25.560 92	12.47 136
34.9	23.99 4	43.39 295	44.850 44	46.56 153	11.25 10	42.64 328	25.608 48	13.74 127
平位	s 13.364	″ 39.08	s 41.527	″ 42.32	s 8.151	″ 34.21	s 22.213	″ 10.00
sec δ, tan δ	+ 3.867	+ 3.735	+ 1.005	− 0.104	+ 2.168	− 1.923	+ 1.000	− 0.022
2 回正中	12 月 14 日		12 月 14 日		12 月 14 日		12 月 14 日	
a b	+ 0.4005	+ 0.0301	+ 0.1464	− 0.0008	+ 0.0260	− 0.0150	+ 0.1519	− 0.0002
a′ b′	+ 0.1209	− 0.9927	+ 0.1189	− 0.9929	+ 0.1170	− 0.9931	+ 0.1159	− 0.9933
FK3番號	205		209		212		210	

星名	γ Mens		ζ Taur		† σ Orio *m*		α Colm	
等級 スペクトル型	5.06	K0	3.00	B3p	3.78	B0	2.75	B5p
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 5 33	° ′ −76 22	h m 5 34	° ′ +21 6	h m 5 35	° ′ − 2 37	h m 5 37	° ′ −34 5
	s	″	s	″	s	″	s	″
1 0.9	71.48	67.51	18.216	30.58	56.494	59.28	38.161	80.74
10.9	71.05 43	70.59 308	18·243 27	30.64 6	56.513 19	60.58 130	38.137 24	83.41 267
20.9	70.46 59	73.36 277	18.222 21	30.73 9	56.487 26	61.73 115	38.062 75	85.82 241
30.9	69.73 73	75.71 235	18.154 68	30.83 10	56.418 69	62.71 98	37.939 123	87.90 208
2 9.9	68.88 85	77.60 189	18.043 111	30.95 12	56.310 108	63.50 79	37.774 165	89.59 169
	93	139	145	9	140	59	201	128
19.8	67.95	78.99 85	17.898	31.04 7	56.170	64.09	37.573	90.87
29.8	66.95 100	79.84 30	17.726 172	31.11 3	56.005 165	64.48 39	37.347 226	91.70 83
3 10.8	65.92 103	80.14 23	17.538 188	31.14 2	55.825 180	64.66 18	37.104 243	92.03 38
20.7	64.88 104	79.91 77	17.345 193	31.12 5	55.640 185	64.64 2	36.856 248	92.01 7
30.7	63.86 102	79.14 127	17.160 185	31.07 8	55.460 180	64.42 22	36.614 242	91.49 52
	97		169		165	43	226	94
4 9.7	62.89	77.87	16.991	30.99	55.295	63.99	36.388	90.55
19.7	61.99 90	76.12 175	16.850 141	30.89 10	55.155 140	63.37 62	36.188 200	89.19 136
29.6	61.19 80	73.94 218	16.744 106	30.81 8	55.045 110	62.55 82	36.021 167	87.44 175
5 9.6	60.50 69	71.36 258	16.678 66	30.76 5	54.971 74	61.54 101	35.894 127	85.35 209
19.6	59.94 56	68.46 290	16.657 21	30.76 0	54.938 33	60.36 118	35.811 83	82.96 239
	42	317	25	7	10	134	35	264
29.6	59.52	65.29	16.682	30.83	54.948	59.02	35.776	80.32
6 8.5	59.25 27	61.94 335	16.754 72	30.97 14	54.999 51	57.54 148	35.789 13	77.49 283
18.5	59.15 10	58.48 346	16.869 115	31.20 23	55.091 92	55.96 158	35.849 60	74.54 295
28.5	59.20 5	55.00 348	17.025 156	31.51 31	55.221 130	54.31 165	35.956 107	71.54 300
7 8.4	59.41 21	51.58 342	17.217 192	31.90 39	55.386 165	52.64 167	36.105 149	68.56 298
	37	325	225	46	196	165	190	286
18.4	59.78	48.33	17.442	32.36	55.582	50.99	36.295	65.70
28.4	60.28 50	45.34 299	17.693 251	32.85 49	55.804 222	49.41 158	36.519 224	63.04 266
8 7.4	60.92 64	42.69 265	17.966 273	33.36 51	56.047 243	47.96 145	36.772 253	60.66 238
17.3	61.66 74	40.49 220	18.255 289	33.87 51	56.307 260	46.69 127	37.050 278	58.63 203
27.3	62.50 84	38.79 170	18.556 301	34.35 48	56.579 272	45.65 104	37.347 297	57.03 160
	90	113	307	42	279	77	310	112
9 6.3	63.40	37.66	18.863	34.77 36	56.858	44.88	37.657	55.91
16.3	64.34 94	37.15 51	19.174 311	35.13 27	57.142 284	44.40 48	37.973 316	55.33 58
26.2	65.28 94	37.29 14	19.484 310	35.40 19	57.427 285	44.24 16	38.291 318	55.30 3
10 6.2	66.20 92	38.07 78	19.790 306	35.59 10	57.707 280	44.41 17	38.604 313	55.84 54
16.2	67.06 86	39.46 139	20.088 298	35.69 2	57.980 273	44.89 48	38.906 302	56.92 108
	79	198	286		262	77	286	159
26.1	67.85	41.44	20.374	35.71 1	58.242	45.66	39.192	58.51
11 5.1	68.52 67	43.92 248	20.644 270	35.68 3	58.488 246	46.68 102	39.454 262	60.55 204
15.1	69.05 53	46.82 290	20.892 248	35.61 7	58.714 226	47.91 123	39.688 234	62.97 242
25.1	69.42 37	50.02 320	21.113 221	35.53 8	58.914 200	49.28 137	39.886 198	65.66 269
12 5.0	69.63 21	53.41 339	21.301 188	35.46 7	59.083 169	50.74 146	40.043 157	68.54 288
	3	346	150	4	133	148	111	295
15.0	69.66 —	56.87	21.451	35.42 1	59.216	52.22	40.154	71.49
24.9	69.51 15	60.27 340	21.559 108	35.41 1	59.309 93	53.67 145	40.217 63	74.40 291
34.9	69.18 33	63.50 323	21.619 60	35.46 5	59.359 50	55.03 136	40.227 10	77.18 278
平位	s 65.453	″ 55.24	s 17.748	″ 36.68	s 55.980	″ 50.98	s 37.174	″ 70.12
sec δ, tan δ	+ 4.247	− 4.128	+ 1.072	+ 0.386	+ 1.001	− 0.046	+ 1.208	− 0.677
2 回正中	12 月 14 日		12 月 15 日		12 月 15 日		12 月 15 日	
a b	− 0.1201	− 0.0310	+ 0.1789	+ 0.0029	+ 0.1503	− 0.0003	+ 0.1084	− 0.0044
a′ b′	+ 0.1128	− 0.9936	+ 0.1119	− 0.9937	+ 0.1048	− 0.9945	+ 0.0975	− 0.9952
FK3番號	214		211		213		215	

星名	o Auri		γ Leps		130 Taur		ζ Leps	
等級 スペクトル型	5.52	A0	3.80	F8	5.51	F0	3.67	A2
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 5 41	° ′ +49 48	h m 5 42	° ′ −22 27	h m 5 44	° ′ +17 42	h m 5 44	° ′ −14 50
	s	″	s	″	s	″	s	″
1 0.9	34.395	10.99	8.410	64.99	10.633	29.03	25.636	38.39
10.9	34.430 35	12.70 171	8.410 0	67.27 228	10.672 39	28.87 16	25.651 15	40.34 195
20.9	34.396 34	14.34 164	8.363 47	69.32 205	10.663 9	28.77 10	25.619 32	42.08 174
30.9	34.294 102	15.82 148	8.271 92	71.09 177	10.606 57	28.72 5	25.543 76	43.59 151
2 9.9	34.130 164	17.10 128	8.138 133	72.53 144	10.507 99	28.71 1	25.427 116	44.83 124
	215	103	166	110	136	2	149	94
19.8	33.915	18.13	7.972	73.63	10.371	28.73	25.278	45.77
29.8	33.661 254	18.84 71	7.781 191	74.36 73	10.207 164	28.76 3	25.102 176	46.40 63
3 10.8	33.382 279	19.23 39	7.574 207	74.72 36	10.026 181	28.78 2	24.911 191	46.71 31
20.7	33.094 288	19.28 5	7.360 214	74.70 2	9.837 189	28.80 2	24.713 198	46.72 1
30.7	32.814 280	18.99 29	7.152 208	74.31 39	9.653 184	28.82 2	24.519 194	46.41 31
	258	59	194	75	169	2	180	62
4 9.7	32.556	18.40	6.958	73.56	9.484	28.84	24.339	45.79
19.7	32.335 221	17.53 87	6.788 170	72.46 110	9.339 145	28.88 4	24.181 158	44.89 90
29.6	32.160 175	16.42 111	6.650 138	71.04 142	9.227 112	28.94 6	24.054 127	43.70 119
5 9.6	32.041 119	15.14 128	6.547 103	69.32 172	9.152 75	29.06 12	23.962 92	42.25 145
19.6	31.983 58	13.74 140	6.486 61	67.33 199	9.121 31	29.23 17	23.910 52	40.56 169
	7	146	17	221	12	25	11	189
29.6	31.990	12.28	6.469	65.12	9.133	29.48	23.899	38.67
6 8.5	32.061 71	10.80 148	6.495 26	62.74 238	9.190 57	29.80 32	23.932 33	36.62 205
18.5	32.195 134	9.37 143	6.565 70	60.24 250	9.290 100	30.21 41	24.006 74	34.46 216
28.5	32.388 193	8.02 135	6.677 112	57.68 256	9.430 140	30.69 48	24.120 114	32.22 224
7 8.4	32.634 246	6.79 123	6.826 149	55.13 255	9.607 177	31.23 54	24.270 150	29.98 224
	294	108	184	247	209	59	183	218
18.4	32.928	5.71	7.010	52.66	9.816	31.82	24.453	27.80
28.4	33.263 335	4.81 90	7.225 215	50.35 231	10.051 235	32.42 60	24.664 211	25.74 206
8 7.4	33.632 369	4.08 73	7.464 239	48.26 209	10.309 258	33.02 60	24.899 235	23.87 187
17.3	34.027 395	3.56 52	7.725 261	46.48 178	10.585 276	33.59 57	25.154 255	22.25 162
27.3	34.443 416	3.23 33	8.001 276	45.05 143	10.874 289	34.10 51	25.423 269	20.95 130
	429	12	287	101	298	42	280	95
9 6.3	34.872	3.11 —	8.288	44.04	11.172	34.52	25.703	20.00
16.3	35.310 438	3.19 8	8.580 292	43.49 55	11.474 302	34.83 31	25.988 285	19.45 55
26.2	35.749 439	3.47 28	8.875 295	43.42 7	11.778 304	35.03 20	26.275 287	19.33 12
10 6.2	36.185 436	3.95 48	9.166 291	43.85 43	12.081 303	35.10 7	26.560 285	19.64 31
16.2	36.611 426	4.63 68	9.448 282	44.74 89	12.377 296	35.06 4	26.838 278	20.37 73
	410	87	270	134	286	15	267	112
26.1	37.021	5.50	9.718	46.08	12.663	34.91	27.105	21.49
11 5.1	37.408 387	6.56 106	9.968 250	47.81 173	12.935 272	34.67 24	27.355 250	22.96 147
15.1	37.765 357	7.81 125	10.195 227	49.87 206	13.188 253	34.38 29	27.584 229	24.72 176
25.1	38.081 316	9.22 141	10.393 198	52.17 230	13.416 228	34.06 32	27.786 202	26.68 196
12 5.0	38.351 270	10.77 155	10.555 162	54.62 245	13.612 196	33.74 32	27.956 170	28.78 210
	214	167	123	252	160	28	132	216
15.0	38.565	12.44	10.678	57.14	13.772	33.46	28.088	30.94
24.9	38.717 152	14.17 173	10.757 79	59.63 249	13.890 118	33.21 25	28.179 91	33.06 212
34.9	38.800 83	15.92 175	10.789 32	62.00 237	13.962 72	33.03 18	28.224 45	35.09 203
平位	s 33.541	″ 14.88	s 7.663	″ 55.30	s 10.162	″ 35.50	s 24.994	″ 29.41
sec δ, tan δ	+ 1.549	+ 1.184	+ 1.082	− 0.414	+ 1.050	+ 0.319	+ 1.035	− 0.265
2 回正中	12 月 16 日		12 月 17 日		12 月 17 日		12 月 17 日	
a b	+ 0.2320	+ 0.0063	+ 0.1258	− 0.0021	+ 0.1746	+ 0.0015	+ 0.1357	− 0.0012
a′ b′	+ 0.0804	− 0.9968	+ 0.0779	− 0.9970	+ 0.0690	− 0.9976	+ 0.0680	− 0.9977
FK3番號	216		217		218		219	

星名		ν Auri		δ Leps		β Colm	
等級	スペクトル型	4.18	K0	3.90	K0	3.22	K0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 5 47	° ′ +39 7	h m 5 48	° ′ −20 52	h m 5 48	° ′ −35 47
		s	″	s	″	s	″
1	0.9	37.016 47	58.16 112	55.466	66.21 226	60.096	27.60
	10.9	37.063 13	59.28 109	55.477 11	68.47 204	60.081 15	30.38 278
	20.9	37.050 70	60.37 102	55.441 36	70.51 177	60.012 69	32.90 252
	30.9	36.980 123	61.39 90	55.359 82	72.28 146	59.894 118	35.10 220
2	9.9	36.857 168	62.29 73	55.237 122 158	73.74 113	59.731 163 201	36.91 181 140
	19.8	36.689 202	63.02 54	55.079 184	74.87 78	59.530 229	38.31 96
	29.8	36.487 225	63.56 32	54.895 201	75.65 41	59.301 248	39.27 49
3	10.8	36.262 234	63.88 8	54.694 209	76.06 6	59.053 254	39.76 4
	20.8	36.028 229	63.96 14	54.485 205	76.12 31	58.799 251	39.80 43
	30.7	35.799 212	63.82 36	54.280 192	75.81 66	58.543 237	39.37 87
	9.7	35.587 183	63.46 55	54.088 170	75.15 100	58.311 213	38.50 129
	19.7	35.404 143	62.91 70	53.918 139	74.15 132	58.098 180	37.21 169
5	9.6	35.261 98	62.21 82	53.779 105	72.83 161	57.918 142	35.52 205
	19.6	35.163 46	61.39 88	53.674 64	71.22 187	57.776 98	33.47 237
		35.117 8	60.51 91	53.610 21	69.35 210	57.678 51	31.10 263
	29.6	35.125 62	59.60 90	53.589 21	67.25 228	57.627 3	28.47 284
6	8.5	35.187 114	58.70 86	53.610 65	64.97 241	57.624 46	25.63 298
	18.5	35.301 163	57.84 79	53.675 105	62.56 247	57.670 93	22.65 304
	28.5	35.464 208	57.05 69	53.780 143	60.09 247	57.763 137	19.61 303
7	8.5	35.672 249	56.36 58	53.923 179	57.62 240	57.900 178	16.58 293
	18.4	35.921 281	55.78 46	54.102 207	55.22 227	58.078 214	13.65 274
	28.4	36.202 310	55.32 35	54.309 234	52.95 205	58.292 247	10.91 247
8	7.4	36.512 333	54.97 23	54.543 256	50.90 177	58.539 273	8.44 213
	17.3	36.845 350	54.74 11	54.799 271	49.13 142	58.812 294	6.31 170
	27.3	37.195 361	54.63 1	55.070 284	47.71 102	59.106 310	4.61 121
	6.3	37.556 368	54.62 10	55.354 290	46.69 57	59.416 319	3.40 68
	16.3	37.924 372	54.72 20	55.644 294	46.12 11	59.735 324	2.72 12
	26.2	38.296 369	54.92 29	55.938 292	46.01 37	60.059 320	2.60 46
10	6.2	38.665 363	55.21 39	56.230 285	46.38 84	60.379 312	3.06 102
	16.2	39.028 351	55.60 49	56.515 273	47.22 128	60.691 296	4.08 155
	26.2	39.379 334	56.09 61	56.788 256	48.50 167	60.987 275	5.63 201
11	5.1	39.713 310	56.70 70	57.044 234	50.17 199	61.262 246	7.64 241
	15.1	40.023 279	57.40 83	57.278 206	52.16 223	61.508 211	10.05 272
	25.1	40.302 241	58.23 92	57.484 173	54.39 240	61.719 170	12.77 292
12	5.0	40.543 195	59.15 102	57.657 133	56.79 246	61.889 124	15.69 301
	15.0	40.738 144	60.17 109	57.790 90	59.25 245	62.013 73	18.70 300
	24.9	40.882 88	61.26 113	57.880 43	61.70 234	62.086 20	21.70 288
	34.9	40.970	62.39	57.923	64.04	62.106	24.58
平位		s 36.388	″ 63.06	s 54.729	″ 57.07	s 59.029	″ 17.70
sec δ, tan δ		+ 1.289	+ 0.814	+ 1.070	− 0.382	+ 1.233	− 0.721
2 回正中		12 月 18 日		12 月 18 日		12 月 18 日	
a	b	+ 0.2075	+ 0.0029	+ 0.1279	− 0.0012	+ 0.1053	− 0.0023
a′	b′	+ 0.0541	− 0.9985	+ 0.0484	− 0.9988	+ 0.0480	− 0.9988
FK3番號		221		222		223	

星名		x Orio		ν Auri		δ Leps		β Colm	
等級	スペクトル型	2.20	B0	4.18	K0	3.90	K0	3.22	K0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 5 45	° ′ −9 41	h m 5 47	° ′ +39 7	h m 5 48	° ′ −20 52	h m 5 48	° ′ −35 47
		s	″	s	″	s	″	s	″
1	0.9	6.539 21	25.75 169	37.016 47	58.16 112	55.466	66.21 226	60.096	27.60
	10.9	6.560 25	27.44 152	37.063 13	59.28 109	55.477 11	68.47 204	60.081 15	30.38 278
	20.9	6.535 69	28.96 131	37.050 70	60.37 102	55.441 36	70.51 177	60.012 69	32.90 252
	30.9	6.466 108	30.27 106	36.980 123	61.39 90	55.359 82	72.28 146	59.894 118	35.10 220
2	9.9	6.358 143	31.33 82	36.857 168	62.29 73	55.237 122 158	73.74 113	59.731 163 201	36.91 181 140
	19.8	6.215 168	32.15 54	36.689 202	63.02 54	55.079 184	74.87 78	59.530 229	38.31 96
	29.8	6.047 185	32.69 27	36.487 225	63.56 32	54.895 201	75.65 41	59.301 248	39.27 49
3	10.8	5.862 191	32.96 1	36.262 234	63.88 8	54.694 209	76.06 6	59.053 254	39.76 4
	20.8	5.671 187	32.97 27	36.028 229	63.96 14	54.485 205	76.12 31	58.799 251	39.80 43
	30.7	5.484 174	32.70 52	35.799 212	63.82 36	54.280 192	75.81 66	58.543 237	39.37 87
	9.7	5.310 151	32.18 79	35.587 183	63.46 55	54.088 170	75.15 100	58.311 213	38.50 129
	19.7	5.159 121	31.39 102	35.404 143	62.91 70	53.918 139	74.15 132	58.098 180	37.21 169
5	9.6	5.038 86	30.37 126	35.261 98	62.21 82	53.779 105	72.83 161	57.918 142	35.52 205
	19.6	4.952 47	29.11 146	35.163 46	61.39 88	53.674 64	71.22 187	57.776 98	33.47 237
		4.905 5	27.65 166	35.117 8	60.51 91	53.610 21	69.35 210	57.678 51	31.10 263
	29.6	4.900 37	25.99 180	35.125 62	59.60 90	53.589 21	67.25 228	57.627 3	28.47 284
6	8.5	4.937 78	24.19 192	35.187 114	58.70 86	53.610 65	64.97 241	57.624 46	25.63 298
	18.5	5.015 117	22.27 199	35.301 163	57.84 79	53.675 105	62.56 247	57.670 93	22.65 304
	28.5	5.132 152	20.28 200	35.464 208	57.05 69	53.780 143	60.09 247	57.763 137	19.61 303
7	8.5	5.284 185	18.28 196	35.672 249	56.36 58	53.923 179	57.62 240	57.900 178	16.58 293
	18.4	5.469 212	16.32 185	35.921 281	55.78 46	54.102 207	55.22 227	58.078 214	13.65 274
	28.4	5.681 234	14.47 169	36.202 310	55.32 35	54.309 234	52.95 205	58.292 247	10.91 247
8	7.4	5.915 254	12.78 147	36.512 333	54.97 23	54.543 256	50.90 177	58.539 273	8.44 213
	17.3	6.169 267	11.31 120	36.845 350	54.74 11	54.799 271	49.13 142	58.812 294	6.31 170
	27.3	6.436 278	10.11 88	37.195 361	54.63 1	55.070 284	47.71 102	59.106 310	4.61 121
	6.3	6.714 283	9.23 51	37.556 368	54.62 10	55.354 290	46.69 57	59.416 319	3.40 68
	16.3	6.997 285	8.72 14	37.924 372	54.72 20	55.644 294	46.12 11	59.735 324	2.72 12
	26.2	7.282 283	8.58 26	38.296 369	54.92 29	55.938 292	46.01 37	60.059 320	2.60 46
10	6.2	7.565 276	8.84 63	38.665 363	55.21 39	56.230 285	46.38 84	60.379 312	3.06 102
	16.2	7.841 266	9.47 98	39.028 351	55.60 49	56.515 273	47.22 128	60.691 296	4.08 155
	26.2	8.107 250	10.45 129	39.379 334	56.09 61	56.788 256	48.50 167	60.987 275	5.63 201
11	5.1	8.357 230	11.74 155	39.713 310	56.70 70	57.044 234	50.17 199	61.262 246	7.64 241
	15.1	8.587 204	13.29 174	40.023 279	57.40 83	57.278 206	52.16 223	61.508 211	10.05 272
	25.1	8.791 173	15.03 185	40.302 241	58.23 92	57.484 173	54.39 240	61.719 170	12.77 292
12	5.0	8.964 137	16.88 189	40.543 195	59.15 102	57.657 133	56.79 246	61.889 124	15.69 301
	15.0	9.101 96	18.77 186	40.738 144	60.17 109	57.790 90	59.25 245	62.013 73	18.70 300
	24.9	9.197 52	20.63 177	40.882 88	61.26 113	57.880 43	61.70 234	62.086 20	21.70 288
	34.9	9.249	22.40	40.970	62.39	57.923	64.04	62.106	24.58
平位		s 5.953	″ 17.15	s 36.388	″ 63.06	s 54.729	″ 57.07	s 59.029	″ 17.70
sec δ, tan δ		+ 1.014	− 0.171	+ 1.289	+ 0.814	+ 1.070	− 0.382	+ 1.233	− 0.721
2 回正中		12 月 17 日		12 月 18 日		12 月 18 日		12 月 18 日	
a	b	+ 0.1420	− 0.0007	+ 0.2075	+ 0.0029	+ 0.1279	− 0.0012	+ 0.1053	− 0.0023
a′	b′	+ 0.0650	− 0.9979	+ 0.0541	− 0.9985	+ 0.0484	− 0.9988	+ 0.0480	− 0.9988
FK3番號		220		221		222		223	

星名		α Orio		η Leps		δ Auri		β Auri	
等級	スペクトル型	0.1—1.2	M0	3.77	F0	3.88	K0	2.07	A0p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 5 52	° ′ +7 23	h m 5 53	° ′ −14 10	h m 5 54	° ′ +54 16	h m 5 55	° ′ +44 56
		s	″	s	″	s	″	s	″
1	0.9	8.817 41	46.67 78	51.823 24	44.15 194	55.875 54	54.12 196	25.903 57	33.54 145
	10.9	8.858 5	45.89 68	51.847 23	46.09 176	55.929 24	56.08 189	25.965 9	34.99 142
	20.9	8.853 51	45.21 55	51.824 67	47.85 153	55.905 100	57.97 175	25.956 72	36.41 133
	30.9	8.802 93	44.66 43	51.757 109	49.38 125	55.805 170	59.72 154	25.884 131	37.74 118
2	9.9	8.709 129	44.23 32	51.648 144	50.63 97	55.635 230	61.26 127	25.753 182	38.92 97
	19.8	8.580 156	43.91 19	51.504 171	51.60 66	55.405 275	62.53 93	25.571 220	39.89 74
	29.8	8.424 175	43.72 9	51.333 189	52.26 36	55.130 307	63.46 58	25.351 247	40.63 46
3	10.8	8.249 183	43.63 1	51.144 197	52.62 5	54.823 320	64.04 20	25.104 259	41.09 17
	20.8	8.066 180	43.64 12	50.947 194	52.67 26	54.503 315	64.24 17	24.845 255	41.26 12
	30.7	7.886 167	43.76 22	50.753 182	52.41 56	54.188 296	64.07 54	24.590 238	41.14 39
	9.7	7.719 145	43.98 33	50.571 161	51.85 85	53.892 259	63.53 87	24.352 208	40.75 64
	19.7	7.574 115	44.31 45	50.410 132	51.00 113	53.633 211	62.66 114	24.144 167	40.11 85
5	9.6	7.459 80	44.76 55	50.278 98	49.87 138	53.422 153	61.52 138	23.977 118	39.26 101
	19.6	7.379 39	45.31 68	50.180 58	48.49 162	53.269 87	60.14 154	23.859 63	38.25 113
		7.340 2	45.99 79	50.122 18	46.87 182	53.182 18	58.60 165	23.796 6	37.12 120
	29.6	7.342	46.78 89	50.104 25	45.05 199	53.164 52	56.95 171	23.790 53	35.92 122
6	8.5	7.386 44	47.67 98	50.129 66	43.06 211	53.216 121	55.24 169	23.843 110	34.70 119
	18.5	7.471 85	48.65 105	50.195 105	40.95 218	53.337 186	53.55 163	23.953 164	33.51 114
	28.5	7.594 123	49.70 110	50.300 142	38.77 220	53.523 246	51.92 154	24.117 214	32.37 105
7	8.5	7.753 159 191	50.80 110	50.442 175	36.57 214	53.769 301	50.38 139	24.331 258	31.32 93
	18.4	7.944 217	51.90 107	50.617 203	34.43 204	54.070 349	48.99 123	24.589 296	30.39 81
	28.4	8.161 240	52.97 101	50.820 229	32.39 185	54.419 388	47.76 103	24.885 329	29.58 66
8	7.4	8.401 258	53.98 89	51.049 249	30.54 161	54.807 421	46.73 83	25.214 355	28.92 51
	17.3	8.659 272	54.87 76	51.298 264	28.93 131	55.228 447	45.90 61	25.569 375	28.41 36
	27.3	8.931 282	55.63 57	51.562 276	27.62 96	55.675 465	45.29 37	25.944 390	28.05 20
	6.3	9.213 288	56.20 37	51.838 284	26.66 56	56.140 478	44.92 14	26.334 400	27.85 5
	16.3	9.501 290	56.57 15	52.122 287	26.10 15	56.618 484	44.78 9	26.734 404	27.80 10
	26.2	9.791 290	56.72 8	52.409 286	25.95 28	57.102 482	44.87 34	27.138 404	27.90 26
10	6.2	10.081 285	56.64 30	52.695 281	26.23 70	57.584 475	45.21 58	27.542 398	28.16 42
	16.2	10.366 277	56.34 51	52.976 271	26.93 109	58.059 460	45.79 83	27.940 386	28.58 57
	26.2	10.643 263	55.83 68	53.247 256	28.02 143	58.519 437	46.62 106	28.326 369	29.15 74
11	5.1	10.906 246	55.15 81	53.503 236	29.45 172	58.956 405	47.68 129	28.695 343	29.89 90
	15.1	11.152 221	54.34 91	53.739 210	31.17 194	59.361 363	48.97 151	29.038 310	30.79 105
	25.1	11.373 193	53.43 95	53.949 179	33.11 209	59.724 312	50.48 169	29.348 269	31.84 120
12	5.0	11.566 157	52.48 94	54.128 142	35.20 213	60.036 251	52.17 184	29.617 219	33.04 132
	15.0	11.723 117	51.54 91	54.270 101	37.33 212	60.287 183	54.01 194	29.836 164	34.36 142
	24.9	11.840 73	50.63 83	54.371 55	39.45 203	60.470 107	55.95 198	30.000 101	35.78 145
	34.9	11.913	49.80	54.426	41.48	60.577	57.93	30.101	37.23
平位		s 8.331	″ 53.89	s 51.173	″ 35.62	s 54.878	″ 58.36	s 25.178	″ 38.34
sec δ, tan δ		+ 1.008	+ 0.130	+ 1.031	− 0.253	+ 1.713	+ 1.391	+ 1.413	+ 0.998
2 回正中		12 月 19 日		12 月 20 日		12 月 20 日		12 月 20 日	
a	b	+ 0.1620	+ 0.0003	+ 0.1365	− 0.0005	+ 0.2460	+ 0.0021	+ 0.2199	+ 0.0013
a′	b′	+ 0.0343	− 0.9994	+ 0.0268	− 0.9996	+ 0.0222	− 0.9998	+ 0.0200	− 0.9998
FK3番號		224		226		225		227	

星名	† ϑ Auri		η Colm		66 Orio		1 G. Pupp	
等級	2.71		4.03		5.70		6.22	
スペクトル型	A0p		K0		K0		F8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 5 55	° ′ +37 12	h m 5 57	° ′ −42 48	h m 6 1	° ′ + 4 9	h m 6 2	° ′ −45 1
	s	″	s	″	s	″	s	″
1 0.9	54.676	33.17	27.194	72.08	61.238	41.03	53.061	76.58
10.9	54.733 57	34.17 100	27.170 24	75.11 303	61.286 48	40.03 100	53.037 24	79.68 310
20.9	54.731 2	35.17 100	27.088 82	77.88 277	61.287 1	39.16 87	52.953 84	82.54 286
30.9	54.672 59	36.12 95	26.951 137	80.32 244	61.243 44	38.43 73	52.811 142	85.07 253
2 9.9	54.561 111	36.97 85	26.764 187	82.37 205	61.155 88	37.85 58	52.617 194	87.19 212
	157	72	228	160	124	42	236	169
19.8	54.404	37.69	26.536	83.97	61.031	37.43	52.381	88.88
29.8	54.212 192	38.24 55	26.277 259	85.10 113	60.879 152	37.15 28	52.110 271	90.09 121
3 10.8	53.996 216	38.59 35	25.996 281	85.75 65	60.706 173	37.01 14	51.817 293	90.80 71
20.8	53.770 226	38.73 14	25.706 290	85.89 14	60.524 182	37.01 0	51.514 303	91.01 21
30.7	53.546 224	38.67 6	25.419 287	85.55 34	60.343 181	37.15 14	51.212 302	90.72 29
	209	27	274	83	170	27	290	78
4 9.7	53.337	38.40	25.145	84.72	60.173	37.42	50.922	89.94
19.7	53.156 181	37.95 45	24.895 250	83.44 128	60.024 149	37.83 41	50.656 266	88.69 125
29.7	53.012 144	37.36 59	24.678 217	81.72 172	59.903 121	38.37 54	50.423 233	87.00 169
5 9.6	52.911 101	36.66 70	24.501 177	79.62 210	59.816 87	39.04 67	50.230 193	84.90 210
19.6	52.859 52	35.89 77	24.370 131	77.17 245	59.767 49	39.85 81	50.084 146	82.45 245
	0	81	81	274	8	93	96	276
29.6	52.859	35.08	24.289	74.43	59.759	40.78	49.988	79.69
6 8.5	52.911 52	34.28 80	24.260 29	71.46 297	59.793 34	41.83 105	49.945 43	76.70 299
18.5	53.014 103	33.51 77	24.283 23	68.33 313	59.866 73	42.97 114	49.957 12	73.54 316
28.5	53.166 152	32.81 70	24.358 75	65.13 320	59.979 113	44.17 120	50.022 65	70.30 324
7 8.5	53.361 195	32.18 63	24.483 125	61.94 319	60.126 147	45.41 124	50.138 116	67.05 325
	234	53	171	310	179	124	165	315
18.4	53.595	31.65	24.654	58.84	60.305	46.65	50.303	63.90
28.4	53.864 269	31.21 44	24.867 213	55.93 291	60.512 207	47.84 119	50.513 210	60.92 298
8 7.4	54.160 296	30.88 33	25.118 251	53.30 263	60.742 230	48.95 111	50.763 250	58.22 270
17.4	54.480 320	30.64 24	25.401 283	51.02 228	60.992 250	49.94 99	51.047 284	55.87 235
27.3	54.817 337	30.50 14	25.710 309	49.19 183	61.256 264	50.75 81	51.360 313	53.97 190
	350	6	329	133	276	61	335	140
9 6.3	55.167	30.44 2	26.039	47.86 76	61.532	51.36	51.695	52.57
16.3	55.526 359	30.46 11	26.381 342	47.10 17	61.815 283	51.73 37	52.045 350	51.74 83
26.2	55.888 362	30.57 18	26.729 348	46.93 44	62.103 288	51.86 13	52.403 358	51.52 22
10 6.2	56.251 363	30.75 26	27.077 348	47.37 104	62.391 288	51.71 15	52.761 358	51.91 39
16.2	56.608 357	31.01	27.415 338	48.41	62.677 286	51.32 39	53.111 350	52.91 100
	348	35	323	160	278	63	335	158
26.2	56.956	31.36	27.738	50.01	62.955	50.69	53.446	54.49
11 5.1	57.288 332	31.81 45	28.037 299	52.12 211	63.221 266	49.86 83	53.756 310	56.59 210
15.1	57.598 310	32.35 54	28.303 266	54.67 255	63.471 250	48.87 99	54.034 278	59.14 255
25.1	57.880 282	33.01 66	28.531 228	57.55 288	63.697 226	47.76 111	54.271 237	62.04 290
12 5.1	58.125 245	33.77 76	28.713 182	60.66 311	63.895 198	46.60 116	54.461 190	65.19 315
	202	86	130	324	164	117	136	329
15.0	58.327	34.63	28.843	63.90	64.059	45.43	54.597	68.48
24.9	58.479 152	35.58 95	28.917 74	67.13 323	64.183 124	44.29 114	54.674 77	71.78 330
34.9	58.576 97	36.57 99	28.932 15	70.27 314	64.263 80	43.24 105	54.691 17	74.98 320
平位	s 54.074	″ 38.46	s 25.856	″ 62.59	s 60.732	″ 48.31	s 51.611	″ 67.49
sec δ, tan δ	+ 1.256	+ 0.759	+ 1.363	− 0.927	+ 1.003	+ 0.073	+ 1.415	− 1.001
2 回正中	12 月 20 日		12 月 20 日		12 月 22 日		12 月 22 日	
a b	+ 0.2039	+ 0.0009	+ 0.0916	− 0.0007	+ 0.1582	0.0000	+ 0.0866	+ 0.0008
a′ b′	+ 0.0179	− 0.9998	+ 0.0112	− 0.9999	− 0.0088	− 1.0000	− 0.0125	− 0.9999
FK3番號	228		229		230		231	

1944

星名	ν Orio		36 Caml		δ Pict		† η Gemi	
等級	4.40		5.39		4.84		3.2—4.2	
スペクトル型	B2		K0		B1		M0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 6 4	° ′ +14 46	h m 6 7	° ′ +65 43	h m 6 9	° ′ −54 57	h m 6 11	° ′ +22 31
	s	″	s	″	s	″	s	″
1 0.9	22.878	30.03	14.72	53.22	14.425	28.08	30.270	23.15
10.9	22.935 57	29.66 37	14.79 7	55.75 253	14.374 51	31.40 332	30.338 68	23.24 9
20.9	22.944 9	29.38 28	14.76 3	58.21 246	14.249 125	34.48 308	30.355 17	23.40 16
30.9	22.905 39	29.19 19	14.61 15	60.50 229	14.055 194	37.23 275	30.321 34	23.62 22
2 9.9	22.820 85	29.07 12	14.37 24	62.54 204	13.799 256	39.56 233	30.240 81	23.87 25
	122	5	33	171	308	187	123	25
19.8	22.698	29.02	14.04	64.25	13.491	41.43	30.117	24.12
29.8	22.544 154	29.02 0	13.64 40	65.56 131	13.143 348	42.81 138	29.961 156	24.36 24
3 10.8	22.370 174	29.06 4	13.19 45	66.43 87	12.768 375	43.67 86	29.781 180	24.56 20
20.8	22.185 185	29.13 7	12.73 46	66.83 40	12.380 388	44.00 33	29.589 192	24.71 15
30.7	22.001 184	29.22 9	12.26 47	66.75 8	11.991 389	43.79 21	29.397 192	24.80 9
	173	12	44	54	376	73	182	4
4 9.7	21.828	29.34	11.82	66.21	11.615	43.06	29.215	24.84
19.7	21.677 151	29.50 16	11.42 40	65.24 97	11.265 350	41.83 123	29.054 161	24.83 1
29.7	21.554 123	29.69 19	11.08 34	63.90 134	10.951 314	40.13 170	28.922 132	24.79 4
5 9.6	21.466 88	29.95 26	10.82 26	62.23 167	10.683 268	38.00 213	28.827 95	24.74 5
19.6	21.419 47	30.26 31	10.64 18	60.31 192	10.469 214	35.48 252	28.773 54	24.70 4
	6	39	8	210	156	284	11	2
29.6	21.413	30.65	10.56	58.21	10.313	32.64	28.762	24.68
6 8.5	21.451 38	31.10 45	10.58 2	56.01 220	10.220 93	29.54 310	28.795 33	24.69 1
18.5	21.530 79	31.63 53	10.69 11	53.76 225	10.192 28	26.25 329	28.872 77	24.75 6
28.5	21.648 118	32.22 59	10.90 21	51.54 222	10.229 37	22.87 338	28.991 119	24.86 11
7 8.5	21.803 155	32.85 63	11.19 29	49.41 213	10.331 102	19.47 340	29.148 157	25.02 16
	188	66	37	199	163	332	191	19
18.4	21.991	33.51	11.56	47.42	10.494	16.15	29.339	25.21
28.4	22.207 216	34.16 65	12.00 44	45.62 180	10.714 220	13.01 314	29.560 221	25.44 23
8 7.4	22.447 240	34.79 63	12.51 51	44.04 158	10.988 274	10.15 286	29.807 247	25.66 22
17.4	22.707 260	35.36 57	13.07 56	42.71 133	11.307 319	7.65 250	30.076 269	25.88 22
27.3	22.982 275	35.84 48	13.67 60	41.66 105	11.665 358	5.61 204	30.360 284	26.07 19
	287	37	63	74	389	152	298	14
9 6.3	23.269	36.21	14.30	40.92	12.054	4.09	30.658	26.21
16.3	23.563 294	36.44 23	14.96 66	40.49 43	12.465 411	3.17 92	30.966 308	26.29 8
26.2	23.863 300	36.52 8	15.63 67	40.39 10	12.888 423	2.87 30	31.280 314	26.29 0
10 6.2	24.163 300	36.45 7	16.30 67	40.63 24	13.313 425	3.22 35	31.596 316	26.23 6
16.2	24.461 298	36.23 22	16.97 67	41.21 58	13.729 416	4.21 99	31.910 314	26.09 14
	291	36	64	92	396	160	309	19
26.2	24.752	35.87	17.61	42.13	14.125	5.81	32.219	25.90
11 5.1	25.032 280	35.41 46	18.22 61	43.39 126	14.490 365	7.97 216	32.517 298	25.68 22
15.1	25.296 264	34.88 53	18.79 57	44.96 157	14.814 324	10.61 264	32.798 281	25.45 23
25.1	25.536 240	34.31 57	19.30 51	46.83 187	15.086 272	13.64 303	33.057 259	25.23 22
12 5.1	25.748 212	33.72 59	19.74 44	48.96 213	15.297 211	16.95 331	33.287 230	25.06 17
	176	54	35	234	144	346	193	10
15.0	25.924	33.18	20.09	51.30	15.441	20.41	33.480	24.96
25.0	26.060 136	32.69 49	20.34 25	53.78 248	15.513 72	23.91 350	33.631 151	24.93 3
34.9	26.150 90	32.27 42	20.49 15	56.32 254	15.510 3	27.33 342	33.734 103	24.98 5
平位	s 22.393	″ 36.74	s 13.067	″ 57.58	s 12.358	″ 19.47	s 29.778	″ 29.52
sec δ, tan δ	+ 1.034	+ 0.264	+ 2.433	+ 2.218	+ 1.742	− 1.426	+ 1.083	+ 0.415
2 回正中	12 月 22 日		12 月 23 日		12 月 24 日		12 月 24 日	
a b	+ 0.1709	− 0.0003	+ 0.3011	− 0.0047	+ 0.0584	+ 0.0038	+ 0.1809	− 0.0014
a′ b′	− 0.0191	− 0.9998	− 0.0315	− 0.9995	− 0.0402	− 0.9992	− 0.0501	− 0.9987
FK3番號	232		233		235		236	

星名 / 等級 スペクトル型	α Mens 5.14 K0		22 H. Caml 4.73 A0		χ Colm 4.51 K0		2 Lync 4.42 A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 6 11	° ′ −74 43	h m 6 12	° ′ +69 20	h m 6 14	° ′ −35 7	h m 6 14	° ′ +59 1
	s	″	s	″	s	″	s	″
1 0.9	60.39 26	73.50 339	42.72 8	30.12 268	34.563 14	22.76 290	42.141 89	56.74 221
10.9	60.13 40	76.89 314	42.80 4	32.80 262	34.582 41	25.66 268	42.230 1	58.95 217
20.9	59.73 55	80.03 281	42.76 17	35.42 246	34.541 93	28.34 238	42.229 89	61.12 206
30.9	59.18 67	82.84 240	42.59 28	37.88 220	34.448 140	30.72 203	42.140 172	63.18 185
2 9.9	58.51 76	85.24 194	42.31 38	40.08 186	34.308 183	32.75 164	41.968 244	65.03 159
19.9	57.75 85	87.18 145	41.93 47	41.94 143	34.125 215	34.39 121	41.724 301	66.62 124
29.8	56.90 89	88.63 91	41.46 52	43.37 98	33.910 238	35.60 76	41.423 341	67.86 87
3 10.8	56.01 92	89.54 38	40.94 55	44.35 49	33.672 249	36.36 30	41.082 364	68.73 45
20.8	55.09 93	89.92 16	40.39 55	44.84 3	33.423 251	36.66 14	40.718 365	69.18 3
30.7	54.16 89	89.76 68	39.84 53	44.81 51	33.172 242	36.52 60	40.353 350	69.21 38
4 9.7	53.27 85	89.08 120	39.31 48	44.30 97	32.930 221	35.92 103	40.003 315	68.83 76
19.7	52.42 79	87.88 168	38.83 41	43.33 138	32.709 194	34.89 143	39.688 267	68.07 111
29.7	51.63 69	86.20 211	38.42 32	41.95 173	32.515 159	33.46 181	39.421 206	66.96 140
5 9.6	50.94 60	84.09 251	38.10 23	40.22 201	32.356 118	31.65 215	39.215 136	65.56 162
19.6	50.34 47	81.58 284	37.87 12	38.21 222	32.238 75	29.50 244	39.079 62	63.94 180
29.6	49.87 35	78.74 311	37.75 1	35.99 234	32.163 28	27.06 267	39.017 16	62.14 190
6 8.6	49.52 21	75.63 330	37.74 11	33.65 240	32.135 18	24.39 285	39.033 93	60.24 194
18.5	49.31 7	72.33 341	37.85 21	31.25 239	32.153 65	21.54 294	39.126 167	58.30 193
28.5	49.24 8	68.92 343	38.06 31	28.86 231	32.218 108	18.60 297	39.293 237	56.37 186
7 8.5	49.32 21	65.49 334	38.37 41	26.55 218	32.326 151	15.63 290	39.530 301	54.51 175
18.4	49.53 35	62.15 318	38.78 49	24.37 199	32.477 188	12.73 276	39.831 357	52.76 160
28.4	49.88 47	58.97 290	39.27 57	22.38 176	32.665 222	9.97 253	40.188 408	51.16 142
8 7.4	50.35 59	56.07 254	39.84 63	20.62 150	32.887 252	7.44 222	40.596 449	49.74 120
17.4	50.94 68	53.53 208	40.47 69	19.12 121	33.139 276	5.22 182	41.045 484	48.54 97
27.3	51.62 77	51.45 155	41.16 72	17.91 88	33.415 297	3.40 136	41.529 510	47.57 73
6.3	52.39 81	49.90 96	41.88 76	17.03 55	33.712 310	2.04 84	42.039 530	46.84 46
16.3	53.20 85	48.94 33	42.64 77	16.48 19	34.022 320	1.20 29	42.569 542	46.38 19
26.3	54.05 85	48.61 32	43.41 77	16.29 9	34.342 322	0.91 28	43.111 546	46.19 9
10 6.2	54.90 82	48.93 97	44.19 76	16.46 17	34.664 318	1.19 85	43.657 543	46.28 38
16.2	55.72 78	49.90 160	44.95 75	17.00 54 91	34.982 309	2.04 139	44.200 530	46.66 68
26.2	56.50 69	51.50 216	45.70 71	17.91 127	35.291 292	3.43 188	44.730 509	47.34 97
11 5.1	57.19 59	53.66 265	46.41 67	19.18 162	35.583 267	5.31 231	45.239 476	48.31 125
15.1	57.78 47	56.31 305	47.08 59	20.80 195	35.850 236	7.62 265	45.715 432	49.56 152
25.1	58.25 32	59.36 334	47.67 51	22.75 222	36.086 198	10.27 289	46.147 377	51.08 176
12 5.1	58.57 17	62.70 350	48.18 40	24.97 246	36.284 153	13.16 303	46.524 310	52.84 197
15.0	58.74 0	66.20 355	48.58 30	27.43 262	36.437 104	16.19 305	46.834 234	54.81 212
25.0	58.74 15	69.75 348	48.88 17	30.05 269	36.541 50	19.24 298	47.068 149	56.93 221
34.9	58.59	73.23	49.05	32.74	36.591	22.22	47.217	59.14
平位	s 54.685	″ 65.16	s 40.695	″ 34.65	s 33.461	″ 14.78	s 40.959	″ 61.75
sec δ, tan δ	+ 3.798	− 3.664	+ 2.835	+ 2.652	+ 1.223	− 0.703	+ 1.943	+ 1.666
2 回正申	12 月 24 日		12 月 24 日		12 月 25 日		12 月 25 日	
a b	− 0.0906	+ 0.0127	+ 0.3299	− 0.0098	+ 0.1065	+ 0.0030	+ 0.2642	− 0.0071
a′ b′	− 0.0520	− 0.9987	− 0.0553	− 0.9985	− 0.0635	− 0.9980	− 0.0640	− 0.9980
FK3番號	239		234		238		237	

星名 / 等級 スペクトル型	ζ CMaj 3.10 B3		μ Gemi 3.19 M0		β CMaj 1.99 B1		ψ^1 Auri 5.10 K2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 6 18	° ′ −30 2	h m 6 19	° ′ +22 32	h m 6 20	° ′ −17 55	h m 6 20	° ′ +49 18
	s	″	s	″	s	″	s	″
1 0.9	10.698 27	21.87 274	34.811 78	32.51 8	14.683 45	43.98 223	35.967 94	62.03 169
10.9	10.725 26	24.61 253	34.889 25	32.59 15	14.728 3	46.21 205	36.061 22	63.72 169
20.9	10.699 76	27.14 225	34.914 26	32.74 22	14.725 52	48.26 181	36.083 50	65.41 163
30.9	10.623 123	29.39 192	34.888 75	32.96 26	14.673 95	50.07 153	36.033 117	67.04 150
2 9.9	10.500 163	31.31 155	34.813 117	33.22 28	14.578 135	51.60 123	35.916 177	68.54 131
19.9	10.337 195	32.86 115	34.696 152	33.50 26	14.443 166	52.83 90	35.739 224	69.85 105
29.8	10.142 219	34.01 74	34.544 177	33.76 23	14.277 188	53.73 56	35.515 258	70.90 77
3 10.8	9.923 230	34.75 31	34.367 190	33.99 18	14.089 200	54.29 23	35.257 278	71.67 44
20.8	9.693 232	35.06 12	34.177 192	34.17 12	13.889 201	54.52 12	34.979 281	72.11 11
30.7	9.461 224	34.94 53	33.985 184	34.29 7	13.688 194	54.40 44	34.698 270	72.22 21
4 9.7	9.237 205	34.41 94	33.801 163	34.36 2	13.494 177	53.96 77	34.428 242	72.01 52
19.7	9.032 178	33.47 132	33.638 135	34.38 1	13.317 151	53.19 107	34.186 205	71.49 79
29.7	8.854 145	32.15 167	33.503 101	34.37 4	13.166 120	52.12 136	33.981 157	70.70 103
5 9.6	8.709 107	30.48 199	33.402 60	34.33 4	13.046 83	50.76 162	33.824 102	69.67 121
19.6	8.602 65	28.49 227	33.342 18	34.29 2	12.963 44	49.14 184	33.722 42	68.46 135
29.6	8.537 21	26.22 250	33.324 27	34.27 1	12.919 4	47.30 204	33.680 19	67.11 142
6 8.6	8.516 23	23.72 266	33.351 69	34.28 4	12.915 38	45.26 218	33.699 80	65.69 146
18.5	8.539 67	21.06 276	33.420 111	34.32 8	12.953 77	43.08 228	33.779 139	64.23 145
28.5	8.606 108	18.30 279	33.531 149	34.40 12	13.030 115	40.80 230	33.918 193	62.78 140
7 8.5	8.714 147	15.51 274	33.680 185	34.52 16	13.145 150	38.50 226	34.111 244	61.38 132
18.4	8.861 183	12.77 261	33.865 214	34.68 17	13.295 180	36.24 217	34.355 289	60.06 121
28.4	9.044 215	10.16 239	34.079 241	34.85 18	13.475 209	34.07 199	34.644 327	58.85 107
8 7.4	9.259 242	7.77 210	34.320 263	35.03 16	13.684 233	32.08 174	34.971 360	57.78 93
17.4	9.501 265	5.67 173	34.583 281	35.19 13	13.917 251	30.34 144	35.331 386	56.85 76
27.3	9.766 284	3.94 130	34.864 295	35.32 8	14.168 268	28.90 108	35.717 409	56.09 60
9 6.3	10.050 298	2.64 81	35.159 306	35.40 2	14.436 281	27.82 67	36.126 424	55.49 41
16.3	10.348 306	1.83 29	35.465 313	35.42 6	14.717 288	27.15 22	36.550 434	55.08 23
26.3	10.654 310	1.54 25	35.778 317	35.36 13	15.005 291	26.93 23	36.984 440	54.85 3
10 6.2	10.964 307	1.79 79	36.095 317	35.23 19	15.296 291	27.16 69	37.424 438	54.82 16
16.2	11.271 300	2.58 131	36.412 312	35.04 25	15.587 285	27.85 111	37.862 432	54.98 38
26.2	11.571 284	3.89 178	36.724 302	34.79 28	15.872 273	28.96 151	38.294 416	55.36 60
11 5.1	11.855 264	5.67 218	37.026 288	34.51 29	16.145 256	30.47 184	38.710 394	55.96 82
15.1	12.119 235	7.85 250	37.314 266	34.22 27	16.401 232	32.31 210	39.104 361	56.78 104
25.1	12.354 200	10.35 274	37.580 237	33.95 21	16.633 202	34.41 228	39.465 320	57.82 124
12 5.1	12.554 158	13.09 285	37.817 201	33.74 15	16.835 165	36.69 237	39.785 269	59.06 142
15.0	12.712 113	15.94 289	38.018 160	33.59 6	17.000 124	39.06 238	40.054 209	60.48 157
25.0	12.825 61	18.83 282	38.178 112	33.53 3	17.124 78	41.44 231	40.263 143	62.05 166
34.9	12.886	21.65	38.290	33.56	17.202	43.75	40.406	63.71
平位	s 9.724	″ 14.21	s 34.321	″ 38.96	s 13.948	″ 36.60	s 35.156	″ 67.65
sec δ, tan δ	+ 1.155	− 0.578	+ 1.083	+ 0.415	+ 1.051	− 0.324	+ 1.534	+ 1.163
2 回正申	12 月 26 日		12 月 26 日		12 月 26 日		12 月 26 日	
a b	+ 0.1149	+ 0.0031	+ 0.1809	− 0.0024	+ 0.1318	+ 0.0019	+ 0.2306	− 0.0070
a′ b′	− 0.0792	− 0.9969	− 0.0853	− 0.9964	− 0.0882	− 0.9961	− 0.0897	− 0.9960
FK3番號	240		241		243		242	

恒星視位

本初子午線正中時　　昭和19年

星名		8 ε Mono		α Cari		10 Mono		8 Lync	
等級		4.48		−0.86		4.98		6.05	
スペクトル型		A5		Fe		B3		G0	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 6 20	° ′ + 4 37	h m 6 22	° ′ −52 39	h m 6 25	° ′ − 4 43	h m 6 32	° ′ +61 31
		s	″	s	″	s	″	s	″
1	0.9	48.496 66	15.65 102	44.415	58.78	12.151 63	40.55 157	35.86 12	53.34
	10.9	48.562 18	14.63 89	44.394 21	62.14 336	12.214 15	42.12 141	35.98 3	55.65 231
	20.9	48.580 29	13.74 74	44.302 92	65.29 315	12.229 32	43.53 123	36.01 7	57.96 231
	30.9	48.551 73	13.00 59	44.142 160	68.13 284	12.197 76	44.76 102	35.94 16	60.19 223
2	9.9	48.478 113	12.41 43	43.921 221	70.58 245	12.121 115	45.78 79	35.78 24	62.25 206
				274	202				180
	19.9	48.365	11.98 28	43.647	72.60	12.006 147	46.57 57	35.54 31	64.05
	29.8	48.221 144	11.70 14	43.331 316	74.13 153	11.859 169	47.14 33	35.23 36	65.52 147
3	10.8	48.054 167	11.56 0	42.987 344	75.15 102	11.690 183	47.47 12	34.87 39	66.61 109
	20.8	47.875 179	11.56 13	42.625 362	75.66 51	11.507 185	47.59 12	34.48 39	67.28 67
	30.8	47.693 182	11.69 26	42.261 364	75.63 3	11.322 178	47.47 33	34.09 39	67.51 23
		173		355	54				20
4	9.7	47.520	11.95 38	41.906	75.09	11.144 161	47.14 54	33.70 36	67.31 63
	19.7	47.365 155	12.33 52	41.572 334	74.05 104	10.983 136	46.60 75	33.34 31	66.68 100
	29.7	47.235 130	12.85 63	41.270 302	72.53 152	10.847 106	45.85 94	33.03 25	65.68 134
5	9.6	47.136 99	13.48 76	41.010 260	70.56 197	10.741 71	44.91 112	32.78 18	64.34 162
	19.6	47.074 62	14.24 87	40.798 212	68.21 235	10.670 33	43.79 129	32.60 10	62.72 183
		22		157	271				
	29.6	47.052 17	15.11 98	40.641 100	65.50	10.637 7	42.50	32.50 2	60.89
6	8.6	47.069 58	16.09 106	40.541 38	62.52 298	10.644 46	41.07 143	32.48 6	58.91 198
	18.5	47.127 95	17.15 112	40.503 22	59.33 319	10.690 84	39.53 154	32.54 14	56.84 207
	28.5	47.222 131	18.27 116	40.525 83	56.02 331	10.774 120	37.91 162	32.68 21	54.75 209
7	8.5	47.353 164	19.43 116	40.608 141	52.67 335	10.894 153	36.26 163	32.89 29	52.69 206
					330				198
	18.5	47.517	20.59 111	40.749	49.37	11.047 181	34.63	33.18	50.71
	28.4	47.709 192	21.70 103	40.945 196	46.23 314	11.228 181	33.06 157	33.53 35	48.85 186
8	7.4	47.926 217	22.73 91	41.192 247	43.33 290	11.436 208	31.61 145	33.94 41	47.15 170
	17.4	48.164 238	23.64 75	41.484 292	40.77 256	11.666 230	30.34 127	34.40 46	45.66 149
	27.3	48.419 255	24.39 54	41.815 331	38.64 213	11.913 247	29.30 104	34.89 49	44.39 127
		269		363	162	263	78	54	103
	6.3	48.688	24.93 32	42.178	37.02 106	12.176	28.52 46	35.43	43.36
	16.3	48.967 279	25.25 7	42.565 387	35.96 43	12.450 274	28.06 14	35.98 55	42.61 75
	26.3	49.254 287	25.32 19	42.967 402	35.53 20	12.732 282	27.92 21	36.56 58	42.14 47
10	6.2	49.544 290	25.13 44	43.374 407	35.73 85	13.019 287	28.13 55	37.15 59	41.97 17
	16.2	49.834 290	24.69 68	43.778 404	36.58 146	13.306 287	28.68 88	37.74 59	42.11 14
		286		388		282		57	46
	26.2	50.120	24.01 87	44.166	38.04	13.588	29.56	38.31	42.57
11	5.1	50.397 277	23.14 103	44.529 363	40.08 204	13.862 274	30.72 116	38.88 57	43.36 79
	15.1	50.659 262	22.11 115	44.857 328	42.61 253	14.122 260	32.11 139	39.41 53	44.47 111
	25.1	50.901 242	20.96 120	45.139 282	45.55 294	14.360 238	33.69 158	39.89 48	45.89 142
12	5.1	51.115 214	19.76 121	45.366 227	48.79 324	14.572 212	35.38 169	40.32 43	47.60 171
		182		165	343	178	174	36	195
	15.0	51.297	18.55	45.531	52.22	14.750	37.12	40.68	49.55
	25.0	51.439 142	17.39 116	45.628 97	55.71 349	14.888 138	38.84 172	40.97 29	51.70 215
	34.9	51.538 99	16.30 109	45.654 26	59.15 344	14.983 95	40.47 163	41.16 19	53.98 228
平位		s 47.983	″ 22.58	s 42.475	″ 51.47	s 11.572	″ 33.56	s 34.577	″ 59.19
sec δ, tan δ		+ 1.003	+ 0.081	+ 1.649	− 1.311	+ 1.003	− 0.083	+ 2.098	+ 1.844
2 回正中		12 月 26 日		12 月 27 日		12 月 29 日		12 月 30 日	
a　b		+ 0.1587	− 0.0005	+ 0.0664	+ 0.0086	+ 0.1478	+ 0.0006	+ 0.2750	− 0.0174
a′　b′		− 0.0906	− 0.9959	− 0.0989	− 0.9951	− 0.1097	− 0.9940	− 0.1417	− 0.9899
FK3番號		244		245		246		247	

恒星視位

本初子午線正中時

星名		ξ² CMaj		γ Gemi		51 Auri		ν Pupp	
等級		4.54		1.93		5.71		3.18	
スペクトル型		A0		A0		K0		B8	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 6 32	° ′ −22 54	h m 6 34	° ′ +16 26	h m 6 34	° ′ +39 26	h m 6 36	° ′ −43 8
		s	″	s	″	s	″	s	″
1	1.0	43.311	75.68	29.084	49.08	47.345 106	25.62 110	4.213	51.10
	10.9	43.364 53	78.19 251	29.172 88	48.74 34	47.451 44	26.72 114	4.237 24	54.33 323
	20.9	43.365 1	80.52 233	29.210 38	48.51 23	47.495 19	27.86 116	4.200 37	57.37 304
	30.9	43.317 48	82.60 178	29.197 13	48.40 11	47.476 77	29.02 112	4.103 97	60.13 276
2	9.9	43.222 95	84.38 146	29.137 60	48.37 3	47.399 130	30.14 102	3.951 152	62.54 241
		136		104	5			200	201
	19.9	43.086 169	85.84 111	29.033	48.42	47.269 175	31.16 87	3.751	64.55
	29.8	42.917 193	86.95 73	28.894 139	48.53 11	47.094 206	32.03 68	3.512 239	66.11 156
3	10.8	42.724 208	87.68 36	28.730 164	48.67 14	46.888 227	32.71 47	3.245 267	67.21 110
	20.8	42.516 212	88.04 1	28.549 181	48.83 16	46.661 232	33.18 23	2.960 285	67.82 61
	30.8	42.304 205	88.03 38	28.364 185	49.00 17	46.429 225	33.41 1	2.670 290	67.93 11
				179	18			284	37
4	9.7	42.099	87.65	28.185	49.18	46.204	33.42 22	2.386 267	67.56
	19.7	41.909 190	86.90 75	28.023 162	49.36 18	46.000 204	33.20 43	2.119 242	66.71 85
	29.7	41.742 167	85.82 108	27.885 138	49.56 20	45.824 176	32.77 59	1.877 207	65.41 130
5	9.6	41.606 136	84.41 141	27.779 106	49.78 22	45.688 136	32.18 74	1.670 168	63.68 173
	19.6	41.505 101	82.71 170	27.709 70	50.02 24	45.597 91	31.44 84	1.502 122	61.57 211
		62	196	29	29	42			245
	29.6	41.443 22	80.75 217	27.680 12	50.31	45.555 10	30.60 90	1.380 74	59.12
6	8.6	41.421 20	78.58 234	27.692 52	50.63 32	45.565 60	29.70 94	1.306 24	56.39 273
	18.5	41.441 60	76.24 244	27.744 92	51.00 37	45.625 109	28.76 94	1.282 26	53.45 294
	28.5	41.501 99	73.80 248	27.836 129	51.41 41	45.734 156	27.82 91	1.308 76	50.37 308
7	8.5	41.600 135	71.32 246	27.965 163	51.84 43	45.890 198	26.91 87	1.384 124	47.23 314
					44				311
	18.5	41.735 169	68.86 235	28.128	52.28	46.088	26.04 82	1.508	44.12
	28.4	41.904 169	66.51 218	28.321 193	52.72 44	46.324 236	25.22 74	1.677 169	41.13 299
8	7.4	42.103 225	64.33 193	28.540 219	53.12 40	46.594 270	24.48 67	1.887 210	38.35 278
	17.4	42.328 248	62.40 160	28.783 243	53.47 35	46.892 298	23.81 59	2.134 247	35.87 248
	27.3	42.576 248	60.80 123	29.044 261	53.73 26	47.214 322	23.22 51	2.414 280	33.79 208
		266		277	16	342		307	162
	6.3	42.842 281	59.57 78	29.321	53.89 4	47.556	22.71	2.721 329	32.17
	16.3	43.123 292	58.79 31	29.610 289	53.93 10	47.913 357	22.29 42	3.050 344	31.09 108
	26.3	43.415 297	58.48 18	29.909 299	53.83 24	48.282 369	21.96 33	3.394 351	30.58 51
10	6.2	43.712 299	58.66 68	30.214 305	53.59 37	48.658 376	21.72 24	3.745 352	30.68 10
	16.2	44.011 294	59.34 115	30.521 307	53.22 48	49.036 378	21.59 13	4.097 345	31.39 71
				305		375	0		131
	26.2	44.305 284	60.49 158	30.826	52.74	49.411	21.59 13	4.442	32.70
11	5.2	44.589 267	62.07 196	31.124 298	52.17 57	49.778 367	21.72 28	4.770 328	34.56 186
	15.1	44.856 267	64.03 226	31.409 285	51.54 63	50.128 350	22.00 44	5.074 304	36.90 234
	25.1	45.099 243	66.29 248	31.676 267	50.89 65	50.454 326	22.44 61	5.344 270	39.65 275
12	5.1	45.312 213	68.77 260	31.916 240	50.26 63	50.748 294	23.05 77	5.572 228	42.70 305
		176		208	58	252		179	324
	15.0	45.488	71.37	32.124	49.68	51.000	23.82	5.751	45.94
	25.0	45.621 133	74.00 263	32.291 167	49.19 49	51.204 204	24.74 92	5.875 124	49.27 333
	34.9	45.707 86	76.58 258	32.413 122	48.79 40	51.351 147	25.78 104	5.940 65	52.56 329
平位		s 42.479	″ 68.99	s 28.605	″ 55.69	s 46.741	″ 31.99	s 2.776	″ 44.91
sec δ, tan δ		+ 1.086	− 0.423	+ 1.043	+ 0.295	+ 1.295	+ 0.823	+ 1.371	− 0.937
2 回正中		12 月 30 日		12 月 30 日		12 月 30 日		12 月 30 日	
a　b		+ 0.1254	+ 0.0040	+ 0.1728	− 0.0030	+ 0.2075	− 0.0083	+ 0.0916	+ 0.0098
a′　b′		− 0.1422	− 0.9898	− 0.1499	− 0.9887	− 0.1512	− 0.9885	− 0.1566	− 0.9877
FK3番號		249		251		250		252	

星名	23 H. Caml		† S Mono		ε Gemi		ξ Gemi	
等級	5.60		4.68		3.18		3.40	
スペクトル型	F8		Oe5		G5		F5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 6 36	° ′ +79 37	h m 6 37	° ′ +9 56	h m 6 40	° ′ +25 11	h m 6 42	° ′ +12 57
	s	″	s	″	s	″	s	″
1 1.0	47.33	43.55	54.092 86	50.33	29.693 101	11.59	9.241	20.89
10.9	47.54 21	46.61 306	54.178 38	49.58 75	29.799 48	11.80 21	9.334 93	20.31 58
20.9	47.50 4	49.64 303	54.216 11	48.96 62	29.847 6	12.10 30	9.377 43	19.86 45
30.9	47.22 28	52.54 290	54.205 59	48.48 48	29.841 58	12.47 37	9.371 6	19.53 33
2 9.9	46.71 51	55.20 266	54.146 100	48.13 35	29.783 104	12.90 43	9.316 55	19.33 20
	72	231		22		44	97	10
19.9	45.99 89	57.51 188	54.046	47.91 11	29.679 143	13.34 43	9.219 134	19.23 1
29.8	45.10 101	59.39 138	53.911 135	47.80 2	29.536 172	13.77 43	9.085 160	19.22 6
2 10.8	44.09 110	60.77 83	53.751 160	47.78 8	29.364 172	14.15 38	8.925 160	19.28 12
20.8	42.99 112	61.60 27	53.574 177	47.86 15	29.175 189	14.46 31	8.748 177	19.40 17
30.8	41.87 111	61.87 30	53.393 181	48.01 22	28.980 195	14.69 23	8.566 182	19.57 21
			176		190	14	177	
4 9.7	40.76	61.57	53.217	48.23	28.790	14.83 6	8.389	19.78
19.7	39.73 103	60.72 85	53.057 160	48.53 30	28.617 173	14.89 1	8.226 163	20.03 25
29.7	38.80 93	59.38 134	52.920 137	48.90 37	28.468 149	14.88 7	8.087 139	20.33 30
5 9.7	38.02 78	57.60 178	52.813 107	49.34 44	28.352 116	14.81 11	7.977 110	20.67 34
19.6	37.41 61	55.45 215	52.742 71	49.85 51	28.275 77	14.70 14	7.903 74	21.06 39
	42	244	34	60	36		36	44
29.6	36.99	53.01	52.708 6	50.45	28.239 8	14.56	7.867 1	21.50
6 8.6	36.77 22	50.35 266	52.714 46	51.11 66	28.247 51	14.42 14	7.870 3	22.00 50
18.5	36.77 0	47.57 278	52.760 84	51.84 73	28.298 92	14.28 14	7.914 44	22.54 54
28.5	36.97 20	44.74 283	52.844 120	52.61 77	28.390 131	14.16 12	7.996 82	23.13 59
7 8.5	37.39 42	41.93 281	52.964 153	53.41 80	28.521 168	14.06 10	8.114 118	23.73 60
	60	271				9	152	62
18.5	37.99	39.22	53.117	54.21	28.689	13.97	8.266	24.35
28.4	38.78 79	36.67 255	53.300 183	54.99 78	28.889 200	13.90 7	8.448 182	24.94 59
8 7.4	39.73 95	34.34 233	53.509 209	55.71 72	29.118 229	13.83 7	8.657 209	25.48 54
17.4	40.82 109	32.27 207	53.741 232	56.33 62	29.371 253	13.75 8	8.889 232	25.94 46
27.4	42.04 122	30.52 175	53.991 250	56.82 49	29.645 274	13.64 11	9.140 251	26.30 36
	132	141	267	34	291	14	268	22
9 6.3	43.36	29.11	54.258	57.16 15	29.936	13.50	9.408	26.52 6
16.3	44.75 139	28.08 103	54.537 279	57.31 15	30.241 305	13.31 19	9.689 281	26.58 10
26.3	46.20 145	27.46 62	54.826 289	57.27 4	30.557 316	13.08 23	9.981 292	26.48 28
10 6.2	47.68 148	27.27 19	55.121 295	57.02 25	30.880 323	12.79 29	10.279 298	26.20 45
16.2	49.16 148	27.51 24	55.419 298	56.58 44	31.206 326	12.47 32	10.581 302	25.75 59
	145	69	296	63	326	35		
26.2	50.61	28.20	55.715	55.95	31.532	12.12	10.883	25.16
11 5.2	52.00 139	29.34 114	56.005 290	55.17 78	31.851 319	11.77 35	11.178 295	24.44 72
15.1	53.30 130	30.91 157	56.284 279	54.28 89	32.157 306	11.44 33	11.463 285	23.63 81
25.1	54.47 117	32.89 198	56.543 259	53.31 97	32.445 288	11.17 27	11.729 266	22.78 85
12 5.1	55.49 102	35.23 234	56.778 235	52.32 99	32.705 260	10.98 19	11.971 242	21.92 86
	82	265	202	96	226	10	209	82
15.1	56.31	37.88	56.980	51.36	32.931	10.88 —	12.180	21.10
25.0	56.93 62	40.76 288	57.144 164	50.45 91	33.116 185	10.91 3	12.351 171	20.36 74
34.9	57.30 37	43.79 303	57.264 120	49.64 81	33.253 137	11.04 13	12.477 126	19.72 64
平位	s 42.861	″ 49.24	s 53.602	″ 56.94	s 29.212	″ 18.20	s 8.761	″ 27.47
sec δ, tan δ	+ 5.556	+ 5.465	+ 1.015	+ 0.175	+ 1.105	+ 0.470	+ 1.026	+ 0.230
2 回正中	12 月 31 日		12 月 31 日		12 月 31 日		1 月 2 日	
a b	+ 0.5130	− 0.0581	+ 0.1649	− 0.0019	+ 0.1842	− 0.0055	+ 0.1684	− 0.0028
a′ b′	− 0.1595	− 0.9872	− 0.1646	− 0.9864	− 0.1757	− 0.9844	− 0.1829	− 0.9831
FK3番號	248		253		254		256	

星名	α CMaj A		ψ⁵ Auri		ζ Mens		18 Mono	
等級	−1.58		5.34		5.64		4.70	
スペクトル型	A0		G0		A2		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 6 42	° ′ −16 38	h m 6 42	° ′ +43 37	h m 6 44	° ′ −80 45	h m 6 44	° ′ +2 28
	s	″	s	″	s	″	s	″
1 1.0	41.649 64	22.92	42.913 120	60.56	54.89 29	29.53	56.926 88	23.59
10.9	41.713 14	25.19 227	43.033 55	61.89 133	54.60 55	33.00 347	57.014 39	22.37 122
20.9	41.727 35	27.28 209	43.088 13	63.29 140	54.05 79	36.34 334	57.053 9	21.29 108
30.9	41.692 81	29.15 187	43.075 76	64.70 141	53.26 100	39.42 308	57.044 55	20.38 91
2 9.9	41.611 122	30.74 159	42.999 133	66.05 135	52.26 118	42.17 275	56.989 98	19.65 73
		129		123		236		55
19.9	41.489	32.03	42.866	67.28	51.08	44.53	56.891	19.10
29.8	41.334 155	33.02 99	42.684 182	68.35 107	49.75 133	46.45 192	56.759 132	18.72 38
3 10.8	41.154 180	33.67 65	42.467 217	69.19 84	48.32 143	47.88 143	56.601 158	18.52 20
20.8	40.959 195	33.99 32	42.226 241	69.79 60	46.81 151	48.81 93	56.427 174	18.47 5
30.8	40.759 200	33.99 0	41.978 248	70.11 32	45.27 154	49.22 41	56.247 180	18.58 11
	195	32	243	5	153	11	176	26
4 9.7	40.564	33.67	41.735	70.16 22	43.74	49.11	56.071	18.84
19.7	40.385 179	33.03 64	41.512 223	69.94 47	42.25 149	48.48 63	55.909 162	19.23 39
29.7	40.227 158	32.10 93	41.318 194	69.47 68	40.83 142	47.35 113	55.769 140	19.77 54
5 9.7	40.099 128	30.89 121	41.164 154	68.79 86	39.53 130	45.75 160	55.657 112	20.45 68
19.6	40.004 95	29.43 146	41.057 107	67.93 100	38.37 116	43.71 204	55.578 79	21.25 80
	57	169	56		100	243	42	92
29.6	39.947 17	27.74 187	41.001 3	66.93 110	37.37 81	41.28	55.536 3	22.17
6 8.6	39.930 21	25.87 202	40.998 51	65.83 116	36.56 60	38.52 276	55.533 34	23.19 102
18.5	39.951 61	23.85 212	41.049 103	64.67 118	35.96 38	35.50 302	55.567 73	24.30 111
28.5	40.012 98	21.73 216	41.152 153	63.49 117	35.58 15	32.29 321	55.640 107	25.47 117
7 8.5	40.110 132	19.57 213	41.305 199	62.32 114	35.43 9	28.98 331	55.747 140	26.68 121
						333		119
18.5	40.242	17.44	41.504	61.18	35.52	25.65	55.887	27.87
28.4	40.406 164	15.39 205	41.744 240	60.11 107	35.84 32	22.41 324	56.057 170	29.02 115
8 7.4	40.599 193	13.50 189	42.021 277	59.12 99	36.38 54	19.36 305	56.254 197	30.09 107
17.4	40.816 217	11.83 167	42.330 309	58.21 91	37.13 75	16.59 277	56.474 220	31.02 93
27.4	41.056 240	10.46 137	42.665 335	57.40 81	38.07 94	14.20 239	56.713 239	31.78 76
	257	104	358	70	111	193	256	53
9 6.3	41.313 272	9.42 64	43.023 376	56.70 58	39.18	12.27 138	56.969 271	32.31
16.3	41.585 282	8.78 21	43.399 389	56.12 58	40.40 122	10.89 80	57.240 280	32.61 30
26.3	41.867 282	8.57 23	43.788 399	55.67 45	41.72 132	10.09 16	57.520 289	32.64 3
10 6.2	42.156 289	8.80 68	44.187 493	55.35 32	43.08 136	9.93 49	57.809 292	32.39 25
16.2	42.448 292	9.48 111	44.590 400	55.18 17	44.43 135	10.42 113	58.101 291	31.87 52
	288			0	129			78
26.2	42.736	10.59	44.990	55.18 —	45.72	11.55	58.392	31.09
11 5.2	43.017 281	12.08 149	45.383 393	55.35 17	46.92 120	13.28 173	58.679 287	30.09 100
15.1	43.282 265	13.91 183	45.760 377	55.71 36	47.97 105	15.55 227	58.954 275	28.90 119
25.1	43.527 245	16.00 209	46.112 352	56.28 57	48.83 86	18.28 273	59.211 257	27.58 132
12 5.1	43.743 216	18.29 229	46.430 318	57.05 77	49.47 64	21.38 310	59.443 232	26.19 139
	182	238	276	96	40	335	202	141
15.1	43.925	20.67	46.706	58.01	49.87	24.73	59.645	24.78
25.0	44.066 141	23.07 240	46.929 223	59.15 114	50.01 14	28.23 350	59.808 163	23.41 137
34.9	44.162 96	25.41 234	47.094 165	60.42 127	49.87 14	31.74 351	59.928 120	22.12 129
平位	s 40.868	″ 16.79	s 42.258	″ 67.13	s 44.606	″ 25.13	s 56.402	″ 30.01
sec δ, tan δ	+ 1.044	− 0.299	+ 1.382	+ 0.953	+ 6.226	− 6.145	+ 1.001	+ 0.043
2 回正中	1 月 2 日		1 月 2 日		1 月 2 日		1 月 2 日	
a b	+ 0.1338	+ 0.0037	+ 0.2158	− 0.0118	− 0.2486	+ 0.0795	+ 0.1562	− 0.0006
a′ b′	− 0.1852	− 0.9827	− 0.1853	− 0.9827	− 0.1940	− 0.9810	− 0.1948	− 0.9808
FK3番號	257		255		264		258	

恒　星　視　位

本初子午線正中時　　昭和19年

星名 / 等級 / スペクトル型		α Pict 3.30 A5			43 Caml 5.13 B5			τ Pupp 2.83 K0			ϑ Gemi 3.64 A2		
世界時		赤経		赤緯	赤経		赤緯	赤経		赤緯	赤経		赤緯
月	日	h m 6 47		° ′ −61 52	h m 6 47		° ′ +68 57	h m 6 48		° ′ −50 32	h m 6 49		° ′ +34 1
		s		″	s		″	s		″	s		″
1	1.0	39.88	1	55.53	42.43	18	17.11	34.560	25	54.46	6.472	119	43.78
	10.9	39.87	11	59.10	42.61	6	19.75	34.585	46	57.90	6.591	60	44.51
	20.9	39.76	20	62.51	42.67	8	22.42	34.539	113	61.18	6.651	1	45.33
	30.9	39.56	27	65.65	42.59	20	25.01	34.426	176	64.20	6.652	56	46.21
2	9.9	39.29	35	68.45	42.39	30	27.43	34.250	231	66.87	6.596	107	47.11
	19.9	38.94	40	70.84	42.09	40	29.59	34.019	277	69.15	6.489	151	47.96
	29.8	38.54	44	72.77	41.69	47	31.39	33.742	310	70.97	6.338	183	48.74
3	10.8	38.10	48	74.19	41.22	52	32.78	33.432	333	72.31	6.155	205	49.39
	20.8	37.62	48	75.09	40.70	54	33.70	33.099	342	73.14	5.950	213	49.89
	30.8	37.14	48	75.46	40.16	53	34.13	32.757	338	73.46	5.737	209	50.21
4	9.7	36.66		75.29	39.63		34.06	32.419		73.26	5.528		50.36
	19.7	36.19	47	74.59	39.13	50	33.51	32.096	323	72.56	5.335	193	50.33
	29.7	35.76	43	73.38	38.69	44	32.51	31.798	298	71.37	5.167	168	50.14
5	9.7	35.37	39	71.69	38.31	38	31.11	31.535	263	69.72	5.033	134	49.81
	19.6	35.04	33	69.55	38.02	29	29.37	31.314	221	67.65	4.940	93	49.35
			28	214		19	174		173	207		49	46
				252			202			244			54
	29.6	34.76	20	67.03	37.83	9	27.35	31.141	121	65.21	4.891	3	48.81
6	8.6	34.56	13	64.18	37.74	2	25.12	31.020	65	62.46	4.888	44	48.21
	18.5	34.43	6	61.06	37.76	12	22.76	30.955	8	59.46	4.932	89	47.57
	28.5	34.37	2	57.76	37.88	22	20.33	30.947	48	56.30	5.021	133	46.91
7	8.5	34.39	10	54.37	38.10	32	17.89	30.995	103	53.04	5.154	172	46.26
				339			243			326			65
				340			244						63
	18.5	34.49	17	50.97	38.42	41	15.52	31.098	158	49.78	5.326	208	45.63
	28.4	34.66	24	47.67	38.83	49	13.26	31.256	207	46.63	5.534	240	45.03
8	7.4	34.90	31	44.57	39.32	56	11.16	31.463	254	43.67	5.774	268	44.45
	17.4	35.21	37	41.77	39.88	62	9.27	31.717	294	41.01	6.042	292	43.90
	27.4	35.58	41	39.36	40.50	67	7.62	32.011	330	38.73	6.334	312	43.39
				241			226			228			51
				193			137			182			49
	6.3	35.99	46	37.43	41.17	72	6.25	32.341	358	36.91	6.646	328	42.90
	16.3	36.45	49	36.05	41.89	74	5.19	32.699	379	35.64	6.974	342	42.45
	26.3	36.94	50	35.29	42.63	77	4.45	33.078	391	34.96	7.316	350	42.03
10	6.2	37.44	51	35.18	43.40	76	4.07	33.469	395	34.91	7.666	356	41.64
	16.2	37.95	49	35.72	44.16	77	4.06	33.864	388	35.49	8.022	356	41.32
				138			106			127			45
				76			74			68			42
				11			38			5			39
				54			1			58			32
				120			37			122			27
	26.2	38.44		36.92	44.93		4.43	34.252		36.71	8.378		41.05
11	5.2	38.91	47	38.74	45.67	74	5.20	34.623	371	38.52	8.728	350	40.88
	15.1	39.33	42	41.10	46.37	70	6.34	34.965	342	40.55	9.067	339	40.82
	25.1	39.70	37	43.94	47.02	65	7.86	35.271	306	43.64	9.385	318	40.89
12	5.1	40.00	30	47.15	47.60	58	9.73	35.529	258	46.77	9.675	290	41.10
			22	321		49	187		201	313		254	21
				346			217			336			37
	15.1	40.22		50.61	48.09		11.90	35.730		50.13	9.929		41.47
	25.0	40.36	14	54.20	48.47	38	14.31	35.868	138	53.62	10.137	208	42.00
	35.0	40.40	4	57.81	48.74	27	16.89	35.939	71	57.11	10.294	157	42.66
				359			241			349			53
				361			258			349			66
平位		s 37.007		″ 50.93	s 40.587		″ 23.64	s 32.712		″ 49.60	s 5.945		″ 50.53
sec δ, tan δ		+ 2.122		− 1.871	+ 2.785		+ 2.599	+ 1.574		− 1.215	+ 1.207		+ 0.675
2回正中		1月3日			1月3日			1月3日			1月3日		
a	b	+ 0.0313		+ 0.0257	+ 0.3229		− 0.0358	+ 0.0741		+ 0.0170	+ 0.1973		− 0.0096
a′	b′	− 0.2063		− 0.9785	− 0.2065		− 0.9784	− 0.2102		− 0.9777	− 0.2126		− 0.9771
FK3番號		262			259			263			261		

恒　星　視　位

本初子午線正中時

星名 / 等級 / スペクトル型		ϑ CMaj 4.25 K2			24 H. Caml 4.75 K5			ι Voln 5.52 B8			† 15 Lync m 4.54 G0		
世界時		赤経		赤緯	赤経		赤緯	赤経		赤緯	赤経		赤緯
月	日	h m 6 51		° ′ −11 57	h m 6 51		° ′ +77 2	h m 6 52		° ′ −70 53	h m 6 52		° ′ +58 29
		s		″	s		″	s		″	s		″
1	1.0	35.894	82	67.44	59.07	26	64.43	10.36	6	42.19	27.012	159	48.24
	10.9	35 976	33	69.49	59.33	5	67.38	10.30	20	45.79	27.171	70	50.37
	20.9	36.009	16	71.38	59.38	15	70.36	10.10	31	49.26	27.241	22	52.55
	30.9	35.993	63	73.06	59.23	34	73.25	9.79	43	52.47	27.219	108	54.71
2	9.9	35.930	105	74.50	58.89	51	75.95	9.36	53	55.36	27.111	188	56.76
	19.9	35.825		75.67	58.38	66	78.35	8.83	60	57.84	26.923	254	58.61
	29.9	35.685	140	76.56	57.72	77	80.36	8.23	66	59.88	26.669	306	60.19
3	10.8	35.519	166	77.17	56.95	85	81.91	7.57	66	61.42	26.363	340	61.44
	20.8	35.336	183	77.48	56.10	89	82.95	6.86	71	62.45	26.023	355	62.31
	30.8	35.145	191	77.51	55.21	88	83.43	6.14	72	62.93	25.668	351	62.77
			187						72				
4	9.7	34.958		77.25	54.33		83.37	5.42		62.88	25.317		62.82
	19.7	34.784	174	76.72	53.50	83	82.77	4.72	70	62.30	24.987	330	62.47
	29.7	34.629	155	75.93	52.74	76	81.66	4.06	66	61.20	24.694	293	61.73
5	9.7	34.502	127	74.89	52.09	65	80.11	3.45	61	59.62	24.451	243	60.66
	19.6	34.407	95	73.62	51.57	52	78.17	2.92	53	57.58	24.268	183	59.29
			60			38	194		45	204		116	137
							226			245			160
	29.6	34.347	22	72.14	51.19	21	75.91	2.47		55.13	24.152		57.69
6	8.6	34.325	16	70.49	50.98	4	73.41	2.11	36	52.34	24.108	44	55.90
	18.6	34.341	54	68.69	50.94	13	70.76	1.85	26	49.27	24.137	29	54.00
	28.5	34.395	89	66.80	51.07	28	68.01	1.71	14	46.01	24.238	101	52.02
7	8.5	34.484	124	64.86	51.35	45	65.26	1.67	4	42.63	24.408	170	50.04
				194			275		8	338		235	198
				193			269			340			194
	18.5	34.608		62.93	51.80		62.57	1.75		39.23	24.643		48.10
	28.4	34.763	155	61.07	52.39	59	59.99	1.93	18	35.91	24.938	295	46.23
8	7.4	34.946	183	59.34	53.12	73	57.60	2.23	30	32.77	25.287	349	44.49
	17.4	35.155	209	57.80	53.97	85	55.44	2.62	39	29.91	25.684	397	42.89
	27.4	35.385	230	56.52	54.92	95	53.55	3.11	49	27.43	26.121	437	41.47
			249	186		104	258		56	332		472	142
				173			239			314			120
				154			216			286			
				128			189			248			
				97			157			200			
	6.3	35.634	266	55.55	55.96	111	51.98	3.67	63	25.43	26.593	500	40.27
	16.3	35.900	278	54.93	57.07	116	50.76	4.30	67	23.96	27.093	523	39.29
	26.3	36.178	286	54.69	58.23	119	49.91	4.97	69	23.11	27.616	536	38.55
10	6.3	36.464	291	54.87	59.42	120	49.48	5.66	70	22.90	28.152	544	38.09
	16.2	36.755	291	55.45	60.62	119	49.47	6.36	68	23.35	28.696	542	37.92
				62			122			147			98
				24			85			85			74
				18			43			21			46
				58			1			45			17
				98			42			111			12
	26.2	37.046		56.43	61.81		49.89	7.04	64	24.46	29.238		38.04
11	5.2	37.331	285	57.76	62.97	116	50.76	7.68	57	26.19	29.769	531	38.48
	15.1	37.605	274	59.40	64.06	109	52.07	8.25	50	28.49	30.278	509	39.24
	25.1	37.860	255	61.29	65.07	101	53.79	8.75	39	31.27	30.754	476	40.32
12	5.1	38.090	230	63.34	65.95	88	55.90	9.14	27	34.44	31.183	429	41.69
			197	205		75	244			317		370	137
				216						344			166
	15.1	38.287		65.50	66.70		58.34	9.41		37.88	31.553		43.35
	25.0	38.446	159	67.66	67.27	57	61.06	9.56	15	41.48	31.852	299	45.23
	35.0	38.560	114	69.77	67.66	39	63.95	9.58	2	45.11	32.070	218	47.29
				216			272			360			188
				211			289			363			206
平位		s 35.231		″ 61.58	s 55.736		″ 71.06	s 5.762		″ 38.36	s 25.950		″ 55.12
sec δ, tan δ		+ 1.022		− 0.212	+ 4.463		+ 4.350	+ 3.055		− 2.887	+ 1.914		+ 1.632
2回正中		1月4日			1月4日			1月4日			1月4日		
a	b	+ 0.1396		+ 0.0032	+ 0.4359		− 0.0651	− 0.0342		+ 0.0434	+ 0.2593		− 0.0247
a′	b′	− 0.2232		− 0.9748	− 0.2247		− 0.9744	− 0.2254		− 0.9743	− 0.2268		− 0.9740
FK3番號		266			260			267			265		

星名 / 等級 / スペクトル型		ε CMaj 1.63 B1		o^2 CMaj 3.12 B5p		ζ Gemi 3.7—4.1 G0p		γ CMaj 4.07 B5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 6 56	° ′ −28 53	h m 7 0	° ′ −23 44	h m 7 0	° ′ +20 39	h m 7 1	° ′ −15 32
		s	″	s	″	s	″	s	″
1	1.0	26.422	45.84	41.973	65.77	47.733	8.42	14.154	62.25
	10.9	26.492 70	48.68 284	42.054 81	68.42 265	47.851 118	8.28 14	14.242 88	64.50 225
	20.9	26.509 17	51.36 268	42.082 28	70.91 249	47.918 67	8.27 1	14.282 40	66.61 211
	30.9	26.473 36	53.81 245	42.060 22	73.17 226	47.931 13	8.38 11	14.271 11	68.50 189
2	9.9	26.387 86	55.96 215	41.988 72	75.15 198	47.893 38	8.58 20	14.212 59	70.14 164
		132	181	117	167	85	28	102	136
	19.9	26.255	57.77	41.871	76.82	47.808	8.86	14.110	71.50
	29.9	26.086 169	59.21 144	41.717 154	78.14 132	47.683 125	9.17 31	13.971 139	72.56 106
3	10.8	25.889 197	60.25 104	41.535 182	79.10 96	47.527 156	9.50 33	13.805 166	73.31 75
	20.8	25.672 217	60.89 64	41.334 201	79.68 58	47.350 177	9.82 32	13.620 185	73.74 43
	30.8	25.447 225	61.11 22	41.124 210	79.88 20	47.165 185	10.11 29	13.427 193	73.85 11
		222	19	208	17	184	25	192	20
4	9.7	25.225	60.92	40.916	79.71	46.981	10.36	13.235	73.65
	19.7	25.014 211	60.33 59	40.719 197	79.17 54	46.809 172	10.57 21	13.053 182	73.15 50
	29.7	24.823 191	59.35 98	40.540 179	78.27 90	46.658 151	10.73 16	12.891 162	72.35 80
5	9.7	24.660 163	58.01 134	40.388 152	77.05 122	46.536 122	10.87 14	12.755 136	71.28 107
	19.6	24.530 130	56.33 168	40.268 120	75.51 154	46.448 88	10.97 10	12.650 105	69.96 132
		93	198	84	181	50	10	71	156
	29.6	24.437	54.35	40.184	73.70	46.398	11.07	12.579	68.40
6	8.6	24.384 53	52.12 223	40.137 47	71.65 205	46.387 11	11.17 10	12.545 34	66.65 175
	18.6	24.371 13	49.68 244	40.130 7	69.42 223	46.418 31	11.27 10	12.549 4	64.73 192
	28.5	24.400 29	47.11 257	40.162 32	67.05 237	46.487 69	11.37 10	12.590 41	62.71 202
7	8.5	24.470 70	44.46 265	40.233 71	64.61 244	46.595 108	11.48 11	12.668 78	60.63 208
		108		107	244	143	10	113	207
	18.5	24.578	41.81	40.340	62.17	46.738	11.58	12.781	58.56
	28.4	24.722 144	39.25 256	40.482 142	59.81 236	46.912 174	11.67 9	12.925 144	56.54 202
8	7.4	24.901 179	36.84 241	40.656 174	57.59 222	47.115 203	11.73 6	13.099 174	54.67 187
	17.4	25.110 209	34.67 217	40.858 202	55.60 199	47.344 229	11.74 1	13.300 201	52.99 168
	27.4	25.347 237	32.83 184	41.087 229	53.90 170	47.595 251	11.69 5	13.525 225	51.57 142
		259	144	251	133	270	13	245	109
9	6.3	25.606	31.39	41.338	52.57	47.865	11.56	13.770	50.48
	16.3	25.886 280	30.39 100	41.609 271	51.66 91	48.151 286	11.34 22	14.033 263	49.76 72
	26.3	26.182 296	29.89 50	41.894 285	51.22 44	48.451 300	11.01 33	14.311 278	49.45 31
10	6.3	26.488 306	29.92 3	42.191 297	51.28 6	48.762 311	10.59 42	14.598 287	49.58 13
	16.2	26.799 311	30.49 57	42.493 302	51.83 55	49.078 316	10.09 50	14.892 294	50.14 56
		311	110	304	105	319	58	295	99
	26.2	27.110	31.59	42.797	52.88	49.397	9.51	15.187	51.13
11	5.2	27.413 303	33.17 158	43.094 297	54.38 150	49.714 317	8.88 63	15.478 291	52.52 139
	15.1	27.701 288	35.18 201	43.379 285	56.28 190	50.022 308	8.25 63	15.758 280	54.24 172
	25.1	27.968 267	37.56 238	43.645 266	58.52 224	50.313 291	7.64 61	16.021 263	56.24 200
12	5.1	28.204 236	40.22 266	43.882 237	61.01 249	50.582 269	7.08 56	16.258 237	58.45 221
		199	283	203	265	237	46	205	232
	15.1	28.403	43.05	44.085	63.66	50.819	6.62	16.463	60.77
	25.0	28.557 154	45.96 291	44.246 161	66.38 272	51.018 199	6.27 35	16.628 165	63.13 236
	35.0	28.662 105	48.85 289	44.360 114	69.07 269	51.171 153	6.05 22	16.749 121	65.44 231
平位		s 25.447	″ 40.88	s 41.115	″ 60.89	s 47.276	″ 15.08	s 13.443	″ 57.00
sec, δ tan δ		+ 1.142	− 0.552	+ 1.093	− 0.440	+ 1.069	+ 0.377	+ 1.038	− 0.278
2 回正中		1 月 5 日		1 月 6 日		1 月 6 日		1 月 6 日	
a	b	+ 0.1176	+ 0.0090	+ 0.1250	+ 0.0077	+ 0.1776	− 0.0066	+ 0.1354	+ 0.0049
a′	b′	− 0.2437	− 0.9698	− 0.2617	− 0.9652	− 0.2621	− 0.9650	− 0.2640	− 0.9645
FK3番號		268		270		269		271	

星名 / 等級 / スペクトル型		27 G. Cari 5.30 A0		δ CMaj 1.98 F8p		63 Auri 5.07 K2		I Pupp 4.47 F0	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 7 3	° ′ −56 39	h m 7 6	° ′ −26 18	h m 7 7	° ′ +39 24	h m 7 10	° ′ −46 39
		s	″	s	″	s	″	s	″
1	1.0	17.976	53.82	7.715	15.44	48.894	42.55	59.380	56.81
	10.9	18.009 33	57.40 358	7.799 84	18.21 277	49.041 147	43.56 101	59.445 65	60.24 343
	20.9	17.961 48	60.85 345	7.830 31	20.82 261	49.127 86	44.69 113	59.444 1	63.55 331
	30.9	17.835 126	64.07 322	7.809 21	23.22 240	49.148 21	45.89 120	59.377 67	66.64 309
2	9.9	17.636 199	66.98 291	7.737 72	25.33 211	49.107 41	47.11 122	59.249 128	69.42 278
		263	251	117	180	98	117	184	241
	19.9	17.373	69.49	7.620	27.13	49.009	48.28	59.065	71.83
	29.9	17.056 317	71.57 208	7.464 156	28.56 143	48.862 147	49.35 107	58.835 230	73.83 200
3	10.8	16.697 359	73.17 160	7.279 185	29.62 106	48.675 187	50.27 92	58.568 267	75.37 154
	20.8	16.310 387	74.25 108	7.073 206	30.29 67	48.463 212	50.99 72	58.276 292	76.43 106
	30.8	15.909 401	74.82 57	6.858 215	30.57 28	48.237 226	51.50 51	57.971 305	77.00 57
		402	3	214	12		28	306	6
4	9.8	15.507	74.85	6.644	30.45	48.011	51.78	57.665	77.06
	19.7	15.118 389	74.36 49	6.439 205	29.95 50	47.798 213	51.81 3	57.368 297	76.63 43
	29.7	14.753 365	73.36 100	6.253 186	29.07 88	47.607 191	51.63 18	57.091 277	75.72 91
5	9.7	14.422 331	71.88 148	6.092 161	27.84 123	47.450 157	51.23 40	56.842 249	74.35 137
	19.6	14.135 287	69.95 193	5.963 129	26.29 155	47.332 118	50.66 57	56.629 213	72.55 180
		236	234	94	184	73	73	172	219
	29.6	13.899	67.61	5.869	24.45	47.259	49.93	56.457	70.36
6	8.6	13.720 179	64.93 268	5.813 56	22.35 210	47.235 24	49.09 84	56.332 125	67.84 252
	18.6	13.602 118	61.96 297	5.797 16	20.05 230	47.258 23	48.17 92	56.256 76	65.06 278
	28.5	13.547 55	58.79 317	5.821 24	17.61 244	47.329 71	47.19 98	56.230 26	62.07 299
7	8.5	13.558 11	55.49 330	5.883 62	15.09 252	47.446 117	46.18 101	56.255 25	58.95 312
		75	332	100	253	160	101	76	314
	18.5	13.633	52.17	5.983	12.56	47.606	45.17	56.331	55.81
	28.5	13.771 138	48.91 326	6.118 135	10.10 246	47.806 200	44.17 100	56.456 125	52.71 310
8	7.4	13.971 200	45.81 310	6.287 169	7.79 231	48.042 236	43.20 97	56.628 172	49.78 293
	17.4	14.227 256	42.99 282	6.486 199	5.70 209	48.309 267	42.27 93	56.844 216	47.09 269
	27.4	14.535 308	40.53 246	6.713 227	3.91 179	48.605 296	41.39 88	57.101 257	44.74 235
		353	202	250	142	320	83	292	192
9	6.3	14.888	38.51	6.963	2.49	48.925	40.56	57.393	42.82
	16.3	15.279 391	37.03 148	7.234 271	1.50 99	49.266 341	39.80 76	57.715 322	41.40 142
	26.3	15.698 419	36.15 88	7.521 287	0.99 51	49.624 358	39.11 69	58.062 347	40.55 85
10	6.3	16.137 439	35.89 26	7.821 300	1.00 1	49.995 371	38.51 60	58.426 364	40.30 25
	16.2	16.583 446	36.29 40	8.128 307	1.52 52	50.375 380	38.01 50	58.798 372	40.69 39
		442	106	308	103	383	37	373	100
	26.2	17.025	37.35	8.436	2.55	50.758	37.64	59.171	41.69
11	5.2	17.450 425	39.02 167	8.739 303	4.06 151	51.139 381	37.42 22	59.535 364	43.29 160
	15.2	17.845 395	41.26 224	9.030 291	5.99 193	51.511 372	37.36 6	59.879 344	45.43 214
	25.1	18.198 353	43.98 272	9.302 272	8.29 230	51.863 352	37.50 14	60.193 314	48.04 261
12	5.1	18.497 299	47.10 312	9.545 243	10.85 256	52.189 326	37.83 33	60.468 275	51.03 299
		235	340	208	274	288	54	226	325
	15.1	18.732	50.50	9.753	13.59	52.477	38.37	60.694	54.28
	25.0	18.894 162	54.06 356	9.919 166	16.41 282	52.720 243	39.11 74	60.864 170	57.69 341
	35.0	18.979 85	57.67 361	10.037 118	19.22 281	52.908 188	40.03 92	60.971 107	61.15 346
平位		s 15.645	″ 50.67	s 6.803	″ 11.04	s 48.374	″ 49.83	s 57.747	″ 53.93
sec δ, tan δ		+ 1.820	− 1.520	+ 1.115	− 0.494	+ 1.294	+ 0.822	+ 1.457	− 1.060
2 回正中		1 月 7 日		1 月 8 日		1 月 8 日		1 月 9 日	
a	b	+ 0.0558	+ 0.0276	+ 0.1217	+ 0.0094	+ 0.2057	− 0.0160	+ 0.0860	+ 0.0215
a′	b′	− 0.2725	− 0.9621	− 0.2845	− 0.9587	− 0.2916	− 0.9566	− 0.3047	− 0.9525
FK3番號		272		273		274		275	

星名	64 Auri		λ Gemi		π Pupp		δ Gemi	
等級 スペクトル型	5.75	A3	3.65	A2	2.74	K5	3.51	F0
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 7 14	° ′ +40 58	h m 7 14	° ′ +16 38	h m 7 15	° ′ −36 59	h m 7 16	° ′ +22 5
	s	″	s	″	s	″	s	″
1 1.0	9.287	57.93	52.948	28.59	11.056	47.83	47.203	7.04
11.0	9.445 158	59.01 108	53.077 129	28.14 45	11.139 83	51.01 318	47.340 137	6.94 10
20.9	9.539 94	60.22 121	53.156 79	27.85 29	11.164 25	54.07 306	47.424 84	6.99 5
30.9	9.568 29	61.52 130	53.181 25	27.71 14	11.131 33	56.90 283	47.454 30	7.17 18
2 9.9	9.533 35	62.83 131	53.156 25	27.69 2	11.043 88	59.45 255	47.430 24	7.46 29
	95	127	72	9	139	221	72	36
19.9	9.438	64.10	53.084	27.78	10.904	61.66	47.358	7.82
29.9	9.292 146	65.26 116	52.971 113	27.96 18	10.724 180	63.48 182	47.244 114	8.23 41
3 10.8	9.106 186	66.27 101	52.826 145	28.20 24	10.509 215	64.87 139	47.096 148	8.66 43
20.8	8.890 216	67.08 81	52.658 168	28.47 27	10.272 237	65.82 95	46.924 172	9.07 41
30.8	8.660 230	67.65 57	52.480 178	28.76 29	10.023 249	66.32 50	46.740 184	9.44 37
	231	33	180	29	251	4	185	31
4 9.8	8.429 221	67.98 7	52.300 170	29.05 28	9.772	66.36 42	46.555 176	9.75
19.7	8.208 198	68.05 17	52.130 151	29.33 28	9.529 243	65.94 85	46.379 157	10.00 25
29.7	8.010 166	67.88 40	51.979 127	29.61 28	9.304 225	65.09 126	46.222 131	10.20 20
5 9.7	7.844 126	67.48 60	51.852 94	29.89 28	9.104 200	63.83 166	46.091 98	10.33 13
19.6	7.718 82	66.88 76	51.758 59	30.17 28	8.937 167	62.17 200	45.993 63	10.42 9
					131			6
29.6	7.636	66.12	51.699	30.45	8.806	60.17	45.930	10.48
6 8.6	7.603 33	65.22 90	51.677 22	30.74 29	8.715 91	57.86 231	45.907 23	10.51 3
18.6	7.618 15	64.22 100	51.694 17	31.04 30	8.666 49	55.30 256	45.923 16	10.51 0
28.5	7.682 64	63.15 107	51.748 54	31.34 30	8.662 4	52.56 274	45.979 56	10.51 0
7 8.5	7.793 111	62.04 111	51.839 91	31.65 31	8.700 38	49.71 285	46.071 92	10.49 2
	155	112	125	29	82	289	129	4
18.5	7.948	60.92	51.964	31.94	8.782	46.82	46.200	10.45
28.5	8.144 196	59.81 111	52.120 156	32.20 26	8.904 122	44.00 282	46.361 161	10.39 6
8 7.4	8.377 233	58.72 109	52.306 186	32.41 21	9.066 162	41.31 269	46.552 191	10.30 9
17.4	8.644 267	57.66 106	52.517 211	32.56 15	9.264 198	38.85 246	46.770 218	10.15 15
27.4	8.940 296	56.66 100	52.751 234	32.60 4	9.495 231	36.72 213	47.011 241	9.95 20
	321	94	255	7	261	174	263	29
9 6.3	9.261	55.72	53.006	32.53	9.756	34.98	47.274	9.66
16.3	9.606 345	54.85 87	53.278 272	32.34 19	10.043 287	33.72 126	47.555 281	9.30 36
26.3	9.968 362	54.07 78	53.566 288	32.01 33	10.350 307	32.98 74	47.853 298	8.84 46
10 6.3	10.346 378	53.39 68	53.866 300	31.53 48	10.673 323	32.81 17	48.163 310	8.30 54
16.2	10.733 387	52.83 56	54.174 308	30.92 61	11.006 333	33.22 41	48.482 319	7.68 62
	393	42	314	72	335	99	324	68
26.2	11.126	52.41	54.488	30.20	11.341	34.21	48.806	7.00
11 5.2	11.517 391	52.15 26	54.801 313	29.40 80	11.670 329	35.75 154	49.131 325	6.30 70
15.2	11.899 382	52.08 7	55.107 306	28.54 86	11.986 316	37.79 204	49.449 318	5.60 70
25.1	12.263 364	52.22 14	55.400 293	27.67 87	12.279 293	40.26 247	49.754 305	4.94 66
12 5.1	12.601 338	52.57 35	55.673 273	26.84 83	12.540 261	43.06 280	50.038 284	4.36 58
	300	58	243	76	221	305	253	48
15.1	12.901	53.15	55.916	26.08	12.761	46.11	50.291	3.88
25.0	13.156 255	53.94 79	56.122 206	25.43 65	12.935 174	49.30 319	50.507 216	3.54 34
35.0	13.355 199	54.92 98	56.284 162	24.90 53	13.055 120	52.51 321	50.678 171	3.35 19
平位	s 8.735	″ 65.42	s 52.508	″ 35.05	s 9.842	″ 44.74	s 46.768	″ 13.79
sec δ, tan δ	+ 1.325	+ 0.869	+ 1.044	+ 0.299	+ 1.252	− 0.753	+ 1.079	+ 0.406
2 回正中	1 月 10 日		1 月 10 日		1 月 10 日		1 月 10 日	
a b	+ 0.2082	− 0.0184	+ 0.1722	− 0.0064	+ 0.1058	+ 0.0162	+ 0.1789	− 0.0089
a′ b′	− 0.3179	− 0.9481	− 0.3209	− 0.9471	− 0.3221	− 0.9467	− 0.3288	− 0.9444
FK3番號	276		277		278		279	

星名	δ Voln		19 Lync *sq*		η CMaj		ε Gemi	
等級 スペクトル型	4.02	F5	5.61	B8	2.43	B5p	3.89	K0
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 7 16	° ′ −67 51	h m 7 18	° ′ +55 23	h m 7 21	° ′ −29 11	h m 7 22	° ′ +27 54
	s	″	s	″	s	″	s	″
1 1.0	55.72	18.18	19.135	13.20	53.709	36.89	15.452	32.97
11.0	55.75 3	21.86 368	19.331 196	15.09 189	53.807 98	39.82 293	15.601 149	33.21 24
20.9	55.66 9	25.46 360	19.444 113	17.10 201	53.852 45	42.62 280	15.695 94	33.61 40
30.9	55.46 20	28.86 340	19.473 29	19.15 205	53.842 10	45.20 258	15.732 37	34.13 52
2 9.9	55.15 31	31.99 313	19.418 55	21.17 202	53.779 63	47.52 232	15.713 19	34.74 61
	39	276	133	190	109	200	70	67
19.9	54.76 48	34.75	19.285 200	23.07 170	53.670	49.52	15.643	35.41
29.9	54.28 53	37.10 235	19.085 254	24.77 143	53.518 152	51.17 165	15.527 116	36.08 67
3 10.8	53.75 58	38.98 188	18.831 294	26.20 110	53.335 183	52.42 125	15.375 152	36.72 64
20.8	53.17 61	40.36 138	18.537 314	27.30 74	53.129 206	53.28 86	15.197 178	37.29 57
30.8	52.56 61	41.22 86	18.223 319	28.04 35	52.910 219	53.73 45	15.006 191	37.76 47
		32			221	4	195	37
4 9.8	51.95 61	41.54	17.904	28.39	52.689	53.77	14.811	38.13
19.7	51.34 57	41.32 22	17.597 307	28.36 3	52.475 214	53.40 37	14.626 185	38.36 23
29.7	50.77 54	40.57 75	17.317 280	27.95 41	52.277 198	52.64 76	14.459 167	38.48 12
5 9.7	50.23 54	39.31 126	17.076 241	27.19 76	52.102 175	51.50 114	14.318 141	38.48 0
19.7	49.75 48	37.58 173	16.886 190	26.13 106	51.957 145	50.02 148	14.211 107	38.38 10
	42	218	133	133	111	180	71	18
29.6	49.33	35.40	16.753	24.80	51.846	48.22	14.140	38.20
6 8.6	48.99 34	32.85 255	16.681 72	23.25 155	51.771 75	46.15 207	14.111 29	37.94 26
18.6	48.73 26	29.96 289	16.674 7	21.54 171	51.735 36	43.84 231	14.122 11	37.64 30
28.5	48.57 16	26.84 312	16.732 58	19.72 182	51.739 4	41.37 247	14.174 52	37.29 35
7 8.5	48.49 8	23.54 330	16.852 120	17.84 188	51.782 43	38.80 257	14.265 91	36.92 37
	2	337	181	190	81	260	129	40
18.5	48.51	20.17	17.033	15.94	51.863	36.20	14.394	36.52
28.5	48.63 12	16.83 334	17.270 237	14.07 187	51.981 118	33.65 255	14.557 163	36.10 42
8 7.4	48.84 21	13.61 322	17.558 288	12.25 182	52.135 154	31.22 243	14.752 195	35.65 45
17.4	49.14 30	10.63 298	17.893 335	10.54 171	52.321 186	29.01 221	14.975 223	35.18 47
27.4	49.53 39	7.97 266	18.268 375	8.95 159	52.536 215	27.09 192	15.224 249	34.68 50
	46	223	412	143	243	156	271	55
9 6.4	49.99	5.74 171	18.680 444	7.52 126	52.779 267	25.53 112	15.495 292	34.13 58
16.3	50.51 52	4.03 114	19.124 469	6.26 104	53.046 286	24.41 64	15.787 309	33.55 62
26.3	51.08 57	2.89 50	19.593 489	5.22 82	53.332 302	23.77 12	16.096 324	32.93 65
10 6.3	51.68 60	2.39 16	20.082 502	4.40 56	53.634 312	23.65 43	16.420 333	32.28 66
16.2	52.30 62	2.55 83	20.584 508	3.84 29	53.946 317	24.08 95	16.753 340	31.62 66
	61							
26.2	52.91	3.38	21.092	3.55	54.263	25.03	17.093	30.96
11 5.2	53.51 60	4.86 148	21.597 505	3.56 1	54.576 313	26.48 145	17.434 341	30.33 63
15.2	54.05 54	6.93 207	22.089 492	3.89 33	54.880 304	28.40 192	17.769 335	29.76 57
25.1	54.54 49	9.53 260	22.557 468	4.54 65	55.165 285	30.70 230	18.091 322	29.29 47
12 5.1	54.95 41	12.56 303	22.989 432	5.51 97	55.424 259	33.31 261	18.391 300	28.95 34
	31	337	382	127	224	283	270	19
15.1	55.26	15.93	23.371	6.78	55.648	36.14	18.661	28.76
25.1	55.47 21	19.51 358	23.694 323	8.33 155	55.829 181	39.08 294	18.892 231	28.73 3
35.0	55.57 10	23.19 368	23.943 249	10.11 178	55.963 134	42.03 295	19.077 185	28.88 15
平位	s 51.832	″ 17.01	s 18.285	″ 21.19	s 52.733	″ 33.80	s 15.016	″ 40.05
sec δ, tan δ	+ 2.653	− 2.457	+ 1.761	+ 1.449	+ 1.145	− 0.559	+ 1.132	+ 0.530
2 回正中	1 月 10 日		1 月 11 日		1 月 12 日		1 月 12 日	
a b	− 0.0014	+ 0.0539	+ 0.2443	− 0.0324	+ 0.1184	+ 0.0130	+ 0.1864	− 0.0124
a′ b′	− 0.3291	− 0.9443	− 0.3351	− 0.9422	− 0.3497	− 0.9369	− 0.3512	− 0.9363
FK3番號	281		280		283		282	

星名	β CMin		Grb 1308 Caml		ρ Gemi		α Gemi A	
等級	3.09		5.80		4.18		1.99 2.85	
スペクトル型	B8		K0		F0		A0 A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 7 24	° ′ + 8 24	h m 7 25	° ′ +68 34	h m 7 25	° ′ + 31 53	h m 7 31	° ′ +32 0
	s	″	s	″	s	″	s	″
1 1.0	7.288 131	7.55 98	5.81 28	50.35 250	31.135 158	44.01 49	2.136 163	40.08 47
11.0	7.419 82	6.57 83	6.09 15	52.85 263	31.293 101	44.50 64	2.299 107	40.55 63
20.9	7.501 30	5.74 66	6.24 2	55.48 266	31.394 42	45.14 77	2.406 48	41.18 76
30.9	7.531 19	5.08 49	6.26 10	58.14 258	31.436 16	45.91 85	2.454 11	41.94 85
2 9.9	7.512 65	4.59 32	6.16 22	60.72 241	31.420 70	46.76 88	2.443 66	42.79 89
19.9	7.447 105	4.27 17	5.94 32	63.13 213	31.350 117	47.64 86	2.377 113	43.68 87
29.9	7.342 137	4.10 4	5.62 41	65.26 178	31.233 156	48.50 79	2.264 153	44.55 82
3 10.8	7.205 160	4.06 7	5.21 47	67.04 136	31.077 183	49.29 69	2.111 182	45.37 72
20.8	7.045 172	4.13 18	4.74 50	68.40 89	30.894 199	49.98 56	1.929 197	46.09 58
30.8	6.873 175	4.31 26	4.24 52	69.29 41	30.695 201	50.54 40	1.732 202	46.67 43
4 9.8	6.698 166	4.57 35	3.72 51	69.70 — 9	30.494 194	50.94 23	1.530 195	47.10 26
19.7	6.532 151	4.92 42	3.21 47	69.61 57	30.300 175	51.17 8	1.335 177	47.36 10
29.7	6.381 127	5.34 48	2.74 42	69.04 101	30.125 148	51.25 8	1.158 152	47.46 6
5 9.7	6.254 98	5.82 56	2.32 34	68.03 141	29.977 115	51.17 22	1.006 119	47.40 21
19.7	6.156 66	6.38 61	1.98 26	66.62 176	29.862 76	50.95 33	0.887 81	47.19 32
29.6	6.090 30	6.99 67	1.72 17	64.86 204	29.786 35	50.62 43	0.806 41	46.87 44
6 8.6	6.060 6	7.66 72	1.55 7	62.82 225	29.751 8	50.19 51	0.765 2	46.43 52
18.6	6.066 41	8.38 74	1.48 3	60.57 241	29.759 51	49.68 56	0.767 44	45.91 58
28.5	6.107 76	9.12 76	1.51 12	58.16 250	29.810 91	49.12 61	0.811 84	45.33 63
7 8.5	6.183 110	9.88 74	1.63 23	55.66 251	29.901 130	48.51 64	0.895 124	44.70 67
18.5	6.293 140	10.62 71	1.86 31	53.15 249	30.031 166	47.87 65	1.019 159	44.03 69
28.5	6.433 168	11.33 63	2.17 40	50.66 239	30.197 200	47.22 67	1.178 193	43.34 72
8 7.4	6.601 194	11.96 52	2.57 47	48.27 226	30.397 229	46.55 69	1.371 224	42.62 74
17.4	6.795 218	12.48 38	3.04 55	46.01 208	30.626 256	45.86 70	1.595 251	41.88 75
27.4	7.013 238	12.86 22	3.59 60	43.93 185	30.882 281	45.16 71	1.846 276	41.13 77
9 6.4	7.251 257	13.08 — 1	4.19 66	42.08 159	31.163 302	44.45 72	2.122 297	40.36 77
16.3	7.508 274	13.09 19	4.85 70	40.49 129	31.465 320	43.73 73	2.419 317	39.59 79
26.3	7.782 287	12.90 42	5.55 73	39.20 96	31.785 335	43.00 71	2.736 334	38.80 78
10 6.3	8.069 296	12.48 64	6.28 75	38.24 60	32.120 347	42.29 69	3.070 345	38.02 75
16.2	8.365 303	11.84 84	7.03 77	37.64 22	32.467 354	41.60 64	3.415 353	37.27 70
26.2	8.668 304	11.00 100	7.80 75	37.42 — 18	32.821 355	40.96 57	3.768 356	36.57 63
11 5.2	8.972 299	10.00 114	8.55 74	37.60 60	33.176 349	40.39 46	4.124 352	35.94 52
15.2	9.271 287	8.86 123	9.29 69	38.20 102	33.525 336	39.93 34	4.476 339	35.42 39
25.1	9.558 267	7.63 126	9.98 64	39.22 142	33.861 315	39.59 17	4.815 318	35.03 22
12 5.1	9.825 240	6.37 124	10.62 56	40.64 179	34.176 283	39.42 1	5.133 287	34.81 3
15.1	10.065 205	5.13 117	11.18 47	42.43 212	34.459 243	39.43 20	5.420 248	34.78 16
25.1	10.270 163	3.96 106	11.65 36	44.55 238	34.702 195	39.63 38	5.668 201	34.94 35
35.0	10.433	2.90	12.01	46.93	34.897	40.01	5.869	35.29
平位	s 6.833	″ 13.39	s 4.212	″ 58.82	s 30.688	″ 51.35	s 1.690	″ 46.60
sec δ, tan δ	+ 1.011	+ 0.148	+ 2.739	+ 2.549	+ 1.178	+ 0.622	+ 1.179	+ 0.625
2 回正中	1 月 12 日		1 月 12 日		1 月 13 日		1 月 14 日	
a b	+ 0.1625	− 0.0035	+ 0.3117	− 0.0617	+ 0.1920	− 0.0151	+ 0.1918	− 0.0161
a′ b′	− 0.3588	− 0.9334	− 0.3627	− 0.9319	− 0.3645	− 0.9312	− 0.3868	− 0.9222
FK3番號	285		284		286		287	

星名	108 G. Pupp		25 Mono		127 G. Pupp		α CMin A	
等級	4.52		5.17		4.62		0.48	
スペクトル型	F8		F5		B8		F5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 7 31	° ′ −22 10	h m 7 34	° ′ − 3 59	h m 7 35	° ′ −34 50	h m 7 36	° ′ + 5 21
	s	″	s	″	s	″	s	″
1 1.0	40.047 114	29.53 266	30.125 131	9.00 174	18.797 109	30.64 316	22.734 135	65.32 122
11.0	40.161 63	32.19 252	30.256 82	10.74 159	18.906 53	33.80 305	22.869 87	64.10 107
20.9	40.224 11	34.71 234	30.338 32	12.33 141	18.959 5	36.85 287	22.956 36	63.03 88
30.9	40.235 40	37.05 208	30.370 17	13.74 119	18.954 61	39.72 261	22.992 14	62.15 70
2 9.9	40.195 87	39.13 179	30.353 63	14.93 97	18.893 111	42.33 229	22.978 60	61.45 51
19.9	40.108 128	40.92 146	30.290 103	15.90 73	18.782 156	44.62 192	22.918 100	60.94 33
29.9	39.980 161	42.38 112	30.187 135	16.63 50	18.626 192	46.54 153	22.818 134	60.61 16
3 10.9	39.819 184	43.50 76	30.052 158	17.13 28	18.434 217	48.07 110	22.684 157	60.45 2
20.8	39.635 197	44.26 40	29.894 172	17.41 6	18.217 233	49.17 66	22.527 170	60.43 11
30.8	39.438 201	44.66 5	29.722 176	17.47 15	17.984 239	49.83 23	22.357 174	60.54 24
4 9.8	39.237 195	44.71 — 32	29.546 170	17.32 34	17.745 233	50.06 — 22	22.183 168	60.78 33
19.7	39.042 181	44.39 66	29.376 156	16.98 54	17.512 219	49.84 64	22.015 153	61.11 44
29.7	38.861 160	43.73 98	29.220 135	16.44 72	17.293 199	49.20 106	21.862 132	61.55 53
5 9.7	38.701 133	42.75 129	29.085 108	15.72 89	17.094 170	48.14 144	21.730 104	62.08 62
19.7	38.568 102	41.46 158	28.977 78	14.83 104	16.924 137	46.70 180	21.626 73	62.70 69
29.6	38.466 67	39.88 181	28.899 45	13.79 117	16.787 100	44.90 211	21.553 39	63.39 77
6 8.6	38.399 31	38.07 202	28.854 11	12.62 128	16.687 62	42.79 237	21.514 4	64.16 81
18.6	38.368 6	36.05 217	28.843 24	11.34 136	16.625 20	40.42 257	21.510 31	64.97 85
28.6	38.374 42	33.88 227	28.867 57	9.98 141	16.605 20	37.85 271	21.541 64	65.82 86
7 8.5	38.416 78	31.61 229	28.924 91	8.57 140	16.625 61	35.14 276	21.605 98	66.68 85
18.5	38.494 112	29.32 226	29.015 120	7.17 136	16.686 101	32.38 273	21.703 128	67.53 80
28.5	38.606 145	27.06 214	29.135 150	5.81 127	16.787 139	29.65 263	21.831 157	68.33 72
8 7.4	38.751 175	24.92 195	29.285 177	4.54 112	16.926 176	27.02 242	21.988 182	69.05 60
17.4	38.926 203	22.97 169	29.462 201	3.42 93	17.102 209	24.60 214	22.170 207	69.65 44
27.4	39.129 228	21.28 137	29.663 224	2.49 69	17.311 241	22.46 178	22.377 228	70.09 26
9 6.4	39.357 252	19.91 97	29.887 244	1.80 40	17.552 268	20.68 133	22.605 249	70.35 — 3
16.3	39.609 272	18.94 53	30.131 262	1.40 — 9	17.820 293	19.35 83	22.854 265	70.38 20
26.3	39.881 288	18.41 — 6	30.393 277	1.31 25	18.113 311	18.52 28	23.119 280	70.18 46
10 6.3	40.169 299	18.35 43	30.670 289	1.56 58	18.424 324	18.24 27	23.399 292	69.72 70
16.3	40.468 306	18.78 91	30.959 296	2.14 91	18.748 332	18.51 86	23.691 299	69.02 93
26.2	40.774 306	19.69 137	31.255 299	3.05 120	19.080 330	19.37 139	23.990 301	68.09 113
11 5.2	41.080 299	21.06 178	31.554 294	4.25 146	19.410 322	20.76 190	24.291 298	66.96 130
15.2	41.379 285	22.84 213	31.848 283	5.71 167	19.732 303	22.66 234	24.589 287	65.66 141
25.1	41.664 262	24.97 241	32.131 265	7.38 180	20.035 277	25.00 270	24.876 268	64.25 147
12 5.1	41.926 231	27.38 259	32.396 237	9.18 186	20.312 240	27.70 296	25.144 243	62.78 146
15.1	42.157 192	29.97 268	32.633 203	11.04 187	20.552 197	30.66 311	25.387 208	61.32 141
25.1	42.349 148	32.65 269	32.836 162	12.91 180	20.749 145	33.77 317	25.595 166	59.91 131
35.0	42.497	35.34	32.998	14.71	20.894	36.94	25.761	58.60
平位	s 39.241	″ 26.54	s 29.590	″ 4.47	s 17.671	″ 29.05	s 22.270	″ 71.94
sec δ, tan δ	+ 1.080	− 0.408	+ 1.002	− 0.070	+ 1.218	− 0.696	+ 1.004	+ 0.094
2 回正中	1 月 14 日		1 月 15 日		1 月 15 日		1 月 15 日	
a b	+ 0.1283	+ 0.0106	+ 0.1491	+ 0.0019	+ 0.1109	+ 0.0187	+ 0.1590	− 0.0026
a′ b′	− 0.3893	− 0.9211	− 0.4007	− 0.9162	− 0.4039	− 0.9148	− 0.4082	− 0.9129
FK3番號	288		289		290		291	

本初子午線正中時

星名		24 Lync		26 α Mono		ι Gemi		β Gemi	
等級		4.96		4.07		3.68		1.21	
スペクトル型		A2		K0		G5		K0	
世界時		赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月	日	h m 7 38	° ′ +58 50	h m 7 38	° ′ −9 25	h m 7 41	° ′ +24 31	h m 7 41	° ′ +28 9
		s	″	s	″	s	″	s	″
1	1.0	17.639	28.52	34.858	13.02	4.517	55.35	53.884	39.93
	11.0	17.883 244	30.50 198	34.989 131	15.07 205	4.681 164	55.32 3	54.052 168	40.12 19
	20.9	18.038 155	32.65 215	35.071 82	16.98 191	4.793 112	55.45 13	54.166 114	40.48 36
	30.9	18.100 62	34.88 223	35.102 31	18.70 172	4.849 56	55.75 30	54.222 56	41.01 53
2	9.9	18.070 30	37.11 223	35.084 18	20.20 150	4.850 1	56.18 43	54.221 1	41.65 64
		118	214	64	124	51	52	54	71
	19.9	17.952	39.25	35.020	21.44	4.799	56.70	54.167	42.36
	29.9	17.757 195	41.20 195	34.916 104	22.43 99	4.702 97	57.28 58	54.065 102	43.11 75
3	10.9	17.497 260	42.89 169	34.778 138	23.15 72	4.567 135	57.87 59	53.925 140	43.84 73
	20.8	17.189 308	44.25 136	34.617 161	23.60 45	4.405 162	58.43 56	53.756 169	44.51 67
	30.8	16.851 338	45.23 98	34.442 175	23.78 18	4.225 180	58.95 52	53.569 187	45.10 59
		351	57	179	7	185	43	193	47
4	9.8	16.500	45.80 16	34.263	23.71	4.040	59.38	53.376	45.57
	19.7	16.156 344	45.96 26	34.089 174	23.39 32	3.861 179	59.73 35	53.189 187	45.91 34
	29.7	15.835 321	45.70 65	33.927 162	22.83 56	3.695 166	59.99 26	53.016 173	46.12 21
5	9.7	15.549 286	45.05 101	33.786 141	22.05 78	3.552 143	60.15 16	52.867 149	46.20 8
	19.7	15.313 236	44.04 133	33.670 116	21.05 100	3.438 114	60.23 8	52.748 119	46.17 3
		179		85	120	80	0	85	14
	29.6	15.134 114	42.71	33.585 53	19.85 136	3.358 43	60.23 —	52.663 46	46.03
6	8.6	15.020 48	41.12 159	33.532 19	18.49 150	3.315 5	60.16 7	52.617 7	45.79 24
	18.6	14.972 22	39.32 180	33.513 15	16.99 160	3.310 33	60.04 12	52.610 33	45.49 30
	28.6	14.994 89	37.35 197	33.528 49	15.39 166	3.343 70	59.87 17	52.643 72	45.11 38
7	8.5	15.083 156	35.28 207	33.577 82	13.73 168	3.413 107	59.66 21	52.715 108	44.69 42
			212				25		47
	18.5	15.239	33.16	33.659	12.05	3.520	59.41	52.823	44.22
	28.5	15.457 218	31.02 214	33.773 114	10.42 163	3.660 140	59.11 30	52.967 144	43.70 52
8	7.4	15.734 277	28.93 209	33.916 143	8.88 154	3.831 171	58.77 34	53.142 175	43.15 55
	17.4	16.065 331	26.90 203	34.087 171	7.50 138	4.031 200	58.37 40	53.348 206	42.55 60
	27.4	16.444 379	24.99 191	34.283 196	6.34 116	4.257 226	57.91 46	53.580 232	41.91 64
		424	175	220	90	250	53	257	69
9	6.4	16.868 462	23.24 158	34.503 241	5.44 58	4.507 272	57.38 61	53.837 280	41.22 74
	16.3	17.330 494	21.66 136	34.744 261	4.86 23	4.779 292	56.77 69	54.117 300	40.48 78
	26.3	17.824 522	20.30 111	35.005 276	4.63 15	5.071 308	56.08 75	54.417 317	39.70 82
10	6.3	18.346 541	19.19 84	35.281 288	4.78 53	5.379 323	55.33 81	54.734 330	38.88 83
	16.3	18.887 553	18.35 53	35.569 297	5.31 91	5.702 331	54.52 84	55.064 340	38.05 83
	26.2	19.440	17.82 20	35.866	6.22	6.033	53.68	55.404	37.22
11	5.2	19.995 555	17.62 16	36.165 299	7.48 126	6.368 335	52.83 85	55.748 344	36.43 79
	15.2	20.542 547	17.78 52	36.461 296	9.05 157	6.701 333	52.02 81	56.089 341	35.71 72
	25.1	21.066 524	18.30 88	36.745 284	10.87 182	7.025 324	51.28 74	56.421 332	35.10 61
12	5.1	21.556 490	19.18 124	37.011 266	12.87 200	7.330 305	50.64 64	56.734 313	34.62 48
		440		238	211	279	49	285	31
	15.1	21.996	20.42	37.249	14.98	7.609	50.15	57.019	34.31
	25.1	22.373 377	21.98 156	37.452 203	17.12 214	7.851 242	49.82 33	57.267 248	34.19 12
	35.0	22.675 302	23.82 184	37.614 162	19.22 210	8.050 199	49.67 15	57.470 203	34.26 7
平位		s 16.744	″ 37.42	s 34.268	″ 9.19	s 4.128	″ 62.33	s 53.489	″ 47.19
sec δ, tan δ		+ 1.933	+ 1.654	+ 1.014	− 0.166	+ 1.099	+ 0.456	+ 1.134	+ 0.535
2回正中		1月16日		1月16日		1月17日		1月17日	
a	b	+ 0.2536	− 0.0459	+ 0.1433	+ 0.0046	+ 0.1808	− 0.0130	+ 0.1855	− 0.0154
a′	b′	− 0.4158	− 0.9095	− 0.4170	− 0.9089	− 0.4268	− 0.9043	− 0.4301	− 0.9028
FK3番號		292		293		294		295	

本初子午線正中時

星名		ζ Voln		π Gemi		† 9 Pupp *m*		213 G. Pupp	
等級		3.89		5.29		5.34		3.76	
スペクトル型		K0		K2		G0		G5	
世界時		赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月	日	h m 7 42	° ′ −72 28	h m 7 43	° ′ +33 33	h m 7 49	° ′ −13 44	h m 7 50	° ′ −40 25
		s	″	s	″	s	″	s	″
1	1.1	36.46	16.73	54.329	9.89	11.293	56.37	18.722	49.25
	11.0	36.55 9	20.43 370	54.510 181	10.40 51	11.431 138	58.67 230	18.847 125	52.60 335
	20.9	36.49 6	24.12 369	54.634 124	11.09 69	11.520 89	60.85 218	18.911 64	55.88 328
	30.9	36.30 19	27.69 357	54.697 63	11.94 85	11.558 38	62.84 199	18.913 2	59.01 313
2	9.9	35.97 33	31.04 335	54.701 4	12.89 95	11.546 12	64.61 177	18.856 57	61.89 288
		45	306	54	100	60	150	112	258
	19.9	35.52	34.10	54.647	13.89	11.486	66.11	18.744	64.47
	29.9	34.97 55	36.78 268	54.544 103	14.88 99	11.385 101	67.34 123	18.583 161	66.68 221
3	10.9	34.33 64	39.03 225	54.398 146	15.82 94	11.250 135	68.27 93	18.382 201	68.50 182
	20.8	33.63 70	40.82 179	54.221 177	16.65 83	11.090 160	68.90 63	18.151 231	69.87 137
	30.8	32.89 74	42.10 128	54.026 195	17.34 69	10.914 176	69.24 34	17.902 249	70.79 92
		77	75	203	53	182	4	259	46
4	9.8	32.12 76	42.85 23	53.823 199	17.87 35	10.732	69.28 24	17.643	71.25 1
	19.8	31.36 76	43.08 32	53.624 183	18.22 16	10.553 179	69.04 52	17.386 257	71.24 47
	29.7	30.61 75	42.76 84	53.441 160	18.38 2	10.385 168	68.52 78	17.141 245	70.77 91
5	9.7	29.89 72	41.92 134	53.281 128	18.36 19	10.236 149	67.74 103	16.914 227	69.86 134
	19.7	29.23 66	40.58 181	53.153 93	18.17 34	10.111 125	66.71 125	16.714 200	68.52 173
		59				97		168	
	29.6	28.64	38.77 225	53.060	17.83	10.014	65.46	16.546	66.79
6	8.6	28.14 50	36.52 261	53.008 52	17.36 47	9.949 65	64.01 145	16.414 132	64.71 208
	18.6	27.72 42	33.91 292	52.997 11	16.78 58	9.917 32	62.39 162	16.322 92	62.33 238
	28.6	27.41 31	30.99 292	53.028 31	16.12 66	9.919 2	60.65 174	16.272 50	59.71 262
7	8.5	27.22 19	27.84 315	53.100 72	15.38 74	9.954 35	58.83 182	16.265 7	56.92 279
		8	329	111	78	69	185	36	288
	18.5	27.14 —	24.55	53.211	14.60	10.023	56.98	16.301	54.04
	28.5	27.18 4	21.22 333	53.360 149	13.77 83	10.123 100	55.16 182	16.380 79	51.16 288
8	7.5	27.35 17	17.95 327	53.542 182	12.90 87	10.255 132	53.44 172	16.502 122	48.36 280
	17.4	27.63 28	14.84 311	53.757 215	12.02 88	10.415 160	51.87 157	16.665 163	45.73 263
	27.4	28.03 40	12.00 284	54.001 244	11.11 91	10.602 187	50.53 134	16.866 201	43.38 235
		50	247	270	93	212	106	238	200
9	6.4	28.53	9.53	54.271	10.18	10.814	49.47	17.104	41.38
	16.3	29.12 59	7.53 200	54.565 294	9.25 93	11.050 236	48.74 73	17.375 271	39.83 155
	26.3	29.78 66	6.06 147	54.881 316	8.32 93	11.307 257	48.39 35	17.675 300	38.77 106
10	6.3	30.50 72	5.21 85	55.215 334	7.41 91	11.582 275	48.44 5	17.998 323	38.28 49
	16.3	31.25 75	5.00 21	55.564 349	6.53 88	11.871 289	48.92 48	18.339 341	38.33 10
		76	46	360	82	298	89	350	70
	26.2	32.01	5.46	55.924	5.71	12.169	49.81	18.689	39.08
11	5.2	32.76 75	6.58 112	56.288 364	4.99 72	12.472 303	51.09 128	19.042 353	40.36 128
	15.2	33.46 70	8.33 175	56.650 362	4.40 59	12.772 300	52.73 164	19.387 345	42.18 182
	25.2	34.10 64	10.65 232	57.002 352	3.95 45	13.062 290	54.66 193	19.714 327	44.50 232
12	5.1	34.64 54	13.46 281	57.334 332	3.70 25	13.334 272	56.81 215	20.014 300	47.22 272
		44	320	304	5	245	230	262	303
	15.1	35.08	16.66	57.638	3.65 —	13.579	59.11	20.276	50.25
	25.1	35.39 31	20.15 349	57.903 265	3.82 17	13.791 212	61.47 236	20.492 216	53.49 324
	35.0	35.56 17	23.80 365	58.121 218	4.20 38	13.960 169	63.82 235	20.655 163	56.83 334
平位		s 31.376	″ 18.69	s 53.919	″ 17.60	s 10.659	″ 53.53	s 17.416	″ 49.46
sec δ, tan δ		+ 3.320	− 3.166	+ 1.200	+ 0.663	+ 1.029	− 0.245	+ 1.314	− 0.852
2回正中		1月17日		1月17日		1月18日		1月19日	
a	b	− 0.0370	+ 0.0913	+ 0.1931	− 0.0194	+ 0.1388	+ 0.0075	+ 0.1030	+ 0.0263
a′	b′	− 0.4326	− 0.9016	− 0.4380	− 0.8990	− 0.4586	− 0.8887	− 0.4629	− 0.8864
FK3番號		297		296		298		301	

星名		26 Lync		Grb 1374 Caml		χ Cari		53 Caml	
等級	スペクトル型	5.69	K0	5.56	K0	3.60	B3	6.00	A2p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 7 50	° ′ +47 42	h m 7 53	° ′ +74 3	h m 7 55	° ′ −52 49	h m 7 56	° ′ +60 28
		s	″	s	″	s	″	s	″
1	1.1	38.962 221	33.45 132	34.03 44	64.81 258	23.221 127	50.70 362	57.02 29	37.47 196
	11.0	39.183 152	34.77 152	34.47 27	67.39 278	23.348 53	54.32 359	57.31 19	39.43 217
	21.0	39.335 78	36.29 166	34.74 11	70.17 288	23.401 22	57.91 347	57.50 10	41.60 231
	30.9	39.413 6	37.95 172	34.85 6	73.05 285	23.379 94	61.38 324	57.60 0	43.91 234
2	9.9	39.419 65	39.67 171	34.79 22	75.90 273	23.285 161	64.62 293	57.60 9	46.25 229
	19.9	39.354	41.38	34.57	78.63	23.124	67.55	57.51	48.54
	29.9	39.227 127	43.01 163	34.20 37	81.12 249	22.904 220	70.13 258	57.33 18	50.66 212
3	10.9	39.048 179	44.47 146	33.71 49	83.28 216	22.636 268	72.28 215	57.08 25	52.55 189
	20.8	38.828 220	45.72 125	33.12 59	85.02 174	22.331 305	73.98 170	56.77 31	54.12 157
	30.8	38.583 245 257	46.70 98 67	32.47 65 69	86.29 127 75	22.001 330 342	75.19 121 70	56.43 34 36	55.33 121 79
4	9.8	38.326	47.37	31.78	87.04	21.659	75.89	56.07	56.12
	19.8	38.072 254	47.72 35	31.08 70	87.26 22	21.315 344	76.08 19	55.70 37	56.47 35
	29.7	37.833 239	47.75 3	30.41 67	86.96 30	20.982 333	75.76 32	55.36 34	56.40 7
5	9.7	37.621 212	47.47 28	29.80 61	86.15 81	20.668 314	74.94 82	55.04 32	55.91 49
	19.7	37.445 176 133	46.89 58 83	29.26 54 44	84.88 127 169	20.384 284 248	73.64 130 174	54.77 27 21	55.02 89 124
	29.6	37.312 85	46.06 107	28.82 33	83.19 205	20.136 205	71.90 215	54.56 15	53.78 154
6	8.6	37.227 35	44.99 125	28.49 21	81.14 233	19.931 159	69.75 250	54.41 9	52.24 180
	18.6	37.192 17	43.74 140	28.28 8	78.81 256	19.772 106	67.25 279	54.32 1	50.44 199
	28.6	37.209 68	42.34 152	28.20 4	76.25 271	19.666 54	64.46 300	54.31 5	48.45 215
7	8.5	37.277 117	40.82 159	28.24 18	73.54 279	19.612 3	61.46 313	54.36 13	46.30 224
	18.5	37.394 165	39.23 163	28.42 29	70.75 282	19.615 58	58.33 316	54.49 19	44.06 228
	28.5	37.559 208	37.60 165	28.71 42	67.93 278	19.673 115	55.17 311	54.68 25	41.78 228
8	7.5	37.767 250	35.95 163	29.13 52	65.15 267	19.788 169	52.06 294	54.93 31	39.50 223
	17.4	38.017 287	34.32 163	29.65 63	62.48 252	19.957 222	49.12 268	55.24 37	37.27 213
	27.4	38.304 321	32.73 159 152	30.28 71	59.96 231	20.179 270	46.44 232	55.61 41	35.14 201
	9.4	38.625	31.21	30.99	57.65	20.449	44.12	56.02	33.13
	16.3	38.977 352	29.78 143	31.79 80	55.60 205	20.765 316	42.25 187	56.48 46	31.30 183
	26.3	39.357 380	28.46 132	32.66 87	53.85 175	21.119 354	40.91 134	56.98 50	29.67 163
10	6.3	39.760 403	27.29 117	33.58 92	52.44 141	21.503 384	40.16 75	57.51 53	28.29 138
	16.3	40.182 422 436	26.29 100 80	34.55 97 98	51.42 102 61	21.911 408 419	40.03 13 52	58.07 56 57	27.18 111 79
	26.2	40.618	25.49	35.53	50.81	22.330	40.55	58.64	26.39
11	5.2	41.059 441	24.93 56	36.53 100	50.64 17	22.750 420	41.71 116	59.23 59	25.96 43
	15.2	41.498 439	24.63 30	37.51 98	50.94 30	23.159 409	43.48 177	59.81 58	25.89 7
	25.2	41.924 426	24.62 1	38.45 94	51.72 78	23.543 384	45.80 232	60.37 56	26.21 32
12	5.1	42.328 404 368	24.90 28 60	39.33 88 78	52.96 124 168	23.891 348 299	48.58 278 316	60.90 53 48	26.93 72 111
	15.1	42.696	25.50	40.11	54.64	24.190	51.74	61.38	28.04
	25.1	43.018 322	26.39 89	40.79 68	56.72 208	24.430 240	55.17 343	61.80 42	29.51 147
	35.0	43.284 266	27.56 117	41.33 54	59.13 241	24.603 173	58.75 358	62.15 35	31.30 179
平位		s 38.423	″ 42.28	s 31.959	″ 74.71	s 21.249	″ 52.61	s 56.152	″ 47.17
sec δ, tan δ		+ 1.486	+ 1.099	+ 3.643	+ 3.503	+ 1.655	− 1.319	+ 2.030	+ 1.766
2 回正中		1月19日		1月20日		1月20日		1月21日	
a	b	+ 0.2182	− 0.0340	+ 0.3588	− 0.1110	+ 0.0763	+ 0.0424	+ 0.2561	− 0.0575
a′	b′	− 0.4642	− 0.8857	− 0.4754	− 0.8798	− 0.4823	− 0.8760	− 0.4884	− 0.8726
FK3番號		299		300		303		302	

星名		27 Mono		χ Gemi		ζ Pupp		27 Lync	
等級	スペクトル型	5.06	K0	5.04	K0	2.27	Od	4.87	A2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 7 56	° ′ − 3 31	h m 8 0	° ′ +27 56	h m 8 1	° ′ −39 50	h m 8 4	° ′ +51 39
		s	″	s	″	s	″	s	″
1	1.1	56.741 153	35.76 178	5.230 189	63.17 9	38.139 139	38.64 334	15.765 254	62.57 146
	11.0	56.894 104	37.54 163	5.419 135	63.26 30	38.278 80	41.98 329	16.019 180	64.03 170
	21.0	56.998 55	39.17 144	5.554 79	63.56 47	38.358 18	45.27 316	16.199 102	65.73 185
	30.9	57.053 4	40.61 124	5.633 21	64.03 63	38.376 41	48.43 293	16.301 23	67.58 194
2	9.9	57.057 43	41.85 100	5.654 33	64.66 72	38.335 98	51.36 263	16.324 54	69.52 194
	19.9	57.014	42.85	5.621	65.38	38.237	53.99	16.270	71.46
	29.9	56.929 85	43.63 78	5.538 83	66.17 79	38.090 147	56.28 229	16.147 123	73.31 185
3	10.9	56.809 120	44.17 54	5.414 124	66.96 79	37.903 187	58.18 190	15.965 182	74.99 168
	20.8	56.663 146	44.48 31	5.258 156	67.71 75	37.683 220	59.65 147	15.736 229	76.45 146
	30.8	56.500 163 170	44.58 10 10	5.081 177 187	68.38 67 57	37.443 240 252	60.68 103 57	15.476 260 277	77.61 116 83
4	9.8	56.330	44.48	4.894	68.95	37.191	61.25	15.199	78.44
	19.8	56.162 168	44.19 29	4.710 184	69.40 45	36.940 251	61.35 10	14.920 279	78.91 47
	29.7	56.004 158	43.71 48	4.536 174	69.72 32	36.697 243	61.01 34	14.655 265	79.03 12
5	9.7	55.864 140	43.06 65	4.382 154	69.90 18	36.471 226	60.21 80	14.414 241	78.78 25
	19.7	55.747 117 90	42.24 82 95	4.255 127 95	69.94 4 6	36.270 201 172	58.99 122 161	14.208 206 163	78.21 57 89
	29.7	55.657	41.29	4.160	69.88	36.098	57.38	14.045	77.32
6	8.6	55.598 59	40.20 109	4.100 60	69.70 18	35.960 138	55.40 198	13.932 113	76.17 115
	18.6	55.572 26	39.01 119	4.078 22	69.42 28	35.861 99	53.13 227	13.872 60	74.79 138
	28.6	55.577 5	37.74 127	4.094 16	69.06 36	35.801 60	50.59 254	13.865 7	73.21 158
7	8.5	55.615 38 71	36.43 131 131	4.146 52 90	68.63 43 50	35.783 18 24	47.88 271 282	13.913 48 102	71.50 171 182
	18.5	55.686	35.12	4.236	68.13	35.807	45.06	14.015	69.68
	28.5	55.786 100	33.84 128	4.359 123	67.58 55	35.873 66	42.22 284	14.168 153	67.79 189
8	7.5	55.916 130	32.65 119	4.516 157	66.96 62	35.982 109	39.44 278	14.370 202	65.88 191
	17.4	56.074 158	31.60 105	4.703 187	66.28 68	36.131 149	36.82 262	14.617 247	63.98 190
	27.4	56.257 183 208	30.73 87 64	4.919 216 242	65.54 74 80	36.320 189 225	34.45 237 203	14.907 290 329	62.12 186 179
	9.4	56.465	30.09	5.161	64.74	36.545	32.42	15.236	60.33
	16.4	56.696 231	29.73 36	5.428 267	63.87 87	36.805 260	30.81 161	15.601 365	58.64 169
	26.3	56.947 251	29.67 6	5.717 289	62.96 91	37.096 291	29.70 111	15.998 397	57.08 156
10	6.3	57.217 270	29.94 27	6.026 309	61.99 97	37.412 316	29.13 57	16.424 426	55.70 138
	16.3	57.502 285 296	30.53 59 93	6.353 327 339	61.01 98 99	37.748 336 348	29.14 1 61	16.872 448 465	54.51 119 95
	26.2	57.798	31.46	6.692	60.02	38.096	29.75	17.337	53.56
11	5.2	58.100 302	32.67 121	7.039 347	59.07 95	38.449 353	30.94 119	17.812 475	52.88 68
	15.2	58.402 302	34.15 148	7.387 348	58.19 88	38.797 348	32.69 175	18.287 475	52.51 37
	25.2	58.696 294	35.83 168	7.728 341	57.41 78	39.130 333	34.92 223	18.752 465	52.46 5
12	5.1	58.975 279 255	37.65 182 190	8.054 326 301	56.78 63 45	39.438 308 273	37.58 266 298	19.194 442 408	52.75 29 64
	15.1	59.230	39.55	8.355	56.33	39.711	40.56	19.602	53.39
	25.1	59.453 223	41.45 190	8.621 266	56.07 26	39.940 229	43.77 321	19.962 360	54.37 98
	35.1	59.636 183	43.29 184	8.845 224	56.03 4	40.116 176	47.09 332	20.263 301	55.66 129
平位		s 56.250	″ 32.04	s 4.885	″ 70.54	s 36.879	″ 39.77	s 15.207	″ 72.06
sec δ, tan δ		+ 1.002	− 0.062	+ 1.132	+ 0.531	+ 1.302	− 0.834	+ 1.612	+ 1.265
2 回正中		1月21日		1月21日		1月22日		1月22日	
a	b	+ 0.1497	+ 0.0020	+ 0.1840	− 0.0177	+ 0.1053	+ 0.0282	+ 0.2256	− 0.0435
a′	b′	− 0.4884	− 0.8726	− 0.5003	− 0.8658	− 0.5061	− 0.8625	− 0.5160	− 0.8566
FK3番號		304		305		306		307	

星名 / 等級 / スペクトル型	ρ Pupp 2.88 F5		γ Velr 2.22 Oap		20 Pupp 5.05 G5		Br 1147 Caml 5.73 G5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 8 5	° ′ −24 8	h m 8 7	° ′ −47 10	h m 8 10	° ′ −15 37	h m 8 12	° ′ +75 55
	s	″	s	″	s	″	s	″
1 1.1	10.285 148	30.54 280	49.941 147	12.01 351	46.091 159	7.32 243	35.80 55	41.03 253
11.0	10.433 98	33.34 271	50.088 81	15.52 351	46.250 109	9.75 232	36.35 38	43.56 277
21.0	10.531 44	36.05 255	50.169 13	19.03 339	46.359 59	12.07 215	36.73 18	46.33 292
30.9	10.575 9	38.60 233	50.182 54	22.42 318	46.418 7	14.22 193	36.91 0	49.25 295
2 9.9	10.566 59	40.93 204	50.128 115	25.60 290	46.425 42	16.15 168	36.91 18	52.20 287
19.9	10.507 103	42.97 174	50.013 171	28.50 255	46.383 85	17.83 139	36.73 36	55.07 266
29.9	10.404 140	44.71 140	49.842 216	31.05 215	46.298 121	19.22 109	36.37 51	57.73 236
3 10.9	10.264 168	46.11 104	49.626 252	33.20 172	46.177 150	20.31 79	35.86 62	60.09 196
20.9	10.096 187	47.15 68	49.374 277	34.92 125	46.027 168	21.10 48	35.24 72	62.05 151
30.8	9.909 196	47.83 31	49.097 290	36.17 77	45.859 178	21.58 18	34.52 77	63.56 99
9.8	9.713 196	48.14 5	48.807 293	36.94 27	45.681 179	21.76 12	33.75 78	64.55 46
19.8	9.517 188	48.09 42	48.514 285	37.21 21	45.502 170	21.64 42	32.97 77	65.01 9
29.7	9.329 172	47.67 75	48.229 270	37.00 69	45.332 156	21.22 69	32.20 73	64.92 61
5 9.7	9.157 150	46.92 109	47.959 245	36.31 116	45.176 135	20.53 95	31.47 65	64.31 111
19.7	9.007 123	45.83 139	47.714 214	35.15 160	45.041 110	19.58 119	30.82 55	63.20 156
29.7	8.884 93	44.44 165	47.500 178	33.55 198	44.931 80	18.39 141	30.27 44	61.64 195
6 8.6	8.791 60	42.79 189	47.322 137	31.57 234	44.851 50	16.98 159	29.83 31	59.69 229
18.6	8.731 26	40.90 207	47.185 93	29.23 261	44.801 18	15.39 174	29.52 17	57.40 255
28.6	8.705 8	38.83 221	47.092 47	26.62 284	44.783 15	13.65 183	29.35 3	54.85 275
7 8.6	8.713 43	36.62 226	47.045 1	23.78 297	44.798 47	11.82 187	29.32 11	52.10 288
18.5	8.756 77	34.36 227	47.046 50	20.81 302	44.845 78	9.95 186	29.43 25	49.22 294
28.5	8.833 111	32.09 219	47.096 98	17.79 298	44.923 110	8.09 179	29.68 38	46.28 293
8 7.5	8.944 143	29.90 203	47.194 146	14.81 283	45.033 140	6.30 164	30.06 51	43.35 287
17.4	9.087 174	27.87 181	47.340 192	11.98 260	45.173 169	4.66 143	30.57 64	40.48 274
27.4	9.261 204	26.06 150	47.532 236	9.38 226	45.342 196	3.23 116	31.21 74	37.74 256
6.4	9.465 232	24.56 114	47.768 278	7.12 183	45.538 222	2.07 83	31.95 84	35.18 232
9 16.4	9.697 256	23.42 71	48.046 313	5.29 133	45.760 246	1.24 46	32.79 93	32.86 203
26.3	9.953 278	22.71 24	48.359 343	3.96 77	46.006 268	0.78 4	33.72 100	30.83 169
10 6.3	10.231 297	22.47 26	48.702 367	3.19 16	46.274 285	0.74 39	34.72 106	29.14 132
16.3	10.528 308	22.73 75	49.069 382	3.03 47	46.559 299	1.13 81	35.78 109	27.82 89
26.3	10.836 316	23.48 123	49.451 387	3.50 108	46.858 306	1.94 123	36.87 112	26.93 44
11 5.2	11.152 314	24.71 168	49.838 381	4.58 168	47.164 308	3.17 161	37.99 110	26.49 4
15.2	11.466 305	26.39 207	50.219 365	6.26 222	47.472 301	4.78 193	39.09 108	26.53 54
25.2	11.771 286	28.46 238	50.584 335	8.48 268	47.773 286	6.71 218	40.17 101	27.07 104
12 5.1	12.057 260	30.84 262	50.919 296	11.16 305	48.059 262	8.89 236	41.18 93	28.11 151
15.1	12.317 224	33.46 276	51.215 246	14.21 332	48.321 229	11.25 245	42.11 80	29.62 195
25.1	12.541 181	36.22 282	51.461 188	17.53 347	48.550 189	13.70 245	42.91 66	31.57 233
35.1	12.722	39.04	51.649	21.00	48.739	16.15	43.57	33.90
平位	s 9.493	″ 29.98	s 48.358	″ 14.54	s 45.472	″ 5.90	s 33.605	″ 51.82
sec δ, tan δ	+ 1.096	− 0.448	+ 1.471	− 1.079	+ 1.038	− 0.280	+ 4.114	+ 3.990
2 回正中	1 月 23 日		1 月 23 日		1 月 24 日		1 月 24 日	
a b	+ 0.1278	+ 0.0155	+ 0.0923	+ 0.0381	+ 0.1376	+ 0.0101	+ 0.3761	− 0.1454
a′ b′	− 0.5194	− 0.8546	− 0.5292	− 0.8485	− 0.5401	− 0.8416	− 0.5467	− 0.8373
FK3番號	308		309		311		310	

星名 / 等級 / スペクトル型	β Cncr 3.76 K2		289 G. Pupp 4.43 A5		31 Lync 4.43 K5		ε Cari 1.74 K0, B	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 8 13	° ′ + 9 21	h m 8 16	° ′ −36 28	h m 8 18	° ′ +43 21	h m 8 21	° ′ −59 19
	s	″	s	″	s	″	s	″
1 1.1	29.101 179	29.32 109	28.558 158	63.34 325	60.875 244	60.76 91	24.429 177	38.03 368
11.0	29.280 131	28.23 91	28.716 101	66.59 321	61.119 181	61.67 116	24.606 90	41.76 373
21.0	29.411 80	27.32 71	28.817 43	69.80 309	61.300 115	62.83 137	24.696 4	45.49 366
30.9	29.491 28	26.61 52	28.860 16	72.89 288	61.415 45	64.20 150	24.700 81	49.15 351
2 9.9	29.519 2	26.09 32	28.844 72	75.77 262	61.460 21	65.70 158	24.619 160	52.66 326
19.9	29.498 66	25.77 15	28.772 120	78.39 228	61.439 83	67.28 156	24.459 232	55.92 294
29.9	29.432 104	25.62 0	28.652 162	80.67 191	61.356 136	68.84 148	24.227 293	58.86 256
3 10.9	29.328 133	25.62 13	28.490 194	82.58 151	61.220 179	70.32 134	23.934 341	61.42 212
20.9	29.195 153	25.75 24	28.296 217	84.09 109	61.041 208	71.66 114	23.593 377	63.54 165
30.8	29.042 163	25.99 32	28.079 230	85.18 66	60.833 225	72.80 89	23.216 400	65.19 115
9.8	28.879 164	26.31 40	27.849 232	85.84 21	60.608 228	73.69 61	22.816 409	66.34 63
19.8	28.715 156	26.71 44	27.617 227	86.05 22	60.380 221	74.30 33	22.407 406	66.97 11
29.7	28.559 139	27.15 49	27.390 212	85.83 65	60.159 202	74.63 4	22.001 392	67.08 41
5 9.7	28.420 119	27.64 53	27.178 192	85.18 107	59.957 174	74.67 25	21.609 367	66.67 93
19.7	28.301 92	28.17 57	26.986 165	84.11 144	59.783 139	74.42 50	21.242 334	65.74 142
29.7	28.209 62	28.74 58	26.821 135	82.67 180	59.644 100	73.92 74	20.908 291	64.32 186
6 8.6	28.147 32	29.32 60	26.686 100	80.87 211	59.544 57	73.18 96	20.617 242	62.46 227
18.6	28.115 1	29.92 60	26.586 64	78.76 235	59.487 13	72.22 113	20.375 187	60.19 261
28.6	28.116 33	30.52 59	26.522 25	76.41 254	59.474 32	71.09 128	20.188 128	57.58 289
7 8.6	28.149 65	31.11 56	26.497 13	73.87 267	59.506 77	69.81 140	20.060 64	54.69 309
18.5	28.214 94	31.67 50	26.510 53	71.20 270	59.583 118	68.41 149	19.996 1	51.60 319
28.5	28.308 124	32.17 42	26.563 93	68.50 265	59.701 160	66.92 155	19.997 69	48.41 319
8 7.5	28.432 152	32.59 30	26.656 131	65.85 252	59.861 199	65.37 160	20.066 138	45.22 310
17.4	28.584 178	32.89 17	26.787 170	63.33 230	60.060 235	63.77 161	20.204 203	42.12 290
27.4	28.762 203	33.06 1	26.957 205	61.03 198	60.295 270	62.16 160	20.407 267	39.22 259
6.4	28.965 228	33.05 19	27.162 240	59.05 159	60.565 302	60.56 157	20.674 326	36.63 218
9 16.4	29.193 250	32.86 40	27.402 271	57.46 112	60.867 331	58.99 152	21.000 379	34.45 170
26.3	29.443 270	32.46 62	27.673 298	56.34 60	61.198 359	57.47 143	21.379 424	32.75 112
10 6.3	29.713 287	31.84 83	27.971 320	55.74 4	61.557 382	56.04 132	21.803 458	31.63 50
16.3	30.000 302	31.01 103	28.291 335	55.70 53	61.939 399	54.72 116	22.261 480	31.13 15
26.3	30.302 312	29.98 119	28.626 344	56.23 110	62.338 413	53.56 97	22.741 488	31.28 81
11 5.2	30.614 314	28.79 133	28.970 343	57.33 163	62.751 417	52.59 75	23.229 481	32.09 145
15.2	30.928 311	27.46 140	29.313 332	58.96 213	63.168 412	51.84 49	23.710 459	33.54 205
25.2	31.239 298	26.06 143	29.645 312	61.09 254	63.580 397	51.35 19	24.169 421	35.59 258
12 5.1	31.537 277	24.63 140	29.957 281	63.63 286	63.977 370	51.16 11	24.590 369	38.17 302
15.1	31.814 247	23.23 132	30.238 242	66.49 310	64.347 332	51.27 43	24.959 304	41.19 336
25.1	32.061 209	21.91 119	30.480 193	69.59 322	64.679 284	51.70 73	25.263 228	44.55 359
35.1	32.270	20.72	30.673	72.81	64.963	52.43	25.491	48.14
平位	s 28.751	″ 34.29	s 27.457	″ 65.30	s 60.508	″ 69.95	s 21.969	″ 43.27
sec δ, tan δ	+ 1.013	+ 0.165	+ 1.244	− 0.740	+ 1.376	+ 0.945	+ 1.960	− 1.686
2 回正中	1 月 25 日		1 月 26 日		1 月 26 日		1 月 27 日	
a b	+ 0.1625	− 0.0060	+ 0.1125	+ 0.0277	+ 0.2051	− 0.0359	+ 0.0616	+ 0.0650
a′ b′	− 0.5500	− 0.8351	− 0.5609	− 0.8279	− 0.5700	− 0.8216	− 0.5785	− 0.8157
FK3番號	312		313		314		315	

本初子午線正中時

星名		ϑ Cham		Br 1197 Hyda		β Voln		o UMaj	
等級	スペクトル型	4.26	K0	3.95	A0	3.65	K0	3.47	G0
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 8 22	° ′ −77 18	h m 8 22	° ′ − 3 43	h m 8 25	° ′ −65 56	h m 8 25	° ′ +60 54
		s	″	s	″	s	″	s	″
1	1.1	28.71	9.42	52.165	23.68	11.40	52.50	38.40	15.91
	11.1	28.97 26	13.05 363	52.341 176	25.53 185	11.60 20	56.19 369	38.74 34	17.70 179
	21.0	29.03 6	16.79 374	52.471 130	27.25 172	11.69 9	59.97 378	39.00 26	19.77 207
	30.9	28.90 13	20.51 372	52.551 80	28.78 153	11.68 1	63.72 375	39.15 15	22.04 227
2	9.9	28.59 31	24.12 361	52.581 30	30.09 131	11.56 12	67.32 360	39.21 6	24.42 238
		48	341	20	109	21	339	4	240
	19.9	28.11	27.53	52.561	31.18	11.35	70.71	39.17	26.82
	29.9	27.48 63	30.65 312	52.498 63	32.03 85	11.04 31	73.79 308	39.04 13	29.11 229
3	10.9	26.72 76	33.42 277	52.397 101	32.64 61	10.67 37	76.50 271	38.83 21	31.23 212
	20.9	25.85 87	35.78 236	52.267 130	33.03 39	10.23 44	78.78 228	38.55 28	33.07 184
	30.8	24.90 95	37.69 191	52.117 150	33.19 16	9.75 48	80.59 181	38.23 32	34.57 150
		101	142	162	4	51	131	36	112
4	9.8	23.89	39.11	51.955	33.15	9.24	81.90	37.87	35.69
	19.8	22.85 104	40.01 90	51.791 164	32.91 24	8.71 53	82.69 79	37.51 36	36.37 68
	29.8	21.80 105	40.38 37	51.634 157	32.50 41	8.18 53	82.95 26	37.15 36	36.62 25
5	9.7	20.77 103	40.21 17	51.490 144	31.91 59	7.67 51	82.67 28	36.82 33	36.42 20
	19.7	19.79 98	39.52 69	51.365 125	31.16 75	7.18 49	81.87 80	36.52 30	35.81 61
		91	121	101	89	44	131	25	101
	29.7	18.88	38.31	51.264	30.27	6.74	80.56	36.27	34.80
6	8.6	18.05 83	36.62 169	51.190 74	29.26 101	6.34 40	78.78 178	36.08 19	33.44 136
	18.6	17.33 72	34.49 213	51.145 45	28.14 112	6.00 34	76.57 221	35.95 13	31.78 166
	28.6	16.73 60	31.97 252	51.131 14	26.95 119	5.73 27	74.00 257	35.88 7	29.85 193
7	8.6	16.28 45	29.14 283	51.147 16	25.71 124	5.53 20	71.13 287	35.88 0	27.73 212
		31	307	46	125	12	309	7	229
	18.5	15.97	26.07	51.193	24.46	5.41	68.04	35.95	25.44
	28.5	15.83 14	22.86 321	51.270 77	23.24 122	5.38 3	64.81 323	36.08 13	23.06 238
8	7.5	15.86 3	19.59 327	51.375 105	22.10 114	5.43 5	61.56 325	36.28 20	20.63 243
	17.5	16.05 19	16.38 321	51.509 134	21.09 101	5.57 14	58.39 317	36.54 26	18.20 243
	27.4	16.41 36	13.34 304	51.670 161	20.26 83	5.79 22	55.39 300	36.86 32	15.81 239
		53	278	188	61	31	270	38	231
9	6.4	16.94	10.56	51.858	19.65	6.10	52.69	37.24	13.50
	16.4	17.60 66	8.16 240	52.071 213	19.31 34	6.49 39	50.38 231	37.66 42	11.34 216
	26.3	18.40 80	6.23 193	52.308 237	19.26 5	6.94 45	48.55 183	38.13 47	9.34 200
10	6.3	19.29 89	4.84 139	52.567 259	19.54 28	7.45 51	47.28 127	38.64 51	7.57 177
	16.3	20.27 98	4.07 77	52.844 277	20.14 60	8.00 55	46.63 65	39.18 54	6.06 151
		101	12	294	93	58	1	57	120
	26.3	21.28	3.95	53.138	21.07	8.58	46.64	39.75	4.86
11	5.2	22.30 102	4.49 54	53.441 303	22.31 124	9.17 59	47.32 68	40.34 59	4.00 86
	15.2	23.30 100	5.69 120	53.749 308	23.81 150	9.75 58	48.66 134	40.93 59	3.53 47
	25.2	24.23 93	7.52 183	54.053 304	25.53 172	10.31 56	50.61 195	41.51 58	3.47 6
12	5.2	25.05 82	9.90 238	54.346 293	27.40 187	10.81 50	53.11 250	42.07 56	3.83 36
		70	286	272	195	43	297	53	79
	15.1	25.75	12.76	54.618	29.35	11.24	56.08	42.60	4.62
	25.1	26.29 54	16.00 324	54.862 244	31.32 197	11.60 36	59.42 334	43.06 46	5.82 120
	35.1	26.65 36	19.52 352	55.068 206	33.24 192	11.86 26	63.02 360	43.46 40	7.40 158
平位		s 21.651	″ 16.17	s 51.733	″ 21.00	s 8.065	″ 58.71	s 37.696	″ 26.68
sec δ, tan δ		+ 4.551	− 4.439	+ 1.002	− 0.065	+ 2.454	− 2.241	+ 2.057	+ 1.797
2 回正中		1 月 27 日		1 月 27 日		1 月 28 日		1 月 28 日	
a b		− 0.0873	+ 0.1722	+ 0.1498	+ 0.0025	+ 0.0329	+ 0.0884	+ 0.2498	− 0.0711
a′ b′		− 0.5820	− 0.8132	− 0.5838	− 0.8119	− 0.5918	− 0.8061	− 0.5935	− 0.8048
FK3番號		318		316		319		317	

本初子午線正中時

星名		Grb 1450 Lync		η Cncr		Grb 1446 Caml		Grb 1460 UMaj	
等級	スペクトル型	6.05	K0	5.52	K0	6.29	K0	6.03	K0
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 8 29	° ′ +38 12	h m 8 29	° ′ +20 37	h m 8 33	° ′ +73 49	h m 8 35	° ′ +52 54
		s	″	s	″	s	″	s	″
1	1.1	17.171	27.25	28.595	51.58	33.31	29.37	9.708	23.83
	11.1	17.411 240	27.80 55	28.802 207	51.09 49	33.87 56	31.65 228	10.011 303	25.15 132
	21.0	17.595 184	28.61 81	28.960 158	50.82 27	34.28 41	34.24 259	10.243 232	26.77 162
	31.0	17.716 121	29.65 104	29.065 105	50.77 5	34.52 24	37.04 280	10.395 152	28.62 185
2	9.9	17.773 57	30.85 120	29.115 50	50.93 16	34.60 8	39.92 288	10.467 72	30.62 200
		5	132	3	31	9	287	9	207
	19.9	17.768	32.17	29.112	51.24	34.51	42.79	10.458	32.69
	29.9	17.704 64	33.52 135	29.060 52	51.70 46	34.27 24	45.52 273	10.374 84	34.73 204
3	10.9	17.590 114	34.85 133	28.966 94	52.24 54	33.90 37	48.00 248	10.224 150	36.65 192
	20.9	17.435 155	36.08 123	28.839 127	52.83 59	33.40 50	50.15 215	10.020 204	38.38 173
	30.8	17.252 183	37.17 109	28.687 152	53.44 61	32.82 58	51.87 172	9.776 244	39.85 147
		202	90	165	59	64	125	271	114
4	9.8	17.050 206	38.07 68	28.522 169	54.03 54	32.18 67	53.12 74	9.505 280	40.99 80
	19.8	16.844 201	38.75 44	28.353 163	54.57 48	31.51 67	53.86 20	9.225 276	41.79 41
	29.8	16.643 186	39.19 20	28.190 149	55.05 41	30.84 64	54.06 32	8.949 259	42.20 4
5	9.7	16.457 161	39.39 5	28.041 129	55.46 33	30.20 58	53.74 82	8.690 232	42.24 33
	19.7	16.296 131	39.34 28	27.912 104	55.79 26	29.62 51	52.92 130	8.458 195	41.91 68
	29.7	16.165 96	39.06 49	27.808 74	56.05 17	29.11 42	51.62 171	8.263 151	41.23 100
6	8.6	16.069 58	38.57 69	27.734 43	56.22 11	28.69 32	49.91 208	8.112 102	40.23 129
	18.6	16.011 18	37.88 85	27.691 10	56.33 2	28.37 20	47.83 239	8.010 51	38.94 153
	28.6	15.993 22	37.03 100	27.681 23	56.35 4	28.17 9	45.44 263	7.959 1	37.41 174
7	8.6	16.015 62	36.03 113	27.704 56	56.31 12	28.08 4	42.81 280	7.960 55	35.67 189
	18.5	16.077 100	34.90 123	27.760 87	56.19 21	28.12 15	40.01 291	8.015 107	33.78 202
	28.5	16.177 138	33.67 131	27.847 118	55.98 29	28.27 28	37.10 296	8.122 157	31.76 210
8	7.5	16.315 174	32.36 138	27.965 148	55.69 39	28.55 38	34.14 294	8.279 205	29.66 214
	17.5	16.489 208	30.98 143	28.113 175	55.30 51	28.93 49	31.20 286	8.484 252	27.52 214
	27.4	16.697 240	29.55 146	28.288 204	54.79 62	29.42 59	28.34 273	8.736 295	25.38 210
9	6.4	16.937 272	28.09 147	28.492 229	54.17 75	30.01 69	25.61 253	9.031 337	23.28 204
	16.4	17.209 300	26.62 147	28.721 255	53.42 87	30.70 77	23.08 229	9.368 376	21.24 192
	26.3	17.509 327	25.15 143	28.976 277	52.55 100	31.47 84	20.79 199	9.744 410	19.32 178
10	6.3	17.836 351	23.72 137	29.253 299	51.55 110	32.31 89	18.80 164	10.154 440	17.54 158
	16.3	18.187 369	22.35 128	29.552 315	50.45 119	33.20 95	17.16 124	10.594 466	15.96 136
	26.3	18.556	21.07	29.867	49.26	34.15	15.92	11.060	14.60
11	5.2	18.940 384	19.94 113	30.195 328	48.02 124	35.12 97	15.11 81	11.542 482	13.53 107
	15.2	19.331 391	18.97 97	30.530 335	46.78 124	36.10 98	14.78 33	12.034 492	12.76 77
	25.2	19.719 388	18.22 75	30.864 334	45.57 121	37.06 96	14.94 16	12.522 488	12.35 41
12	5.2	20.096 377	17.72 50	31.187 323	44.45 112	37.99 93	15.61 67	12.996 474	12.32 3
		355	21	305	100	86	116	445	35
	15.1	20.451	17.51	31.492	43.45	38.85	16.77	13.441	12.67
	25.1	20.772 321	17.58 7	31.768 276	42.63 82	39.61 76	18.41 164	13.845 404	13.41 74
	35.1	21.049 277	17.95 37	32.006 238	42.00 63	40.26 65	20.47 206	14.193 348	14.52 111
平位		s 16.887	″ 36.06	s 28.337	″ 57.99	s 31.726	″ 40.99	s 9.280	″ 34.30
sec δ, tan δ		+ 1.273	+ 0.787	+ 1.069	+ 0.377	+ 3.590	+ 3.448	+ 1.658	+ 1.323
2 回正中		1 月 29 日		1 月 29 日		1 月 30 日		1 月 30 日	
a b		+ 0.1951	− 0.0318	+ 0.1733	− 0.0152	+ 0.3335	− 0.1427	+ 0.2221	− 0.0552
a′ b′		− 0.6063	− 0.7953	− 0.6059	− 0.7948	− 0.6209	− 0.7839	− 0.6265	− 0.7795
FK3番號		320		321		322		323	

本初子午線正中時

星名 / 等級 スペクトル型	48 G. Velr 4.13 A5		6 Hyda 5.15 K2		α Pyxi 3.70 B2		δ Cncr 4.17 K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 8 35	° ′ −42 47	h m 8 37	° ′ −12 16	h m 8 41	° ′ −32 58	h m 8 41	° ′ +18 21
	s	″	s	″	s	″	s	″
1 1.1	41.666 184	27.65 341	22.718 185	35.28 231	21.342 186	57.28 313	30.510 215	35.24 68
11.1	41.850 123	31.06 343	22.903 139	37.59 221	21.528 134	60.41 313	30.725 167	34.56 46
21.0	41.973 60	34.49 335	23.042 88	39.80 205	21.662 77	63.54 303	30.892 115	34.10 23
31.0	42.033 4	37.84 318	23.130 37	41.85 184	21.739 20	66.57 285	31.007 62	33.87 2
2 9.9	42.029 63	41.02 295	23.167 12	43.69 160	21.759 35	69.42 261	31.069 8	33.85 17
19.9	41.966 117	43.97 263	23.155 58	45.29 133	21.724 84	72.03 231	31.077 40	34.02 33
29.9	41.849 164	46.60 228	23.097 95	46.62 105	21.640 126	74.34 197	31.037 82	34.35 45
3 10.9	41.685 202	48.88 187	23.002 128	47.67 78	21.514 162	76.31 160	30.955 117	34.80 52
20.9	41.483 230	50.75 144	22.874 149	48.45 49	21.352 187	77.91 121	30.838 143	35.32 57
30.8	41.253 248	52.19 99	22.725 163	48.94 22	21.165 204	79.12 80	30.695 157	35.89 57
4 9.8	41.005	53.18	22.562	49.16	20.961	79.92	30.538	36.46
9.8	40.751 254	53.71 53	22.395 167	49.11 5	20.751 210	80.31 39	30.375 163	37.02 56
29.8	40.498 253	53.77 6	22.231 164	48.80 31	20.542 209	80.28 3	30.215 160	37.53 51
5 9.7	40.256 242	53.36 41	22.078 153	48.25 55	20.343 199	79.85 43	30.067 148	38.00 47
19.7	40.031 225	52.51 85	21.942 136	47.46 79	20.160 183	79.03 82	29.937 130	38.40 40
	201	128	116	100	162	120	106	34
29.7	39.830	51.23	21.826	46.46	19.998	77.83	29.831	38.74
6 8.7	39.658 172	49.55 168	21.737 89	45.27 119	19.863 135	76.30 153	29.751 80	39.01 27
18.6	39.520 138	47.52 203	21.674 63	43.91 136	19.756 107	74.45 185	29.701 50	39.22 21
28.6	39.418 102	45.19 233	21.640 34	42.42 149	19.682 74	72.36 209	29.681 20	39.35 13
7 8.6	39.355 63	42.62 257	21.636 4	40.84 158	19.641 41	70.06 230	29.693 12	39.42 7
	20	274	27	162	6	244	43	2
18.5	39.335 21	39.88	21.663	39.22	19.635 31	67.62	29.736	39.40
28.5	39.356 66	37.05 283	21.719 56	37.59 163	19.666 68	65.13 249	29.810 74	39.30 10
8 7.5	39.422 109	34.23 282	21.805 86	36.04 155	19.734 104	62.64 249	29.914 104	39.11 19
17.5	39.531 152	31.51 272	21.921 116	34.60 144	19.838 141	60.26 238	30.047 133	38.80 31
27.4	39.683 195	28.97 254	22.066 145	33.35 125	19.979 177	58.07 219	30.209 162	38.36 44
		225	174	102		192	189	56
6.4	39.878 236	26.72 187	22.240 202	32.33 71	20.156 213	56.15 157	30.398 216	37.80 71
9 16.4	40.114 273	24.85 142	22.442 228	31.62 37	20.369 245	54.58 114	30.614 242	37.09 86
26.4	40.387 307	23.43 89	22.670 252	31.25 0	20.614 275	53.44 66	30.856 267	36.23 101
10 6.3	40.694 334	22.54 33	22.922 274	31.25 40	20.889 301	52.78 14	31.123 290	35.22 113
16.3	41.028 355	22.21 28	23.196 293	31.65 80	21.190 322	52.64 41	31.413 308	34.09 125
26.3	41.383	22.49	23.489	32.45	21.512	53.05	31.721	32.84
11 5.2	41.751 368	23.37 88	23.793 304	33.64 119	21.846 334	54.02 97	32.043 322	31.52 132
15.2	42.122 371	24.83 146	24.104 311	35.18 154	22.186 340	55.50 148	32.375 332	30.17 135
25.2	42.484 362	26.83 200	24.414 310	37.02 184	22.522 336	57.46 196	32.706 331	28.82 135
12 5.2	42.827 343	29.30 247	24.713 299	39.11 209	22.844 322	59.84 238	33.031 325	27.54 128
	313	287	279	225	297	272	307	117
15.1	43.140 271	32.17	24.992 252	41.36 234	23.141 262	62.56 295	33.338 281	26.37 101
25.1	43.411 220	35.33 316	25.244 214	43.70 234	23.403 219	65.51 310	33.619 245	25.36 82
35.1	43.631	38.67 334	25.458	46.04	23.622	68.61	33.864	24.54
平位	s 40.383	″ 32.14	s 22.220	″ 34.74	s 20.427	″ 60.68	s 30.285	″ 41.17
sec δ, tan δ	+ 1.363	− 0.926	+ 1.023	− 0.218	+ 1.192	− 0.649	+ 1.054	+ 0.332
2 回正中	1月30日		1月31日		2月1日		2月1日	
a b	+ 0.1053	+ 0.0388	+ 0.1421	+ 0.0092	+ 0.1203	+ 0.0280	+ 0.1702	− 0.0143
a′ b′	− 0.6282	− 0.7781	− 0.6340	− 0.7734	− 0.6473	− 0.7623	− 0.6478	− 0.7618
FK3番號	324		325		327		326	

本初子午線正中時

星名 / 等級 スペクトル型	† δ Velr m 2.01 A0		η Cham 5.62 B9		ε Cncr 4.20 G5		† ε Hyda m 3.48 F8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 8 43	° ′ −54 29	h m 8 43	° ′ −78 45	h m 8 43	° ′ +28 57	h m 8 43	° ′ + 6 37
	s	″	s	′ ″	s	″	s	″
1 1.1	11.352 207	62.19 359	24.66 37	30.13 356	18.935 234	50.55 7	48.968 203	27.84 136
11.1	11.559 133	65.78 368	25.03 17	33.69 372	19.169 183	50.48 19	49.171 158	26.48 117
21.0	11.692 56	69.46 365	25.20 4	37.41 376	19.352 128	50.67 44	49.329 108	25.31 97
31.0	11.748 20	73.11 353	25.16 25	41.17 371	19.480 69	51.11 64	49.437 57	24.34 74
2 9.9	11.728 93	76.64 331	24.91 44	44.88 355	19.549 12	51.75 80	49.494 6	23.60 53
19.9	11.635 160	79.95 302	24.47 63	48.43 332	19.561 41	52.55 92	49.500 40	23.07 33
29.9	11.475 217	82.97 267	23.84 77	51.75 301	19.520 88	53.47 97	49.460 80	22.74 14
3 10.9	11.258 264	85.64 226	23.07 91	54.76 263	19.432 126	54.44 96	49.380 112	22.60 3
20.9	10.994 301	87.90 182	22.16 102	57.39 221	19.306 153	55.40 92	49.268 137	22.63 16
30.8	10.693 325	89.72 134	21.14 109	59.60 174	19.153 172	56.32 83	49.131 150	22.79 28
4 9.8	10.368	91.06 84	20.05 114	61.34 124	18.981 178	57.15 70	48.981 156	23.07 38
19.8	10.031 337	91.90 33	18.91 117	62.58 72	18.803 175	57.85 55	48.825 154	23.45 47
29.8	9.691 340	92.23 18	17.74 116	63.30 18	18.628 163	58.40 40	48.671 142	23.92 52
5 9.7	9.359 332	92.05 68	16.58 112	63.48 36	18.465 144	58.80 23	48.529 126	24.44 58
19.7	9.045 314 289	91.37 116	15.46 107	63.12 88	18.321 120	59.03 7	48.403 105	25.02 63
29.7	8.756 256	90.21 162	14.39 99	62.24 139	18.201 89	59.10 9	48.298 79	25.65 65
6 8.7	8.500 217	88.59 203	13.40 88	60.85 186	18.112 58	59.01 23	48.219 53	26.30 68
18.6	8.283 173	86.56 239	12.52 75	58.99 227	18.054 24	58.78 37	48.166 23	26.98 69
28.6	8.110 125	84.17 269	11.77 61	56.72 264	18.030 10	58.41 50	48.143 5	27.67 67
7 8.6	7.985 72	81.48 290	11.16 44	54.08 292	18.040 45	57.91 61	48.148 35	28.34 65
18.5	7.913 17	78.58	10.72 27	51.16 312	18.085 78	57.30 72	48.183 64	28.99 58
28.5	7.896 40	75.54 304	10.45 8	48.04 322	18.163 111	56.58 82	48.247 93	29.57 49
8 7.5	7.936 99	72.45 309	10.37 12	44.82 322	18.274 143	55.76 93	48.340 121	30.06 38
17.5	8.035 156	69.43 302	10.49 30	41.59 323	18.417 174	54.83 101	48.461 148	30.44 22
27.4	8.191 214	66.57 286 259	10.79 50	38.47 312 290	18.591 204	53.82 111	48.609 176	30.66 5
6.4	8.405 268	63.98	11.29 66	35.57 258	18.795 233	52.71 119	48.785 202	30.71 17
9 16.4	8.673 319	61.75 223	11.95 83	32.99 215	19.028 261	51.52 126	48.987 228	30.54 39
26.4	8.992 363	59.97 178	12.78 95	30.84 163	19.289 287	50.26 132	49.215 252	30.15 64
10 6.3	9.355 399	58.74 123	13.73 106	29.21 106	19.576 312	48.94 136	49.467 274	29.51 87
16.3	9.754 426	58.09 65 1	14.79 113	28.15 41	19.888 331	47.58 135	49.741 292	28.64 110
26.3	10.180	58.08 64	15.92 115	27.74 24	20.219	46.23 132	50.033	27.54
11 5.2	10.622 442	58.72 128	17.07 113	27.98 91	20.566 347	44.91 124	50.340 307	26.24 130
15.2	11.065 443	60.00 187	18.20 108	28.89 155	20.923 357	43.67 111	50.656 316	24.77 147
25.2	11.498 433	61.87 242	19.28 98	30.44 213	21.281 358	42.56 95	50.972 316	23.20 157
12 5.2	11.904 406 367	64.29 287	20.26 85	32.57 266	21.631 350 332	41.61 74	51.281 309 292	21.56 164 163
15.1	12.271 314	67.16 324	21.11 69	35.23 309	21.963 304	40.87 50	51.573 266	19.93 157
25.1	12.585 252	70.40 324	21.80 50	38.32 309	22.267 266	40.37 23	51.839 232	18.36 145
35.1	12.837	73.89 349	22.30	41.73 341	22.533	40.14	52.071	16.91
平位	s 9.426	″ 69.00	s 16.840	″ 39.28	s 18.733	″ 58.19	s 48.689	″ 31.63
sec δ, tan δ	+ 1.722	− 1.402	+ 5.131	− 5.032	+ 1.143	+ 0.554	+ 1.007	+ 0.116
2 回正中	2月1日		2月1日		2月1日		2月1日	
a b	+ 0.0826	+ 0.0611	− 0.1006	+ 0.2193	+ 0.1813	− 0.0241	+ 0.1592	− 0.0051
a′ b′	− 0.6533	− 0.7571	− 0.6537	− 0.7568	− 0.6538	− 0.7567	− 0.6554	− 0.7553
FK3番號	330		331		328		329	

本初子午線正中時

星名	γ Pyxi		† σ^2 Cncr *m*		ζ Hyda		108 G. Cari	
等級	4.19		5.60		3.30		3.98	
スペクトル型	K2		K0		K0		B8	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 8 48	° ′ −27 29	h m 8 50	° ′ +30 47	h m 8 52	° ′ + 6 9	h m 8 53	° ′ −60 25
	s	″	s	″	s	″	s	″
1 1.1	9.977	61.59	50.101	26.17	26.315	31.92	49.20	39.70
11.1	10.170 193	64.54 295	50.346 245	26.16 1	26.525 210	30.52 140	49.44 24	43.30 360
21.0	10.312 142	67.46 292	50.540 194	26.43 27	26.690 165	29.29 123	49.59 15	47.04 374
31.0	10.491 89	70.28 282	50.678 138	26.96 53	26.807 117	28.27 102	49.66 7	50.79 375
2 9.9	10.436 35	72.91 263	50.757 79	27.70 74	26.872 65	27.48 79	49.64 2	54.45 366
	18	240	21	91	15	57	10	349
19.9	10.418 67	75.31 211	50.778 — 34	28.61 102	26.887 — 32	26.91 37	49.54 18	57.94 322
29.9	10.351 108	77.42 179	50.744 82	29.63 107	26.855 72	26.54 16	49.36 25	61.16 289
3 10.9	10.243 143	79.21 144	50.662 122	30.70 108	26.783 107	26.38 0	49.11 31	64.05 250
20.9	10.100 168	80.65 107	50.540 152	31.78 101	26.676 130	26.38 15	48.80 35	66.55 207
30.9	9.932 184	81.72 71	50.388 171	32.79 90	26.546 147	26.53 28	48.45 38	68.62 159
4 9.8	9.748 191	82.43 32	50.217 179	33.69 77	26.399 153	26.81 38	48.07 40	70.21 109
19.8	9.557 191	82.75 5	50.033 178	34.46 61	26.246 151	27.19 46	47.67 41	71.30 57
29.8	9.366 182	82.70 42	49.860 168	35.07 42	26.095 143	27.65 53	47.26 41	71.87 4
5 9.7	9.184 167	82.28 77	49.692 150	35.49 24	25.952 127	28.18 59	46.85 38	71.91 47
19.7	9.017 147	81.51 110	49.542 125	35.73 6	25.825 107	28.77 63	46.47 37	71.44 99
29.7	8.870	80.41	49.417	35.79 — 12	25.718	29.40	46.10	70.45
6 8.7	8.746 124	78.99 142	49.320 97	35.67 29	25.634 84	30.07 67	45.77 33	68.99 146
18.6	8.650 96	77.30 169	49.255 65	35.38 45	25.577 57	30.76 69	45.48 29	67.08 191
28.6	8.584 66	75.38 192	49.224 31	34.93 58	25.547 30	31.45 69	45.25 23	64.77 231
7 8.6	8.548 36	73.29 209	49.226 — 2	34.35 72	25.546 1	32.14 65	45.06 19	62.14 263
	2	222	37		27		12	290
18.6	8.546 — 30	71.07 227	49.263 71	33.63 84	25.573 56	32.79 59	44.94 6	59.24 307
28.5	8.576 65	68.80 225	49.334 105	32.79 94	25.629 84	33.38 50	44.88 — 1	56.17 315
8 7.5	8.641 99	66.55 215	49.439 137	31.85 106	25.713 113	33.88 38	44.89 8	53.02 313
17.5	8.740 132	64.40 198	49.576 169	30.79 115	25.826 140	34.26 23	44.97 15	49.89 300
27.4	8.872 167	62.42 171	49.745 200	29.64 123	25.966 168	34.49 5	45.12 21	46.89 276
9 6.4	9.039	60.71	49.945	28.41	26.134	34.54 — 17	45.33	44.13
16.4	9.239 200	59.33 138	50.175 230	27.09 132	26.328 194	34.37 39	45.62 29	41.70 243
26.4	9.471 232	58.35 98	50.435 260	25.71 138	26.550 222	33.98 64	45.97 35	39.71 199
10 6.3	9.731 260	57.83 52	50.722 287	24.28 143	26.797 247	33.34 88	46.37 40	38.25 146
16.3	10.018 287	57.79 — 4	51.034 312	22.84 144	27.067 270	32.46 112	46.82 45	37.37 88
	307	48	334	144	289		49	24
26.3	10.325	58.27	51.368	21.40 138	27.356 306	31.34	47.31	37.13 — 42
11 5.3	10.647 322	59.25 98	51.720 352	20.02 128	27.662 316	30.02 132	47.81 50	37.55 107
15.2	10.976 329	60.73 148	52.083 363	18.74 114	27.978 318	28.53 149	48.32 51	38.62 170
25.2	11.303 327	62.64 191	52.448 365	17.60 95	28.296 318	26.92 161	48.81 49	40.32 227
12 5.2	11.619 316	64.93 229	52.806 358	16.65 73	28.607 311	25.24 168	49.28 47	42.59 277
	294	260	342		297	168	43	
15.1	11.913	67.53	53.148	15.92	28.904	23.56	49.71	45.36
25.1	12.177 264	70.33 280	53.463 315	15.46 46	29.176 272	21.95 161	50.07 36	48.54 318
35.1	12.401 224	73.26 293	53.740 277	15.27 19	29.414 238	20.44 151	50.36 29	52.02 348
平位	s 9.230	″ 64.52	s 49.927	″ 34.11	s 26.060	″ 35.39	s 46.789	″ 48.29
sec δ, tan δ	+ 1.127	− 0.521	+ 1.164	+ 0.596	+ 1.006	+ 0.108	+ 2.026	− 1.762
2 回正中	2 月 3 日		2 月 3 日		2 月 4 日		2 月 4 日	
a b	+ 0.1276	+ 0.0232	+ 0.1825	− 0.0269	+ 0.1586	− 0.0049	+ 0.0680	+ 0.0808
a′ b′	− 0.6696	− 0.7427	− 0.6783	− 0.7348	− 0.6834	− 0.7301	− 0.6877	− 0.7260
FK3番號	332		333		334		336	

本初子午線正中時

星名	ε UMaj		α Cncr		Br 1268 Lync		ρ UMaj	
等級	3.12		4.27		4.09		4.99	
スペクトル型	A5		A3		F5		M0	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 8 55	° ′ +48 15	h m 8 55	° ′ +12 4	h m 8 56	° ′ +41 59	h m 8 57	° ′ +67 50
	s	″	s	″	s	″	s	″
1 1.1	23.223	36.18	25.764	28.05	60.888	71.43	32.24	47.06
11.1	23.527 304	37.11 93	25.983 219	26.96 109	61.169 281	72.00 57	32.73 49	48.90 184
21.0	23.769 242	38.36 125	26.157 174	26.07 89	61.393 224	72.90 90	33.10 37	51.10 220
31.0	23.940 171	39.88 152	26.281 124	25.41 66	61.554 161	74.06 116	33.36 26	53.58 248
2 9.9	24.037 97	41.61 173	26.353 72	24.98 43	61.648 94	75.45 139	33.50 14	56.23 265
	24	186	21	22	27	153	1	272
19.9	24.061 — 46	43.47	26.374 — 27	24.76	61.675 — 36	76.98	33.51 — 10	58.95
29.9	24.015 109	45.37 190	26.347 69	24.73 3	61.639 93	78.59 161	33.41 22	61.61 266
3 10.9	23.906 161	47.22 185	26.278 104	24.87 14	61.546 140	80.19 160	33.19 31	64.13 252
20.9	23.745 202	48.94 172	26.174 130	25.15 28	61.406 175	81.71 152	32.88 38	66.39 226
30.9	23.543 230	50.47 153	26.044 147	25.52 37	61.231 201	83.03 137	32.50 44	68.31 192
		127		45		117		151
4 9.8	23.313	51.74	25.897	25.97	61.030	84.25	32.06	69.82
19.8	23.070 243	52.70 96	25.744 153	26.46 49	60.818 212	85.18 93	31.60 46	70.87 105
5 9.7	22.826 244	53.34 64	25.591 153	26.98 52	60.605 213	85.84 66	31.13 47	71.43 56
19.7	22.593 233	53.63 29	25.447 144	27.51 53	60.402 203	86.21 37	30.66 47	71.51 — 8
	22.380 213	53.58 5	25.318 129	28.04 53	60.217 185	86.29 — 8	30.23 43	71.09 42
	183	39	108	51	158	21	38	88
29.7	22.197	53.19	25.210	28.55	60.059	86.08	29.85	70.21
6 8.7	22.049 148	52.49 70	25.126 84	29.04 49	59.933 126	85.60 48	29.53 32	68.90 131
18.6	21.941 108	51.50 99	25.067 59	29.51 47	59.842 91	84.87 73	29.27 26	67.20 170
28.6	21.877 64	50.26 124	25.037 30	29.94 43	59.790 52	83.91 96	29.09 18	65.17 203
7 8.6	21.857 20	48.79 147	25.036 1	30.33 39	59.777 13	82.76 115	29.00 9	62.85 232
	27	165	28	32	28	133	1	253
18.6	21.884		25.064	30.65	59.805	81.43	28.99 — 7	60.32
28.5	21.955 71	47.14 181	25.121 57	30.89 24	59.872 67	79.95 148	29.06 15	57.61 271
8 7.5	22.071 116	45.33 193	25.206 85	31.04 15	59.978 106	78.35 160	29.21 24	54.81 280
17.5	22.231 160	43.40 201	25.320 114	31.06 — 2	60.124 146	76.65 170	29.45 32	51.95 286
27.4	22.433 202	41.39 206	25.462 142	30.94 12	60.306 182	74.88 177	29.77 39	49.11 284
	243	39.33 208	170	28	219	181		278
9 6.4	22.676	37.25	25.632	30.66	60.525	73.07	30.16	46.33
16.4	22.959 283	35.19 206	25.830 198	30.20 46	60.780 255	71.23 184	30.63 47	43.67 266
26.4	23.279 320	33.18 201	26.054 224	29.54 66	61.069 289	69.40 183	31.16 53	41.19 248
10 6.3	23.635 356	31.27 191	26.305 251	28.69 85	61.390 321	67.62 178	31.75 59	38.93 226
16.3	24.022 387	29.49 178	26.379 274	27.64 105	61.740 350	65.91 171	32.40 65	36.96 197
	414	161	295	123	375	159	69	163
26.3	24.436	27.88	26.874	26.41	62.115	64.32	33.09	35.33
11 5.3	24.872 436	26.50 138	27.185 311	25.04 137	62.511 396	62.89 143	33.81 72	34.09 124
15.2	25.321 449	25.40 110	27.507 322	23.57 147	62.920 409	61.68 121	34.55 74	33.27 82
25.2	25.774 453	24.60 80	27.832 325	22.03 154	63.332 412	60.72 96	35.29 74	32.93 34
12 5.2	26.218 444	24.16 44	28.152 320	20.50 153	63.739 407	60.06 66	36.02 73	33.07 14
	424	7	305	148	388	34	68	64
15.1	26.642		28.457	19.02	64.127	59.72 —	36.70	33.71
25.1	27.032 390	24.09 — 31	28.738 281	17.65 137	64.485 358	59.73 1	37.33 63	34.84 113
35.1	27.376 344	24.40 70	28.985 247	16.43 122	64.802 317	60.09 36	37.88 55	36.42 158
平位	s 22.975	″ 46.62	s 25.558	″ 32.61	s 60.703	″ 81.10	s 31.457	″ 59.29
sec δ, tan δ	+ 1.502	+ 1.121	+ 1.023	+ 0.214	+ 1.346	+ 0.901	+ 2.652	+ 2.457
2 回正中	2 月 4 日		2 月 4 日		2 月 5 日		2 月 5 日	
a b	+ 0.2072	− 0.0518	+ 0.1636	− 0.0099	+ 0.1963	− 0.0419	+ 0.2704	− 0.1145
a′ b′	− 0.6927	− 0.7212	− 0.6929	− 0.7211	− 0.6978	− 0.7163	− 0.6994	− 0.7147
FK3番號	335		337		339		338	

本初子午線正中時

星名 / 等級 / スペクトル型 / 世界時																							
			ζ UMaj					Grb 1501 UMaj					α Voln					97 G. Velr					
			3.68			A0		5.68			A2		4.18			A5		3.69			K0		
			赤経			赤緯		赤経			赤緯		赤経			赤緯		赤経			赤緯		
月	日		h m 8 59			° ′ +47 22		h m 8 59			° ′ +54 29		h m 9 1			° ′ −66 10		h m 9 2			° ′ −46 52		
			s			″		s			″		s			″		s			″		
1	1.1		48.889	307		35.75	85	55.254	346		70.87	121	37.23	29		9.80	360	14.606	222		18.96	343	
	11.1		49.196	245		36.60	118	55.600	276		72.08	156	37.52	18		13.40	375	14.828	161		22.39	353	
	21.1		49.441	176		37.78	147	55.876	196		73.64	185	37.70	8		17.15	381	14.989	95		25.92	351	
	31.0		49.617	104		39.25	168	56.072	114		75.49	205	37.78	3		20.96	376	15.084	27		29.43	349	
2	9.9		49.721	31		40.93	182	56.186	29		77.54	217	37.75	12		24.72	361	15.111	36		32.83	321	
	19.9		49.752	—		42.75	187	56.215	—		79.71	218	37.63	22		28.33		15.075	96		36.04	294	
	29.9		49.715	37		44.62	184	56.165	50		81.89	212	37.41	30		31.70	337	14.979	148		38.98	261	
3	10.9		49.615	100		46.46	173	56.043	122		84.01	195	37.11	38		34.77	307	14.831	193		41.59	223	
	20.9		49.463	152		48.19	154	55.860	183		85.96	171	36.73	42		37.47	270	14.638	226		43.82	181	
	30.9		49.270	193		49.73	130	55.629	231		87.67	141	36.31	47		39.74	227	14.412	250		45.63	138	
				221					264								181						
4	9.8		49.049			51.03	101	55.365	282		89.08	105	35.84	50		41.55	130	14.162	264		47.01		
	19.8		48.814	235		52.04	68	55.083	286		90.13	67	35.34	51		42.85	79	13.898	269		47.91	90	
	29.8		48.577	237		52.72	35	54.797	276		90.80	28	34.83	51		43.64	25	13.629	265		48.34	43	
5	9.7		48.349	228		53.07	1	54.521	254		91.08	13	34.32	50		43.89	28	13.364	252		48.29	5	
	19.7		48.141	208		53.08	32	54.267	223		90.95	50	33.82	47		43.61	81	13.112	233		47.77	52	
				181																		98	
	29.7		47.960			52.76	64	54.044	183		90.45	87	33.35	43		42.80	131	12.879	208		46.79	141	
6	8.7		47.814	146		52.12	92	53.861	138		89.58	120	32.92	39		41.49	178	12.671	178		45.38	181	
	18.6		47.706	108		51.20	118	53.723	90		88.38	149	32.53	33		39.71	220	12.493	144		43.57	216	
	28.6		47.640	66		50.02	141	53.633	38		86.89	174	32.20	26		37.51	257	12.349	106		41.41	245	
7	8.6		47.617	23		48.61	160	53.595	15		85.15	195	31.94	19		34.94	286	12.243	63		38.96	266	
				23																			
	18.6		47.640			47.01		53.610			83.20		31.75			32.08		12.180			36.30		
	28.5		47.705	65		45.25	176	53.677	67		81.09	211	31.63	12		29.02	306	12.159	21		33.49	281	
8	7.5		47.815	110		43.36	189	53.796	119		78.85	224	31.61	2		25.85	317	12.185	26		30.62	287	
	17.5		47.968	153		41.38	198	53.966	170		76.53	232	31.66	5		22.66	319	12.259	74		27.79	283	
	27.4		48.162	194		39.35	203	54.186	220		74.18	235	31.81	15		19.57	309	12.381	122		25.10	269	
				234			207		267			236		24			289		169			246	
9	6.4		48.396			37.28		54.453			71.82		32.05			16.68		12.550			22.64		
	16.4		48.671	275		35.22	206	54.766	313		69.52	230	32.37	32		14.11	257	12.768	218		20.52	212	
	26.4		48.982	311		33.21	201	55.124	358		67.30	222	32.77	40		11.95	216	13.030	262		18.81	171	
10	6.3		49.329	347		31.27	194	55.522	398		65.21	209	33.23	46		10.30	165	13.334	304		17.61	120	
	16.3		49.708	379		29.46	181	55.956	434		63.31	190	33.76	53		9.23	107	13.673	339		16.96	65	
				407			165		466			167		57			44		367			5	
	26.3		50.115			27.81		56.422			61.64		34.33			8.79	—	14.040			16.91	—	
11	5.3		50.544	429		26.38	143	56.912	490		60.25	139	34.93	60		9.02	23	14.427	387		17.48	57	
	15.2		50.987	443		25.21	117	57.418	506		59.18	107	35.53	60		9.91	89	14.823	396		18.66	118	
	25.2		51.435	448		24.34	87	57.928	510		58.48	70	36.12	59		11.45	154	15.216	393		20.42	176	
12	5.2		51.876	441		23.82	52	58.429	501		58.18	30	36.67	55		13.58	213	15.594	378		22.70	228	
				421			15		478			13		50			266		349			273	
	15.1		52.297			23.67	—	58.907			58.31		37.17			16.24		15.943			25.43		
	25.1		52.687	390		23.91	24	59.349	442		58.86	55	37.61	44		19.35	311	16.254	311		28.51	308	
	35.1		53.032	345		24.52	61	59.738	389		59.83	97	37.95	34		22.79	344	16.514	260		31.85	334	
平位			s 48.674			″ 46.17		s 54.942			″ 82.10		s 34.112			″ 19.83		s 13.247			″ 26.41		
sec δ, tan δ			+ 1.477			+ 1.087		+ 1.722			+ 1.402		+ 2.475			+ 2.264		+ 1.463			− 1.068		
2 回正中			2 月 6 日					2 月 6 日					2 月 6 日					2 月 6 日					
a	b		+ 0.2046			− 0.0512		+ 0.2195			− 0.0661		+ 0.0473			+ 0.1075		+ 0.1035			+ 0.0508		
a′	b′		− 0.7065			− 0.7077		− 0.7068			− 0.7074		− 0.7119			− 0.7023		− 0.7139			− 0.7002		
FK3番號			341					340					343					342					

本初子午線正中時

星名 / 等級 / スペクトル型 / 世界時																							
			† σ² UMaj					λ Velr					36 Lync					ϑ Hyda					
			4.87			F8		2.22			K5		5.30			B8		3.84			A0		
			赤経			赤緯		赤経			赤緯		赤経			赤緯		赤経			赤緯		
月	日		h m 9 5			° ′ +67 21		h m 9 5			° ′ −43 12		h m 9 10			° ′ +43 26		h m 9 11			° ′ + 2 32		
			s			″		s			″		s			″		s			″		
1	1.1		30.10	49		36.79	175	57.212	223		13.04	336	9.046	301		49.80	56	27.307	223		63.51	166	
	11.1		30.59	39		38.54	213	57.435	164		16.40	344	9.347	245		50.36	90	27.530	181		61.85	150	
	21.1		30.98	28		40.67	241	57.599	102		19.84	342	9.592	181		51.26	121	27.711	133		60.35	129	
	31.0		31.26	16		43.08	262	57.701	39		23.26	330	9.773	114		52.47	144	27.844	82		59.06	107	
2	10.0		31.42	3		45.70	270	57.740	22		26.56	310	9.887	45		53.91	162	27.926	32		57.99	84	
	19.9		31.45	—		48.40		57.718			29.66		9.932	—		55.53		27.958	—		57.15		
	29.9		31.36	9		51.03	268	57.638	80		32.50	284	9.913	19		57.23	170	27.944	14		56.54	61	
3	10.9		31.17	19		53.62	254	57.509	129		35.01	251	9.834	79		58.95	172	27.887	57		56.15	39	
	20.9		30.88	29		55.93	231	57.337	172		37.15	214	9.705	129		60.60	165	27.796	91		55.97	18	
	30.9		30.52	36		57.92	199	57.133	204		38.89	174	9.536	169		62.11	151	27.678	118		55.96	1	
				41			159		227			131		196			131		136			16	
4	9.8		30.11			59.51		56.906			40.20	86	9.340			63.42		27.542			56.12	28	
	19.8		29.66	45		60.65	114	56.666	240		41.06	39	9.129	211		64.47	105	27.397	145		56.40	41	
	29.8		29.20	46		61.31	66	56.420	246		41.45	6	8.913	216		65.25	78	27.250	147		56.81	51	
5	9.8		28.75	45		61.49	18	56.179	241		41.39	51	8.704	209		65.73	48	27.108	142		57.32	60	
	19.7		28.32	43		61.17	32	55.950	229		40.88	96	8.512	192		65.89	16	26.979	129		57.92	68	
				38			78		213					169			14		112				
	29.7		27.94			60.39		55.737			39.92		8.343			65.75		26.867			58.60		
6	8.7		27.61	33		59.16	123	55.549	188		38.55	137	8.205	138		65.32	43	26.775	92		59.33	73	
	18.6		27.35	26		57.54	162	55.388	161		36.80	175	8.100	105		64.61	71	26.706	69		60.11	78	
	28.6		27.17	18		55.57	197	55.259	129		34.71	209	8.033	67		63.65	96	26.663	43		60.91	80	
7	8.6		27.05	12		53.31	226	55.165	94		32.35	236	8.004	29		62.46	119	26.645	18		61.72	81	
				3			250		55			257		12			139		10			79	
	18.6		27.02	—		50.81		55.110	16		29.78	271	8.016	51		61.07	155	26.655	36		62.51	74	
	28.5		27.08	6		48.13	268	55.094	28		27.07	275	8.067	92		59.52	170	26.691	65		63.25	66	
8	7.5		27.21	13		45.32	281	55.122	71		24.32	272	8.159	131		57.82	181	26.756	92		63.91	53	
	17.5		27.42	21		42.45	287	55.193	115		21.60	258	8.290	169		56.01	189	26.848	120		64.44	38	
	27.5		27.72	30		39.57	288	55.308	161		19.02	235	8.459	208		54.12	196	26.968	149		64.82	19	
				36			283																
9	6.4		28.08			36.74		55.469			16.67		8.667			52.16		27.117			65.01	—	
	16.4		28.52	44		34.02	272	55.674	205		14.64	203	8.912	245		50.18	198	27.294	177		64.98	3	
	26.4		29.03	51		31.46	256	55.921	247		13.03	161	9.194	282		48.20	198	27.500	206		64.69	29	
10	6.3		29.60	57		29.11	235	56.207	286		11.91	112	9.510	316		46.26	194	27.733	233		64.14	55	
	16.3		30.22	62		27.03	208	56.527	320		11.33	58	9.859	349		44.40	186	27.992	259		63.32	82	
				67			175		349			0		377			173		282			110	
	26.3		30.89			25.28		56.876			11.33	60	10.236			42.67		28.274			62.22		
11	5.3		31.59	70		23.91	137	57.244	368		11.93	120	10.636	400		41.10	157	28.574	300		60.88	134	
	15.2		32.31	72		22.97	94	57.623	379		13.13	175	11.051	415		39.76	134	28.888	314		59.33	155	
	25.2		33.04	73		22.49	48	58.000	377		14.88	226	11.474	423		38.69	107	29.206	318		57.61	172	
12	5.2		33.76	72		22.50	1	58.364	364		17.14	269	11.894	420		37.93	76	29.522	316		55.79	182	
				68			51		340					404			41		304			186	
	15.2		34.44			23.01		58.704			19.83		12.298			37.52		29.826			53.93		
	25.1		35.07	63		24.02	101	59.008	304		22.86	303	12.674	376		37.48	4	30.107	281		52.10	183	
	35.1		35.62	55		25.50	148	59.265	257		26.13	327	13.010	336		37.80	32	30.357	250		50.35	175	
平位			s 29.423			″ 49.24		s 56.041			″ 20.19		s 8.917			″ 59.84		s 27.091			″ 65.66		
sec δ, tan δ			+ 2.598			+ 2.398		+ 1.372			− 0.939		+ 1.377			+ 0.947		+ 1.001			+ 0.045		
2 回正中			2 月 7 日					2 月 7 日					2 月 8 日					2 月 9 日					
a	b		+ 0.2636			− 0.1157		+ 0.1102			+ 0.0454		+ 0.1960			− 0.0466		+ 0.1553			− 0.0022		
a′	b′		− 0.7233			− 0.6900		− 0.7252			− 0.6886		− 0.7377			− 0.6751		− 0.7415			− 0.6709		
FK3番號			344					345					346					347					

星名	β Cari		† 38 Lync		ε Cari		83 Cncr	
等級	1.80		3.82		2.25		6.60	
スペクトル型	A0		A2		F0		F5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 9 12	° ′ −69 28	h m 9 15	° ′ +37 2	h m 9 15	° ′ −59 2	h m 9 15	° ′ +17 56
	s	″	s	″	s	″	s	″
1 1.1	39.37	59.09	22.012	17.79	37.590	12.50	51.564	32.36
11.1	39.71 34	62.62 353	22.296 284	17.97 18	37.866 276	16.02 352	51.808 244	31.49 87
21.1	39.93 22	66.35 373	22.529 233	18.47 50	38.063 197	19.71 369	52.007 199	30.88 61
31.0	40.04 11	70.16 381	22.704 175	19.28 81	38.177 114	23.46 375	52.157 150	30.51 37
2 10.0	40.03 1	73.96 380	22.817 113	20.34 106	38.207 30	27.16 370	52.253 96	30.40 11
	13	369	50	125	52	356	44	11
19.9	39.90	77.65	22.867 —	21.59	38.155	30.72	52.297 —	30.51
29.9	39.67 23	81.14 349	22.858 9	22.98 139	38.026 129	34.07 335	52.290 7	30.81 30
3 10.9	39.34 33	84.34 320	22.794 64	24.41 143	37.829 197	37.11 304	52.239 51	31.27 46
20.9	38.93 41	87.20 286	22.684 110	25.84 143	37.573 256	39.80 269	52.149 90	31.84 57
30.9	38.45 48	89.65 245	22.538 146	27.18 134	37.270 303	42.07 227	52.030 119	32.48 64
	53	200	171	120	338	182	139	67
4 9.8	37.92	91.65	22.367	28.38	36.932	43.89	51.891	33.15
19.8	37.35 57	93.16 151	22.181 186	29.39 101	36.570 362	45.23 134	51.740 151	33.81 66
29.8	36.76 59	94.16 100	21.991 190	30.19 80	36.196 374	46.07 84	51.587 153	34.44 63
5 9.8	36.16 60	94.62 46	21.807 184	30.74 55	35.820 376	46.39 32	51.440 147	35.02 58
19.7	35.58 58	94.55 7	21.636 171	31.04 30	35.453 367	46.19 20	51.305 135	35.53 51
	56	61	149	4	350	71	118	44
29.7	35.02	93.94	21.487	31.03 —	35.103	45.48	51.187	35.97
6 8.7	34.49 53	92.81 113	21.364 123	30.88 20	34.780 323	44.28 120	51.090 97	36.32 35
18.7	34.02 47	91.19 162	21.271 93	30.44 44	34.491 289	42.62 166	51.019 71	36.59 27
28.6	33.60 42	89.13 206	21.210 61	29.78 66	34.244 247	40.54 208	50.974 45	36.76 17
7 8.6	33.26 34	86.68 245	21.184 26	28.91 87	34.044 200	38.11 243	50.957 17	36.84 8
	27	277	10	104	146	273	11	2
18.6	32.99	83.91	21.194	27.87	33.898	35.38	50.968	36.82
28.5	32.82 17	80.89 302	21.239 45	26.66 121	33.811 87	32.44 294	51.008 40	36.69 13
8 7.5	32.74 8	77.74 315	21.319 80	25.30 136	33.786 25	29.38 306	51.077 69	36.44 25
17.5	32.77 3	74.53 321	21.435 116	23.82 148	33.827 41	26.29 309	51.174 97	36.06 38
27.5	32.90 13	71.38 315	21.585 150	22.22 160	33.935 108	23.29 300	51.301 127	35.54 52
	23	297	185	168	177	281	156	67
9 6.4	33.13	68.41	21.770	20.54	34.112	20.48	51.457	34.87
16.4	33.46 33	65.72 269	21.990 220	18.80 174	34.356 244	17.97 251	51.642 185	34.03 84
26.4	33.89 43	63.42 230	22.244 254	17.00 180	34.664 308	15.85 212	51.857 215	33.03 100
10 6.3	34.40 51	61.59 183	22.530 286	15.20 180	35.029 365	14.21 164	52.100 243	31.88 115
16.3	34.98 58	60.33 126	22.847 317	13.41 179	35.445 416	13.14 107	52.370 270	30.57 131
	64	64	344	172	456	45	295	142
26.3	35.62	59.69 —	23.191	11.69	35.901	12.69 —	52.665	29.15
11 5.3	36.29 67	59.72 3	23.558 367	10.07 162	36.384 483	12.88 19	52.979 314	27.63 152
15.2	36.97 68	60.41 69	23.941 383	8.61 146	36.880 496	13.72 84	53.308 329	26.07 156
25.2	37.65 68	61.75 134	24.332 391	7.36 125	37.372 492	15.20 148	53.644 336	24.51 156
12 5.2	38.28 63	63.71 196	24.721 389	6.36 100	37.845 473	17.27 207	53.979 335	23.01 150
	58	252	376	71	437	259	323	139
15.2	38.86	66.23	25.097	5.65	38.282	19.86	54.302	21.62
25.1	39.36 50	69.21 298	25.449 352	5.27 38	38.669 387	22.90 304	54.605 303	20.40 122
35.1	39.77 41	72.56 335	25.764 315	5.22 5	38.990 321	26.26 336	54.875 270	19.38 102
平位	s 35.726	″ 70.57	s 21.935	″ 26.86	s 35.475	″ 23.02	s 51.465	″ 37.77
sec δ, tan δ	+ 2.854	− 2.673	+ 1.253	0.755	+ 1.944	− 1.667	+ 1.051	+ 0.324
2回正中	2月9日		2月10日		2月10日		2月10日	
a b	+ 0.0344	+ 0.1327	+ 0.1864	− 0.0379	+ 0.0803	+ 0.0837	+ 0.1675	− 0.0163
a′ b′	− 0.7449	− 0.6672	− 0.7529	− 0.6581	− 0.7535	− 0.6574	− 0.7543	− 0.6565
FK3番號	348		349		351		350	

星名	α Lync		χ Velr		α Hyda		ε Antl	
等級	3.30		2.63		2.16		4.64	
スペクトル型	K5		B3		K2		K2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 9 17	° ′ +34 37	h m 9 20	° ′ −54 46	h m 9 24	° ′ − 8 24	h m 9 26	° ′ −35 42
	s	″	s	″	s	″	s	″
1 1.1	39.000	41.25	24.412	4.62	50.384	52.98	56.693	13.08
11.1	39.279 279	41.28 3	24.680 268	8.09 347	50.613 229	55.18 220	56.931 238	16.22 314
21.1	39.508 229	41.64 36	24.877 197	11.73 364	50.799 186	57.29 211	57.118 187	19.44 322
31.0	39.681 173	42.29 65	25.000 123	15.41 368	50.937 138	59.23 194	57.250 132	22.62 318
2 10.0	39.793 112	43.21 92	25.046 46	19.04 363	51.026 89	60.97 174	57.325 75	25.70 308
	52	112	28	350	39	151	17	289
19.9	39.845 —	44.33	25.018	22.54	51.065 —	62.48	57.342 —	28.59
29.9	39.839 6	45.59 126	24.920 98	25.80 326	51.057 8	63.74 126	57.307 35	31.25 266
3 10.9	39.780 59	46.92 133	24.760 160	28.78 298	51.007 50	64.74 100	57.224 83	33.60 235
20.9	39.676 104	48.25 133	24.547 213	31.40 262	50.922 85	65.49 75	57.100 124	35.61 201
30.9	39.537 139	49.53 128	24.290 257	33.61 221	50.809 113	65.98 49	56.944 156	37.26 165
	164	116	289	177	134	25	180	126
4 9.8	39.373	50.69	24.001	35.38	50.675	66.23 3	56.764	38.52
19.8	39.194 179	51.69 100	23.690 311	36.68 130	50.531 144	66.26 20	56.569 195	39.38 86
29.8	39.011 183	52.49 80	23.368 322	37.49 81	50.383 148	66.06 40	56.367 202	39.82 44
5 9.8	38.834 177	53.07 58	23.044 324	37.80 31	50.238 145	65.66 59	56.166 201	39.85 3
19.7	38.670 164	53.42 35	22.728 316	37.59 21	50.103 135	65.07 77	55.973 193	39.47 38
	145	12	301	69	122		181	78
29.7	38.525 119	53.54 —	22.427 276	36.90 118	49.981 103	64.30 92	55.792 163	38.69
6 8.7	38.406 90	53.42 12	22.151 248	35.72 162	49.878 84	63.38 106	55.629 140	37.54 115
18.7	38.316 59	53.09 33	21.903 211	34.10 203	49.794 60	62.32 117	55.489 115	36.04 150
28.6	38.257 27	52.54 55	21.692 170	32.07 237	49.734 35	61.15 124	55.374 86	34.24 180
7 8.6	38.230 8	51.81 73	21.522 123	29.70 266	49.699 10	59.91 129	55.288 55	32.18 206
		91						226
18.6	38.238	50.90	21.399	27.04	49.689 —	58.62	55.233	29.92
28.5	38.279 41	49.82 108	21.327 72	24.18 286	49.706 17	57.34 128	55.212 21	27.53 239
8 7.5	38.355 76	48.60 122	21.309 18	21.21 297	49.750 44	56.10 124	55.226 14	25.09 244
17.5	38.465 110	47.25 135	21.348 39	18.21 300	49.823 73	54.97 113	55.278 52	22.67 242
27.5	38.609 144	45.78 147	21.447 99	15.30 291	49.925 102	53.98 99	55.369 91	20.36 231
	177	157	158	273	131	78	130	210
9 6.4	38.786	44.21	21.605	12.57	50.056	53.20	55.499	18.26
16.4	38.997 211	42.56 165	21.824 219	10.14 243	50.218 162	52.67 53	55.670 171	16.44 182
26.4	39.241 244	40.85 171	22.099 275	8.09 205	50.411 193	52.44 23	55.881 211	15.00 144
10 6.4	39.517 276	39.11 174	22.428 329	6.53 156	50.633 222	52.54 10	56.129 248	14.00 100
16.3	39.823 306	37.36 175	22.802 374	5.51 102	50.884 251	53.00 46	56.412 283	13.50 50
	334	171	412	40	275	81	313	3
26.3	40.157	35.65	23.214	5.11 —	51.159	53.81	56.725	13.53
11 5.3	40.513 356	34.02 163	23.653 439	5.33 22	51.455 296	54.98 117	57.061 336	14.12 59
15.2	40.885 372	32.52 150	24.106 453	6.20 87	51.766 311	56.47 149	57.412 351	15.25 113
25.2	41.266 381	31.21 131	24.559 453	7.69 149	52.084 318	58.24 177	57.769 357	16.90 165
12 5.2	41.646 380	30.12 109	24.997 438	9.75 206	52.401 317	60.23 199	58.120 351	19.02 212
	367	81	408	258	305	215	334	252
15.2	42.013	29.31	25.405	12.33	52.706	62.38	58.454	21.54
25.1	42.357 344	28.80 51	25.770 365	15.33 300	52.990 284	64.61 223	58.760 306	24.38 284
35.1	42.666 309	28.62 18	26.078 308	18.66 333	53.245 255	66.84 223	59.028 268	27.44 306
平位	s 38.938	″ 49.91	s 22.685	″ 14.95	s 50.105	″ 53.92	s 55.892	″ 20.43
sec δ, tan δ	+ 1.215	+ 0.691	+ 1.734	− 1.416	+ 1.011	− 0.148	+ 1.231	− 0.719
2回正中	2月10日		2月11日		2月12日		2月12日	
a b	+ 0.1833	− 0.0350	+ 0.0928	+ 0.0724	+ 0.1471	+ 0.0077	+ 0.1237	+ 0.0376
a′ b′	− 0.7594	− 0.6506	− 0.7671	− 0.6415	− 0.7794	− 0.6265	− 0.7851	− 0.6193
FK3番號	352		353		354		356	

星名	23 UMaj		† φ Velr *m*		ϑ UMaj		24 UMaj	
等級	3.75		3.64		3.26		4.57	
スペクトル型	F0		F5		F8p		G0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 9 27	° ′ +63 18	h m 9 28	° ′ −40 13	h m 9 29	° ′ +51 55	h m 9 29	° ′ +70 4
	s	″	s	″	s	″	s	″
1 1.1	8.47	16.80	30.443	6.18	7.492	50.06	34.53	28.05
11.1	8.94 47	18.17 137	30.688 245	9.41 323	7.854 362	50.87 81	35.12 59	29.67 162
21.1	9.32 38	19.96 179	30.879 191	12.75 334	8.154 300	52.09 122	35.61 49	31.73 206
31.0	9.61 29	22.09 213	31.012 133	16.08 333	8.383 229	53.64 155	35.97 36	34.13 240
2 10.0	9.80 19	24.48 239	31.085 73	19.33 325	8.535 152	55.47 183	36.20 23	36.78 265
	8	255	14	307	74	203	10	280
19.9	9.88 —	27.03	31.099 —	22.40	8.609 —	57.50	36.30 —	39.58
29.9	9.86 2	29.62 259	31.056 43	25.24 284	8.605 4	59.62 212	36.26 4	42.41 283
3 10.9	9.74 12	32.16 254	30.964 92	27.78 254	8.531 74	61.75 213	36.10 16	45.14 273
20.9	9.54 20	34.53 237	30.829 135	29.98 220	8.395 136	63.78 203	35.83 27	47.68 254
30.9	9.27 27	36.65 212	30.660 169	31.81 183	8.208 187	65.64 186	35.46 37	49.93 225
	32	178	195	142	225	162	44	187
9.9	8.95 36	38.43 138	30.465 212	33.23 100	7.983 249	67.26 130	35.02 49	51.80 142
19.8	8.59 38	39.81 94	30.253 219	34.23 56	7.734 260	68.56 96	34.53 52	53.22 95
29.8	8.21 38	40.75 49	30.034 220	34.79 12	7.474 258	69.52 59	34.01 52	54.17 43
5 9.8	7.84 37	41.24 1	29.814 213	34.91 31	7.216 258	70.11 20	33.49 52	54.60 7
19.7	7.48 36	41.25 —	29.601 200	34.60 —	6.971 245	70.31 —	32.99 50	54.53 —
	33	45		74	224	19	46	58
29.7	7.15	40.80 89	29.401 182	33.86 114	6.747 193	70.12 56	32.53 42	53.95 106
6 8.7	6.86 29	39.91 130	29.219 160	32.72 151	6.554 157	69.56 91	32.11 35	52.89 149
18.7	6.62 24	38.61 168	29.059 132	31.21 185	6.397 117	68.65 123	31.76 27	51.40 189
28.6	6.43 19	36.93 199	28.927 103	29.36 214	6.280 73	67.42 153	31.49 20	49.51 224
7 8.6	6.31 12	34.94 227	28.824 69	27.22 236	6.207 28	65.89 177	31.29 11	47.27 252
18.6	6.25 — 1	32.67	28.755 34	24.86 251	6.179 — 19	64.12	31.18 — 2	44.75
28.6	6.26 8	30.18 249	28.721 5	22.35 260	6.198 66	62.13 199	31.16 7	42.00 275
8 7.5	6.34 14	27.52 266	28.726 46	19.75 258	6.264 113	59.97 216	31.23 17	39.08 292
17.5	6.48 21	24.75 277	28.772 87	17.17 248	6.377 159	57.67 230	31.40 25	36.05 303
27.5	6.69 28	21.91 284	28.859 131	14.69 228	6.536 206	55.27 240	31.65 34	32.97 308
		285				244		306
9 6.4	6.97	19.06 280	28.990 174	12.41 200	6.742 252	52.83 246	31.99 42	29.91 299
16.4	7.31 34	16.26 269	29.164 217	10.41 162	6.994 297	50.37 243	32.41 51	26.92 286
26.4	7.71 40	13.57 254	29.381 258	8.79 117	7.291 340	47.94 234	32.92 58	24.06 265
10 6.4	8.16 45	11.03 232	29.639 294	7.62 67	7.631 380	45.60 221	33.50 65	21.41 240
16.3	8.67 51	8.71 204	29.933 327	6.95 11	8.011 416	43.39 203	34.15 71	19.01 207
	56							
26.3	9.23	6.67 171	30.260	6.84 — 47	8.427	41.36 179	34.86	16.94
11 5.3	9.83 60	4.96 132	30.610 350	7.31 105	8.874 447	39.57 150	35.62 76	15.24 170
15.3	10.45 62	3.64 89	30.977 367	8.36 159	9.344 470	38.07 115	36.41 79	13.98 126
25.2	11.08 63	2.75 41	31.348 371	9.95 209	9.825 481	36.92 76	37.22 81	13.21 77
12 5.2	11.72 64	2.34 — 9	31.713 365	12.04 253	10.307 482	36.16 34	38.03 78	12.94 27
	61		347		469			28
15.2	12.33	2.43	32.060	14.57	10.776	35.82 — 10	38.81	13.22
25.1	12.91 58	3.02 59	32.377 317	17.45 288	11.217 441	35.92 10	39.53 72	14.02 80
35.1	13.42 51	4.09 107	32.653 276	20.58 313	11.616 399	36.46 54	40.19 66	15.34 132
平位	s 8.151	″ 29.51	s 29.503	″ 14.58	s 7.403	″ 61.55	s 33.951	″ 41.32
sec δ, tan δ	+ 2.226	+ 1.989	+ 1.310	− 0.846	+ 1.622	+ 1.277	+ 2.935	+ 2.759
2回正中	2月13日		2月13日		2月13日		2月13日	
a b	+ 0.2354	− 0.1042	+ 0.1187	+ 0.0445	+ 0.2054	− 0.0673	+ 0.2656	− 0.1457
a′ b′	− 0.7857	− 0.6186	− 0.7893	− 0.6140	− 0.7910	− 0.6118	− 0.7922	− 0.6103
FK3番號	355		359		358		357	

星名	N Velr		10 LMin		H Cari		Grb 1564 UMaj	
等級	3.04		4.62		5.52		5.74	
スペクトル型	K5		G5		K2		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 9 29	° ′ −56 47	h m 9 30	° ′ +36 38	h m 9 31	° ′ −72 49	h m 9 37	° ′ +69 29
	s	″	s	″	s	″	s	″
1 1.1	32.941	0.66	47.915	41.07	16.27	43.05	29.67	24.55
11.1	33.231 290	4.10 344	48.212 297	41.11 4	16.71 44	46.45 340	30.27 60	26.06 151
21.1	33.449 218	7.74 364	48.460 248	41.51 40	17.02 31	50.11 366	30.76 49	28.01 195
31.0	33.589 140	11.45 371	48.652 192	42.22 71	17.19 17	53.92 381	31.14 38	30.34 233
2 10.0	33.650 61	15.14 369	48.783 131	43.22 100	17.23 4	57.76 384	31.39 25	32.94 260
	17	357	69	122	10	378	11	277
19.9	33.633	18.71	48.852	44.44	17.13	61.54	31.50 — 1	35.71
29.9	33.542 91	22.07 336	48.861 9	45.81 137	16.91 22	65.17 363	31.49 1	38.52 281
3 10.9	33.386 156	25.16 309	48.815 46	47.27 146	16.57 34	68.57 340	31.35 14	41.27 275
20.9	33.173 213	27.91 275	48.722 93	48.74 147	16.12 45	71.65 308	31.11 24	43.85 258
30.9	32.912 261	30.27 236	48.590 132	50.15 141	15.59 53	74.37 272	30.76 35	46.15 230
	296	193	159	129	60	230	41	194
4 9.9	32.616	32.20	48.431	51.44	14.99	76.67	30.35	48.09
19.8	32.294 322	33.65 145	48.254 177	52.57 113	14.34 65	78.49 182	29.89 46	49.60 151
29.8	31.958 336	34.62 97	48.070 184	53.48 91	13.66 68	79.82 133	29.39 50	50.64 104
5 9.8	31.617 341	35.08 46	47.888 182	54.15 67	12.95 71	80.62 80	28.89 50	51.17 53
19.7	31.281 336	35.03 5	47.717 171	54.57 42	12.25 70	80.87 25	28.40 49	51.20 3
	323	56	153	16	69	28	45	48
29.7	30.958	34.47	47.564	54.73 — 10	11.56	80.59	27.95	50.72
6 8.7	30.656 302	33.42 105	47.434 130	54.63 10	10.91 65	79.77 82	27.54 41	49.76 96
18.7	30.383 273	31.91 151	47.331 103	54.28 35	10.30 61	78.44 133	27.18 36	48.36 140
28.6	30.146 237	29.99 192	47.258 73	53.70 58	9.76 54	76.64 180	26.90 28	46.55 181
7 8.6	29.951 195	27.69 230	47.218 40	52.90 80	9.29 47	74.40 224	26.70 20	44.38 217
	148	261	7	100	38	259	13	248
18.6	29.803 96	25.08 283	47.211 — 27	51.90 118	8.91 27	71.81 288	26.57 — 4	41.90
28.6	29.707 96	22.25 297	47.238 61	50.72 135	8.64 16	68.93 308	26.53 5	39.19 271
8 7.5	29.668 39	19.28 301	47.299 96	49.37 150	8.48 5	65.85 319	26.58 14	36.29 290
17.5	29.689 21	16.27 296	47.395 131	47.87 162	8.43 9	62.66 317	26.72 22	33.26 303
27.5	29.773 84	13.31 280	47.526 166	46.25 173	8.52 20	59.49 306	26.94 31	30.16 310
	148							310
9 6.4	29.921	10.51	47.692	44.52	8.72	56.43	27.25	27.06
16.4	30.133 212	7.98 253	47.893 201	42.70 182	9.06 34	53.60 283	27.64 39	24.02 304
26.4	30.407 274	5.83 215	48.130 237	40.82 188	9.51 45	51.11 249	28.12 48	21.10 292
10 6.4	30.738 331	4.14 169	48.400 270	38.91 191	10.07 56	49.06 205	28.67 55	18.36 274
16.3	31.120 382	2.98 116	48.704 304	37.01 190	10.72 65	47.53 153	29.28 61	15.87 249
	425	55	333	186	72	92	68	219
26.3	31.545	2.43 — 8	49.037	35.15 176	11.44 77	46.61 28	29.96 73	13.68 181
11 5.3	31.999 454	2.51 73	49.396 359	33.39 162	12.21 80	46.33 39	30.69 77	11.87 139
15.3	32.471 472	3.24 136	49.774 378	31.77 141	13.01 79	46.72 106	31.46 79	10.48 92
25.2	32.946 475	4.60 196	50.163 389	30.36 117	13.80 77	47.78 169	32.25 78	9.56 40
12 5.2	33.407 461	6.56 248	50.554 391	29.19 87	14.57 70	49.47 228	33.03 77	9.16 14
	432		381					
15.2	33.839	9.04	50.935	28.32	15.27	51.75	33.80	9.30
25.1	34.228 389	11.97 293	51.294 359	27.78 54	15.89 62	54.53 278	34.52 72	9.97 67
35.1	34.560 332	15.26 329	51.621 327	27.60 18	16.40 51	57.73 320	35.17 65	11.17 120
平位	s 31.127	″ 12.12	s 47.914	″ 50.14	s 12.005	″ 56.69	s 29.221	″ 37.97
sec δ, tan δ	+ 1.826	− 1.527	+ 1.246	+ 0.744	+ 3.388	− 3.237	+ 2.855	+ 2.674
2回正中	2月13日		2月13日		2月14日		2月15日	
a b	+ 0.0912	+ 0.0807	+ 0.1834	− 0.0395	+ 0.0229	+ 0.1719	+ 0.2572	− 0.1449
a′ b′	− 0.7921	− 0.6104	− 0.7955	− 0.6060	− 0.7965	− 0.6046	− 0.8128	− 0.5825
FK3番號	361		360		362		363	

星名		x Hyda		o Leon		ϑ Antl		ε Leon	
等級	スペクトル型	4.96	B3	3.76	F5,A3	4.98	F5p	3.12	G0p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 9 37	° ′ −14 4	h m 9 38	° ′ +10 8	h m 9 41	° ′ −27 30	h m 9 42	° ′ +24 1
		s	″	s	″	s	″	s	″
1	1.1	37.518 237	35.68 244	9.846 251	49.77 137	42.710 245	37.88 289	40.519 275	52.56 69
	11.1	37.755 196	38.12 238	10.097 210	48.40 115	42.955 200	40.77 293	40.794 233	51.87 39
	21.1	37.951 149	40.50 227	10.307 164	47.25 91	43.155 150	43.70 287	41.027 183	51.48 9
	31.1	38.100 99	42.77 208	10.471 113	46.34 66	43.305 97	46.57 276	41.210 130	51.39 20
2	10.0	38.199 48	44.85 186	10.584 63	45.68 41	43.402 43	49.33 257	41.340 75	51.59 45
	19.9	38.247 2	46.71 162	10.647 14	45.27 18	43.445 −6	51.90	41.415 22	52.04 65
	29.9	38.249 42	48.33 135	10.661 30	45.09 3	43.439 52	54.23 233	41.437 26	52.69 82
3	10.9	38.207 79	49.68 106	10.631 69	45.12 20	43.387 92	56.28 205	41.411 69	53.51 92
	20.9	38.128 108	50.74 79	10.562 99	45.32 34	43.295 123	58.02 174	41.342 102	54.43 96
	30.9	38.020 129	51.53 52	10.463 121	45.66 44	43.172 146	59.43 141	41.240 129	55.39 97
4	9.9	37.891 143	52.05 24	10.342 135	46.10 52	43.026 162	60.49 71	41.111 145	56.36 91
	19.8	37.748 149	52.29 2	10.207 140	46.62 57	42.864 171	61.20 35	40.966 151	57.27 83
	29.8	37.599 148	52.27 27	10.067 139	47.19 59	42.693 171	61.55 1	40.815 152	58.10 72
5	9.8	37.451 141	52.00 51	9.928 131	47.78 60	42.522 166	61.54 35	40.663 143	58.82 58
	19.8	37.310 129	51.49 74	9.797 118	48.38 59	42.356 155	61.19 69	40.520 130	59.40 44
	29.7	37.181 114	50.75 94	9.679 101	48.97 57	42.201 140	60.50 101	40.390 112	59.84 28
6	8.7	37.067 95	49.81 113	9.578 81	49.54 54	42.061 122	59.49 130	40.278 90	60.12 13
	18.7	36.972 74	48.68 127	9.497 58	50.08 50	41.939 100	58.19 155	40.188 66	60.25 3
	28.6	36.898 50	47.41 140	9.439 35	50.58 44	41.839 77	56.64 177	40.122 41	60.22 18
7	8.6	36.848 26	46.01 148	9.404 9	51.02 36	41.762 49	54.87 194	40.081 12	60.04 34
	18.6	36.822 −1	44.53 150	9.395 16	51.38 28	41.713 20	52.93 204	40.069 15	59.70 49
	28.6	36.823 27	43.03 149	9.411 43	51.66 17	41.693 10	50.89 209	40.084 44	59.21 64
8	7.5	36.850 57	41.54 141	9.454 70	51.83 4	41.703 43	48.80 205	40.128 74	58.57 79
	17.5	36.907 87	40.13 128	9.524 99	51.87 12	41.746 77	46.75 194	40.202 104	57.78 95
	27.5	36.994 119	38.85 107	9.623 127	51.75 29	41.823 113	44.81 175	40.306 135	56.83 110
9	6.5	37.113 150	37.78 82	9.750 158	51.46 49	41.936 150	43.06 148	40.441 166	55.73 125
	16.4	37.263 183	36.96 50	9.908 188	50.97 70	42.086 186	41.58 115	40.607 199	54.48 140
	26.4	37.446 214	36.46 16	10.096 218	50.27 93	42.272 223	40.43 75	40.806 231	53.08 152
10	6.4	37.660 245	36.30 23	10.314 247	49.34 113	42.495 256	39.68 30	41.037 262	51.56 163
	16.3	37.905 273	36.53 63	10.561 274	48.21 134	42.751 287	39.38 19	41.299 291	49.93 170
	26.3	38.178 296	37.16 102	10.835 298	46.87 152	43.038 312	39.57 68	41.590 317	48.23 175
11	5.3	38.474 312	38.18 141	11.133 315	45.35 164	43.350 329	40.25 118	41.907 336	46.48 173
	15.3	38.786 321	39.59 174	11.448 326	43.71 174	43.679 339	41.43 163	42.243 348	44.75 167
	25.2	39.107 322	41.33 203	11.774 328	41.97 176	44.018 338	43.06 204	42.591 353	43.08 154
12	5.2	39.429 312	43.36 224	12.102 321	40.21 173	44.356 327	45.10 239	42.944 345	41.54 137
	15.2	39.741 293	45.60 239	12.423 303	38.48 164	44.683 304	47.49 265	43.289 329	40.17 115
	25.1	40.034 263	47.99 245	12.726 276	36.84 150	44.987 272	50.14 283	43.618 301	39.02 88
	35.1	40.297	50.44	13.002	35.34	45.259	52.97	43.919	38.14
平位		s 37.217	″ 38.63	s 9.795	″ 52.95	s 42.190	″ 44.39	s 40.559	″ 58.98
sec δ, tan δ		+ 1.031	− 0.251	+ 1.016	+ 0.179	+ 1.128	− 0.521	+ 1.095	+ 0.446
2 回正中		2 月 15 日		2 月 15 日		2 月 16 日		2 月 16 日	
a	b	+ 0.1436	+ 0.0136	+ 0.1603	− 0.0097	+ 0.1336	+ 0.0286	+ 0.1701	− 0.0245
a′	b′	− 0.8132	− 0.5821	− 0.8145	− 0.5801	− 0.8234	− 0.5675	− 0.8258	− 0.5640
FK3番號		364		365		366		367	

星名		† υ Cari		υ UMaj		6 Sext		μ Leon	
等級	スペクトル型	3.15	F0	3.89	F0	6.00	A2	4.10	K0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 9 45	° ′ −64 48	h m 9 46	° ′ +59 17	h m 9 48	° ′ − 3 58	h m 9 49	° ′ +26 15
		s	″	s	″	s	″	s	″
1	1.1	44.67 37	27.84 336	61.539 444	59.23 98	24.809 248	47.52 204	34.876 284	70.93 63
	11.1	45.04 28	31.20 363	61.983 377	60.21 144	25.057 209	49.56 192	35.160 243	70.30 30
	21.1	45.32 19	34.83 376	62.360 296	61.65 182	25.266 164	51.48 175	35.403 193	70.00 2
	31.1	45.51 9	38.59 381	62.656 207	63.47 213	25.430 115	53.23 153	35.596 139	70.02 31
2	10.0	45.60 −1	42.40 375	62.863 116	65.60 235	25.545 66	54.76 130	35.735 84	70.33 57
	20.0	45.59 9	46.15 361	62.979 23	67.95 246	25.611 18	56.06 106	35.819 30	70.90 78
	29.9	45.50 19	49.76 337	63.002 64	70.41 247	25.629 24	57.12 81	35.849 20	71.68 94
3	10.9	45.31 25	53.13 308	62.938 142	72.88 238	25.605 62	57.93 56	35.829 64	72.62 105
	20.9	45.06 32	56.21 271	62.796 206	75.26 218	25.543 92	58.49 34	35.765 100	73.67 108
	30.9	44.74 37	58.92 230	62.590 259	77.44 191	25.451 115	58.83 12	35.665 127	74.75 106
4	9.9	44.37 41	61.22 184	62.331 294	79.35 156	25.336 129	58.95 −7	35.538 144	75.81 101
	19.8	43.96 44	63.06 135	62.037 315	80.91 116	25.207 136	58.88 24	35.394 153	76.82 89
	29.8	43.52 45	64.41 85	61.722 320	82.07 74	25.071 137	58.64 41	35.241 154	77.71 77
5	9.8	43.07 46	65.26 31	61.402 312	82.81 29	24.934 131	58.23 55	35.087 148	78.48 61
	19.8	42.61 44	65.57 23	61.090 292	83.10 15	24.803 121	57.68 67	34.939 134	79.09 44
	29.7	42.17 42	65.34 74	60.798 262	82.95 59	24.682 106	57.01 79	34.805 118	79.53 26
6	8.7	41.75 40	64.60 124	60.536 224	82.36 100	24.576 88	56.22 89	34.687 96	79.79 −8
	18.7	41.35 36	63.36 171	60.312 180	81.35 138	24.488 69	55.33 95	34.591 73	79.87 9
	28.6	40.99 30	61.65 213	60.132 129	79.98 172	24.419 48	54.38 100	34.518 48	79.78 27
7	8.6	40.69 25	59.52 250	60.003 77	78.26 203	24.371 24	53.38 101	34.470 19	79.51 45
	18.6	40.44 19	57.02 278	59.926 22	76.23 228	24.347 0	52.37 100	34.451 −7	79.06 61
	28.6	40.25 11	54.24 298	59.904 35	73.95 249	24.347 −26	51.37 94	34.458 37	78.45 78
8	7.5	40.14 −3	51.26 310	59.939 92	71.46 266	24.373 52	50.43 83	34.495 67	77.67 94
	17.5	40.11 5	48.16 309	60.031 150	68.80 275	24.425 82	49.60 70	34.562 98	76.73 109
	27.5	40.16 13	45.07 299	60.181 207	66.05 282	24.507 110	48.90 50	34.660 129	75.64 125
9	6.5	40.29 22	42.08 277	60.388 265	63.23 283	24.617 142	48.40 27	34.789 162	74.39 140
	16.4	40.51 31	39.31 245	60.653 321	60.40 277	24.759 174	48.13 0	34.951 195	72.99 153
	26.4	40.82 38	36.86 202	60.974 375	57.63 267	24.933 204	48.13 30	35.146 229	71.46 165
10	6.4	41.20 45	34.84 150	61.349 426	54.96 251	25.137 236	48.43 61	35.375 261	69.81 174
	16.3	41.65 51	33.34 93	61.775 473	52.45 228	25.373 263	49.04 94	35.636 290	68.07 181
	26.3	42.16 56	32.41 28	62.248 514	50.17 199	25.636 289	49.98 124	35.926 318	66.26 182
11	5.3	42.72 58	32.13 37	62.762 544	48.18 165	25.925 307	51.22 153	36.244 339	64.44 178
	15.3	43.30 59	32.50 103	63.306 563	46.53 125	26.232 318	52.75 176	36.583 353	62.66 171
	25.2	43.89 57	33.53 166	63.869 568	45.28 79	26.550 322	54.51 196	36.936 358	60.95 155
12	5.2	44.46 54	35.19 224	64.437 558	44.49 32	26.872 315	56.47 207	37.294 353	59.40 136
	15.2	45.00 49	37.43 274	64.995 531	44.17 18	27.187 299	58.54 212	37.647 337	58.04 111
	25.2	45.49 42	40.17 317	65.526 487	44.35 68	27.486 272	60.66 210	37.984 310	56.93 83
	35.1	45.91	43.34	66.013	45.03	27.758	62.76	38.294	56.10
平位		s 42.179	″ 41.92	s 61.480	″ 71.91	s 24.681	″ 48.32	s 34.955	″ 77.79
sec δ, tan δ		+ 2.350	− 2.126	+ 1.959	+ 1.684	+ 1.002	− 0.070	+ 1.115	+ 0.494
2 回正中		2 月 17 日		2 月 18 日		2 月 18 日		2 月 18 日	
a	b	+ 0.0749	+ 0.1181	+ 0.2149	− 0.0939	+ 0.1508	+ 0.0039	+ 0.1711	− 0.0277
a′	b′	− 0.8332	− 0.5530	− 0.8364	− 0.5482	− 0.8397	− 0.5431	− 0.8424	− 0.5388
FK3番號		369		368		370		371	

本初子午線正中時

星名 / 等級 / スペクトル型 / 世界時	183 G. Hyda 5.16 M0 赤経	赤緯	Grb 1586 UMaj 5.96 K0 赤経	赤緯	19 LMin 5.19 F5 赤経	赤緯	φ Velr 3.70 B5 赤経	赤緯
月 日	h m 9 52	° ′ −18 44	h m 9 53	° ′ +73 8	h m 9 54	° ′ +41 18	h m 9 54	° ′ −54 17
	s	″	s	″	s	″	s	″
1 1.1	13.933 250	31.08 261	25.75 73	35.75 147	15.590 334	73.67 9	55.023 317	48.49 330
11.1	14.188 210	33.69 259	26.48 62	37.22 195	15.924 285	73.76 48	55.340 254	51.79 352
21.1	14.398 161	36.28 250	27.10 48	39.17 235	16.209 229	74.24 86	55.594 183	55.31 364
31.1	14.559 113	38.78 235	27.58 34	41.52 266	16.438 167	75.10 118	55.777 109	58.95 365
2 10.0	14.672 61	41.13 215	27.92 18	44.18 286	16.605 102	76.28 145	55.886 37	62.60 357
20.0	14.733 13	43.28 191	28.10 3	47.04 294	16.707 37	77.73 162	55.923 35	66.17 341
29.9	14.746 30	45.19 164	28.13 13	49.98 290	16.744 22	79.35 174	55.888 98	69.58 318
3 10.9	14.716 70	46.83 136	28.00 26	52.88 274	16.722 75	81.09 176	55.790 155	72.76 287
20.9	14.646 100	48.19 106	27.74 38	55.62 248	16.647 120	82.85 169	55.635 204	75.63 251
30.9	14.546 124	49.25 76	27.36 48	58.10 212	16.527 155	84.54 157	55.431 241	78.14 211
4 9.9	14.422 140	50.01 47	26.88 55	60.22 169	16.372 177	86.11 138	55.190 271	80.25 168
19.8	14.282 148	50.48 17	26.33 59	61.91 121	16.195 191	87.49 113	54.919 289	81.93 120
29.8	14.134 151	50.65 12	25.74 62	63.12 70	16.004 195	88.62 87	54.630 300	83.13 72
5 9.8	13.983 145	50.53 39	25.12 61	63.82 16	15.809 188	89.49 56	54.330 301	83.85 23
19.8	13.838 137	50.14 65	24.51 58	63.98 36	15.621 175	90.05 25	54.029 295	84.08 28
29.7	13.701 124	49.49 90	23.93 54	63.62 88	15.446 155	90.30 6	53.734 281	83.80 76
6 8.7	13.577 108	48.59 113	23.39 47	62.74 136	15.291 130	90.24 36	53.453 261	83.04 122
18.7	13.469 87	47.46 131	22.92 40	61.38 179	15.161 102	89.88 66	53.192 232	81.82 165
28.6	13.382 67	46.15 147	22.52 31	59.59 219	15.059 71	89.22 92	52.960 201	80.17 204
7 8.6	13.315 43	44.68 159	22.21 22	57.40 252	14.988 38	88.30 118	52.759 160	78.13 237
18.6	13.272 17	43.09 165	21.99 11	54.88 280	14.950 3	87.12 141	52.599 117	75.76 263
28.6	13.255 10	41.44 167	21.88 1	52.08 301	14.947 32	85.71 160	52.482 67	73.13 281
8 7.5	13.265 39	39.77 161	21.87 9	49.07 317	14.979 68	84.11 179	52.415 13	70.32 290
17.5	13.304 71	38.16 147	21.96 20	45.90 325	15.047 106	82.32 194	52.402 44	67.42 288
27.5	13.375 102	36.67 132	22.16 31	42.65 328	15.153 144	80.38 206	52.446 105	64.54 277
9 6.5	13.477 137	35.35 106	22.47 41	39.37 323	15.297 183	78.32 216	52.551 166	61.77 255
16.4	13.614 172	34.29 75	22.88 51	36.14 312	15.480 223	76.16 221	52.717 227	59.22 223
26.4	13.786 206	33.54 39	23.39 61	33.02 295	15.703 261	73.95 224	52.944 285	56.99 181
10 6.4	13.992 239	33.15 1	24.00 69	30.07 270	15.964 299	71.71 221	53.229 339	55.18 131
16.3	14.231 269	33.16 43	24.69 78	27.37 239	16.263 334	69.50 215	53.568 385	53.87 74
26.3	14.500 295	33.59 87	25.47 84	24.98 201	16.597 365	67.35 202	53.953 422	53.13 13
11 5.3	14.795 315	34.46 128	26.31 89	22.97 158	16.962 391	65.33 184	54.375 446	53.00 50
15.3	15.110 326	35.74 167	27.20 92	21.39 108	17.353 407	63.49 160	54.821 458	53.50 112
25.2	15.436 328	37.41 201	28.12 94	20.31 55	17.760 415	61.89 130	55.279 454	54.62 173
12 5.2	15.764 321	39.42 227	29.06 91	19.76 2	18.175 409	60.59 96	55.733 435	56.35 226
15.2	16.085 303	41.69 247	29.97 87	19.78 58	18.584 392	59.63 58	56.168 401	58.61 274
25.2	16.388 275	44.16 258	30.84 80	20.36 113	18.976 362	59.05 17	56.569 354	61.35 312
35.1	16.663	46.74	31.64	21.49	19.338	58.88	56.923	64.47
平位	s 13.634	″ 36.00	s 25.295	″ 49.74	s 15.709	″ 83.68	s 53.590	″ 61.71
sec δ, tan δ	+ 1.056	− 0.339	+ 3.449	+ 3.301	+ 1.332	+ 0.879	+ 1.714	− 1.392
2 回正中	2 月 19 日		2 月 19 日		2 月 19 日		2 月 20 日	
a b	+ 0.1414	+ 0.0192	+ 0.2688	− 0.1874	+ 0.1839	− 0.0500	+ 0.1052	+ 0.0793
a′ b′	− 0.8486	− 0.5291	− 0.8513	− 0.5247	− 0.8532	− 0.5215	− 0.8547	− 0.5192
FK3番號	373		372		374		375	

1944 本初子午線正中時

星名 / 等級 / スペクトル型 / 世界時	η Antl 5.25 F0 赤経	赤緯	12 Sext 6.63 A5 赤経	赤緯	π Leon 4.89 M0 赤経	赤緯	η Leon 3.58 A0p 赤経	赤緯
月 日	h m 9 56	° ′ −35 37	h m 9 56	° ′ + 3 38	h m 9 57	° ′ + 8 18	h m 10 4	° ′ +17 1
	s	″	s	″	s	″	s	″
1 1.1	28.534 268	10.76 305	48.813 258	70.75 173	15.289 262	47.12 153	16.790 279	67.08 115
11.1	28.802 221	13.81 316	49.071 221	69.02 156	15.551 225	45.59 131	17.069 240	65.93 88
21.1	29.023 168	16.97 317	49.292 176	67.46 134	15.776 180	44.28 108	17.309 195	65.05 60
31.1	29.191 112	20.14 311	49.468 127	66.12 110	15.956 132	43.20 82	17.504 145	64.45 30
2 10.0	29.303 55	23.25 296	49.595 79	65.02 85	16.088 81	42.38 56	17.649 94	64.15 3
20.0	29.358 3	26.21 275	49.674 30	64.17 60	16.169 33	41.82 32	17.743 44	64.12 21
29.9	29.361 47	28.96 249	49.704 13	63.57 37	16.202 12	41.50 9	17.787 4	64.33 43
3 10.9	29.314 91	31.45 218	49.691 53	63.20 16	16.190 51	41.41 10	17.783 46	64.76 58
20.9	29.223 125	33.63 185	49.638 83	63.04 3	16.139 83	41.51 26	17.737 79	65.34 69
30.9	29.098 154	35.48 147	49.555 107	63.07 20	16.056 107	41.77 39	17.658 106	66.03 77
4 9.9	28.944 173	36.95 109	49.448 123	63.27 33	15.949 124	42.16 49	17.552 124	66.80 79
19.8	28.771 185	38.04 70	49.325 131	63.60 43	15.825 132	42.65 55	17.428 135	67.59 78
29.8	28.586 189	38.74 29	49.194 133	64.03 53	15.693 133	43.20 60	17.293 137	68.37 74
5 9.8	28.397 188	39.03 11	49.061 128	64.56 59	15.560 129	43.80 62	17.156 133	69.11 67
19.8	28.209 181	38.92 50	48.933 119	65.15 65	15.431 119	44.42 62	17.023 125	69.78 59
29.7	28.028 168	38.42 88	48.814 105	65.80 68	15.312 105	45.04 62	16.898 111	70.37 49
6 8.7	27.860 151	37.54 124	48.709 89	66.48 71	15.207 89	45.66 59	16.787 93	70.86 39
18.7	27.709 132	36.30 155	48.620 69	67.19 70	15.118 68	46.25 56	16.694 75	71.25 27
28.7	27.577 107	34.75 184	48.551 49	67.89 70	15.050 48	46.81 50	16.619 53	71.52 15
7 8.6	27.470 80	32.91 206	48.502 26	68.59 65	15.002 25	47.31 44	16.566 29	71.67 3
18.6	27.390 50	30.85 222	48.476 3	69.24 60	14.977 1	47.75 36	16.537 5	71.70 12
28.6	27.340 18	28.63 233	48.473 23	69.84 50	14.976 24	48.11 24	16.532 20	71.58 25
8 7.5	27.322 19	26.30 234	48.496 49	70.34 39	15.000 51	48.35 11	16.552 48	71.33 42
17.5	27.341 57	23.96 227	48.545 76	70.73 23	15.051 79	48.46 5	16.600 76	70.91 58
27.5	27.398 97	21.69 211	48.621 106	70.96 5	15.130 108	48.41 23	16.676 107	70.33 76
9 6.5	27.495 139	19.58 187	48.727 137	71.01 17	15.238 138	48.18 43	16.783 137	69.57 94
16.4	27.634 180	17.71 155	48.864 168	70.84 41	15.376 170	47.75 66	16.920 170	68.63 113
26.4	27.814 223	16.16 114	49.032 200	70.43 66	15.546 202	47.09 88	17.090 204	67.50 132
10 6.4	28.037 261	15.02 68	49.232 231	69.77 93	15.748 234	46.21 112	17.294 235	66.18 148
16.4	28.298 297	14.34 17	49.463 260	68.84 119	15.982 262	45.09 134	17.529 267	64.70 163
26.3	28.595 326	14.17 37	49.723 286	67.65 142	16.244 289	43.75 154	17.796 294	63.07 175
11 5.3	28.921 348	14.54 91	50.009 307	66.23 164	16.533 309	42.21 169	18.090 317	61.32 181
15.3	29.269 359	15.45 144	50.316 320	64.59 179	16.842 324	40.52 181	18.407 333	59.51 184
25.2	29.628 361	16.89 192	50.636 325	62.80 190	17.166 329	38.71 185	18.740 341	57.67 179
12 5.2	29.989 350	18.81 233	50.961 321	60.90 194	17.495 324	36.86 185	19.081 337	55.88 169
15.2	30.339 328	21.14 269	51.282 306	58.96 192	17.819 311	35.01 178	19.418 325	54.19 153
25.2	30.667 295	23.83 294	51.588 282	57.04 182	18.130 286	33.23 164	19.743 302	52.66 132
35.1	30.962	26.77	51.870	55.22	18.416	31.59	20.045	51.34
平位	s 27.897	″ 20.19	s 48.795	″ 71.71	s 15.309	″ 49.33	s 16.899	″ 71.46
sec δ, tan δ	+ 1.230	− 0.717	+ 1.002	+ 0.064	+ 1.011	+ 0.146	+ 1.046	+ 0.306
2 回正中	2 月 20 日		2 月 20 日		2 月 20 日		2 月 22 日	
a b	+ 0.1288	+ 0.0410	+ 0.1555	− 0.0037	+ 0.1583	− 0.0084	+ 0.1632	− 0.0179
a′ b′	− 0.8582	− 0.5133	− 0.8590	− 0.5120	− 0.8600	− 0.5103	− 0.8752	− 0.4837
FK3番號	377		376		378		379	

星名 / 等級 / スペクトル型	α Leon 1.34 B8		λ Hyda 3.83 K0		191 G. Velr 4.09 A2		ω Cari 3.56 B8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 10 5	° ′ +12 14	h m 10 7	° ′ −12 4	h m 10 12	° ′ −41 50	h m 10 12	° ′ −69 45
	s	″	s	″	s	″	s	″
1 1.2	23.398	26.96	51.536	31.85	23.596	26.04	27.47	17.10
11.1	23.670 272	25.59 137	51.797 261	34.22 237	23.892 296	29.12 308	27.96 49	20.24 314
21.1	23.905 235	24.45 114	52.020 223	36.54 232	24.139 247	32.38 326	28.36 40	23.71 347
31.1	24.096 191	23.57 88	52.193 178	38.74 220	24.331 192	35.71 333	28.64 28	27.41 370
2 10.0	24.238 142	22.97 60	52.329 131	40.76 202	24.464 133	39.03 332	28.81 17	31.23 382
	91	33	81	181	74	322	6	384
20.0	24.329	22.64	52.410	42.57	24.538	42.25	28.87	35.07
29.9	24.371 42	22.56 8	52.444 34	44.14 157	24.555 17	45.30 305	28.82 5	38.84 377
3 10.9	24.368 3	22.69 13	52.434 10	45.45 131	24.518 37	48.11 281	28.66 16	42.45 361
20.9	24.324 44	23.01 32	52.385 49	46.50 105	24.434 84	50.64 253	28.40 26	45.81 336
30.9	24.247 77	23.48 47	52.305 80	47.29 79	24.309 125	52.83 219	28.07 33	48.87 306
	104	56	106	52	156	183	41	269
4 9.9	24.143 120	24.04 64	52.199 122	47.81 28	24.153 181	54.66 143	27.66	51.56
19.9	24.023 131	24.68 66	52.077 133	48.09 3	23.972 197	56.09 102	27.19 47	53.82 226
29.8	23.892 130	25.34 68	51.944 137	48.12 19	23.775 207	57.11 60	26.68 51	55.63 181
5 9.8	23.759 133	26.02 65	51.807 134	47.93 41	23.568 209	57.71 16	26.14 54	56.93 130
19.8	23.629 130	26.67 62	51.673 128	47.52 61	23.359 205	57.87 27	25.59 55	57.71 78
	122						56	25
29.7	23.507	27.29	51.545	46.91	23.154	57.60	25.03	57.96
6 8.7	23.399 108	27.86 57	51.428 117	46.12 79	22.958 196	56.91 69	24.48 55	57.66 30
18.7	23.306 93	28.36 50	51.325 103	45.17 95	22.776 182	55.83 108	23.95 53	56.84 82
28.7	23.233 73	28.80 44	51.239 86	44.07 110	22.612 164	54.37 146	23.46 49	55.51 133
7 8.6	23.179 54	29.14 34	51.172 67	42.87 120	22.471 141	52.58 179	23.02 44	53.71 180
	30	25	46	128	113	207	38	222
18.6	23.149 8	29.39 14	51.126 23	41.59 131	22.358 83	50.51 229	22.64 31	51.49 256
28.6	23.141 18	29.53 1	51.103 2	40.28 129	22.275 48	48.22 243	22.33 22	48.93 285
8 7.6	23.159 44	29.54 13	51.105 29	38.99 123	22.227 9	45.79 251	22.11 13	46.08 303
17.5	23.203 73	29.41 30	51.134 58	37.76 111	22.218 33	43.28 248	21.98 3	43.05 313
27.5	23.276 101	29.11 48	51.192 88	36.65 94	22.251 77	40.80 236	21.95 8	39.94 308
9 6.5	23.377	28.63	51.280	35.71	22.328	38.44	22.03	36.86
16.4	23.510 133	27.96 67	51.402 122	35.01 70	22.453 125	36.28 216	22.22 19	33.91 295
26.4	23.675 165	27.08 88	51.557 155	34.59 42	22.625 172	34.42 186	22.52 30	31.22 269
10 6.4	23.872 197	25.99 109	51.747 190	34.49 10	22.845 220	32.95 147	22.92 40	28.88 234
16.4	24.102 230	24.69 130	51.971 224	34.75 26	23.110 265	31.93 102	23.42 50	27.01 187
	260	149	255	63	306	49	57	133
26.3	24.362	23.20	52.226	35.38	23.416	31.44	23.99	25.68
11 5.3	24.650 288	21.55 165	52.509 283	36.39 101	23.756 340	31.49 5	24.63 64	24.96 72
15.3	24.960 310	19.79 176	52.814 305	37.75 136	24.123 367	32.13 64	25.32 69	24.88 8
25.3	25.286 326	17.95 184	53.133 319	39.45 170	24.505 382	33.32 119	26.02 70	25.47 59
12 5.2	25.620 334	16.10 185	53.459 326	41.41 196	24.891 386	35.05 173	26.73 71	26.72 125
	331	180	322	218	377	220	67	186
15.2	25.951	14.30	53.781	43.59	25.268	37.25	27.40	28.58
25.2	26.269 318	12.62 168	54.088 307	45.90 231	25.625 357	39.86 261	28.02 62	31.00 242
35.1	26.563 294	11.10 152	54.371 283	48.28 238	25.948 323	42.80 294	28.57 55	33.90 290
平位	s 23.483	″ 30.04	s 51.405	″ 35.72	s 22.872	″ 38.02	s 24.550	″ 34.12
sec δ, tan δ	+ 1.023	+ 0.217	+ 1.023	− 0.214	+ 1.342	− 0.896	+ 2.890	− 2.712
2 回正中	2 月 23 日		2 月 23 日		2 月 24 日		2 月 24 日	
a b	+ 0.1603	− 0.0127	+ 0.1466	+ 0.0126	+ 0.1263	+ 0.0532	+ 0.0715	+ 0.1612
a′ b′	− 0.8776	− 0.4795	− 0.8827	− 0.4700	− 0.8918	− 0.4525	− 08.918	− 0.4524
FK3番號	380		381		382		385	

星名 / 等級 / スペクトル型	ζ Leon 3.65 F0		λ UMaj 3.52 A2		μ UMaj 3.21 K5		30 H. UMaj 4.92 A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 10 13	° ′ +23 41	h m 10 13	° ′ +43 11	h m 10 18	° ′ +41 46	h m 10 20	° ′ +65 50
	s	″	s	″	s	″	s	″
1 1.2	34.541	43.61	43.408	30.92	59.759	44.74	6.90	47.86
11.1	34.837 296	42.71 90	43.764 356	30.92 0	60.113 354	44.63 11	7.48 58	48.74 88
21.1	35.096 259	42.14 57	44.076 312	31.35 43	60.425 312	44.95 32	7.99 51	50.15 141
31.1	35.308 212	41.89 25	44.333 257	32.19 84	60.683 258	45.68 73	8.41 42	52.01 186
2 10.0	35.470 162	41.96 7	44.527 194	33.38 119	60.880 197	46.78 110	8.72 31	54.26 225
	108	36	129	150	134	141	21	252
20.0	35.578	42.32	44.656	34.88	61.014	48.19	8.93	56.78
29.9	35.634 56	42.93 61	44.720 64	36.60 172	61.084 70	49.82 163	9.03 10	59.49 271
3 10.9	35.640 6	43.74 81	44.721 1	38.45 185	61.094 10	51.61 179	9.01 2	62.25 276
20.9	35.601 39	44.69 95	44.666 55	40.35 190	61.047 47	53.47 186	8.90 11	64.96 271
30.9	35.526 75	45.72 103	44.562 104	42.21 186	60.952 95	55.30 183	8.69 21	67.51 255
	104	107	142	174	133	173	28	229
4 9.9	35.422	46.79	44.420	43.95	60.819	57.03	8.41	69.80
19.9	35.296 126	47.82 103	44.249 171	45.51 156	60.658 161	58.60 157	8.07 34	71.74 194
29.8	35.158 138	48.79 97	44.061 188	46.82 131	60.478 180	59.94 134	7.69 38	73.27 153
5 9.8	35.016 142	49.65 86	43.865 196	47.85 103	60.290 188	61.01 107	7.29 40	74.35 108
19.8	34.875 141	50.38 73	43.670 195	48.57 72	60.102 188	61.78 77	6.89 40	74.95 60
	132	59	185	39	179	45	40	10
29.7	34.743	50.97	43.485	48.96	59.923	62.23	6.49	75.05
6 8.7	34.623 120	51.38 41	43.315 170	49.01 5	59.757 166	62.35 12	6.11 38	74.65 40
18.7	34.519 104	51.63 25	43.167 148	48.72 29	59.611 146	62.15 20	5.78 33	73.78 87
28.7	34.435 84	51.70 7	43.044 123	48.12 60	59.489 122	61.63 52	5.48 30	72.46 132
7 8.6	34.372 63	51.59 11	42.950 94	47.21 91	59.394 95	60.81 82	5.24 24	70.73 173
	39	28	63	120	65	111	18	210
18.6	34.333	51.31	42.887	46.01	59.329	59.70	5.06	68.63
28.6	34.319 14	50.85 46	42.858 29	44.56 145	59.296 33	58.33 137	4.94 12	66.21 242
8 7.6	34.332 13	50.21 64	42.864 6	42.87 169	59.296 0	56.72 161	4.89 5	63.51 270
17.5	34.372 40	49.40 81	42.907 43	40.97 190	59.332 36	54.91 181	4.91 2	60.60 291
27.5	34.442 70	48.40 100	42.987 80	38.90 207	59.404 72	52.90 201	5.00 9	57.54 306
	101	116	120	222	111	216	16	317
9 6.5	34.543	47.24	43.107	36.68	59.515	50.74	5.16	54.37
16.4	34.676 133	45.90 134	43.268 161	34.35 233	59.666 151	48.46 228	5.40 24	51.17 320
26.4	34.844 168	44.39 151	43.470 202	31.95 240	59.858 192	46.09 237	5.71 31	47.98 319
10 6.4	35.047 203	42.74 165	43.715 245	29.51 244	60.092 234	43.67 242	6.10 39	44.90 308
16.4	35.284 237	40.96 178	44.000 285	27.09 242	60.367 275	41.25 242	6.56 46	41.97 293
	270	187	325	235	314	237	52	270
26.3	35.554	39.09	44.325	24.74	60.681	38.88	7.08	39.27
11 5.3	35.854 300	37.16 193	44.685 360	22.51 223	61.031 350	36.62 226	7.66 58	36.88 239
15.3	36.179 325	35.22 194	45.075 390	20.47 204	61.411 380	34.53 209	8.28 62	34.84 204
25.3	36.522 343	33.34 188	45.487 412	18.68 179	61.813 402	32.68 185	8.95 67	33.25 159
12 5.2	36.875 353	31.57 177	45.910 423	17.20 148	62.229 416	31.12 156	9.63 68	32.14 111
	353	160	423	112	416	121	68	58
15.2	37.228	29.97	46.333	16.08	62.645	29.91	10.31	31.56
25.2	37.569 341	28.59 138	46.743 410	15.37 71	63.050 405	29.09 82	10.98 67	31.53 3
35.1	37.888 319	27.50 109	47.127 384	15.09 28	63.430 380	28.70 39	11.60 62	32.06 53
平位	s 34.728	″ 49.57	s 43.639	″ 41.32	s 60.022	″ 54.86	s 7.036	″ 61.70
sec δ, tan δ	+ 1.092	+ 0.439	+ 1.372	+ 0.939	+ 1.341	+ 0.894	+ 2.444	+ 2.230
2 回正中	2 月 24 日		2 月 24 日		2 月 26 日		2 月 26 日	
a b	+ 0.1664	− 0.0262	+ 0.1813	− 0.0560	+ 0.1787	− 0.0539	+ 0.2161	− 0.1348
a′ b′	− 0.8941	− 0.4478	− 0.8944	− 0.4473	− 0.9045	− 0.4266	− 0.9065	− 0.4222
FK3番號	384		383		386		387	

星名		25 Sext		I Cari		μ Hyda		α Antl	
等級	スペクトル型	6.10	B9	4.08	F5	4.06	K5	4.42	K5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 10 20	° ′ −3 47	h m 10 23	° ′ −73 44	h m 10 23	° ′ −16 32	h m 10 24	° ′ −30 46
		s	″	s	″	s	″	s	″
1	1.2	36.575 270	23.34 208	21.01 62	28.33 301	22.918 273	53.42 250	35.523 285	45.02 284
	11.1	36.845 235	25.42 196	21.63 50	31.34 337	23.191 236	55.92 250	35.808 245	47.86 296
	21.1	37.080 193	27.38 179	22.13 37	34.71 365	23.427 192	58.42 241	36.053 198	50.82 297
	31.1	37.273 147	29.17 159	22.50 23	38.36 380	23.619 146	60.83 227	36.251 147	53.79 291
2	10.1	37.420 99	30.76 135	22.73 9	42.16 386	23.765 96	63.10 208	36.398 93	56.70 279
	20.0	37.519 52	32.11 110	22.82 −4	46.02 383	23.861 48	65.18 185	36.491 43	59.49 259
	29.9	37.571 −7	33.21 84	22.78 17	49.85 371	23.909 −4	67.03 160	36.534 −6	62.08 236
3	10.9	37.578 32	34.05 60	22.61 28	53.56 350	23.913 36	68.63 134	36.528 49	64.44 208
	20.9	37.546 64	34.65 38	22.33 39	57.06 322	23.877 70	69.97 105	36.479 85	66.52 177
	30.9	37.482 91	35.03 16	21.94 49	60.28 288	23.807 96	71.02 78	36.394 115	68.29 144
4	9.9	37.391 109	35.19 −4	21.45 56	63.16 247	23.711 115	71.80 51	36.279 137	69.73 110
	19.9	37.282 121	35.15 20	20.89 62	65.63 203	23.596 129	72.31 24	36.142 152	70.83 75
	29.8	37.161 126	34.95 36	20.27 67	67.66 154	23.467 135	72.55 2	35.990 160	71.58 39
5	9.8	37.035 125	34.59 50	19.60 69	69.20 102	23.332 135	72.53 27	35.830 164	71.97 −3
	19.8	36.910 121	34.09 62	18.91 71	70.22 48	23.197 132	72.26 51	35.666 161	72.00 33
	29.8	36.789 111	33.47 71	18.20 70	70.70 −6	23.065 124	71.75 73	35.505 153	71.67 66
6	8.7	36.678 99	32.76 81	17.50 69	70.64 61	22.941 113	71.02 93	35.352 143	71.01 99
	18.7	36.579 83	31.95 86	16.81 64	70.03 112	22.828 98	70.09 111	35.209 128	70.02 128
	28.7	36.496 67	31.09 91	16.17 59	68.91 162	22.730 81	68.98 125	35.081 110	68.74 154
7	8.6	36.429 47	30.18 92	15.58 51	67.29 208	22.649 62	67.73 137	34.971 89	67.20 176
	18.6	36.382 26	29.26 91	15.07 43	65.21 245	22.587 40	66.36 143	34.882 64	65.44 192
	28.6	36.356 −2	28.35 85	14.64 33	62.76 276	22.547 −15	64.93 146	34.818 36	63.52 202
8	7.6	36.354 22	27.50 76	14.31 21	60.00 299	22.532 11	63.47 142	34.782 −5	61.50 206
	17.5	36.376 50	26.74 62	14.10 −9	57.01 311	22.543 40	62.05 132	34.777 29	59.44 201
	27.5	36.426 79	26.12 45	14.01 5	53.90 313	22.583 72	60.73 116	34.806 66	57.43 189
9	6.5	36.505 111	25.67 23	14.06 19	50.77 302	22.655 106	59.57 95	34.872 106	55.54 168
	16.5	36.616 145	25.44 −3	14.25 32	47.75 282	22.761 142	58.62 66	34.978 147	53.86 140
	26.4	36.761 178	25.47 32	14.57 45	44.93 248	22.903 178	57.96 34	35.125 189	52.46 104
10	6.4	36.939 213	25.79 62	15.02 57	42.45 206	23.081 215	57.62 −2	35.314 230	51.42 63
	16.4	37.152 245	26.41 93	15.59 68	40.39 153	23.296 249	57.64 42	35.544 267	50.79 16
	26.3	37.397 274	27.34 124	16.27 76	38.86 95	23.545 279	58.06 82	35.811 301	50.63 −33
11	5.3	37.671 299	28.58 152	17.03 82	37.91 31	23.824 305	58.88 122	36.112 327	50.96 83
	15.3	37.970 315	30.10 177	17.85 85	37.60 −36	24.129 321	60.10 159	36.439 346	51.79 132
	25.3	38.285 325	31.87 195	18.70 85	37.96 102	24.450 331	61.69 191	36.785 353	53.11 177
12	5.2	38.610 324	33.82 209	19.55 82	38.98 166	24.781 329	63·60 218	37.138 350	54.88 217
	15.2	38.934 313	35.91 214	20.37 76	40.64 223	25.110 317	65.78 236	37.488 335	57.05 250
	25.2	39.247 292	38.05 213	21.13 68	42.87 274	25.427 294	68.14 248	37.823 309	59.55 274
	35.2	39.539	40.18	21.81	45.61	25.721	70.62	38.132	62.29
平位		s 36.600	″ 25.32	s 17.389	″ 46.70	s 22.807	″ 59.31	s 35.173	″ 55.01
sec δ, tan δ		+ 1.002	− 0.066	+ 3.573	− 3.430	+ 1.043	− 0.297	+ 1.164	− 0.596
2 回正中		2 月 26 日		2 月 27 日		2 月 27 日		2 月 27 日	
a	b	+ 0.1515	+ 0.0040	+ 0.0597	+ 0.2086	+ 0.1452	+ 0.0181	+ 0.1373	+ 0.0363
a′	b′	− 0.9074	− 0.4202	− 0.9123	− 0.4096	− 0.9124	− 0.4092	− 0.9146	− 0.4044
FK3番號		388		391		389		392	

星名		β LMin		196 G. Cari		36 UMaj		ρ Leon	
等級	スペクトル型	4.41	K0	4.08	F0	4.84	F5	3.85	B0p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 10 24	° ′ +36 59	h m 10 25	° ′ −58 26	h m 10 27	° ′ +56 15	h m 10 29	° ′ +9 35
		s	″	s	″	s	″	s	″
1	1.2	38.773 339	32.31 37	50.516 386	54.39 309	3.093 456	53.76 42	51.624 285	41.63 159
	11.1	39.112 300	31.94 3	50.902 323	57.48 340	3.549 403	54.18 94	51.909 251	40.04 136
	21.1	39.412 249	31.97 43	51.225 250	60.88 359	3.952 336	55.12 139	52.160 210	38.68 111
	31.1	39.661 194	32.40 80	51.475 172	64.47 369	4.288 260	56.51 179	52.370 164	37.57 83
2	10.1	39.855 134	33.20 112	51.647 94	68.16 369	4.548 178	58.30 210	52.534 115	36.74 55
	20.0	39.989 74	34.32 136	51.741 17	71.85 360	4.726 94	60.40 232	52.649 67	36.19 28
3	1.0	40.063 17	35.68 155	51.758 55	75.45 360	4.820 12	62.72 244	52.716 21	35.91 5
	10.9	40.080 35	37.23 164	51.703 121	78.88 343	4.832 −63	65.16 245	52.737 20	35.86 17
	20.9	40.045 79	38.87 166	51.582 179	82.06 318	4.769 129	67.61 235	52.717 55	36.03 35
	30.9	39.966 116	40.53 160	51.403 227	84.93 287	4.640 185	69.96 217	52.662 83	36.38 48
4	9.9	39.850 143	42.13 148	51.176 266	87.45 210	4.455 228	72.13 190	52.579 103	36.86 57
	19.9	39.707 161	43.61 130	50.910 296	89.55 167	4.227 257	74.03 157	52.476 116	37.43 64
	29.8	39.546 169	44.91 108	50.614 317	91.22 119	3.970 273	75.60 119	52.360 123	38.07 67
5	9.8	39.377 169	45.99 82	50.297 328	92.41 69	3.697 278	76.79 77	52.237 124	38.74 68
	19.8	39.208 164	46.81 54	49.969 331	93.10 20	3.419 271	77.56 33	52.113 119	39.42 67
	29.8	39.044 151	47.35 25	49.638 327	93.30 −32	3.148 255	77.89 −10	51.994 111	40.09 63
6	8.7	38.893 133	47.60 −3	49.311 313	92.98 80	2.893 231	77.79 54	51.883 98	40.72 58
	18.7	38.760 113	47.57 33	48.998 292	92.18 128	2.662 200	77.25 95	51.785 84	41.30 53
	28.7	38.647 89	47.24 61	48.706 264	90.90 172	2.462 164	76.30 133	51.701 68	41.83 45
7	8.6	38.558 62	46.63 87	48.442 228	89.18 210	2.298 123	74.97 169	51.633 48	42.28 36
	18.6	38.496 33	45.76 112	48.214 184	87.08 243	2.175 80	73.28 201	51.585 27	42.64 26
	28.6	38.463 −4	44.64 136	48.030 134	84.65 268	2.095 −33	71.27 228	51.558 −5	42.90 13
8	7.6	38.459 29	43.28 157	47.896 76	81.97 284	2.062 16	68.99 251	51.553 20	43.03 1
	17.5	38.488 62	41.71 176	47.820 −14	79.13 291	2.078 67	66.48 270	51.573 47	43.02 18
	27.5	38.550 99	39.95 193	47.806 53	76.22 288	2.145 120	63.78 284	51.620 75	42.84 37
9	6.5	38.649 136	38.02 207	47.859 124	73.34 274	2.265 174	60.94 292	51.695 108	42.47 57
	16.5	38.785 174	35.95 220	47.983 196	70.60 248	2.439 229	58.02 296	51.803 140	41.90 79
	26.4	38.959 214	33.75 227	48.179 266	68.12 214	2.668 285	55.06 293	51.943 174	41.11 102
10	6.4	39.173 254	31.48 232	48.445 332	65.98 168	2.953 338	52.13 284	52.117 209	40.09 125
	16.4	39.427 292	29.16 230	48.777 392	64.30 117	3.291 390	49.29 268	52.326 243	38.84 146
	26.3	39.719 327	26.86 225	49.169 441	63.13 57	3.681 438	46.61 247	52.569 273	37.38 165
11	5.3	40.046 356	24.61 213	49.610 478	62.56 −5	4.119 477	44.14 218	52.842 300	35.73 180
	15.3	40.402 379	22.48 194	50.088 501	62.61 69	4.596 507	41.96 181	53.142 319	33.93 192
	25.3	40.781 393	20.54 169	50.589 505	63.30 131	5.103 524	40.15 141	53.461 331	32.01 195
12	5.2	41.174 395	18.85 139	51.094 494	64.61 190	5.627 529	38.74 93	53.792 333	30.06 195
	15.2	41.569 385	17.46 104	51.588 466	66.51 242	6.156 516	37.81 43	54.125 324	28.11 186
	25.2	41.954 363	16.42 65	52.054 421	68.93 287	6.672 487	37.38 9	54.449 305	26.25 172
	35.2	42.317	15.77	52.475	71.80	7.159	37.47	54.754	24.53
平位		s 39.063	″ 41.39	s 49.091	″ 70.77	s 3.387	″ 66.47	s 51.810	″ 43.34
sec δ, tan δ		+ 1.252	+ 0.753	+ 1.911	− 1.629	+ 1.801	+ 1.498	+ 1.014	+ 0.169
2 回正中		2 月 27 日		2 月 27 日		2 月 28 日		2 月 28 日	
a	b	+ 0.1736	− 0.0459	+ 0.1099	+ 0.0996	+ 0.1927	− 0.0917	+ 0.1576	− 0.0104
a′	b′	− 0.9147	− 0.4041	− 0.9168	− 0.3995	− 0.9189	− 0.3945	− 0.9237	− 0.3832
FK3番號		390		393		394		396	

本初子午線正中時

星名		203 G. Cari			9 H. Drac			44 Hyda			37 UMaj		
等級		3.58		B5p	5.04		G5	5.32		K2	5.16		F0
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m s 10 30		° ′ ″ −61 23	h m s 10 30		° ′ ″ +75 59	h m s 10 31		° ′ ″ −23 27	h m s 10 31		° ′ ″ +57 21
		s		″	s		″	s		″	s		″
1	1.2	3.29	41	31.18	23.44	94	53.75	21.067	283	13.37	33.810	472	65.48
	11.1	3.70	16	34.23	24.38	82	54.87	21.350	246	16.03	34.282	419	65.91
	21.1	4.05	35	37.61	25.20	69	56.53	21.596	201	18.75	34.701	351	66.84
	31.1	4.33	28	41.21	25.89	52	58.67	21.797	154	21.44	35.052	274	68.25
2	10.1	4.51	18	44.93	26.41	35	61.21	21.951	103	24.04	35.326	190	70.06
			11	373			283			244			214
	20.0	4.62	2	48.66	26.76	16	64.04	22.054	54	26.48	35.516	104	72.20
3	1.0	4.64	6	52.33	26.92	2	67.03	22.108	9	28.72	35.620	21	74.56
	10.9	4.58	13	55.85	26.90	19	70.07	22.117	34	30.72	35.641	58	77.05
	20.9	4.45	19	59.14	26.71	34	73.03	22.083	68	32.44	35.583	127	79.55
	30.9	4.26	24	62.13	26.37	48	75.80	22.015	96	33.88	35.456	185	81.96
				263			247			114			223
4	9.9	4.02	29	64.76	25.89	59	78.27	21.919	118	35.02	35.271	230	84.19
	19.9	3.73	33	67.00	25.30	67	80.35	21.801	133	35.84	35.041	262	86.15
	29.8	3.40	35	68.79	24.63	72	81.98	21.668	141	36.37	34.779	280	87.77
5	9.8	3.05	36	70.11	23.91	74	83.10	21.527	143	36.58	34.499	287	89.00
	19.8	2.69	37	70.93	23.17	74	83.69	21.384	142	36.49	34.212	281	89.81
				30			4			38			38
	29.8	2.32		71.23	22.43		83.73	21.242	136	36.11	33.931	267	90.19
6	8.7	1.95	37	71.02	21.72	71	83.22	21.106	125	35.45	33.664	242	90.11
	18.7	1.60	35	70.31	21.07	65	82.19	20.981	113	34.52	33.422	213	89.59
	28.7	1.27	33	69.10	20.48	59	80.67	20.868	97	33.36	33.209	176	88.65
7	8.6	0.96	31	67.45	19.98	50	78.70	20.771	77	31.99	33.033	135	87.31
			26	206		40	238			153			171
	18.6	0.70	22	65.39	19.58		76.32	20.694		30.46	32.898		85.60
	28.6	0.48	16	62.98	19.28	30	73.61	20.638	56	28.81	32.808	90	83.58
8	7.6	0.32	10	60.30	19.11	17	70.60	20.607	31	27.09	32.765	43	81.26
	17.5	0.22		57.43	19.05	6	67.37	20.605	2	25.37	32.772	7	78.71
	27.5	0.19	3	54.48	19.12	7	63.99	20.632	27	23.72	32.832	60	75.96
			5	294		19	347		62	153		113	289
9	6.5	0.24		51.54	19.31		60.52	20.694		22.19	32.945		73.07
	16.5	0.36	12	48.72	19.64	33	57.04	20.792	98	20.88	33.116	171	70.09
	26.4	0.56	20	46.13	20.09	45	53.60	20.929	137	19.83	33.343	227	67.08
10	6.4	0.84	28	43.89	20.67	58	50.29	21.105	176	19.12	33.627	284	64.09
	16.4	1.19	35	42.08	21.36	69	47.18	21.319	214	18.80	33.967	340	61.19
			41	129		81	284		251	11		395	274
	26.3	1.60		40.79	22.17		44.34	21.570		18.91	34.362		58.45
11	5.3	2.07	47	40.09	23.07	90	41.86	21.854	284	19.46	34.805	443	55.93
	15.3	2.59	52	40.01	24.05	98	39.79	22.165	311	20.46	35.291	486	53.71
	25.3	3.12	53	40.58	25.10	105	38.22	22.495	330	21.88	35.808	517	51.84
12	5.2	3.67	55	41.78	26.18	108	37.18	22.834	339	23.70	36.346	538	50.41
			53	180		108	46		339	182		542	97
	15.2	4.20		43.58	27.26		36.72	23.173		25.85	36.888		49.44
	25.2	4.70	50	45.93	28.32	106	36.86	23.500	327	28.26	37.419	531	48.99
	35.2	5.16	46	48.75	29.32	100	37.60	23.805	305	30.86	37.921	502	49.07
平位		s 1.675		″ 48.38	s 23.412		″ 68.47	s 20.896		″ 21.67	s 34.136		″ 78.38
sec δ, tan δ		+ 2.089		− 1.834	+ 4.134		+ 4.011	+ 1.090		− 0.434	+ 1.855		+ 1.562
2 囘正中		2 月 29 日			2 月 29 日			2 月 29 日			2 月 29 日		
a	b	+ 0.1066		+ 0.1130	+ 0.2552		− 0.2472	+ 0.1424		+ 0.0268	+ 0.1925		− 0.0965
a′	b′	− 0.9239		− 0.3826	− 0.9245		− 0.3811	− 0.9261		− 0.3772	− 0.9265		− 0.3764
FK3番號		397			395			399			398		

本初子午線正中時

星名		γ Cham			† 222 G. Velr *m*			225 G. Velr			33 Sext		
等級		4.10		M0	4.06		F2, A3	4.37		G0	6.40		K0
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m s 10 34		° ′ ″ −78 18	h m s 10 34		° ′ ″ −47 55	h m s 10 37		° ′ ″ −55 18	h m s 10 38		° ′ ″ − 1 26
		s		″	s		″	s		″	s		″
1	1.2	54.42	85	41.83	57.337		48.46	5.446		23.61	33.076	282	46.05
	11.1	55.27	70	44.66	57.675	338	51.47	5.826	380	26.62	33.358	249	48.07
	21.1	55.97	53	47.90	57.964	289	54.72	6.149	323	29.93	33.607	210	49.97
	31.1	56.50	35	51.44	58.197	233	58.13	6.406	257	33.44	33.817	165	51.67
2	10.1	56.85	16	55.19	58.367	170	61.59	6.593	187	37.04	33.982	117	53.16
				386		108	343		115	362			124
	20.0	57.01		59.05	58.475		65.02	6.708		40.66	34.099		54.40
3	1.0	56.99	19	62.92	58.520	45	68.33	6.751	43	44.20	34.170	71	55.39
	10.9	56.80	36	66.71	58.506	14	71.45	6.727	24	47.57	34.197	27	56.12
	20.9	56.44	51	70.33	58.439	67	74.33	6.642	85	50.71	34.183	14	56.61
	30.9	55.93	64	73.70	58.326	113	76.90	6.502	140	53.57	34.135	48	56.88
				307		152	222		186	250		75	6
4	9.9	55.29		76.77	58.174		79.12	6.316		56.07	34.060		56.94
	19.9	54.54	75	79.46	57.991	183	80.96	6.092	224	58.18	33.964	96	56.83
	29.8	53.69	85	81.72	57.784	207	82.38	5.839	253	59.86	33.854	110	56.56
5	9.8	52.77	92	83.51	57.562	222	83.37	5.566	273	61.09	33.736	118	56.16
	19.8	51.80	97	84.79	57.331	231	83.91	5.279	287	61.84	33.616	120	55.65
			100	75		234	8		292	26		118	60
	29.8	50.80		85.54	57.097		83.99	4.987		62.10	33.498		55.05
6	8.7	49.79	101	85.73	56.867	230	83.62	4.698	289	61.88	33.387	111	54.37
	18.7	48.81	98	85.37	56.647	220	82.81	4.418	280	61.17	33.285	102	53.63
	28.7	47.86	95	84.48	56.441	206	81.58	4.154	264	60.00	33.196	89	52.86
7	8.7	46.99	87	83.07	56.256	185	79.96	3.913	241	58.40	33.122	74	52.06
			78	189		160	195		210	198		58	79
	18.6	46.21		81.18	56.096		78.01	3.703		56.42	33.064		51.27
	28.6	45.54	67	78.87	55.968	128	75.77	3.530	173	54.12	33.026	38	50.52
8	7.6	45.01	53	76.22	55.876	92	73.33	3.400	130	51.55	33.009	17	49.83
	17.5	44.64	37	73.30	55.825	51	70.75	3.321	79	48.82	33.016	7	49.24
	27.5	44.44	20	70.22	55.820	5	68.13	3.297	24	46.01	33.050	34	48.79
			1	315		46	257		37	279		62	45 28
9	6.5	44.43		67.07	55.866		65.56	3.334		43.22	33.112		48.51
	16.5	44.61	18	63.97	55.965	99	63.14	3.436	102	40.56	33.206	94	48.44
	26.4	44.99	38	61.05	56.120	155	60.98	3.603	167	38.13	33.334	128	48.62
10	6.4	45.55	56	58.41	56.330	210	59.16	3.837	234	36.03	33.497	163	49.06
	16.4	46.28	73	56.17	56.593	263	57.77	4.134	297	34.36	33.695	198	49.80
			87	310		314	89		354	116		233	103
	26.4	47.15		54.41	56.907		56.88	4.488		33.20	33.928		50.83
11	5.3	48.15	100	53.23	57.262	355	56.55	4.892	404	32.61	34.193	265	52.15
	15.3	49.24	109	52.66	57.651	389	56.80	5.334	442	32.62	34.484	291	53.73
	25.3	50.38	114	52.76	58.063	412	57.64	5.800	466	33.26	34.797	313	55.52
12	5.2	51.52	114	53.52	58.484	421	59.06	6.276	476	34.51	35.121	324	57.49
			111	141		416	195		470	182		327	208
	15.2	52.63		54.93	58.900		61.01	6.746		36.33	35.448		59.57
	25.2	53.67	104	56.94	59.297	397	63.44	7.194	448	38.68	35.768	320	61.69
	35.2	54.60	93	59.49	59.663	366	66.25	7.605	411	41.47	36.069	301	63.77
平位		s 49.374		″ 61.55	s 56.565		″ 63.37	s 4.342		″ 40.21	s 33.215		″ 47.97
sec δ, tan δ		+ 4.938		− 4.836	+ 1.493		− 1.108	+ 1.757		− 1.445	+ 1.000		− 0.025
2 囘正中		3 月 1 日			3 月 1 日			3 月 1 日			3 月 2 日		
a	b	+ 0.0362		+ 0.3004	+ 0.1265		+ 0.0688	+ 0.1192		+ 0.0901	+ 0.1527		+ 0.0016
a′	b′	− 0.9317		− 0.3632	− 0.9319		− 0.3627	− 0.9353		− 0.3540	− 0.9375		− 0.3480
FK3番號		401			400			402			404		

恒　星　視　位

本初子午線正中時

昭和19年

星名	35 H. UMaj		41 LMin		ϑ Cari		42 LMin	
等級	5.23		5.05		3.03		5.37	
スペクトル型	K0		A2		B0		B9	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 10 39	° ′ +69 21	h m 10 40	° ′ +23 29	h m 10 40	° ′ −64 5	h m 10 42	° ′ +30 58
	s	″	s	″	s	″	s	″
1 1.2	4.94 68	56.97 78	22.122 311	50.13 107	58.95 47	43.54 294	44.944 331	32.61 78
11.1	5.62 61	57.75 134	22.433 278	49.06 74	59.42 39	46.48 330	45.275 297	31.83 40
21.1	6.23 51	59.09 183	22.711 236	48.32 40	59.81 32	49.78 356	45.572 252	31.43 −0
31.1	6.74 41	60.92 225	22.947 187	47.92 −4	60.13 22	53.34 371	45.824 201	31.43 −0 38
2 10.1	7.15 28	63.17 258	23.134 136	47.88 27	60.35 13	57.05 377	46.025 147	31.81 71
20.0	7.43	65.75 279	23.270 85	48.15 56	60.48	60.82 373	46.172 92	32.52
3 1.0	7.58 15	68.54 288	23.355 −34	48.71 79	60.53 −5	64.55 361	46.264 −39	33.51 99 122
10.9	7.61 −3	71.42 288	23.389 11	49.50 97	60.48 5	68.16 341	46.303 11	34.73 137
20.9	7.51 10	74.28 286	23.378 50	50.47 108	60.36 12	71.57 314	46.292 53	36.10 146
30.9	7.31 20 29	77.01 273 248	23.328 82	51.55 113	60.17 19 25	74.71 280	46.239 89	37.56 146 146
4 9.9	7.02	79.49 214	23.246	52.68 114	59.92	77.51 242	46.150	39.02
19.9	6.64 38	81.63 174	23.139 107	53.82 108	59.62 30	79.93 198	46.035 115	40.42 140
29.8	6.22 42	83.37 128	23.016 123	54.90 99	59.27 35	81.91 152	45.900 135	41.71 129
5 9.8	5.75 47	84.65 79	22.884 132	55.89 86	58.90 37	83.43 102	45.755 145	42.84 113
19.8	5.28 47 48	85.44 26	22.749 135 132	56.75 71	58.50 40 41	84.45 51	45.606 149 146	43.77 93 71
29.8	4.80	85.70 −25	22.617	57.46	58.09	84.96 −1	45.460	44.48
6 8.7	4.34 46	85.45 76	22.492 125	58.00 54	57.68 41	84.95 54	45.322 138	44.94 46
18.7	3.91 43	84.69 124	22.380 112	58.36 36	57.28 40	84.41 103	45.196 126	45.16 −22
28.7	3.52 39	83.45 168	22.282 98	58.53 −17	56.90 38	83.38 151	45.087 109	45.12 −4
7 8.7	3.19 33 27	81.77 210	22.202 80 60	58.51 −2 23	56.55 35 31	81.87 195	44.996 91 69	44.83 29 54
18.6	2.92	79.67	22.142	58.28	56.24	79.92	44.927	44.29
28.6	2.73 19	77.22 245	22.104 38	57.86 42	55.98 26	77.61 231	44.881 46	43.51 78
8 7.6	2.60 13	74.47 275	22.090 −14	57.25 61	55.77 21	74.99 262	44.862 −19	42.50 101
17.5	2.56 −4	71.47 300	22.102 12	56.43 82	55.63 14	72.16 283	44.871 9	41.27 123
27.5	2.60 4 13	68.28 319 332	22.142 40 70	55.42 101 120	55.57 −6 2	69.19 297 298	44.909 38 72	39.83 144 164
9 6.5	2.73	64.96	22.212	54.22 140	55.59	66.21 289	44.981	38.19
16.5	2.94 21	61.59 337	22.316 104	52.82 158	55.69 10	63.32 270	45.088 107	36.38 181
26.4	3.24 30	58.22 337	22.455 139	51.24 174	55.88 19	60.62 238	45.232 144	34.40 198
10 6.4	3.63 39	54.92 330	22.631 176	49.50 189	56.16 28	58.24 197	45.415 183	32.30 210
16.4	4.10 47 55	51.78 314 292	22.843 212 248	47.61 200	56.52 36 44	56.27 147	45.637 222 260	30.10 220 226
26.4	4.65	48.86	23.091	45.61	56.96	54.80	45.897	27.84
11 5.3	5.28 63	46.23 263	23.374 283	43.54 207	57.46 50	53.90 90	46.193 296	25.57 227
15.3	5.97 69	43.98 225	23.686 312	41.44 210	58.01 55	53.62 28	46.520 327	23.35 222
25.3	6.70 73	42.17 181	24.021 335	39.39 205	58.58 57	53.98 −36	46.873 353	21.25 210
12 5.2	7.47 77 77	40.86 131 75	24.371 350 355	37.43 196 179	59.17 59 58	54.99 101 163	47.241 368 374	19.33 192 168
15.2	8.24	40.11 −19	24.726	35.64 156	59.75	56.62 219	47.615 369	17.65 138
25.2	9.01 77	39.92 −41	25.075 349	34.08 156	60.30 55	58.81 270	47.984 351	16.27 103
35.2	9.73 72	40.33	25.406 331	32.79 129	60.80 50	61.51	48.335	15.24
平位	s 5.232	″ 71.31	s 22.446	″ 55.63	s 57.230	″ 61.98	s 45.317	″ 40.08
sec δ, tan δ	+ 2.838	+ 2.656	+ 1.090	+ 0.435	+ 2.289	− 2.059	+ 1.166	+ 0.600
2 回正中	3 月 2 日		3 月 2 日		3 月 2 日		3 月 3 日	
a b	+ 0.2146	− 0.1662	+ 0.1632	− 0.0272	+ 0.1069	+ 0.1292	+ 0.1666	− 0.0378
a′ b′	− 0.9383	− 0.3458	− 0.9403	− 0.3405	− 0.9411	− 0.3381	− 0.9437	− 0.3307
FK3番號	403		405		406		407	

恒　星　視　位

本初子午線正中時

星名	† μ Velr		δ² Cham		53 Leon		ν Hyda	
等級	2.84		4.62		5.27		3.32	
スペクトル型	G5		B3		A0		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 10 44	° ′ −49 7	h m 10 45	° ′ −80 14	h m 10 46	° ′ +10 50	h m 10 46	° ′ −15 53
	s	″	s	″	s	″	s	″
1 1.2	22.065	9.68	22.69	20.42	18.596	29.63	51.554	53.73
11.2	22.419 354	12.62 294	23.73 104	23.11 269	18.892 296	28.03 160	51.842 288	56.17 244
21.1	22.725 306	15.84 322	24.60 87	26.24 313	19.156 264	26.66 137	52.097 255	58.61 244
31.1	22.974 249	19.23 339	25.27 67	29.70 346	19.381 225	25.56 110	52.312 215	60.98 237
2 10.1	23.162 188 123	22.69 346	25.73 46 25	33.40 370 384	19.561 180 132	24.76 80 51	52.481 169 122	63.22 224 206
20.0	23.285	26.15	25.98	37.24	19.693	24.25	52.603	65.28
3 1.0	23.346 61	29.51 336	26.01 −3	41.12 388	19.777 84	24.01 −24	52.678 75	67.12 184
10.9	23.346 −0	32.70 319	25.84 17	44.94 382	19.815 −38	24.04 3	52.708 −39	68.72 160
20.9	23.292 54	35.66 296	25.47 37	48.64 370	19.811 4	24.28 24	52.697 11	70.06 134
30.9	23.190 102 144	38.33 267 233	24.91 56 71	52.11 347 319	19.772 39 70	24.69 41 56	52.652 45 75	71.13 107 81
4 9.9	23.046	40.66	24.20	55.30	19.702	25.25	52.577	71.94
19.9	22.870 176	42.62 196	23.34 86	58.13 283	19.610 92	25.90 65	52.481 96	72.49 55
29.8	22.667 203	44.17 155	22.35 99	60.55 242	19.503 107	26.61 71	52.369 112	72.78 29
5 9.8	22.446 221	45.29 112	21.28 107	62.52 197	19.386 117	27.34 73	52.247 122	72.83 −5
19.8	22.214 232 237	45.96 67 21	20.13 115 120	63.98 146 94	19.266 120 118	28.07 73 70	52.120 127 126	72.63 20 41
29.8	21.977	46.17 —	18.93	64.92	19.148	28.77	51.994	72.22
6 8.7	21.741 236	45.92 −25	17.72 121	65.31 −39	19.036 112	29.42 65	51.871 123	71.59 63
18.7	21.512 229	45.23 69	16.52 120	65.14 17	18.933 103	30.01 59	51.757 114	70.77 82
28.7	21.296 216	44.10 113	15.36 116	64.42 72	18.842 91	30.51 50	51.652 105	69.78 99
7 8.7	21.099 197 173	42.58 152 188	14.27 109 98	63.18 124 174	18.766 76 59	30.93 42 31	51.561 91 75	68.64 114 125
18.6	20.926	40.70	13.29	61.44	18.707	31.24	51.486	67.39
28.6	20.783 143	38.53 217	12.44 85	59.27 217	18.667 40	31.43 19	51.430 56	66.07 132
8 7.6	20.676 107	36.12 241	11.74 70	56.72 255	18.648 19	31.48 −5	51.395 35	64.73 134
17.5	20.610 66	33.56 256	11.24 50	53.87 285	18.653 −5	31.38 10	51.386 −9	63.40 133
27.5	20.591 −19 33	30.94 262 260	10.93 −31 8	50.83 304 314	18.684 31 59	31.11 27 47	51.404 −18 49	62.16 124 110
9 6.5	20.624	28.34	10.85 —	47.69	18.743	30.64	51.453	61.06
16.5	20.711 87	25.88 246	11.00 −15	44.57 312	18.834 91	29.97 67	51.536 83	60.15 91
26.4	20.855 144	23.64 224	11.38 −38	41.59 298	18.959 125	29.08 89	51.656 120	59.49 66
10 6.4	21.058 203	21.74 190	11.99 61	38.86 273	19.119 160	27.96 112	51.813 157	59.15 34
16.4	21.316 258 311	20.24 150 100	12.81 82 100	36.50 236 190	19.315 196 231	26.62 134 155	52.009 196 233	59.15 −0 37
26.4	21.627	19.24	13.81	34.60	19.546	25.07	52.242	59.52
11 5.3	21.983 356	18.78 −46	14.96 115	33.24 136	19.810 264	23.34 173	52.508 266	60.29 77
15.3	22.376 393	18.91 13	16.23 127	32.50 74	20.104 294	21.46 188	52.804 296	61.44 115
25.3	22.794 418	19.63 72	17.56 133	32.41 −9	20.419 315	19.48 198	53.121 317	62.95 151
12 5.2	23.223 429 428	20.93 130 184	18.92 136 132	32.99 −58 123	20.750 331 335	17.47 201 199	53.452 331 333	64.79 184 209
15.2	23.651	22.77	20.24	34.22	21.085	15.48	53.785	66.88
25.2	24.062 411	25.10 233	21.49 125	36.06 184	21.416 331	13.59 189	54.111 326	69.18 230
35.2	24.443 381	27.85 275	22.61 112	38.46 240	21.730 314	11.84 175	54.418 307	71.59 241
平位	s 21.328	″ 25.47	s 16.851	″ 41.08	s 18.875	″ 31.30	s 51.582	″ 60.50
sec δ, tan δ	+ 1.528	− 1.155	+ 5.902	− 5.816	+ 1.018	+ 0.192	+ 1.040	− 0.285
2 回正中	3 月 3 日		3 月 3 日		3 月 4 日		3 月 4 日	
a b	+ 0.1283	+ 0.0729	+ 0.0291	+ 0.3673	+ 0.1574	− 0.0121	+ 0.1474	+ 0.0180
a′ b′	− 0.9460	− 0.3241	− 0.9473	− 0.3203	− 0.9488	− 0.3160	− 0.9495	− 0.3137
FK3番號	408		411		409		410	

恒 星 視 位

本初子午線正中時　　昭和19年

星名		46 LMin		ε Antl		Br 1508 Drac		239 G. Velr	
等級		3.92		4.70		6.26		4.56	
スペクトル型		K0		K0		G5		A2	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 10 50	° ′ +34 30	h m 10 54	° ′ −36 49	h m 10 55	° ′ +78 3	h m 10 57	° ′ −41 55
		s	″	s	″	s	″	s	″
1	1.2	10.673 346	53.72 71	6.486 322	57.34 280	31.61 113	59.59 84	35.127 338	15.76 281
	11.2	11.019 312	53.01 28	6.808 282	60.14 298	32.74 101	60.43 143	35.465 298	18.57 305
	21.1	11.331 268	52.73 13	7.090 237	63.12 309	33.75 88	61.86 197	35.763 249	21.62 319
	31.1	11.599 216	52.86 52	7.327 185	66.21 310	34.63 70	63.83 240	36.012 195	24.81 324
2	10.1	11.815 160	53.38 88	7.512 132	69.31 304	35.33 50	66.23 275	36.207 139	28.05 322
	20.0	11.975 104	54.26 118	7.644 78	72.35 290	35.83 30	68.98 299	36.346 82	31.27 311
3	1.0	12.079 48	55.44 140	7.722 27	75.25 271	36.13 8	71.97 309	36.428 28	34.38 293
	10.9	12.127 4	56.84 156	7.749 19	77.96 247	36.21 12	75.06 306	36.456 21	37.31 271
	20.9	12.123 48	58.40 163	7.730 61	80.43 219	36.09 31	78.12 293	36.435 65	40.02 243
	30.9	12.075 87	60.03 162	7.669 94	82.62 187	35.78 48	81.05 267	36.370 102	42.45 212
4	9.9	11.988 116	61.65 155	7.575 122	84.49 154	35.30 63	83.72 232	36.268 132	44.57 176
	19.9	11.872 137	63.20 141	7.453 144	86.03 117	34.67 73	86.04 189	36.136 157	46.33 139
	29.9	11.735 150	64.61 123	7.309 158	87.20 80	33.94 82	87.93 141	35.979 174	47.72 100
5	9.8	11.585 156	65.84 99	7.151 168	88.00 42	33.12 86	89.34 87	35.805 185	48.72 60
	19.8	11.429 155	66.83 74	6.983 172	88.42 4	32.26 88	90.21 32	35.620 191	49.32 18
	29.8	11.274 147	67.57 47	6.811 170	88.46 34	31.38 87	90.53 24	35.429 192	49.50 23
6	8.7	11.127 136	68.04 18	6.641 166	88.12 71	30.51 83	90.29 78	35.237 187	49.27 64
	18.7	10.991 121	68.22 11	6.475 156	87.41 106	29.68 76	89.51 131	35.050 179	48.63 101
	28.7	10.870 102	68.11 38	6.319 143	86.35 137	28.92 68	88.20 178	34.871 164	47.62 138
7	8.7	10.768 80	67.73 67	6.176 124	84.98 165	28.24 58	86.42 223	34.707 146	46.24 169
	18.6	10.688 56	67.06 93	6.052 103	83.33 188	27.66 47	84.19 262	34.561 123	44.55 196
	28.6	10.632 30	66.13 119	5.949 76	81.45 205	27.19 33	81.57 295	34.438 94	42.59 216
8	7.6	10.602 1	64.94 142	5.873 45	79.40 215	26.86 21	78.62 321	34.344 60	40.43 230
	17.6	10.601 31	63.52 164	5.828 10	77.25 218	26.65 5	75.41 342	34.284 22	38.13 235
	27.5	10.632 64	61.88 185	5.818 30	75.07 211	26.60 9	71.99 355	34.262 21	35.78 231
	6.5	10.696 101	60.03 202	5.848 74	72.96 197	26.69 24	68.44 361	34.283 69	33.47 219
9	16.5	10.797 140	58.01 218	5.922 119	70.99 174	26.93 39	64.83 360	34.352 119	31.28 198
	26.4	10.937 180	55.83 230	6.041 167	69.25 141	27.32 54	61.23 351	34.471 170	29.30 166
10	6.4	11.117 221	53.53 239	6.208 214	67.84 103	27.86 69	57.72 335	34.641 222	27.64 128
	16.4	11.338 261	51.14 241	6.422 259	66.81 58	28.55 83	54.37 310	34.863 270	26.36 82
	26.4	11.599 300	48.73 240	6.681 299	66.23 8	29.38 96	51.27 278	35.133 313	25.54 30
11	5.3	11.899 333	46.33 232	6.980 333	66.15 44	30.34 106	48.49 238	35.446 350	25.24 23
	15.3	12.232 360	44.01 218	7.313 358	66.59 96	31.40 116	46.11 190	35.796 377	25.47 79
	25.3	12.592 378	41.83 196	7.671 374	67.55 146	32.56 121	44.21 137	36.173 391	26.26 132
12	5.3	12.970 387	39.87 169	8.044 373	69.01 193	33.77 124	42.84 78	36.564 395	27.58 183
	15.2	13.357 382	38.18 136	8.418 365	70.94 232	35.01 124	42.06 18	36.959 384	29.41 227
	25.2	13.739 366	36.82 97	8.783 342	73.26 265	36.25 118	41.88 45	37.343 360	31.68 263
	35.2	14.105	35.85	9.125	75.91	37.43	42.33	37.703	34.31
平位		s 11.102	″ 62.01	s 6.203	″ 70.66	s 31.993	″ 74.59	s 34.742	″ 30.61
sec δ, tan δ		+ 1.214	+ 0.688	+ 1.249	− 0.749	+ 4.838	+ 4.733	+ 1.344	− 0.898
2 回正中		3月5日		3月6日		3月6日		3月7日	
a	b	+ 0.1671	− 0.0437	+ 0.1392	+ 0.0479	+ 0.2409	− 0.3032	+ 0.1372	+ 0.0577
a′	b′	− 0.9540	− 0.2999	− 0.9590	− 0.2836	− 0.9607	− 0.2776	− 0.9631	− 0.2690
FK3番號		412		414		413		415	

恒 星 視 位

本初子午線正中時

星名		β UMaj		α UMaj		χ Leon		χ¹ Hyda	
等級		2.44		1.95		4.66		5.06	
スペクトル型		A0		K0		F0		F5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 10 58	° ′ +56 40	h m 11 0	° ′ +62 2	h m 11 2	° ′ + 7 38	h m 11 2	° ′ −26 59
		s	″	s	″	s	″	s	″
1	1.2	27.968 485	46.03 9	16.75 55	59.84 26	7.388 299	20.67 177	37.833 308	16.33 262
	11.2	28.453 440	46.12 62	17.30 50	60.10 81	7.687 271	18.90 156	38.141 274	18.95 274
	21.1	28.893 381	46.74 114	17.80 44	60.91 134	7.958 234	17.34 131	38.415 234	21.69 276
	31.1	29.274 311	47.88 160	18.24 36	62.25 181	8.192 191	16.03 103	38.649 187	24.45 273
2	10.1	29.585 231	49.48 198	18.60 26	64.06 220	8.383 145	15.00 74	38.836 139	27.18 261
	20.1	29.816 150	51.46 227	18.86 17	66.26 248	8.528 98	14.26 46	38.975 89	29.79 245
3	1.0	29.966 67	53.73 246	19.03 7	68.74 265	8.626 53	13.80 20	39.064 43	32.24 223
	10.9	30.033 11	56.19 253	19.10 1	71.39 271	8.679 11	13.60 5	39.107 1	34.47 200
	20.9	30.022 81	58.72 252	19.09 10	74.10 267	8.690 25	13.65 24	39.106 38	36.47 171
	30.9	29.941 143	61.24 238	18.99 18	76.77 251	8.665 56	13.89 41	39.068 70	38.18 143
4	9.9	29.798 193	63.62 217	18.81 23	79.28 225	8.609 79	14.30 53	38.998 96	39.61 113
	19.9	29.605 231	65.79 186	18.58 29	81.53 193	8.530 97	14.83 62	38.902 115	40.74 82
	29.9	29.374 257	67.65 151	18.29 31	83.46 154	8.433 107	15.45 67	38.787 129	41.56 51
5	9.8	29.117 271	69.16 111	17.98 33	85.00 109	8.326 114	16.12 69	38.658 137	42.07 19
	19.8	28.846 274	70.27 67	17.65 34	86.09 63	8.212 115	16.81 70	38.521 141	42.26 12
	29.8	28.572 267	70.94 22	17.31 33	86.72 14	8.097 111	17.51 68	38.380 141	42.14 42
6	8.8	28.305 252	71.16 23	16.98 31	86.86 34	7.986 105	18.19 65	38.239 137	41.72 71
	18.7	28.053 230	70.93 67	16.67 29	86.52 81	7.881 96	18.84 58	38.102 129	41.01 98
	28.7	27.823 202	70.26 109	16.38 25	85.71 125	7.785 84	19.42 52	37.973 118	40.03 121
7	8.7	27.621 166	69.17 150	16.13 22	84.46 168	7.701 69	19.94 43	37.855 103	38.82 143
	18.6	27.455 138	67.67 185	15.91 17	82.78 205	7.632 53	20.37 33	37.752 85	37.39 158
	28.6	27.325 86	65.82 218	15.74 11	80.73 239	7.579 33	20.70 21	37.667 64	35.81 170
8	7.6	27.239 41	63.64 247	15.63 6	78.34 268	7.546 11	20.91 6	37.603 37	34.11 176
	17.6	27.198 9	61.17 270	15.57 1	75.66 292	7.535 13	20.97 10	37.566 7	32.35 173
	27.5	27.207 60	58.47 289	15.56 6	72.74 310	7.548 42	20.87 30	37.559 27	30.62 165
	6.5	27.267 116	55.58 304	15.62 12	69.64 322	7.590 73	20.57 50	37.586 64	28.97 150
9	16.5	27.383 173	52.54 311	15.74 19	66.42 329	7.663 107	20.07 73	37.650 105	27.47 125
	26.5	27.556 232	49.43 314	15.93 26	63.13 329	7.770 143	19.34 96	37.755 148	26.22 96
10	6.4	27.788 290	46.29 309	16.19 33	59.84 322	7.913 180	18.38 121	37.903 191	25.26 60
	16.4	28.078 348	43.20 299	16.52 39	56.62 307	8.093 217	17.17 144	38.094 232	24.66 18
	26.4	28.426 402	40.21 279	16.91 45	53.55 285	8.310 252	15.73 166	38.326 271	24.48 26
11	5.3	28.828 451	37.42 254	17.36 51	50.70 255	8.562 283	14.07 184	38.597 304	24.74 72
	15.3	29.279 489	34.88 220	17.87 56	48.15 219	8.845 307	12.23 197	38.901 329	25.46 117
	25.3	29.768 517	32.68 180	18.43 59	45.96 173	9.152 325	10.26 205	39.230 345	26.63 159
12	5.3	30.285 531	30.88 132	19.02 60	44.23 124	9.477 332	8.21 206	39.575 350	28.22 197
	15.2	30.816 529	29.56 82	19.62 60	42.99 70	9.809 330	6.15 201	39.925 345	30.19 228
	25.2	31.345 510	28.74 28	20.22 58	42.29 12	10.139 317	4.14 189	40.270 326	32.47 253
	35.2	31.855	28.46	20.80	42.17	10.456	2.25	40.596	35.00
平位		s 28.517	″ 58.86	s 17.319	″ 73.45	s 7.726	″ 20.92	s 37.799	″ 27.25
sec δ, tan δ		+ 1.821	+ 1.521	+ 2.134	+ 1.885	+ 1.009	+ 0.134	+ 1.122	− 0.509
2 回正中		3月7日		3月7日		3月8日		3月8日	
a	b	+ 0.1802	− 0.0978	+ 0.1857	− 0.1214	+ 0.1556	− 0.0087	+ 0.1449	+ 0.0329
a′	b′	− 0.9642	− 0.2652	− 0.9663	− 0.2576	− 0.9683	− 0.2498	− 0.9688	− 0.2477
FK3番號		416		417		418		419	

本初子午線正中時

星名	φ UMaj		β Crat		δ Leon		ϑ Leon	
等級	3.15		4.52		2.58		3.41	
スペクトル型	K0		A2		A3		A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 11 6	° ′ +44 47	h m 11 8	° ′ −22 31	h m 11 11	° ′ +20 49	h m 11 11	° ′ +15 43
	s	″	s	″	s	″	s	″
1 1.2	30.781 398	59.33 45	53.956 306	1.31 253	7.469 322	46.82 136	17.730 314	66.88 154
11.2	31.179 364	58.88 4	54.262 276	3.84 261	7.791 294	45.46 105	18.044 285	65.34 126
21.1	31.543 317	58.92 53	54.538 236	6.45 260	8.085 257	44.41 69	18.329 250	64.08 94
31.1	31.860 262	59.45 97	54.774 192	9.05 254	8.342 212	43.72 33	18.579 206	63.14 62
2 10.1	32.122 201	60.42 137	54.966 145	11.59 240	8.554 166	43.39 1	18.785 160	62.52 28
20.1	32.323 136	61.79 169	55.111 98	13.99 223	8.720 115	43.40 33	18.945 112	62.24 2
3 1.0	32.459 72	63.48 193	55.209 52	16.22 200	8.835 67	43.73 61	19.057 66	62.26 30
11.0	32.531 11	65.41 207	55.261 9	18.22 176	8.902 22	44.34 82	19.123 21	62.56 52
20.9	32.542 43	67.48 213	55.270 27	19.98 150	8.924 18	45.16 99	19.144 17	63.08 71
30.9	32.499 90	69.61 208	55.243 58	21.48 122	8.906 52	46.15 108	19.127 49	63.79 83
4 9.9	32.409 129	71.69 195	55.185 84	22.70 94	8.854 78	47.23 113	19.078 75	64.62 91
19.9	32.280 157	73.64 175	55.101 103	23.64 66	8.776 100	48.36 112	19.003 95	65.53 94
29.9	32.123 177	75.39 150	54.998 117	24.30 38	8.676 113	49.48 107	18.908 108	66.47 93
5 9.8	31.946 188	76.89 118	54.881 126	24.68 9	8.563 121	50.55 97	18.800 115	67.40 88
19.8	31.758 192	78.07 84	54.755 130	24.77 18	8.442 123	51.52 84	18.685 118	68.28 80
29.8	31.566 187	78.91 48	54.625 130	24.59 44	8.319 121	52.36 69	18.567 115	69.08 70
6 8.8	31.379 178	79.39 11	54.495 127	24.15 68	8.198 115	53.05 52	18.452 110	69.78 58
18.7	31.201 162	79.50 27	54.368 121	23.47 92	8.083 105	53.57 34	18.342 102	70.36 45
28.7	31.039 143	79.23 63	54.247 110	22.55 112	7.978 94	53.91 16	18.240 90	70.81 30
7 8.7	30.896 120	78.60 99	54.137 98	21.43 129	7.884 78	54.07 5	18.150 76	71.11 15
18.6	30.776 94	77.61 132	54.039 80	20.14 143	7.806 62	54.02 24	18.074 59	71.26 2
28.6	30.682 63	76.29 162	53.959 61	18.71 151	7.744 41	53.78 45	18.015 40	71.24 20
8 7.6	30.619 30	74.67 191	53.898 37	17.20 153	7.703 18	53.33 67	17.975 19	71.04 38
17.6	30.589 5	72.76 216	53.861 8	15.67 151	7.685 7	52.66 87	17.956 7	70.66 58
27.5	30.594 44	70.60 237	53.853 23	14.16 142	7.692 36	51.79 108	17.963 35	70.08 79
9 6.5	30.638 87	68.23 256	53.876 59	12.74 124	7.728 69	50.71 130	17.998 66	69.29 99
16.5	30.725 132	65.67 269	53.935 98	11.50 102	7.797 104	49.41 151	18.064 101	68.30 122
26.5	30.857 178	62.98 278	54.033 140	10.48 73	7.901 142	47.90 170	18.165 138	67.08 143
10 6.4	31.035 226	60.20 283	54.173 181	9.75 38	8.043 180	46.20 188	18.303 176	65.65 163
16.4	31.261 274	57.37 280	54.354 222	9.37 0	8.223 220	44.32 203	18.479 215	64.02 182
26.4	31.535 319	54.57 272	54.576 260	9.37 42	8.443 256	42.29 214	18.694 251	62.20 196
11 5.3	31.854 360	51.85 256	54.836 294	9.79 85	8.699 291	40.15 220	18.945 284	60.24 208
15.3	32.214 393	49.29 233	55.130 319	10.64 126	8.990 318	37.95 221	19.229 311	58.16 213
25.3	32.607 419	46.96 203	55.449 337	11.90 165	9.308 339	35.74 215	19.540 331	56.03 213
12 5.3	33.026 431	44.93 167	55.786 344	13.55 198	9.647 349	33.59 202	19.871 341	53.90 206
15.2	33.457 431	43.26 124	56.130 339	15.53 226	9.996 350	31.57 182	20.212 341	51.84 191
25.2	33.888 418	42.02 77	56.469 324	17.79 245	10.346 337	29.75 157	20.553 329	49.93 171
35.2	34.306	41.25	56.793	20.24	10.683	28.18	20.882	48.22
平位	s 31.353	″ 69.88	s 54.029	″ 11.13	s 7.945	″ 51.00	s 18.174	″ 69.47
sec δ, tan δ	+ 1.409	+ 0.993	+ 1.083	− 0.415	+ 1.070	+ 0.380	+ 1.039	+ 0.282
2 回正中	3 月 9 日		3 月 9 日		3 月 10 日		3 月 10 日	
a b	+ 0.1686	− 0.0644	+ 0.1472	+ 0.0270	+ 0.1587	− 0.0248	+ 0.1573	− 0.0184
a′ b′	− 0.9729	− 0.2312	− 0.9752	− 0.2211	− 0.9774	− 0.2116	− 0.9775	− 0.2109
FK3番號	420		421		422		423	

1944

本初子午線正中時

星名	Grb 1757 UMaj		ν UMaj		δ Crat		σ Leon	
等級	5.97		3.71		3.82		4.13	
スペクトル型	K0		K0		K0		A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 11 13	° ′ +49 46	h m 11 15	° ′ +33 23	h m 11 16	° ′ −14 28	h m 11 18	° ′ + 6 19
	s	″	s	″	s	″	s	″
1 1.2	32.359	44.39	26.928	52.78	32.079 304	23.32	14.509	72.14 185
11.2	32.792 433	44.05 34	27.282 354	51.83 95	32.383 275	25.67 235	14.816 307	70.29 166
21.1	33.189 397	44.23 69	27.607 325	51.30 53	32.658 240	28.03 236	15.096 280	68.63 142
31.1	33.538 349	44.92 117	27.893 286	51.21 9	32.898 197	30.32 229	15.341 245	67.21 114
2 10.1	33.829 291	46.09 158	28.131 238	51.54 33	33.095 152	32.49 217	15.546 205	66.07 85
	34.120 224		28.369 186	51.87 72	33.247 95	34.66 200	15.751 159	
20.1	34.053 155	47.67 191	28.317 131	52.26 106	33.354 107	34.49 178	15.705 115	65.22 57
3 1.0	34.208 86	49.58 216	28.448 78	53.32 132	33.416 62	36.27 155	15.820 69	64.65 29
11.0	34.294 18	51.74 229	28.526 25	54.64 153	33.437 21	37.82 130	15.889 28	64.36 4
20.9	34.312 42	54.03 233	28.551 20	56.17 164	33.422 15	39.12 105	15.917 9	64.32 17
30.9	34.270 96	56.36 228	28.531 60	57.81 168	45	40.17 80	15.908 40	64.49 35
4 9.9	34.174 140	58.64 212	28.471 92	59.49 164	33.377 71	40.97	15.868 66	64.84 48
19.9	34.034 173	60.76 190	28.379 116	61.13 154	33.306 90	41.52 55	15.802 84	65.32 59
29.9	33.861 198	62.66 161	28.263 134	62.67 139	33.216 103	41.84 32	15.718 99	65.91 66
5 9.8	33.663 212	64.27 126	28.129 144	64.06 117	33.113 112	41.93 9	15.619 106	66.57 69
19.8	33.451 218	65.53 89	27.985 148	65.23 93	33.001 117	41.80 13	15.513 110	67.26 71
29.8	33.233 216	66.42 48	27.837 145	66.16 66	32.884 118	41.47 51	15.403 109	67.97 69
6 8.8	33.017 206	66.90 7	27.692 145	66.82 38	32.766 115	40.96 69	15.294 106	68.66 67
18.7	32.811 192	66.97 34	27.552 140	67.20 8	32.651 110	40.27 85	15.188 99	69.33 62
28.7	32.619 171	66.63 74	27.423 129	67.28 20	32.541 101	39.42 97	15.089 99	69.95 55
7 8.7	32.448 146	65.89 113	27.308 98	67.08 50	32.440 89	38.45 108	14.999 78	70.50 48
18.7	32.302 118	64.76 149	27.210 78	66.53 78	32.351 75	37.37 115	14.921 63	70.98 38
28.6	32.184 85	63.27 181	27.132 56	65.80 106	32.276 56	36.22 118	14.858 46	71.36 26
8 7.6	32.099 49	61.46 212	27.076 29	64.74 131	32.220 36	35.04 117	14.812 25	71.62 12
17.6	32.050 9	59.34 238	27.047 0	63.43 156	32.184 9	33.87 110	14.787 2	71.74 5
27.5	32.041 33	56.96 260	27.047 32	61.87 179	32.175 20	32.77 97	14.785 26	71.69 23
9 6.5	32.074 80	54.36 279	27.079 68	60.08 200	32.195 53	31.80 81	14.811 57	71.46 44
16.5	32.154 129	51.57 292	27.147 107	58.08 218	32.248 89	30.99 58	14.868 90	71.02 67
26.5	32.283 180	48.65 299	27.254 148	55.90 233	32.337 129	30.41 29	14.958 128	70.35 91
10 6.4	32.463 233	45.66 302	27.402 190	53.57 245	32.466 169	30.12 2	15.086 165	69.44 115
16.4	32.696 285	42.64 297	27.592 233	51.12 252	32.635 209	30.14 37	15.251 204	68.29 141
26.4	32.981 335	39.67 285	27.825 275	48.60 253	32.844 246	30.51 74	15.455 240	66.88 162
11 5.4	33.316 380	36.82 267	28.100 311	46.07 248	33.090 280	31.25 110	15.695 274	65.26 183
15.3	33.696 418	34.15 240	28.411 343	43.59 236	33.370 307	32.35 145	15.969 301	63.43 197
25.3	34.114 446	31.75 206	28.754 367	41.23 218	33.677 325	33.80 176	16.270 321	61.46 207
12 5.3	34.560 463	29.69 166	29.121 379	39.05 192	34.002 335	35.56 201	16.591 332	59.39 210
15.2	35.023 465	28.03 119	29.500 381	37.13 160	34.337 332	37.57 221	16.923 332	57.29 208
25.2	35.488 452	26.84 69	29.881 371	35.53 122	34.669 320	39.78 233	17.255 321	55.21 196
35.2	35.940	26.15	30.252	34.31	34.989	42.11	17.576	53.25
平位	s 33.000	″ 55.93	s 27.500	″ 60.47	s 32.299	″ 30.85	s 14.926	″ 71.52
sec δ, tan δ	+ 1.549	+ 1.183	+ 1.198	+ 0.659	+ 1.033	− 0.258	+ 1.006	+ 0.111
2 回正中	3 月 11 日		3 月 11 日		3 月 11 日		○ 3 月 12 日	
a b	+ 0.1692	− 0.0772	+ 0.1618	− 0.0431	+ 0.1501	+ 0.0169	+ 0.1547	− 0.0073
a′ b′	− 0.9795	− 0.2013	− 0.9812	− 0.1931	− 0.9821	− 0.1885	− 0.9835	− 0.1812
FK3番號	424		425		426		427	

星名		π Cent			Grb 1771 UMaj			ϯ ε Leon			γ Crat		
等級		4.26			5.98			4.03			4.14		
スペクトル型		B 5			A 0			F 5			A 5		
世界時		赤 経		赤 緯	赤 経		赤 緯	赤 経		赤 緯	赤 経		赤 緯
月	日	h m		° ′	h m		° ′	h m		° ′	h m		° ′
		11 18		−54 10	11 19		+64 37	11 20		+10 49	11 22		−17 22
		s		″	s		″	s		″	s		″
1	1.2	27.339	418	42.83	31.91	61	60.03	59.899	312	75.76	4.647	309	25.66
	11.2	27.757	374	45.49	32.52	56	60.13	60.211	286	74.03	4.956	280	28.05
	21.1	28.131	317	48.50	33.08	50	60.82	60.497	253	72.53	5.236	245	30.49
	31.1	28.448	255	51.76	33.58	42	62.07	60.748	211	71.32	5.481	203	32.89
2	10.1	28.703	189	55.20	34.00	32	63.82	60.959	166	70.41	5.684	158	35.19
	20.1	28.892	121	58.70	34.32	22	66.00	61.125	119	69.81	5.842	112	37.33
3	1.0	29.013	56	62.20	34.54	12	68.50	61.244	74	69.51	5.954	68	39.28
	11.0	29.069	5	65.61	34.66	2	71.22	61.318	32	69.49	6.022	27	41.01
	20.9	29.064	61	68.84	34.68	7	74.03	61.350	6	69.72	6.049	11	42.49
	30.9	29.003	112	71.86	34.61	16	76.83	61.344	38	70.15	6.038	41	43.72
4	9.9	28.891	153	74.58	34.45	23	79.51	61.306	64	70.75	5.997	68	44.70
	19.9	28.738	190	76.97	34.22	29	81.95	61.242	85	71.45	5.929	87	45.41
	29.9	28.548	219	78.99	33.93	33	84.07	61.157	98	72.22	5.842	102	45.88
5	9.8	28.329	240	80.60	33.60	36	85.81	61.059	107	73.03	5.740	113	46.11
	19.8	28.039	257	81.77	33.24	37	87.11	60.952	111	73.83	5.627	118	46.10
	29.8	27.832	264	82.48	32.87	38	87.93	60.841	110	74.61	5.509	120	45.86
6	8.8	27.568	267	82.72	32.49	36	88.26	60.731	107	75.32	5.389	118	45.41
	18.7	27.301	263	82.48	32.13	34	88.08	60.624	101	75.97	5.271	114	44.76
	28.7	27.038	251	81.79	31.79	31	87.41	60.523	91	76.52	5.157	107	43.94
7	8.7	26.787	232	80.65	31.48	27	86.26	60.432	79	76.97	5.050	96	42.95
	18.7	26.555	206	79.09	31.21	23	84.67	60.353	65	77.30	4.954	81	41.83
	28.6	26.349	172	77.18	30.98	17	82.66	60.288	47	77.49	4.873	64	40.63
8	7.6	26.177	131	74.96	30.81	12	80.29	60.241	27	77.54	4.809	43	39.36
	17.6	26.046	82	72.49	30.69	6	77.59	60.214	3	77.41	4.766	17	38.09
	27.5	25.964	26	69.88	30.63	1	74.63	60.211	24	77.11	4.749	13	36.87
	26.4	25.779	358	56.52	31.80	46	54.60	60.875	241	70.77	5.389	245	33.67
11	5.4	27.137	407	55.58	32.26	52	51.55	61.116	274	68.96	5.634	280	34.26
	15.3	27.544	445	55.20	32.78	58	48.79	61.390	303	66.99	5.914	307	35.24
	25.3	27.989	467	55.41	33.36	61	46.39	61.693	324	64.91	6.221	328	36.59
12	5.3	28.456	475	56.22	33.97	65	44.44	62.017	335	62.79	6.549	337	38.28
	15.2	28.931	466	57.61	34.62	65	43.00	62.352	337	60.68	6.886	336	40.25
	25.2	29.397	442	59 54	35.27	63	42.12	62.689	326	58.65	7.222	324	42.45
	35.2	29.839		61.95	35.90		41.83	63.015		56.77	7.546		44.81
平位		s		″	s		″	s		″	s		″
sec δ, tan δ		26.736		61.78	32.680		73.92	60.363		76.56	4.869		34.36
		+ 1.709		− 1.386	+ 2.335		+ 2.110	+ 1.018		+ 0.191	+ 1.048		− 0.313
2 回正中		3 月 12 日			3 月 12 日			3 月 12 日			3 月 13 日		
a	b	+ 0.1367		+ 0.0909	+ 0.1780		− 0.1385	+ 0.1555		− 0.0126	+ 0.1499		+ 0.0206
a′	b′	− 0.9836		− 0.1803	− 0.9845		− 0.1756	− 0.9856		− 0.1693	− 0.9863		− 0.1647
FK3番號		428			429			430			431		

星名		58 UMaj			λ Drac			ξ Hyda			λ Cent		
等級		5.88			4.06			3.72			3.34		
スペクトル型		F 8			M 0			G 5			B 9		
世界時		赤 経		赤 緯	赤 経		赤 緯	赤 経		赤 緯	赤 経		赤 緯
月	日	h m		° ′	h m		° ′	h m		° ′	h m		° ′
		11 27		+43 28	11 28		+69 37	11 30		−31 32	11 33		−62 42
		s		″	s		″	s		″	s		″
1	1.2	28.959	400	40.88	5.24	73	70.95	14.472	332	37.34	12.08	52	13.57
	11.2	29.359	371	40.17	5.97	69	71.09	14.804	303	39.88	12.60	47	16.00
	21.2	29.730	330	39.96	6.66	61	71.85	15.107	265	42.59	13.07	41	18.87
	31.1	30.060	280	40.25	7.27	51	73.18	15.372	220	45.40	13.48	33	22.07
2	10.1	30.340	222	41.01	7.78	40	75.04	15.592	172	48.22	13.81	25	25.51
	20.1	30.562	160	42.21	8.18	29	77.33	15.764	123	50.99	14.06	17	29.11
3	1.0	30.722	100	43.76	8.47	16	79.95	15.887	76	53.65	14.23	9	32.77
	11.0	30.822	39	45.60	8.63	3	82.80	15.963	30	56.14	14.32	1	36.40
	20.9	30.861	14	47.62	8.66	8	85.75	15.993	9	58.41	14.33	6	39.92
	30.9	30.847	63	49.75	8.58	19	88.68	15.984	45	60.44	14.27	12	43.26
4	9.9	30.784	103	51.87	8.39	28	91.47	15.939	74	62.19	14.15	19	46.36
	19.9	30.681	134	53.91	8.11	35	94.03	15.865	98	63.65	13.96	23	49.15
	29.9	30.547	157	55.78	7.76	42	96.25	15.767	117	64.81	13.73	28	51.59
5	9.9	30.390	173	57.43	7.34	45	98.07	15.650	131	65.64	13.45	31	53.62
	19.8	30.217	181	58.80	6.89	48	99.43	15.519	141	66.15	13.14	34	55.20
	29.8	30.036	181	59.83	6.41	48	100.30	15.378	145	66.33	12.80	35	56.31
6	8.8	29.855	176	60.52	5.93	47	100.64	15.233	147	66.19	12.45	37	56.93
	18.7	29.679	167	60.83	5.46	46	100.45	15.086	144	65.72	12.08	36	57.05
	28.7	29.512	152	60.77	5.00	41	99.75	14.942	139	64.95	11.72	36	56.65
7	8.7	29.360	134	60.34	4.59	37	98.54	14.803	128	63.90	11.36	34	55.77
	18.7	29.226	111	59.55	4.22	32	96.87	14.675	113	62.60	11.02	30	54.41
	28.6	29.115	86	58.40	3.90	25	94.77	14.562	94	61.08	10.72	27	52.63
8	7.6	29.029	56	56.93	3.65	19	92.28	14.468	70	59.40	10.45	21	50.48
	17.6	28.973	22	55.15	3.46	10	89.45	14.398	41	57.61	10.24	16	48.01
	27.6	28.951	14	53.10	3.36	3	86.35	14.357	6	55.78	10.08	8	45.33
	26.4	29.701	291	37.02	4.57	52	65.52	14.966	260	48.09	10.85	42	30.20
11	5.4	29.992	335	34.18	5.09	60	62.37	15.226	299	48.00	11.27	48	28.82
	15.3	30.327	372	31.45	5.69	67	59.53	15.525	330	48.38	11.75	54	28.00
	25.3	30.699	400	28.93	6.36	73	57.08	15.855	352	49.23	12.29	56	27.77
12	5.3	31.099	419	26.67	7.09	76	55.09	16.207	362	50.54	12.85	58	28.17
	15.3	31.518	425	24.77	7.85	77	53.64	16.569	362	52.27	13.43	57	29.19
	25.2	31.943	416	23.27	8.62	77	52.76	16.931	349	54.37	14.00	55	30.80
	35.2	32.359		22.23	9.39		52.50	17.280		56.76	14.55		32.95
平位		s		″	s		″	s		″	s		″
sec δ, tan δ		29.662		50.93	6.156		85.35	14.560		50.90	11.227		34.97
		+ 1.378		+ 0.948	+ 2.874		+ 2.695	+ 1.173		− 0.614	+ 2.181		− 1.938
2 回正中		3 月 14 日			3 月 14 日			3 月 15 日			3 月 16 日		
a	b	+ 0.1623		− 0.0626	+ 0.1783		− 0.1779	+ 0.1480		+ 0.0406	+ 0.1382		+ 0.1283
a′	b′	− 0.9900		− 0.1414	− 0.9903		− 0.1387	− 0.9916		− 0.1295	− 0.9932		− 0.1167
FK3番號		432			433			434			436		

星名 / 等級 / スペクトル型	C^2 Cent 5.42 F0		υ Leon 4.47 K0		π Cham 5.74 F0		o Hyda 4.88 B8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 11 33	° ′ −47 19	h m 11 34	° ′ −0 30	h m 11 34	° ′ −75 34	h m 11 37	° ′ −34 25
	s	″	s	″	s	″	s	″
1 1.2	12.441 389	33.20 255	4.371 309	48.48 205	58.57 87	46.97 223	25.481 344	47.85 250
11.2	12.830 353	35.75 287	4.680 286	50.53 193	59.44 78	49.20 272	25.825 315	50.35 271
21.2	13.183 307	38.62 309	4.966 253	52.46 175	60.22 67	51.92 312	26.140 277	53.06 285
31.1	13.490 254	41.71 324	5.219 214	54.21 151	60.89 54	55.04 345	26.417 231	55.91 289
2 10.1	13.744 198	44.95 329	5.433 172	55.72 127	61.43 40	58.49 367	26.648 184	58.80 286
20.1	13.942 138	48.24 327	5.605 127	56.99 99	61.83 26	62.16 380	26.832 133	61.66 278
3 1.0	14.080 82	51.51 317	5.732 84	57.98 73	62.09 12	65.96 383	26.965 86	64.44 262
11.0	14.162 28	54.68 301	5.816 43	58.71 47	62.21 1	69.79 378	27.051 39	67.06 243
20.9	14.190 22	57.69 279	5.859 7	59.18 24	62.20 15	73.57 366	27.090 2	69.49 219
30.9	14.168 66	60.48 251	5.866 25	59.42 3	62.05 27	77.23 344	27.088 39	71.68 192
4 9.9	14.102 104	62.99 221	5.841 52	59.45 15	61.78 38	80.67 316	27.049 70	73.60 163
19.9	13.998 136	65.20 186	5.789 71	59.30 29	61.40 48	83.83 282	26.979 97	75.23 132
29.9	13.862 162	67.06 149	5.718 87	59.01 43	60.92 57	86.65 243	26.882 116	76.55 99
5 9.9	13.700 183	68.55 108	5.631 97	58.58 51	60.35 64	89.08 197	26.766 133	77.54 66
19.8	13.517 198	69.63 67	5.534 104	58.07 60	59.71 70	91.05 148	26.633 143	78.20 31
29.8	13.319 208	70.30 23	5.430 106	57.47 64	59.01 74	92.53 97	26.490 151	78.51 3
6 8.8	13.111 213	70.53 19	5.324 106	56.83 68	58.27 76	93.50 42	26.339 155	78.48 37
18.7	12.898 211	70.34 61	5.218 102	56.15 70	57.51 77	93.92 12	26.184 153	78.11 69
28.7	12.687 205	69.73 102	5.116 96	55.45 69	56.74 74	93.80 67	26.031 148	77.42 100
7 8.7	12.482 192	68.71 139	5.020 86	54.76 67	56.00 72	93.13 120	25.883 139	76.42 128
18.7	12.290 174	67.32 172	4.934 75	54.09 63	55.28 65	91.93 168	25.744 125	75.14 152
28.6	12.116 148	65.60 200	4.859 59	53.46 55	54.63 57	90.25 211	25.619 107	73.62 171
8 7.6	11.968 116	63.60 223	4.800 40	52.91 45	54.06 47	88.14 249	25.512 82	71.91 185
17.6	11.852 78	61.37 235	4.760 19	52.46 32	53.59 35	85.65 278	25.430 52	70.06 192
27.6	11.774 32	59.02 242	4.741 9	52.14 16	53.24 21	82.87 297	25.378 17	68.14 191
9 6.5	11.742 20	56.60 237	4.750 39	51.98 4	53.03 6	79.90 306	25.361 24	66.23 182
16.5	11.762 75	54.23 224	4.789 74	52.02 26	52.97 10	76.84 304	25.385 68	64.41 166
26.5	11.837 135	51.99 200	4.863 111	52.28 52	53.07 26	73.80 288	25.453 116	62.75 141
10 6.4	11.972 194	49.99 169	4.974 150	52.80 79	53.33 42	70.92 263	25.569 166	61.34 108
16.4	12.166 252	48.30 127	5.124 190	53.59 107	53.75 57	68.29 225	25.735 214	60.26 70
26.4	12.418 306	47.03 79	5.314 228	54.66 134	54.32 70	66.04 179	25.949 261	59.56 26
11 5.4	12.724 353	46.24 27	5.542 264	56.00 159	55.02 81	64.25 123	26.210 302	59.30 21
15.3	13.077 390	45.97 28	5.806 293	57.59 182	55.83 90	63.02 63	26.512 335	59.51 70
25.3	13.467 416	46.25 85	6.099 315	59.41 198	56.73 96	62.39 3	26.847 359	60.21 117
12 5.3	13.883 427	47.10 138	6.414 329	61.39 210	57.69 97	62.42 67	27.206 371	61.38 162
15.3	14.310 425	48.48 189	6.743 330	63.49 215	58.66 96	63.09 130	27.577 372	63.00 202
25.2	14.735 408	50.37 232	7.073 323	65.64 212	59.62 91	64.39 191	27.949 359	65.02 235
35.2	15.143	52.69	7.396	67.76	60.53	66.30	28.308	67.37
平位	s 12.228	″ 51.30	s 4.823	″ 51.86	s 56.207	″ 70.33	s 25.578	″ 62.58
sec δ, tan δ	+ 1.475	− 1.085	+ 1.000	− 0.009	+ 4.017	− 3.891	+ 1.212	− 0.686
2 回正中	3月16日		3月16日		3月16日		3月17日	
a b	+ 0.1449	+ 0.0718	+ 0.1533	+ 0.0006	+ 0.1250	+ 0.2578	+ 0.1488	+ 0.0455
a′ b′	− 0.9932	− 0.1167	− 0.9936	− 0.1129	− 0.9940	− 0.1091	− 0.9952	− 0.0983
FK3番號	435		437		438		439	

星名 / 等級 / スペクトル型	3 Drac 5.48 K0		λ Musc 3.80 A5		χ UMaj 3.85 K0		65 G. Cent 4.22 G0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 11 39	° ′ +67 2	h m 11 42	° ′ −66 24	h m 11 43	° ′ +48 4	h m 11 43	° ′ −60 51
	s	″	s	″	s	″	s	″
1 1.2	20.96 68	63.76 9	58.03 60	42.92 228	5.176 432	73.06 73	48.11 51	39.25 234
11.2	21.64 63	63.67 53	58.63 53	45.20 274	5.608 406	72.33 19	48.62 46	41.59 278
21.2	22.27 56	64.20 112	59.16 47	47.94 311	6.014 366	72.14 35	49.08 41	44.37 311
31.1	22.83 49	65.32 166	59.63 39	51.05 340	6.380 314	72.49 86	49.49 33	47.48 336
2 10.1	23.32 39	66.98 212	60.02 30	54.45 359	6.694 256	73.35 131	49.82 27	50.84 352
20.1	23.71 28	69.10 248	60.32 21	58.04 368	6.950 192	74.66 171	50.09 18	54.36 359
3 1.1	23.99 18	71.58 275	60.53 12	61.72 370	7.142 126	76.37 202	50.27 12	57.95 358
11.0	24.17 6	74.33 288	60.65 4	65.42 362	7.268 61	78.39 223	50.39 4	61.53 348
20.9	24.23 4	77.21 291	60.69 5	69.04 347	7.329 2	80.62 233	50.43 3	65.01 332
30.9	24.19 14	80.12 281	60.64 13	72.51 326	7.331 52	82.95 234	50.40 9	68.33 308
4 9.9	24.05 22	82.93 261	60.51 19	75.77 297	7.279 99	85.29 226	50.31 15	71.41 279
19.9	23.83 29	85.54 232	60.32 26	78.74 263	7.180 137	87.55 208	50.16 20	74.20 246
29.9	23.54 35	87.86 194	60.06 31	81.37 223	7.043 166	89.63 184	49.96 24	76.66 206
5 9.9	23.19 38	89.80 151	59.75 35	83.60 181	6.877 186	91.47 153	49.72 27	78.72 164
19.8	22.81 41	91.31 102	59.40 39	85.41 132	6.691 199	93.00 118	49.45 30	80.36 118
29.8	22.40 42	92.33 53	59.01 41	86.73 84	6.492 204	94.18 79	49.15 32	81.54 69
6 8.8	21.98 42	92.86 0	58.60 43	87.57 32	6.288 203	94.97 39	48.83 34	82.23 21
18.8	21.56 40	92.86 50	58.17 44	87.89 21	6.085 196	95.36 2	48.49 33	82.44 29
28.7	21.16 37	92.36 101	57.73 43	87.68 71	5.889 183	95.34 44	48.16 34	82.15 78
7 8.7	20.79 34	91.35 148	57.30 43 40	86.97 120	5.706 165	94.90 84	47.82 31	81.37 124
18.7	20.45 30	89.87 192	56.90 38	85.77 167	5.541 144	94.06 122	47.51 30	80.13 167
28.6	20.15 24	87.95 232	56.52 33	84.10 206	5.397 117	92.84 159	47.21 25	78.46 205
8 7.6	19.91 19	85.63 268	56.19 28	82.04 241	5.280 87	91.25 193	46.96 22	76.41 236
17.6	19.72 11	82.95 297	55.91 20	79.63 267	5.193 53	89.32 222	46.74 15	74.05 259
27.6	19.61 5	79.98 323	55.71 13	76.96 284	5.140 13	87.10 250	46.59 9	71.46 274
9 6.5	19.56 3	76.75 340	55.58 3	74.12 291	5.127 31	84.60 272	46.50 2	68.72 277
16.5	19.59 11	73.35 352	55.55 6	71.21 286	5.158 78	81.88 290	46.48 6	65.95 272
26.5	19.70 19	69.83 357	55.61 17	68.35 270	5.236 129	78.98 293	46.54 14	63.23 254
10 6.5	19.89 28	66.26 355	55.78 26	65.65 244	5.365 182	75.95 303	46.68 23	60.69 226
16.4	20.17 37	62.71 343	56.04 37	63.21 206	5.547 236	72.84 311	46.91 31	58.43 187
26.4	20.54 45	59.28 325	56.41 45	61.15 159	5.783 289	69.73 305	47.22 39	56.56 142
11 5.4	20.99 52	56.03 297	56.86 53	59.56 105	6.072 338	66.68 291	47.61 44	55.14 87
15.3	21.51 59	53.06 261	57.39 59	58.51 46	6.410 382	63.77 269	48.05 50	54.27 28
25.3	22.10 65	50.45 217	57.98 63	58.05 17	6.792 416	61.08 239	48.55 54	53.99 33
12 5.3	22.75 68	48.28 166	58.61 65	58.22 80	7.208 440	58.69 202	49.09 55	54.32 93
15.3	23.43 70	46.62 110	59.26 64	59.02 141	7.648 451	56.67 157	49.64 55	55.25 152
25.2	24.13 69	45.52 49	59.90 62	60.43 198	8.099 446	55.10 108	50.19 53	56.77 206
35.2	24.82	45.03	60.52	62.41	8.545	54.02	50.72	58.83
平位	s 21.980	″ 77.80	s 57.072	″ 65.44	s 6.018	″ 83.94	s 47.518	″ 60.83
sec δ, tan δ	+ 2.565	+ 2.362	+ 2.500	− 2.291	+ 1.497	+ 1.114	+ 2.054	− 1.794
2 回正中	3月17日		3月18日		3月18日		3月18日	
a b	+ 0.1675	− 0.1568	+ 0.1420	+ 0.1523	+ 0.1588	− 0.0741	+ 0.1449	+ 0.1193
a′ b′	− 0.9960	− 0.0899	− 0.9972	− 0.0743	− 0.9973	− 0.0737	− 0.9975	− 0.0707
FK3番號	440		442		441		443	

星名 / 等級 / スペクトル型	β Leon 2.23 A2		β Virg 3.80 F8		B Cent 4.71 K0		γ UMaj 2.54 A0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 11 46	° ′ +14 52	h m 11 47	° ′ + 2 4	h m 11 48	° ′ −44 51	h m 11 50	° ′ +53 59
	s	″	s	″	s	″	s	″
1 1.2	11.617 323	64.99 173	46.090 316	52.16 202	20.167 387	25.01 242	52.668 482	70.15 64
11.2	11.940 303	63.26 145	46.406 294	50.14 188	20.554 356	27.43 273	53.150 455	69.51 6
21.2	12.243 271	61.81 113	46.700 264	48.26 166	20.910 315	30.16 296	53.605 413	69.45 51
31.1	12.514 233	60.68 78	46.964 226	46.60 142	21.225 266	33.12 311	54.018 359	69.96 105
2 10.1	12.747 191	59.90 45	47.190 185	45.18 114	21.491 213	36.23 317	54.377 294	71.01 152
20.1	12.938 146	59.45 10	47.375 142	44.04 86	21.704 159	39.40 315	54.671 223	72.53 193
3 1.1	13.084 100	59.35 19	47.517 99	43.18 58	21.863 104	42.55 306	54.894 151	74.46 225
11.0	13.184 57	59.54 46	47.616 58	42.60 33	21.967 52	45.61 291	55.045 77	76.71 246
21.0	13.241 17	60.00 68	47.674 21	42.27 8	22.019 4	48.52 272	55.122 8	79.17 256
30.9	13.258 17	60.68 84	47.695 12	42.19 11	22.023 39	51.24 246	55.130 55	81.73 256
4 9.9	13.241	61.52	47.683	42.30	21.984	53.70	55.075	84.29
19.9	13.196 45	62.46 94	47.644 39	42.59 29	21.908 76	55.87 217	54.966 109	86.74 245
29.9	13.127 69	63.46 100	47.583 61	43.01 42	21.799 109	57.72 185	54.810 156	88.99 225
5 9.9	13.040 87	64.46 100	47.506 77	43.54 53	21.663 136	59.21 149	54.619 191	90.97 198
19.8	12.941 99 108	65.44 98 91	47.416 90 98	44.14 60 65	21.505 158 175	60.33 112 73	54.401 218 235	92.60 163 125
29.8	12.833 111	66.35 81	47.318 102	44.79 67	21.330 187	61.06 32	54.166 244	93.85 82
6 8.8	12.722 112	67.16 69	47.216 104	45.46 68	21.143 195	61.38 9	53.922 245	94.67 38
18.8	12.610 109	67.85 55	47.112 101	46.14 66	20.948 197	61.29 48	53.677 237	95.05 8
28.7	12.501 104	68.40 41	47.011 98	46.80 63	20.751 194	60.81 88	53.440 225	94.97 52
7 8.7	12.397 94	68.81 23	46.913 90	47.43 58	20.557 185	59.93 123	53.215 206	94.45 97
18.7	12.303	69.04 7	46.823	48.01	20.372	58.70	53.009	93.48
28.6	12.219 84	69.11 13	46.744 79	48.52 51	20.200 172	57.13 157	52.827 182	92.10 138
8 7.6	12.151 68	68.98 32	46.678 66	48.93 41	20.050 150	55.29 184	52.674 153	90.33 177
17.6	12.100 51	68.66 53	46.629 49	49.23 30	19.928 122	53.23 206	52.556 118	88.19 214
27.6	12.072 28 2	68.13 75	46.602 27 2	49.38 15 2	19.840 88 46	51.02 221 227	52.477 79 34	85.74 245 272
9 6.5	12.070 29	67.38	46.600 29	49.36	19.794 1	48.75	52.443 15	83.02
16.5	12.099 62	66.41 97	46.629 63	49.14 22	19.795 55	46.49 226	52.458 69	80.05 297
26.5	12.161 101	65.21 120	46.692 100	48.69 45	19.850 111	44.36 213	52.527 126	76.92 313
10 6.5	12.262 140	63.77 144	46.792 139	48.00 69	19.961 169	42.43 193	52.653 185	73.66 326
16.4	12.402 182	62.13 186	46.931 180	47.05 95 122	20.130 228	40.80 163 125	52.838 247	70.34 332 330
26.4	12.584 221	60.27 202	47.111 220	45.83 147	20.358 281	39.55 80	53.085 306	67.04 321
11 5.4	12.805 260	58.25 216	47.331 257	44.36 170	20.639 55	38.75 30	53.391 69	63.83 303
15.4	13.065 292	56.09 224	47.588 289	42.66 190	20.969 330	38.45 23	53.754 363	60.80 279
25.3	13.357 318	53.85 225	47.877 312	40.76 205	21.338 369	38.68 76	54.167 413	58.01 244
12 5.3	13.675 334	51.60 221	48.189 328	38.71 214	21.736 398 413	39.44 129	54.620 453 482	55.57 202
15.3	14.009 349	49.39 208	48.517 334	36.57 216	22.149 416	40.73 178	55.102 497	53.55 155
25.2	14.349 335	47.31 190	48.851 327	34.41 210	22.565 403	42.51 221	55.599 495	52.00 100
35.2	14.684	45.41	49.178	32.31	22.968	44.72	56.094	51.00
平位	s 12.243	″ 66.51	s 46.634	″ 49.32	s 20.161	″ 43.13	s 53.624	″ 82.10
sec δ, tan δ	+ 1.035	+ 0.266	+ 1.001	+ 0.036	+ 1.411	− 0.995	+ 1.702	+ 1.377
2 回正中	3 月 19 日		3 月 19 日		3 月 19 日		3 月 20 日	
a b	+ 0.1544	− 0.0177	+ 0.1535	− 0.0024	+ 0.1500	+ 0.0663	+ 0.1570	− 0.0917
a′ b′	− 0.9982	− 0.0602	− 0.9986	− 0.0533	− 0.9987	− 0.0509	− 0.9992	− 0.0397
FK3番號	444		445		446		447	

星名 / 等級 / スペクトル型	† ε Cham m 5.05 B9		88 G. Cent 5.28 F0		o Virg 4.24 G5		Grb 1852 Caml 5.96 K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 11 56	° ′ −77 54	h m 12 0	° ′ −42 6	h m 12 2	° ′ + 9 2	h m 12 2	° ′ +77 12
	s	″	s	″	s	″	s	″
1 1.2	51.16 106	10.97 191	44.891 384	55.80 232	20.689 323	39.27 192	24.20 113	52.89 12
11.2	52.22 98	12.88 244	45.275 356	58.12 263	21.012 304	37.35 169	25.33 107	52.77 53
21.2	53.20 86	15.32 289	45.631 319	60.75 285	21.316 275	35.66 142	26.40 99	53.30 115
31.1	54.06 73	18.21 326	45.950 274	63.60 298	21.591 241	34.24 111	27.39 87	54.45 173
2 10.1	54.79 57	21.47 353	46.224 225	66.58 304	21.832 201	33.13 80	28.26 72	56.18 222
20.1	55.36 41	25.00 373	46.449 173	69.62 302	22.033 157	32.33 48	28.98 55	58.40 262
3 1.1	55.77 25	28.73 381	46.622 121	72.64 294	22.190 115	31.85 18	29.53 36	61.02 291
11.0	56.02 9	32.54 382	46.743 72	75.58 280	22.305 73	31.67 11	29.89 17	63.93 307
21.0	56.11 7	36.36 374	46.815 26	78.38 260	22.378 35	31.78 33	30.06 1	67.00 311
30.9	56.04 22	40.10 358	46.841 16	80.98 237	22.413 1	32.11 53	30.05 19	70.11 302
4 9.9	55.82	43.68	46.825	83.35	22.414	32.64	29.86	73.13
19.9	55.46 36	47.03 335	46.772 53	85.44 209	22.386 28	33.31 67	29.50 36	75.95 282
29.9	54.97 49	50.09 306	46.687 85	87.24 180	22.334 52	34.09 78	29.01 49	78.47 252
5 9.9	54.37 60	52.78 269	46.574 113	88.70 146	22.263 71	34.92 83	28.40 61	80.61 214
19.8	53.67 70 79	55.06 228 181	46.440 134 154	89.81 111 74	22.177 86 96	35.77 85 84	27.69 71 76	82.28 167 117
29.8	52.88 85	56.87 130	46.286 166	90.55 36	22.081 103	36.61 80	26.93 81	83.45
6 8.8	52.03 90	58.17 78	46.120 176	90.91 2	21.978 105	37.41 73	26.12 82	84.09 64
18.8	51.13 92	58.95 22	45.944 181	90.89 40	21.873 107	38.14 64	25.30 81	84.18 9
28.7	50.21 91	59.17 33	45.763 182	90.49 77	21.766 104	38.78 54	24.49 78	83.71 47
7 8.7	49.30 89	58.84 87	45.581 175	89.72 112	21.662 98	39.32 43	23.71 72	82.70 101 152
18.7	48.41	57.97	45.406	88.60	21.564	39.75	22.99	81.18
28.7	47.58 83	56.59 138	45.241 165	87.18 142	21.474 90	40.04 29	22.33 66	79.18 200
8 7.6	46.83 75	54.72 187	45.094 147	85.48 170	21.396 78	40.18 14	21.76 57	76.75 243
17.6	46.18 65	52.44 228	44.971 123	83.58 190	21.334 62	40.15 3	21.29 47	73.93 282
27.6	45.68 50 35	49.82 262 287	44.879 92 54	81.52 206 212	21.292 42 17	39.95 20 41	20.94 35 24	70.79 314 341
9 6.5	45.33 18	46.95	44.825 10	79.40 211	21.275 12	39.54 63	20.70 10	67.38 361
16.5	45.15 1	43.92 303	44.815 40	77.29 201	21.287 45	38.91 86	20.60 4	63.77 374
26.5	45.16 21	40.86 306	44.855 94	75.28 182	21.332 83	38.05 109	20.64 19	60.03 379
10 6.5	45.37 40	37.87 299	44.949 151	73.46 154	21.415 123	36.96 134	20.83 34	56.24 376
16.4	45.77 58	35.09 278 247	45.100 207	71.92 118	21.538 165	35.62 158	21.17 49	52.48 364
26.4	46.35 76	32.62	45.307	70.74	21.703	34.04	21.66	48.84
11 5.4	47.11 90	30.57 205	45.568 261	69.98 76	21.910 207	32.26 178	22.30 64	45.40 344
15.4	48.01 102	29.03 154	45.878 310	69.70 28	22.155 245	30.28 198	23.08 78	42.24 316
25.3	49.03 110	28.06 97	46.229 351	69.93 23	22.434 279	28.17 211	23.98 90	39.47 277
12 5.3	50.13 114	27.73 33 31	46.611 382 400	70.67 74 124	22.742 308 325	25.98 219 221	24.98 100 108	37.16 231 178
15.3	51.27 114	28.04 95	47.011 405	71.91 171	23.067 335	23.77 217	26.06 114	35.38 118
25.2	52.41 111	28.99 157	47.416 397	73.62 212	23.402 332	21.60 204	27.20 114	34.20 54
35.2	53.52	30.56	47.813	75.74	23.734	19.56	28.34	33.66
平位	s 48.925	″ 35.60	s 45.057	″ 73.66	s 21.372	″ 38.42	s 25.938	″ 67.52
sec δ, tan δ	+ 4.775	− 4.669	+ 1.348	− 0.904	+ 1.013	+ 0.159	+ 4.520	+ 4.408
2 回正中	3 月 21 日		3 月 23 日		3 月 23 日		3 月 23 日	
a b	+ 0.1490	+ 0.3112	+ 0.1535	+ 0.0603	+ 0.1532	− 0.0106	+ 0.1502	− 0.2939
a′ b′	− 0.9999	− 0.0139	− 1.0000	+ 0.0033	− 1.0000	+ 0.0103	− 0.9999	+ 0.0106
FK3番號	448		449		450		451	

星名		δ Cent			ε Corv			Br 1634 Caml			δ Cruc		
等級	スペクトル型	2.88		B3p	3.21		K0	5.12		A5	3.08		B3
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 12 5		° ′ −50 24	h m 12 7		° ′ −22 18	h m 12 9		° ′ +77 55	h m 12 12		° ′ −58 25
		s		″	s		″	s		″	s		″
1	1.2	26.741		17.72	13.939		18.12	34.00	118	23.74	9.595		52.22
	11.2	27.170	429	19.94 222	14.272	333	20.39 227	35.18	114	23.53 46	10.099	504	54.28 206
	21.2	27.570	400	22.53 259	14.584	312	22.79 240	36.32	105	23.99 108	10.570	471	56.77 249
	31.2	27.928	358	25.42 289	14.867	283	25.22 243	37.37	94	25.07 167	10.993	423	59.62 285
2	10.1	28.237	309 253	28.52 310 322	15.113	246 204	27.62 240 232	38.31	78	26.74 218	11.360	367 303	62.76 314 332
	20.1	28.490		31.74	15.317		29.94	39.09		28.92	11.663		66.08
3	1.1	28.686	196	35.00 326	15.479	162	32.11 217	39.69	60	31.51 259	11.899	236	69.50 342
	11.0	28.824	138	38.24 324	15.597	118	34.10 199	40.10	41	34.40 289	12.067	168	72.96 346
	21.0	28.905	81	41.37 313	15.674	77	35.89 179	40.31	21	37.47 307	12.167	100	76.35 339
	30.9	28.933	28 21	44.34 297 275	15.712	38 4	37.45 156 132	40.33	2 18	40.59 312 306	12.204	37 24	79.63 328 309
4	9.9	28.912		47.09	15.716	26	38.77 107	40.15		43.65 286	12.180	77	82.72 284
	19.9	28.847	65	49.58 249	15.690		39.84 83	39.80	35	46.51 258	12.103	128	85.56 254
	29.9	28.744	103	51.76 218	15.639	51	40.67 58	39.29	51	49.09 220	11.975	172	88.10 220
5	9.9	28.607	137	53.60 184	15.567	72	41.25 34	38.66	63	51.29 176	11.803	209	90.30 182
	19.9	28.442	165 190	55.06 146 106	15.478	89 103	41.59 9	37.92	74 81	53.05 125	11.594	242	92.12 139
	29.8	28.252		56.12 64	15.375		41.68 14	37.11	85	54.30 72	11.352	268	93.51 95
6	8.8	28.044	208	56.76 21	15.262	113	41.54 37	36.26	88	55.02 16	11.084	288	94.46 48
	18.8	27.823	221	56.97 23	15.143	119	41.17 58	35.38	87	55.18 39	10.795	299	94.94 0
	28.7	27.595	228	56.74 65	15.020	123	40.59 78	34.51	84	54.79 93	10.497	304	94.94 46
7	8.7	27.364	231 224	56.09 105	14.896	124 120	39.81 96	33.67	79	53.86 145	10.193	299	94.48 93
	18.7	27.140		55.04	14.776		38.85 110	32.88	72	52.41 194	9.894	284	93.55 136
	28.7	26.927	213	53.61 143	14.663	113	37.75 122	32.16	63	50.47 238	9.610	261	92.19 176
8	7.6	26.735	192	51.84 177	14.562	101	36.53 129	31.53	54	48.09 278	9.349	226	90.43 209
	17.6	26.571	164	49.80 204	14.478	84	35.24 130	30.99	41	45.31 311	9.123	181	88.34 235
	27.6	26.444	127 83	47.55 225 237	14.416	62 35	33.94 127	30.58	29	42.20 339	8.942	126	85.99 254
	6.6	26.361	29	45.18 241	14.381	1	32.67 116	30.29	15	38.81 360	8.816	61	83.45 264
9	16.5	26.332	28	42.77 236	14.380	37	31.51 101	30.14	0	35.21 374	8.755	11	80.81 262
	26.5	26.360		40.41 219	14.417	79	30.50 77	30.14	16	31.47 380	8.766	89	78.19 251
10	6.5	26.453	93	38.22 194	14.496	124	29.73 50	30.30	32	27.67 379	8.855	169	75.68 229
	16.4	26.611	158 225	36.28 194 159	14.620	171	29.23 17	30.62	47	23.88 368	9.024	249	73.39 196
	26.4	26.836		34.69	14.791		29.06 19	31.09	64	20.20 349	9.273	325	71.43 154
11	5.4	27.123	287	33.52 117	15.007	216	29.25 59	31.73	79	16.71 321	9.598	393	69.89 106
	15.4	27.466	343	32.85 67	15.264	257	29.84 97	32.52	92	13.50 284	9.991	450	68.83 51
	25.3	27.856	390	32.71 14	15.558	294	30.81 134	33.44	103	10.66 239	10.441	493	68.32 7
12	5.3	28.281	425 446	33.13 42 96	15.880	322 340	32.15 169	34.47	112	8.27 185	10.934	519	68.39 66
	15.3	28.727		34.09	16.220		33.84 196	35.59	118	6.42 127	11.453	528	69.05 123
	25.3	29.180	453	35.58 149	16.567	347	35.80 220	36.77	120	5.15 63	11.981	520	70.28 176
	35.2	29.624	444	37.55 197	16.911	344	38.00	37.97		4.52	12.501		72.04
平位		s 26.787		″ 37.91	s 14.409		″ 30.04	s 35.939		″ 38.30	s 9.504		″ 74.45
sec δ, tan δ		+ 1.569		− 1.209	+ 1.081		− 0.410	+ 4.781		+ 4.675	+ 1.910		− 1.628
2 回正中		3 月 24 日			3 月 24 日			3 月 25 日			3 月 26 日		
a	b	+ 0.1552		+ 0.0806	+ 0.1542		+ 0.0273	+ 0.1403		− 0.3114	+ 0.1591		+ 0.1084
a′	b′	− 0.9997		+ 0.0238	− 0.9995		+ 0.0316	− 0.9991		+ 0.0419	− 0.9986		+ 0.0530
FK3番號		452			453			454			455		

星名		δ UMaj			γ Corv			2 CVen			β Cham		
等級	スペクトル型	3.44		A2	2.78		B8	5.80		K5	4.38		B5
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 12 12		° ′ +57 20	h m 12 12		° ′ −17 13	h m 12 13		° ′ +40 57	h m 12 14		° ′ −78 59
		s		″	s		″	s		″	s		″
1	1.2	38.578		24.77	54.779		41.63	18.448		69.58	62.91		39.40
	11.2	39.098	520	23.96 81	55.107	328	43.87 224	18.847	399	68.33 125	64.12	121	41.05 165
	21.2	39.597	499	23.76 20	55.416	309	46.16 229	19.229	382	67.58 75	65.24	112	43.25 220
	31.2	40.059	462	24.15 39	55.698	282	48.45 229	19.581	352	67.36 22	66.24	100	45.93 268
2	10.1	40.468	409 346	25.12 97 149	55.944	246 207	50.66 221 209	19.892	311 264	67.65 29 78	67.11	87 72	49.01 308 340
	20.1	40.814		26.61	56.151		52.75	20.156		68.43	67.83		52.41
3	1.1	41.087	273	28.55 194	56.316	165	54.67 192	20.365	209	69.64 121	68.38	55	56.03 362
	11.0	41.283	196	30.85 230	56.439	123	56.38 171	20.520	155	71.23 159	68.75	37	59.79 376
	21.0	41.401	118	33.39 254	56.521	82	57.88 150	20.618	98	73.09 186	68.95	20	63.60 381
	30.9	41.443	42 29	36.08 269 272	56.566	45 12	59.14 126 103	20.663	45 3	75.15 206 216	68.97	2 14	67.38 378 365
4	9.9	41.414		38.80	56.578	18	60.17	20.660		77.31	68.83		71.03
	19.9	41.322	92	41.43 263	56.560		60.97 80	20.614	46	79.47 216	68.53	30	74.50 347
	29.9	41.176	146	43.89 246	56.517	43	61.54 57	20.532	82	81.55 208	68.08	45	77.70 320
5	9.9	40.984	192	46.09 220	56.453	64	61.89 35	20.419	113	83.47 192	67.49	59	80.58 288
	19.9	40.757	227 253	47.94 185 146	56.373	80 95	62.04 15 6	20.284	135 152	85.17 170 142	66.79	70 82	83.07 249 204
	29.8	40.504		49.40	56.278		61.98	20.132		86.59	65.97		85.11
6	8.8	40.236	268	50.43 103	56.174	104	61.72 26	19.970	162	87.68 109	65.07	90	86.68 157
	18.8	39.959	277	51.00 57	56.063	111	61.29 43	19.801	169	88.43 75	64.11	96	87.72 104
	28.7	39.684	275	51.09 9	55.947	116	60.70 59	19.633	168	88.81 38	63.11	100	88.21 49
7	8.7	39.416	268 252	50.70 39 85	55.831	116 114	59.95 75 88	19.468	165 156	88.81 0 39	62.10	101 100	88.16 5 61
	18.7	39.164		49.85	55.717		59.07	19.312		88.42	61.10		87.55
	28.7	38.933	231	48.54 131	55.609	108	58.10 97	19.169	143	87.67 75	60.15	95	86.40 115
8	7.6	38.730	203	46.81 173	55.511	98	57.05 105	19.043	126	86.55 112	59.27	88	84.76 164
	17.6	38.560	170	44.69 212	55.429	82	55.97 108	18.938	105	85.08 147	58.50	77	82.67 209
	27.6	38.431	129 83	42.21 248 278	55.367	62 35	54.91 106 101	18.860	78 46	83.29 179 210	57.87	63 47	80.19 248 277
	6.6	38.348	31	39.43	55.332		53.90	18.814	10	81.19	57.40	28	77.42
9	16.5	38.317	26	36.38 305	55.327	5	53.02 88	18.804	32	78.83 236	57.12	8	74.46 296
	26.5	38.343	88	33.12 326	55.359	32	52.31 71	18.836	77	76.23 260	57.04	13	71.40 306
10	6.5	38.431	154	29.73 339	55.432	73	51.82 49	18.913	127	73.44 279	57.17	35	68.37 303
	16.4	38.585	221	26.25 348 348	55.548	116 161	51.61 21 10	19.040	177	70.50 294 303	57.52	56	65.49 288 261
	26.4	38.806		22.77	55.709		51.71	19.217		67.47	58.08		62.88
11	5.4	39.095	289	19.37 340	55.915	206	52.16 45	19.446	229	64.41 306	58.84	76	60.64 224
	15.4	39.449	354	16.12 325	56.162	247	52.96 80	19.725	279	61.41 300	59.77	93	58.87 177
	25.3	39.861	412	13.13 299	56.445	283	54.11 115	20.047	322	58.53 288	60.84	107	57.66 121
12	5.3	40.324	463 499	10.47 266 224	56.758	313 331	55.59 148 177	20.407	360 388	55.86 267 237	62.01	117 124	57.05 61 3
	15.3	40.823		8.23	57.089		57.36	20.795		53.49	63.25		57.08
	25.3	41.346	523	6.49 174	57.429	340	59.37 201	21.199	404	51.48 201	64.51	126	57.76 68
	35.2	41.875	529	5.30 119	57.767	338	61.55 218	21.607	408	49.91 157	65.74	123	59.05 129
平位		s 39.755		″ 36.97	s 55.333		″ 52.00	s 19.430		″ 78.28	s 61.084		″ 64.81
sec δ, tan δ		+ 1.853		+ 1.560	+ 1.047		− 0.310	+ 1.324		+ 0.868	+ 5.241		− 5.145
2 回正中		3 月 26 日			3 月 26 日			3 月 26 日			3 月 26 日		
a	b	+ 0.1476		− 0.1039	+ 0.1545		+ 0.0206	+ 0.1500		− 0.0578	+ 0.1758		+ 0.3423
a′	b′	− 0.9985		+ 0.0552	− 0.9984		+ 0.0564	− 0.9983		+ 0.0581	− 0.9979		+ 0.0655
FK3番號		456			457			458			459		

本初子午線正中時

星名	η Virg		6 CVen		α Cruc m		323 G.Hyda	
等級	4.00		5.22		1.58 2.09		5.68	
スペクトル型	A0		K0		B1 B1		A0	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
月 日	12 17	− 0 21	12 23	+39 19	12 23	−62 46	12 23	−32 30
	s	″	s	″	s	″	s	″
1 1.2	1.640	16.10	4.587	36.52	28.41	57.31	53.716	55.30
11.2	1.962 322	18.18 208	4.979 392	35.13 139	28.98 57	59.16 185	54.075 359	57.47 217
21.2	2.267 305	20.14 196	5.357 378	34.24 89	29.51 53	61.49 233	54.415 340	59.88 241
31.2	2.547 280	21.93 179	5.707 350	33.86 38	30.00 49	64.23 274	54.727 312	62.44 256
2 10.1	2.793 246	23.49 156	6.020 313	34.00 14	30.43 43	67.28 305	55.001 274	65.07 263
	209	131	267	64	36	330	233	264
20.1	3.002 168	24.80 102	6.287 217	34.64 109	30.79 28	70.58 344	55.234 188	67.71 259
3 1.1	3.170 127	25.82 75	6.504 162	35.73 146	31.07 21	74.02 351	55.422 143	70.30 247
11.1	3.297 87	26.57 49	6.666 109	37.19 177	31.28 14	77.53 351	55.565 99	72.77 232
21.0	3.384 50	27.06 24	6.775 58	38.96 199	31.42 6	81.04 351	55.664 58	75.09 213
30.9	3.434 17	27.30 2	6.833 9	40.95 210	31.48 1	84.45 341	55.722 21	77.22 191
						326		
4 9.9	3.451 12	27.32 17	6.842 32	43.05 214	31.47 7	87.71 305	55.743 14	79.13 166
19.9	3.439 37	27.15 32	6.810 69	45.19 208	31.40 13	90.76 276	55.729 43	80.79 141
29.9	3.402 57	26.83 44	6.741 99	47.27 194	31.27 19	93.52 245	55.686 68	82.20 113
5 9.9	3.345 73	26.39 54	6.642 123	49.21 174	31.08 23	95.97 206	55.618 91	83.33 84
19.9	3.272 85	25.85 60	6.519 141	50.95 148	30.85 27	98.03 165	55.527 109	84.17 55
29.8	3.187	25.25 64	6.378 154	52.43 118	30.58 31	99.68 120	55.418 123	84.72 25
6 8.8	3.092 95	24.61 67	6.224 161	53.61 84	30.27 33	100.88 72	55.295 136	84.97 6
18.8	2.991 101	23.94 67	6.063 163	54.45 48	29.94 36	101.60 24	55.159 143	84.91 35
28.8	2.887 104	23.27 66	5.900 162	54.93 11	29.58 36	101.84 27	55.016 143	84.56 63
7 8.7	2.782 105	22.61 62	5.738 156	55.04 26	29.22 36	101.57 74	54.869 147	83.93 91
	102						148	
18.7	2.680	21.99	5.582 145	54.78 63	28.86 35	100.83 121	54.721 142	83.02
28.7	2.583 97	21.43 56	5.437 131	54.15 100	28.51 32	99.62 164	54.579 131	81.87 115
8 7.6	2.496 87	20.93 50	5.306 111	53.15 134	28.19 28	97.98 202	54.448 116	80.52 135
17.6	2.422 74	20.55 38	5.195 86	51.81 168	27.91 24	95.96 232	54.332 92	79.01 151
27.6	2.367 55	20.28 27	5.109 57	50.13 198	27.67 17	93.64 256	54.240 62	77.39 162
	32	11						166
9 6.6	2.335	20.17	5.052 22	48.15 227	27.50 10	91.08 270	54.178 27	75.73
16.5	2.332 3	20.26 9	5.030 19	45.88 252	27.40 2	88.38 273	54.151 16	74.10 163
26.5	2.362 30	20.55 29	5.049 63	43.36 273	27.38 7	85.65 266	54.167 63	72.57 153
10 6.5	2.430 68	21.09 54	5.112 111	40.63 289	27.45 16	82.99 248	54.230 113	71.21 136
16.5	2.539 109	21.88 79	5.223 162	37.74 300	27.61 26	80.51 218	54.343 165	70.11 110
	151	106						78
26.4	2.690	22.94	5.385	34.74	27.87	78.33	54.508	69.33
11 5.4	2.884 194	24.27 133	5.599 214	31.70 304	28.21 34	76.53 180	54.723 215	68.92 41
15.4	3.118 234	25.85 158	5.862 263	28.68 302	28.64 43	75.21 132	54.987 264	68.93 1
25.3	3.388 270	27.65 180	6.169 307	25.76 292	29.13 49	74.42 79	55.291 304	69.37 44
12 5.3	3.687 299	29.63 198	6.516 347	23.02 274	29.67 54	74.21 21	55.629 338	70.26 89
	320	210	376	246	58	39	359	130
15.3	4.007	31.73	6.892	20.56	30.25	74.60	55.988	71.56
25.3	4.337 330	33.89 216	7.286 394	18.44 212	30.84 59	75.58 98	56.359 371	73.26 170
35.2	4.667 330	36.04 215	7.684 398	16.74 170	31.42 58	77.12 154	56.728 369	75.28 202
平位	s 2.344	″ 20.61	s 5.615	″ 44.60	s 28.335	″ 80.74	s 54.211	″ 71.03
sec δ, tan δ	+ 1.000	− 0.006	+ 1.293	+ 0.819	+ 2.187	− 1.945	+ 1.186	− 0.638
2 回正中	3月 27 日		3月 28 日		3月 28 日		3月 28 日	
a b	+ 0.1534	+ 0.0004	+ 0.1478	− 0.0543	+ 0.1666	+ 0.1290	+ 0.1578	+ 0.0423
a′ b′	− 0.9972	+ 0.0743	− 0.9949	+ 0.1006	− 0.9948	+ 0.1022	− 0.9946	+ 0.1041
FK3番號	460		461		462		463	

本初子午線正中時

星名	σ Cent		20 Coma		δ Corv		74 UMaj	
等級	4.16		5.72		3.11		5.44	
スペクトル型	B3		A2		A0		A5	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
月 日	12 24	−49 54	12 26	+21 11	12 26	−16 12	12 27	+58 42
	s	″	s	″	s	″	s	″
1 1.2	59.790	53.72	53.586	79.00	57.103	3.53	19.494	37.01
11.2	60.226 436	55.74 202	53.928 342	77.20 180	57.433 330	5.71 218	20.031 537	36.06 95
21.2	60.639 413	58.15 241	54.256 328	75.75 145	57.747 314	7.95 224	20.551 520	35.72 34
31.2	61.015 376	60.87 272	54.560 304	74.68 107	58.036 289	10.18 223	21.038 487	35.99 27
2 10.1	61.346 331	63.82 295	54.832 272	74.01 67	58.293 257	12.33 215	21.476 438	36.86 87
	280	309	232	26	218	202	375	142
20.1	61.626	66.91	55.064	73.75	58.511	14.35	21.851	38.28
3 1.1	61.851 225	70.07 316	55.254 190	73.89 14	58.690 179	16.20 185	22.155 304	40.17 189
11.1	62.020 169	73.23 316	55.400 146	74.38 49	58.827 137	17.86 166	22.381 226	42.45 228
21.0	62.134 114	76.32 309	55.502 102	75.18 80	58.925 98	19.29 143	22.527 146	45.01 256
31.0	62.196 62	79.28 296	55.563 61	76.22 104	58.985 60	20.50 121	22.595 68	47.74 273
	13	276	23	123	26	98	7	279
4 9.9	62.209	82.04	55.586	77.45	59.011	21.48	22.588	50.53
19.9	62.177 32	84.57 253	55.576 10	78.80 135	59.008 3	22.23 75	22.513 75	53.26 273
29.9	62.104 73	86.83 226	55.537 39	80.19 139	58.979 29	22.77 54	22.379 134	55.84 258
5 9.9	61.995 109	88.77 194	55.474 63	81.57 138	58.927 52	23.10 33	22.194 185	58.17 233
19.9	61.855 140	90.36 159	55.392 82	82.88 131	58.857 70	23.24 14	21.968 226	60.17 200
	167	121	96	121	85	6	256	161
29.8	61.688	91.57	55.296	84.09	58.772	23.18	21.712	61.78
6 8.8	61.498 190	92.38 81	55.189 107	85.14 105	58.675 97	22.95 23	21.434 278	62.96 118
18.8	61.290 208	92.77 39	55.074 115	86.01 87	58.569 106	22.56 39	21.144 290	63.68 72
28.8	61.071 219	92.75 2	54.956 118	86.67 66	58.456 113	22.02 54	20.849 295	63.91 23
7 8.7	60.844 227	92.30 45	54.836 120	87.11 44	58.339 117	21.33 69	20.558 291	63.66 25
	226	85	116	21	116	80	278	74
18.7	60.618	91.45	54.720	87.32	58.223	20.53	20.280	62.92
28.7	60.399 219	90.22 123	54.610 110	87.28 4	58.111 112	19.64 89	20.019 261	61.72 120
8 7.6	60.196 203	88.64 158	54.509 101	86.99 29	58.007 104	18.68 96	19.785 234	60.07 165
17.6	60.016 180	86.77 187	54.423 86	86.45 54	57.916 91	17.70 98	19.582 203	58.01 206
27.6	59.869 147	84.67 210	54.356 67	85.65 80	57.844 72	16.73 97	19.419 163	55.57 244
	106	226	44	106	48	91	117	276
9 6.6	59.763	82.41	54.312	84.59	57.796	15.82	19.302	52.81
16.5	59.708 55	80.08 233	54.297 15	83.27 132	57.778 18	15.02 80	19.237 65	49.76 305
26.5	59.709 1	77.78 230	54.317 20	81.70 157	57.796 18	14.38 64	19.230 7	46.48 328
10 6.5	59.773 64	75.59 219	54.374 57	79.89 181	57.854 58	13.96 42	19.288 58	43.03 345
16.5	59.903 130	73.61 198	54.474 100	77.86 203	57.955 101	13.79 17	19.414 126	39.49 354
	197	166	144	222	148	14	197	357
26.4	60.100	71.95	54.618	75.64	58.103	13.93	19.611	35.92
11 5.4	60.362 262	70.68 127	54.807 189	73.27 237	58.295 192	14.39 46	19.880 269	32.41 351
15.4	60.683 321	69.87 81	55.040 233	70.78 249	58.531 236	15.20 81	20.218 338	29.05 336
25.3	61.056 373	69.56 31	55.312 272	68.25 253	58.805 274	16.35 115	20.620 402	25.92 313
12 5.3	61.468 412	69.79 23	55.617 305	65.74 251	59.109 304	17.81 146	21.078 458	23.13 279
	439	77	330	242	327	174	501	239
15.3	61.907	70.56	55.947	63.32	59.436	19.55	21.579	20.74
25.3	62.359 452	71.85 129	56.292 345	61.08 224	59.774 338	21.51 196	22.109 530	18.84 190
35.2	62.807 448	73.62 177	56.641 349	59.08 200	60.112 338	23.65 214	22.651 542	17.50 134
平位	s 60.064	″ 74.40	s 54.490	″ 81.66	s 57.758	″ 13.90	s 20.821	″ 49.16
sec δ, tan δ	+ 1.553	− 1.188	+ 1.073	+ 0.388	+ 1.041	− 0.291	+ 1.926	+ 1.646
2 回正中	3月 29 日		3月 29 日		3月 29 日		3月 29 日	
a b	+ 0.1620	+ 0.0788	+ 0.1503	− 0.0257	+ 0.1556	+ 0.0192	+ 0.1403	− 0.1089
a′ b′	− 0.9941	+ 0.1089	− 0.9931	+ 0.1171	− 0.9931	+ 0.1174	− 0.9929	+ 0.1190
FK3番號	464		466		465		467	

星名	γ Cruc		γ Musc		β CVen		ɛ Drac	
等級	1.61		4.04		4.32		3.88	
スペクトル型	M3		B5		G0		B5p	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 12 28	° ′ −56 47	h m 12 29	° ′ −71 49	h m 12 31	° ′ +41 39	h m 12 31	° ′ +70 5
	s	″	s	″	s	″	s	″
1 1.3	2.596 497	36.80 190	6.16 79	0.67 161	4.105 402	33.01 139	4.44 77	34.49 71
11.2	3.093 470	38.70 235	6.95 75	2.28 215	4.507 388	31.62 88	5.21 74	33.78 7
21.2	3.563 429	41.05 270	7.70 68	4.43 260	4.895 362	30.74 34	5.95 71	33.71 59
31.2	3.992 378	43.75 300	8.38 60	7.03 300	5.257 325	30.40 19	6.66 63	34.30 120
2 10.1	4.370 320	46.75 319	8.98 51	10.03 329	5.582 280	30.59 71	7.29 55	35.50 175
20.1	4.690 258	49.94 332	9.49 41	13.32 351	5.862 228	31.30 117	7.84 44	37.25 223
3 1.1	4.948 195	53.26 336	9.90 29	16.83 364	6.090 173	32.47 157	8.28 44	39.48 260
11.1	5.143 130	56.62 332	10.19 20	20.47 368	6.263 118	34.04 188	8.61 33	42.08 287
21.0	5.273 70	59.94 323	10.39 8	24.15 365	6.381 65	35.92 210	8.82 21	44.95 301
31.0	5.343 12	63.17 306	10.47 1	27.80 353	6.446 15	38.02 223	8.90 3	47.96 302
4 9.9	5.355 42	66.23 284	10.46 12	31.33 335	6.461 30	40.25 226	8.87 14	50.98 292
19.9	5.313 90	69.07 257	10.34 20	34.68 310	6.431 68	42.51 219	8.73 23	53.90 272
29.9	5.223 135	71.64 224	10.14 29	37.78 278	6.363 102	44.70 206	8.50 32	56.62 242
5 9.9	5.088 173	73.88 189	9.85 36	40.56 241	6.261 127	46.76 184	8.18 39	59.04 204
19.9	4.915 209	75.77 149	9.49 43	42.97 199	6.134 148	48.60 157	7.79 44	61.08 160
29.8	4.706 236	77.26 107	9.06 49	44.96 153	5.986 162	50.17 126	7.35 47	62.68 111
6 8.8	4.470 260	78.33 62	8.57 53	46.49 104	5.824 171	51.43 89	6.88 50	63.79 58
18.8	4.210 275	78.95 16	8.04 56	47.53 51	5.653 175	52.32 52	6.38 50	64.37 6
28.8	3.935 284	79.11 30	7.48 58	48.04 2	5.478 175	52.84 14	5.88 50	64.43 47
7 8.7	3.651 285	78.81 75	6.90 57	48.02 54	5.303 169	52.98 27	5.38 48	63.96 100
18.7	3.366 276	78.06 118	6.33 56	47.48 106	5.134 160	52.71 65	4.90 45	62.96 149
28.7	3.090 257	76.88 158	5.77 52	46.42 154	4.974 145	52.06 103	4.45 40	61.47 196
8 7.6	2.833 229	75.30 192	5.25 47	44.88 198	4.829 126	51.03 140	4.05 36	59.51 239
17.6	2.604 190	73.38 220	4.78 39	42.90 234	4.703 102	49.63 175	3.69 29	57.12 277
27.6	2.414 140	71.18 241	4.39 30	40.56 264	4.601 71	47.88 206	3.40 22	54.35 310
9 6.6	2.274 81	68.77 252	4.09 19	37.92 283	4.530 35	45.82 236	3.18 14	51.25
16.5	2.193 14	66.25 253	3.90 7	35.09 293	4.495 6	43.46 262	3.04 5	47.89 336
26.5	2.179 61	63.72 246	3.83 7	32.16 290	4.501 52	40.84 282	2.99 5	44.31 358
10 6.5	2.240 138	61.26 226	3.90 19	29.26 276	4.553 101	38.02 299	3.04 15	40.60 377
16.5	2.378 217	59.00 197	4.09 33	26.50 251	4.654 154	35.03 310	3.19 25	36.83 375
26.4	2.595 292	57.03 158	4.42 46	23.99 215	4.808 207	31.93 313	3.44 36	33.08 363
11 5.4	2.887 362	55.45 113	4.88 57	21.84 170	5.015 259	28.80 311	3.80 46	29.45 344
15.4	3.249 420	54.32 60	5.45 67	20.14 116	5.274 307	25.69 299	4.26 55	26.01 314
25.3	3.669 467	53.72 5	6.12 75	18.98 57	5.581 348	22.70 280	4.81 63	22.87 275
12 5.3	4.136 497	53.67 53	6.87 79	18.41 4	5.929 379	19.90 251	5.44 70	20.12 228
15.3	4.633 512	54.20 108	7.66 82	18.45 67	6.308 399	17.39 215	6.14 75	17.84 174
25.3	5.145 509	55.28 163	8.48 81	19.12 127	6.707 407	15.24 171	6.89 77	16.10 113
35.2	5.654	56.91	9.29	20.39	7.114	13.53	7.66	14.97
平位	s 2.768	″ 59.16	s 5.733	″ 25.69	s 5.199	″ 41.53	s 6.178	″ 48.05
sec δ, tan δ	+ 1.826	− 1.528	+ 3.206	− 3.046	+ 1.339	+ 0.890	+ 2.937	+ 2.762
2回正中	3月30日		3月30日		3月30日		3月30日	
a b	+ 0.1658	+ 0.1011	+ 0.1790	+ 0.2014	+ 0.1453	− 0.0588	+ 0.1284	− 0.1824
a′ b′	− 0.9925	+ 0.1221	− 0.9920	+ 0.1266	− 0.9908	+ 0.1352	− 0.9908	+ 0.1353
FK3番號	468		469		470		472	

星名	β Corv		24 Coma *sq*		α Musc		χ Virg	
等級	2.84		5.18		2.94		4.78	
スペクトル型	G5		K0		B3		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 12 31	° ′ −23 5	h m 12 32	° ′ +18 40	h m 12 33	° ′ −68 49	h m 12 36	° ′ − 7 41
	s	″	s	″	s	″	s	″
1 1.3	25.802 341	1.30 216	18.339 338	64.65 186	49.40 71	12.94 161	20.397 326	8.06 213
11.2	26.143 326	3.46 229	18.677 325	62.79 155	50.11 66	14.55 213	20.723 312	10.19 210
21.2	26.469 299	5.75 236	19.002 303	61.24 119	50.77 61	16.68 258	21.035 290	12.29 200
31.2	26.768 266	8.11 235	19.305 271	60.05 80	51.38 55	19.26 296	21.325 259	14.29 184
2 10.1	27.034 228	10.46 228	19.576 234	59.25 40	51.93 46	22.22 325	21.584 224	16.13 164
20.1	27.262 187	12.74 216	19.810 192	58.85 2	52.39 37	25.47 346	21.808 186	17.77 142
3 1.1	27.449 146	14.90 201	20.002 149	58.83 34	52.76 28	28.93 357	21.994 145	19.19 118
11.1	27.595 104	16.91 181	20.151 107	59.17 65	53.04 19	32.50 361	22.139 107	20.37 93
21.0	27.699 66	18.72 161	20.258 66	59.82 90	53.23 9	36.11 358	22.246 70	21.30 68
31.0	27.765 32	20.33 138	20.324 29	60.72 110	53.32 1	39.69 346	22.316 36	21.98 47
4 9.9	27.797 0	21.71 116	20.353 3	61.82 123	53.33 8	43.15 327	22.352 7	22.45 25
19.9	27.797 28	22.87 92	20.350 32	63.05 129	53.25 15	46.42 303	22.359 19	22.70 7
29.9	27.769 51	23.79 68	20.318 56	64.34 131	53.10 23	49.45 272	22.340 41	22.77 9
5 9.9	27.718 71	24.47 45	20.262 75	65.65 126	52.87 29	52.17 235	22.299 59	22.68 23
19.9	27.647 88	24.92 22	20.187 91	66.91 116	52.58 35	54.52 195	22.240 76	22.45 36
29.8	27.559 103	25.14 0	20.096 101	68.07 105	52.23 40	56.47 150	22.164 87	22.09 45
6 8.8	27.456 113	25.14 23	19.995 110	69.12 88	51.83 44	57.97 100	22.077 98	21.64 54
18.8	27.343 121	24.91 45	19.885 115	70.00 70	51.39 46	58.97 51	21.979 105	21.10 61
28.8	27.222 126	24.46 64	19.770 117	70.70 50	50.93 49	59.48 2	21.874 109	20.49 66
7 8.7	27.096 127	23.82 82	19.653 115	71.20 28	50.44 48	59.46 53	21.765 110	19.83 69
18.7	26.969 124	23.00 99	19.538 111	71.48 6	49.96 47	58.93 103	21.655 108	19.14 70
28.7	26.845 116	22.01 110	19.427 101	71.54 18	49.49 45	57.90 151	21.547 101	18.44 70
8 7.7	26.729 102	20.91 120	19.326 89	71.36 42	49.04 39	56.39 193	21.446 89	17.74 65
17.6	26.627 83	19.71 124	19.237 70	70.94 67	48.65 34	54.46 228	21.357 74	17.09 58
27.6	26.544 58	18.47 122	19.167 48	70.27 91	48.31 26	52.18 258	21.283 51	16.51 47
9 6.6	26.486 25	17.25 116	19.119 20	69.36 118	48.05 17	49.60 276	21.232 23	16.04 32
16.5	26.461 11	16.09 102	19.099 14	68.18 142	47.88 6	46.84 286	21.209 10	15.72 14
26.5	26.472 54	15.07 83	19.113 52	66.76 166	47.82 5	43.98 283	21.219 49	15.58 9
10 6.5	26.526 100	14.24 58	19.165 93	65.10 189	47.87 17	41.15 269	21.268 90	15.67 34
16.5	26.626 148	13.66 27	19.258 138	63.21 210	48.04 28	38.46 244	21.358 135	16.01 62
26.4	26.774 196	13.39 7	19.396 183	61.11 227	48.32 39	36.02 209	21.493 179	16.63 91
11 5.4	26.970 240	13.46 44	19.579 226	58.84 240	48.71 50	33.93 164	21.672 223	17.54 121
15.4	27.210 281	13.90 81	19.805 265	56.44 248	49.21 58	32.29 111	21.895 260	18.75 148
25.4	27.491 313	14.71 119	20.070 299	53.96 247	49.79 66	31.18 54	22.155 293	20.23 172
12 5.3	27.804 336	15.90 153	20.369 325	51.49 241	50.45 69	30.64 7	22.448 316	21.95 193
15.3	28.140 348	17.43 183	20.694 339	49.08 227	51.14 72	30.71 69	22.764 330	23.88 206
25.3	28.488 348	19.26 206	21.033 344	46.81 205	51.86 72	31.40 127	23.094 333	25.94 213
35.2	28.836 348	21.32	21.377	44.76	52.58	32.67	23.427	28.07
平位	s 26.437	″ 14.15	s 19.256	″ 66.36	s 49.265	″ 37.66	s 21.170	″ 15.66
sec δ, tan δ	+ 1.087	− 0.426	+ 1.056	+ 0.338	+ 2.769	− 2.582	+ 1.009	− 0.135
2回正中	3月30日		3月31日		3月31日		4月1日	
a b	+ 0.1572	+ 0.0282	+ 0.1502	− 0.0223	+ 0.1786	+ 0.1702	+ 0.1547	+ 0.0089
a′ b′	− 0.9906	+ 0.1368	− 0.9901	+ 0.1406	− 0.9891	+ 0.1470	− 0.9875	+ 0.1580
FK3番號	471		473		474		475	

星名	† γ Cent *m*		† γ Virg *m*		76 UMaj		330 G. Hyda	
等級	2.38		3.65		5.92		5.73	
スペクトル型	A0		F0	F0	A0		K2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 12 38	° ′ ″ −48 38	h m s 12 38	° ′ ″ − 1 8	h m s 12 39	° ′ ″ +63 0	h m s 12 41	° ′ ″ −28 0
1 1.3	24.593	47.91	48.387	27.80	5.97	60.13	0.363	45.92
11.2	25.027 434	49.81 190	48.711 324	29.90 210	6.57 60	59.12 101	0.716 353	48.01 209
21.2	25.441 414	52.09 228	49.023 312	31.89 199	7.16 59	58.76 36	1.054 338	50.28 227
31.2	25.822 381	54.68 259	49.312 289	33.71 182	7.71 55	59.02 26	1.368 314	52.67 239
2 10.1	26.162 340	57.50 282	49.572 260	35.32 161	8.21 50	59.91 89	1.648 280	55.11 244
	293	298	224	135	44	145	242	241
20.1	26.455	60.48	49.796	36.67	8.65	61.36	1.890	57.52
3 1.1	26.695 240	63.54 306	49.983 187	37.75 108	9.01 36	63.31 195	2.092 202	59.87 235
11.1	26.882 187	66.61 307	50.130 147	38.56 81	9.28 27	65.66 235	2.251 159	62.10 223
21.0	27.016 134	69.62 301	50.238 108	39.09 53	9.47 19	68.32 266	2.369 118	64.16 206
31.0	27.099 83	72.51 289	50.309 71	39.38 29	9.56 9	71.16 284	2.447 78	66.04 188
	36	272	38	6	1	290	42	166
4 9.9	27.135 —	75.23	50.347 8	39.44 13	9.57 —	74.06	2.489 9	67.70
19.9	27.126 9	77.74 251	50.355 18	39.31 29	9.50 7	76.92 286	2.498 20	69.15 145
29.9	27.076 50	79.99 225	50.337 41	39.02 42	9.35 15	79.62 270	2.478 46	70.35 120
5 9.9	26.990 86	81.94 195	50.296 58	38.60 52	9.15 20	82.08 246	2.432 71	71.31 96
19.9	26.871 119	83.56 162	50.238 75	38.08 59	8.89 26	84.20 212	2.363 69	72.02 71
	147	127			30	173	88	46
29.8	26.724	84.83	50.163	37.49	8.59	85.93	2.275	72.48
6 8.8	26.552 172	85.72 89	50.076 87	36.86 63	8.27 32	87.20 127	2.171 104	72.68 20
18.8	26.359 193	86.21 49	49.979 97	36.20 66	7.92 35	88.00 80	2.052 119	72.62 6
28.8	26.152 207	86.29 8	49.876 103	35.54 66	7.57 35	88.29 29	1.924 128	72.31 31
7 8.7	25.935 217	85.97 32	49.768 108	34.89 65	7.21 36	88.08 21	1.788 136	71.75 56
	220	72	109	62	34	73	139	77
18.7	25.715	85.25	49.659	34.27	6.87	87.35	1.649	70.98
28.7	25.499 216	84.16 109	49.552 107	33.70 57	6.55 32	86.14 121	1.512 137	70.00 98
8 7.7	25.294 205	82.72 144	49.452 100	33.21 49	6.25 30	84.47 167	1.383 129	68.84 116
17.6	25.109 185	80.98 174	49.362 90	32.81 40	5.99 26	82.36 211	1.265 118	67.55 129
27.6	24.953 156	79.00 198	49.289 73	32.52 29	5.77 22	79.86 250	1.167 98	66.18 137
	117	214	52	13	17	285	72	141
9 6.6	24.836	76.86	49.237 25	32.39 —	5.60 11	77.01 315	1.095 40	64.77
16.5	24.765 71	74.63 223	49.212 7	32.44 5	5.49 4	73.86 338	1.055 0	63.40 137
26.5	24.748 17	72.40 223	49.219 45	32.69 25	5.45 3	70.48 356	1.055 43	62.13 127
10 6.5	24.793 45	70.26 214	49.264 86	33.17 48	5.48 11	66.92 366	1.098 92	61.02 111
16.5	24.901 108	68.32 194	49.350 130	33.91 74	5.59 18	63.26 369	1.190 142	60.14 88
	176	167		100				58
26.4	25.077	66.65	49.480	34.91	5.77	59.57	1.332	59.56
11 5.4	25.317 240	65.36 129	49.654 174	36.18 127	6.04 27	55.94 363	1.525 193	59.32 24
15.4	25.618 301	64.50 86	49.871 217	37.71 153	6.39 35	52.46 348	1.765 240	59.47 15
25.4	25.973 355	64.13 37	50.126 255	39.46 175	6.82 43	49.23 323	2.048 283	60.01 54
12 5.3	26.369 396	64.27 14	50.414 288	41.40 194	7.31 49	46.33 290	2.366 318	60.95 94
	426	66	312	207	54	248	343	132
15.3	26.795	64.93	50.726	43.47	7.85	43.85	2.709	62.27
25.3	27.237 442	66.11 118	51.052 326	45.62 215	8.43 58	41.88 197	3.067 358	63.93 166
35.2	27.680 443	67.75 164	51.382 330	47.76 214	9.03 60	40.48 140	3.426 359	65.88 195
平位	s 25.037	″ 68.61	s 49.215	″ 33.12	s 7.514	″ 72.66	s 1.032	″ 60.63
sec δ, tan δ	+ 1.514	− 1.136	+ 1.000	− 0.020	+ 2.204	+ 1.964	+ 1.133	− 0.532
2回正中	4月1日		4月1日		4月1日		4月2日	
a b	+ 0.1660	+ 0.0747	+ 0.1536	+ 0.0013	+ 0.1311	− 0.1291	+ 0.1596	+ 0.0349
a′ b′	− 0.9860	+ 0.1668	− 0.9857	+ 0.1686	− 0.9855	+ 0.1699	− 0.9840	+ 0.1780
FK3番號	476		477		478		479	

星名	† β Musc *m*		β Cruc.		150 G. Cent		ε UMaj	
等級	3.26		1.50		4.34		1.68	
スペクトル型	B3		B1		A5		A0p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 12 42	° ′ ″ −67 47	h m s 12 44	° ′ ″ −59 22	h m s 12 50	° ′ ″ −39 52	h m s 12 51	° ′ ″ +56 15
1 1.3	49.34	42.01	25.664	34.98	18.924	10.13	32.789	37.39
11.2	50.02 68	43.52 151	26.200 536	36.63 165	19.317 393	12.02 189	33.294 505	36.07 132
21.2	50.68 66	45.55 203	26.712 512	38.76 213	19.694 377	14.23 221	33.793 499	35.36 71
31.2	51.28 60	48.04 249	27.186 474	41.28 252	20.046 352	16.68 245	34.268 475	35.27 9
2 10.2	51.82 54	50.90 286	27.610 424	44.13 285	20.363 317	19.29 261	34.703 435	35.79 52
	47	317	367	310	276	271	383	109
20.1	52.29	54.07	27.977	47.23	20.639	22.00	35.086	36.88
3 1.1	52.67 38	57.45 338	28.280 303	50.48 325	20.871 232	24.74 274	35.407 321	38.50 162
11.1	52.96 29	60.97 352	28.518 238	53.83 335	21.057 186	27.45 271	35.660 253	40.55 205
21.0	53.17 21	64.53 356	28.689 171	57.17 334	21.197 140	30.06 261	35.840 180	42.95 240
31.0	53.29 12	68.07 354	28.795 106	60.46 329	21.293 96	32.54 248	35.948 108	45.58 263
	4	343	44	316	54	230	38	275
4 9.9	53.33 —	71.50	28.839 14	63.62	21.347 17	34.84	35.986 27	48.33
19.9	53.28 5	74.77 327	28.825 14	66.60 298	21.364 19	36.94 210	35.959 85	51.08 275
29.9	53.16 12	77.81 304	28.755 70	69.33 273	21.345 50	38.79 185	35.874 136	53.75 267
5 9.9	52.97 19	80.55 274	28.634 121	71.77 244	21.295 79	40.38 159	35.738 179	56.22 247
19.9	52.72 25	82.94 239	28.468 166	73.87 210	21.216 104	41.68 130	35.559 214	58.41 219
	32	200	208	172		100		185
29.9	52.40	84.94	28.260	75.59	21.112	42.68	35.345	60.26
6 8.8	52.04 36	86.50 156	28.017 243	76.89 130	20.986 126	43.35 67	35.104 241	61.72 146
18.8	51.64 40	87.59 109	27.744 273	77.75 86	20.841 145	43.68 33	34.845 259	62.73 101
28.8	51.20 44	88.18 59	27.449 295	78.16 41	20.681 160	43.68 0	34.575 270	63.28 55
7 8.7	50.75 45	88.26 8	27.139 310	78.09 7	20.511 170	43.34 34	34.302 273	63.35 7
	46	44	315	54	175	67	270	42
18.7	50.29	87.82	26.824	77.55	20.336	42.67	34.032	62.93
28.7	49.84 45	86.89 93	26.512 312	76.56 99	20.160 176	41.70 97	33.772 260	62.04 89
8 7.7	49.41 43	85.49 140	26.216 296	75.15 141	19.992 168	40.44 126	33.530 242	60.70 134
17.6	49.02 39	83.65 184	25.947 269	73.36 179	19.837 155	38.94 150	33.311 219	58.91 179
27.6	48.69 33	81.45 220	25.716 231	71.25 211	19.704 133	37.26 168	33.125 186	56.73 218
	27	249	181	236	103	180	148	255
9 6.6	48.42 17	78.96 270	25.535 119	68.89 251	19.601 65	35.46 186	32.977 102	54.18 287
16.6	48.25 8	76.26 281	25.416 48	66.38 259	19.536 20	33.60 184	32.875 49	51.31 315
26.5	48.17 2	73.45 280	25.368 31	63.79 254	19.516 31	31.76 172	32.826 11	48.16 335
10 6.5	48.19 14	70.65 280	25.399 115	61.25 240	19.547 87	30.04 153	32.837 74	44.81 351
16.5	48.33 26	67.97 268	25.514 201	58.85 216	19.634 145	28.51 127	32.911 143	41.30 359
26.4	48.59	65.51	25.715	56.69	19.779	27.24	33.054	37.71
11 5.4	48.95 36	63.40 211	25.999 284	54.89 180	19.983 204	26.32 92	33.267 213	34.13 358
15.4	49.41 46	61.72 168	26.360 361	53.51 138	20.241 258	25.81 51	33.550 283	30.63 350
25.4	49.96 55	60.54 118	26.788 428	52.64 87	20.549 308	25.73 8	33.897 347	27.32 331
12 5.3	50.58 62	59.93 61	27.271 483	52.31 33	20.897 348	26.12 39	34.302 405	24.28 304
	67	1	520	24	377	85	452	267
15.3	51.25	59.92 —	27.791	52.55	21.274	26.97	34.754	21.61
25.3	51.94 69	60.51 59	28.333 542	53.36 81	21.669 395	28.26 129	35.242 488	19.39 222
35.3	52.63 69	61.69 118	28.877 544	54.71 135	22.067 398	29.95 169	35.748 506	17.70 169
平位	s 49.434	″ 66.76	s 26.012	″ 58.25	s 19.580	″ 28.67	s 34.259	″ 48.53
sec δ, tan δ	+ 2.647	− 2.451	+ 1.964	− 1.690	+ 1.303	− 0.835	+ 1.801	+ 1.497
2回正中	4月2日		4月3日		4月4日		4月4日	
a b	+ 0.1837	+ 0.1605	+ 0.1750	+ 0.1105	+ 0.1655	+ 0.0544	+ 0.1311	− 0.0973
a′ b′	− 0.9826	+ 0.1858	− 0.9813	+ 0.1927	− 0.9760	+ 0.2178	− 0.9748	+ 0.2231
FK3番號	480		481		482		483	

本初子午線正中時

星名 / 等級 / スペクトル型	δ Virg 3.66 M0		8 Drac 5.27 F0		α CVen *sq* 2.90 A0p		δ Musc 3.63 K2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 12 52	° ′ +3 41	h m 12 53	° ′ +65 43	h m 12 53	° ′ +38 36	h m 12 58	° ′ −71 14
	s	″	s	″	s	″	s	″
1 1.3	45.914 326	68.90 208	13.33 65	78.25 112	23.438 388	66.23 168	22.95 80	25.06 123
11.2	46.240 316	66.82 192	13.98 64	77.13 48	23.826 381	64.55 120	23.75 77	26.29 177
21.2	46.556 297	64.90 171	14.62 61	76.65 17	24.207 361	63.35 67	24.52 72	28.06 227
31.2	46.853 269	63.19 145	15.23 57	76.82 80	24.568 330	62.68 13	25.24 66	30.33 268
2 10.2	47.122 236	61.74 115	15.80 49	77.62 139	24.898 290	62.55 39	25.90 58	33.01 302
20.1	47.358 200	60.59 85	16.29 42	79.01 192	25.188 245	62.94 88	26.28 48	36.03 330
3 1.1	47.558 161	59.74 54	16.71 33	80.93 235	25.433 195	63.82 131	26.96 39	39.33 346
11.1	47.719 122	59.20 25	17.04 23	83.28 267	25.628 144	65.13 166	27.35 29	42.79 346
21.0	47.841 85	58.95 1	17.27 13	85.95 289	25.772 94	66.79 193	27.64 19	46.36 357
31.0	47.926 52	58.96 24	17.40 3	88.84 297	25.863 47	68.72 212	27.83 9	49.94 358 353
9.9	47.978 21	59.20	17.43 −6	91.81 295	25.913 −3	70.84 219	27.92 −1	53.47
4 19.9	47.999 −7	59.62 42	17.37 14	94.76 282	25.916 36	73.03 219	27.91 10	56.87 340
29.9	47.992 30	60.19 57	17.23 21	97.58 257	25.880 69	75.22 210	27.81 19	60.07 320
5 9.9	47.962 50	60.86 67	17.02 27	100.15 226	25.811 98	77.32 193	27.62 27	63.02 295
19.9	47.912 67	61.60 74 77	16.75 33	102.41 186	25.713 121	79.25 171	27.35 35	65.64 262 225
29.9	47.845 82	62.37 78	16.42 36	104.27 141	25.592 139	80.96 142	27.00 41	67.89 183
6 8.8	47.763 93	63.15 75	16.06 38	105.68 93	25.453 153	82.38 110	26.59 46	69.72 136
18.8	47.670 102	63.90 70	15.68 41	106.61 42	25.300 162	83.48 75	26.13 51	71.08 87
28.8	47.568 109	64.60 65	15.27 40	107.03 10	25.138 166	84.23 38	25.62 55	71.95 35
7 8.7	47.459 111	65.25 56	14.87 40	106.93 62	24.972 166	84.61 0	25.07 55	72.30 17
18.7	47.348	65.81	14.47 39	106.31 113	24.806 162	84.61 −38	24.52 55	72.13
28.7	47.237 111	66.27 46	14.08 36	105.18 161	24.644 153	84.23 77	23.97 53	71.43 70
8 7.7	47.130 107	66.62 35	13.72 32	103.57 206	24.491 139	83.46 113	23.44 50	70.24 119
17.6	47.033 97	66.82 20	13.40 28	101.51 247	24.352 118	82.33 149	22.94 43	68.58 166
27.6	46.949 84 63	66.88 −6 −12	13.12 22	99.04 284	24.234 93	80.84 183	22.51 35	66.52 206 241
9 6.6	46.886	66.76	12.90 16	96.20 316	24.141 61	79.01 215	22.16 26	64.11 266
16.6	46.849 37	66.43 33	12.74 9	93.04 342	24.080 22	76.86 243	21.90 14	61.45 282
26.5	46.842 −7	65.89 54	12.65 1	89.62 360	24.058 −21	74.43 268	21.76 −2	58.63 287
10 6.5	46.873 31	65.12 77	12.64 −7	86.02 373	24.079 68	71.75 288	21.74 −11	55.76 280
16.5	46.944 71 116	64.09 103 128	12.71 16	82.29 376	24.147 121	68.87 303	21.85 25	52.96 262
26.4	47.060 161	62.81 152	12.87 26	78.53 372	24.268 173	65.84 312	22.10 37	50.34 233
11 5.4	47.221 204	61.29 176	13.13 34	74.81 359	24.441 226	62.72 315	22.47 50	48.01 194
15.4	47.425 244	59.53 194	13.47 43	71.22 335	24.667 276	59.57 308	22.97 61	46.07 145
25.4	47.669 280	57.59 210	13.90 51	67.87 302	24.943 318	56.49 293	23.58 69	44.62 91
12 5.3	47.949 306	55.49 218	14.41 57	64.85 261	25.261 354	53.56 270	24.27 76	43.71 33
15.3	48.255 323	53.31 221	14.98 61	62.24 210	25.615 378	50.86 239	25.03 79	43.38 −29
25.3	48.578 330	51.10 216	15.59 65	60.14 153	25.993 390	48.47 198	25.82 81	43.67 88
35.3	48.908	48.94	16.24	58.61	26.383	46.49	26.63	44.55
平位	s 46.852	″ 65.00	s 15.114	″ 90.79	s 24.644	″ 73.42	s 23.265	″ 50.57
sec δ, tan δ	+ 1.002	+ 0.065	+ 2.434	+ 2.219	+ 1.280	+ 0.799	+ 3.111	− 2.945
2回正中	4月5日		4月5日		4月5日		4月6日	
a b	+ 0.1523	− 0.0042	+ 0.1193	− 0.1440	+ 0.1410	− 0.0518	+ 0.2028	+ 0.1900
a′ b′	− 0.9736	+ 0.2283	− 0.9731	+ 0.2303	− 0.9730	+ 0.2309	− 0.9677	+ 0.2520
FK3番號	484		486		485		487	

本初子午線正中時

星名 / 等級 / スペクトル型	ε Virg 2.95 K0		ξ² Cent 4.40 B3		ϑ Virg 4.44 A0		17 CVen 6.04 F0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 12 59	° ′ +11 15	h m 13 3	° ′ −49 36	h m 13 7	° ′ −5 14	h m 13 7	° ′ +38 47
	s	″	s	″	s	″	s	″
1 1.3	22.274 330	36.46 204	37.004 450	2.74 161	1.859 328	18.35 208	27.735 387	39.01 181
11.2	22.604 323	34.42 182	37.454 435	4.35 201	2.187 319	20.43 203	28.122 384	37.20 132
21.2	22.927 304	32.60 152	37.889 409	6.36 235	2.506 303	22.46 203	28.506 366	35.88 79
31.2	23.231 278	31.08 119	38.298 409	8.71 261	2.809 277	24.37 191	28.872 339	35.09 25
2 10.2	23.509 245	29.89 84	38.671 373 328	11.32 281	3.086 246	26.12 175 152	29.211 302	34.84 30
20.1	23.754 209	29.05 48	38.999 281	14.13 293	3.332 211	27.64 129	29.513 259	35.14
3 1.1	23.963 170	28.57 13	39.280 229	17.06 297	3.543 174	28.93 103	29.772 211	35.93 79
11.1	24.133 130	28.44 19	39.509 177	20.03 296	3.717 137	29.96 77	29.983 161	37.18 125
21.1	24.263 93	28.63 46	39.686 127	22.99 289	3.854 102	30.73 52	30.144 111	38.80 162
31.0	24.356 57	29.09 69	39.813 78	25.88 276	3.956 68	31.25 30	30.255 64	40.72 192 213
10.0	24.413 26	29.78 87	39.891 31	28.64 258	4.024 37	31.55 10	30.319 20	42.85 223
4 19.9	24.439 −3	30.65 98	39.922 11	31.22 236	4.061 10	31.65 −8	30.339 20	45.08 224
29.9	24.436 28	31.63 106	39.911 52	33.58 211	4.071 −15	31.57 23	30.319 56	47.32 218
5 9.9	24.408 50	32.69 107	39.859 89	35.69 181	4.056 36	31.34 34	30.263 85	49.50 202
19.9	24.358 67	33.76 105	39.770 123	37.50 148	4.020 55	31.00 44	30.178 112	51.52 181
29.9	24.291 83	34.81	39.647 153	38.98 113	3.965 72	30.56 51	30.066 132	53.33
6 8.8	24.208 95	35.80 99	39.494 179	40.11 74	3.893 87	30.05 56	29.934 149	54.87 154
18.8	24.113 106	36.70 90	39.315 201	40.85 36	3.806 98	29.49 61	29.785 160	56.09 122
28.8	24.007 112	37.48 78	39.114 217	41.21 −5	3.708 107	28.88 62	29.625 169	56.96 87
7 8.8	23.895 115	38.13 65 49	38.897 226	41.16 44	3.601 113	28.26 62	29.456 171	57.46 50 12
18.7	23.780 115	38.62	38.671 230	40.72 84	3.488 116	27.64 61	29.285 169	57.58 −28
28.7	23.665 112	38.94 32	38.441 223	39.88 119	3.372 113	27.03 57	29.116 163	57.30 67
8 7.7	23.553 103	39.07 −13	38.218 209	38.69 152	3.259 107	26.46 51	28.953 151	56.63 105
17.6	23.450 90	39.00 7	38.009 184	37.17 180	3.152 94	25.95 42	28.802 133	55.58 142
27.6	23.360 69	38.73 27 50	37.825 150	35.37 201	3.058 75	25.53 31	28.669 109	54.16 177
9 6.6	23.291 45	38.23	37.675 105	33.36 214	2.983 51	25.22 16	28.560 78	52.39
16.6	23.246 −14	37.50 73	37.570 53	31.22 220	2.932 19	25.06 −2	28.482 41	50.29 210
26.5	23.232 24	36.53 97	37.517 9	29.02 215	2.913 −18	25.08 24	28.441 2	47.89 240
10 6.5	23.256 63	35.30 123	37.526 74	26.87 202	2.931 59	25.32 47	28.443 50	45.23 266
16.5	23.319 109	33.84 146 171	37.600 143	24.85 179	2.990 104	25.79 73	28.493 101	42.34 289 305
26.5	23.428 154	32.13 193	37.743 213	23.06 148	3.094 151	26.52 100	28.594 156	39.29
11 5.4	23.582 199	30.20 211	37.956 278	21.58 108	3.245 195	27.52 128	28.750 210	36.13 316
15.4	23.781 240	28.09 226	38.234 336	20.50 63	3.440 238	28.80 152	28.960 260	32.93 320
25.4	24.021 277	25.83 234	38.570 386	19.87 14	3.678 274	30.32 175	29.220 307	29.78 315
12 5.3	24.298 305	23.49 236	38.956 423	19.73 37	3.952 303	32.07 193	29.527 344	26.76 302 281
15.3	24.603 324	21.13 231	39.379 446	20.10 87	4.255 321	34.00 204	29.871 372	23.95
25.3	24.927 333	18.82 218	39.825 454	20.97 135	4.576 331	36.04 210	30.243 387	21.45 250
35.3	25.260	16.64	40.279	22.32	4.907	38.14	30.630	19.33 212
平位	s 23.295	″ 35.06	s 37.722	″ 24.10	s 2.834	″ 25.70	s 29.027	″ 45.87
sec δ, tan δ	+ 1.020	+ 0.199	+ 1.543	− 1.175	+ 1.004	− 0.092	+ 1.283	+ 0.804
2回正中	4月6日		4月8日		4月8日		4月8日	
a b	+ 0.1499	− 0.0128	+ 0.1748	+ 0.0754	+ 0.1551	+ 0.0059	+ 0.1378	− 0.0513
a′ b′	− 0.9666	+ 0.2562	− 0.9617	+ 0.2741	− 0.9575	+ 0.2884	− 0.9570	+ 0.2902
FK3番號	488		489		490		491	

本初子午線正中時

星名	β Coma		η Musc		20 CVen		γ Hyda	
等級	4.32		4.95		4.66		3.33	
スペクトル型	G0		B8		F0		G5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 13 9	° ′ +28 9	h m 13 11	° ′ −67 35	h m 13 15	° ′ +40 51	h m 13 15	° ′ −22 52
	s	″	s	″	s	″	s	″
1 1.3	14.465	37.54	24.92	29.14	0.656	53.85	51.360	22.35
	14.818 353	35.62 192	25.61 69	30.27 113	1.050 394	52.00 185	51.707 347	24.26 191
11.3	15.166 348	34.10 152	26.29 68	31.93 166	1.443 393	50.66 134	52.047 340	26.32 206
21.2	15.499 333	33.02 108	26.93 64	34.07 214	1.820 377	49.86 80	52.369 322	28.46 214
31.2	15.805 306	32.42 60	27.52 59	36.62 255	2.171 351	49.62 24	52.665 296	30.62 216
2 10.2	272	12	52	289	315	31	265	211
20.1	16.077	32.30	28.04	39.51	2.486	49.93	52.930	32.73
3 1.1	16.311 234	32.65 35	28.49 45	42.66 315	2.757 271	50.76 83	53.159 229	34.75 202
11.1	16.502 191	33.41 76	28.86 37	45.99 333	2.981 224	52.06 130	53.351 192	36.64 189
21.1	16.650 148	34.55 114	29.15 29	49.42 343	3.154 173	53.75 169	53.505 154	38.36 172
31.0	16.754 104	35.98 143	29.35 20	52.88 346	3.276 122	55.75 200	53.622 117	39.91 155
	64	165	12	341	74	221	82	135
4 10.0	16.818 26	37.63	29.47 4	56.29	3.350 27	57.96 232	53.704 49	41.26 115
19.9	16.844 9	39.42 179	29.51 4	59.59 330	3.377 15	60.28 235	53.753 20	42.41 95
29.9	16.835 38	41.28 186	29.47 12	62.71 312	3.362 52	62.63 227	53.773 8	43.36 75
5 9.9	16.797 64	43.12 184	29.35 18	65.60 289	3.310 85	64.90 212	53.765 32	44.11 55
19.9	16.733 86	44.87 175	29.17 26	68.18 258	3.225 113	67.02 190	53.733 55	44.66 35
		161		223				
29.9	16.647	46.48	28.91	70.41	3.112	68.92	53.678	45.01
6 8.8	16.542 105	47.90 142	28.60 31	72.25 184	2.976 136	70.54 162	53.602 76	45.16 15
18.8	16.423 119	49.08 118	28.24 36	73.64 139	2.822 154	71.83 129	53.509 93	45.12 4
28.8	16.293 130	50.00 92	27.84 40	74.57 93	2.654 168	72.76 93	53.400 109	44.89 23
7 8.8	16.155 138	50.62 62	27.41 43	75.00 43	2.477 177	73.31 55	53.279 121	44.48 41
	142	32	45	7	182	14	130	58
18.7	16.013	50.94	26.96	74.93	2.295	73.45 26	53.149	43.90
28.7	15.871 142	50.94 0	26.50 46	74.35 58	2.114 181	73.19 68	53.014 135	43.16 74
8 7.7	15.734 137	50.61 33	26.05 45	73.29 106	1.939 175	72.51 106	52.880 134	42.29 87
17.7	15.606 128	49.96 65	25.64 41	71.77 152	1.775 164	71.45 146	52.752 128	41.32 97
27.6	15.493 113	49.00 96	25.26 38	69.85 192	1.628 147	69.99 181	52.637 115	40.29 103
	93	128	31	227	122		95	106
9 6.6	15.400 65	47.72 158	24.95 24	67.58 252	1.506 92	68.18 216	52.542 68	39.23 102
16.6	15.335 32	46.14 187	24.71 14	65.03 270	1.414 54	66.02 247	52.474 33	38.21 95
26.5	15.303 7	44.27 213	24.57 4	62.36 275	1.360 11	63.55 274	52.441 8	37.26 80
10 6.5	15.310 50	42.14 237	24.53 4	59.61 271	1.349 38	60.81 297	52.449 53	36.46 60
16.5	15.360 98	39.77 257	24.60 7	56.90 255	1.387 91	57.84 313	52.502 103	35.86 36
			18					
26.5	15.458	37.20	24.78	54.35 228	1.478 148	54.71 325	52.605 153	35.50
11 5.4	15.605 147	34.47 273	25.08 30	52.07 191	1.626 203	51.46 328	52.758 203	35.45 5
15.4	15.801 196	31.65 282	25.49 41	50.16 145	1.829 256	48.18 324	52.961 248	35.72 27
25.4	16.043 242	28.80 285	25.99 50	48.71 93	2.085 304	44.94 310	53.209 289	36.33 61
12 5.4	16.327 284	26.00 280	26.57 58	47.78 37	2.389 345	41.84 287	53.498 318	37.28 95
	317	267	64					128
15.3	16.644	23.33	27.21	47.41	2.734	38.97	53.816	38.56
25.3	16.985 341	20.87 246	27.90 69	47.63 22	3.109 375	36.41 256	54.156 340	40.14 158
35.3	17.339 354	18.70 217	28.59 69	48.43 80	3.501 392	34.26 215	54.505 349	41.95 181

平位	s 15.652	″ 41.42	s 25.593	″ 54.22	s 2.019	″ 61.04	s 52.317	″ 35.94
sec δ, tan δ	+ 1.134	+ 0.535	+ 2.624	− 2.426	+ 1.322	+ 0.865	+ 1.085	− 0.422
2 回正中	4月 9日		4月 9日		4月 10日		4月 11日	
a b	+ 0.1427	− 0.0341	+ 0.2029	+ 0.1539	+ 0.1348	− 0.0546	+ 0.1625	+ 0.0266
a′ b′	− 0.9547	+ 0.2976	− 0.9518	+ 0.3066	− 0.9469	+ 0.3216	− 0.9457	+ 0.3250
FK3番號	492		493		494		495	

1944 本初子午線正中時

星名	ι Cent		ζ UMaj *pr*		α Virg		Grb 2001 UMin	
等級	2.91		2.40		1.21		6.07	
スペクトル型	A2		A2p		B2		K5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 13 17	° ′ −36 24	h m 13 21	° ′ +55 12	h m 13 22	° ′ −10 52	h m 13 24	° ′ +72 40
	s	″	s	″	s	″	s	″
1 1.3	25.520	44.90	38.754	52.28	13.300	1.06	39.57	42.68
	25.902 382	46.60 170	39.240 486	50.58 170	13.630 330	3.07 201	40.40 83	41.29 139
11.3	26.277 375	48.59 199	39.729 489	49.48 110	13.956 326	5.09 202	41.25 85	40.55 74
21.2	26.631 354	50.80 221	40.204 475	49.00 48	14.266 310	7.07 198	42.08 83	40.49 6
31.2	26.958 327	53.17 237	40.650 446	49.15 15	14.553 287	8.94 187	42.87 79	41.09 60
2 10.2	292	246	403	76	258	171	71	122
20.1	27.250	55.63	41.053	49.91	14.811	10.65	43.58	42.31
3 1.1	27.503 253	58.11 248	41.403 350	51.24 133	15.036 225	12.17 152	44.20 62	44.11 180
11.1	27.715 212	60.56 245	41.692 289	53.05 181	15.225 189	13.47 130	44.72 52	46.39 228
21.1	27.884 169	62.93 237	41.915 223	55.28 223	15.379 154	14.54 107	45.10 38	49.06 267
31.0	28.013 129	65.19 226	42.070 155	57.80 252	15.497 118	15.39 85	45.36 26	51.99 293
	89	211	88	272	85	62	12	308
4 10.0	28.102	67.30	42.158	60.52	15.582	16.01	45.48	55.07
19.9	28.155 53	69.22 192	42.181 23	63.31 279	15.636 54	16.44 43	45.47 1	58.17 310
29.9	28.172 17	70.93 171	42.145 36	66.08 277	15.661 25	16.68 24	45.34 13	61.17 300
5 9.9	28.158 14	72.42 149	42.055 90	68.73 265	15.661 0	16.76 8	45.09 25	63.98 281
19.9	28.114 44	73.67 125	41.917 138	71.14 241	15.638 23	16.70 6	44.75 34	66.50 252
	72	98	178	213	46	20	43	214
29.9	28.042 96	74.65 71	41.739 211	73.27 176	15.592 64	16.50 30	44.32 50	68.64 170
6 8.8	27.946 119	75.36 41	41.528 237	75.03 134	15.528 81	16.20 40	43.82 56	70.34 122
18.8	27.827 137	75.77 12	41.291 257	76.37 90	15.447 95	15.80 47	43.26 59	71.56 70
28.8	27.690 153	75.89 17	41.034 269	77.27 43	15.352 108	15.33 47	42.67 61	72.26 16
7 8.8	27.537 163	75.72 46	40.765 274	77.70 5	15.244 117	14.78 55 60	42.06 62	72.42 37
18.7	27.374 169	75.26	40.491	77.65	15.127 121	14.18 64	41.44 61	72.05
28.7	27.205 168	74.51 75	40.219 272	77.11 54	15.006 123	13.54 65	40.83 58	71.14 91
8 7.7	27.037 168	73.51 100	39.956 263	76.09 102	14.883 123	12.89 65	40.25 55	69.71 143
17.7	26.876 161	72.29 122	39.709 247	74.62 147	14.766 117	12.25 64	39.70 49	67.81 190
27.6	26.731 145	70.88 141	39.487 222	72.72 190	14.659 107	11.64 61	39.21 43	65.45 236
	120	154	190	231	90	54		277
9 6.6	26.611 89	69.34 160	39.297 150	70.41 268	14.569 65	11.10	38.78 34	62.68 312
16.6	26.522 48	67.74 160	39.147 102	67.73 299	14.504 35	10.67 29	38.44 26	59.56 341
26.5	26.474 0	66.14 153	39.045 45	64.74 325	14.469 3	10.38 10	38.18 15	56.15 364
10 6.5	26.474 52	64.61 137	39.000 16	61.49 346	14.472 45	10.28 11	38.03 4	52.51 380
16.5	26.526 109	63.24 114	39.016 84	58.03 360	14.517 90	10.39 37	37.99 8	48.71 388
26.5	26.635	62.10	39.100	54.43	14.607	10.76	38.07	44.83
11 5.4	26.802 167	61.26 84	39.254 154	50.78 365	14.746 139	11.41 65	38.28 21	40.96 387
15.4	27.024 222	60.77 49	39.479 225	47.16 362	14.932 186	12.34 93	38.61 33	37.20 376
25.4	27.298 274	60.68 9	39.773 294	43.65 351	15.162 230	13.55 121	39.07 46	33.64 356
12 5.4	27.615 317	61.00 32	40.129 356	40.37 328	15.430 268	15.02 147	39.64 57	30.38 326
	352	75	411	296	300	170	67	285
15.3	27.967	61.75	40.540	37.41	15.730	16.72	40.31	27.53
25.3	28.341 374	62.89 114	40.992 452	34.85 256	16.051 321	18.59 187	41.07 76	25.16 237
35.3	28.726 385	64.41 152	41.472 480	32.79 206	16.383 332	20.58 199	41.88 81	23.37 179

平位	s 26.440	″ 62.78	s 40.424	″ 62.36	s 14.344	″ 10.62	s 42.182	″ 54.95
sec δ, tan δ	+ 1.243	− 0.738	+ 1.753	+ 1.440	+ 1.018	− 0.192	+ 3.359	+ 3.207
2 回正中	4月 11日		4月 12日		4月 12日		4月 13日	
a b	+ 0.1696	+ 0.0464	+ 0.1198	− 0.0900	+ 0.1578	+ 0.0120	+ 0.0761	− 0.1994
a′ b′	− 0.9435	+ 0.3315	− 0.9372	+ 0.3489	− 0.9363	+ 0.3512	− 0.9325	+ 0.3612
FK3番號	496		497		498		499	

本初子午線正中時

星名	69 H. UMaj				ζ Virg				17 H. CVen				49 G. Cham			
等級	5.41				3.44				4.96				6.44			
スペクトル型	A0				A2				F0				A0			
世界時	赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月 日	h m 13 26		° ′ +60 13		h m 13 31		° ′ −0 18		h m 13 32		° ′ +37 27		h m 13 34		° ′ −75 23	
	s		″		s		″		s		″		s		″	
1 1.3	22.04		53.58	166	49.074	324	31.04	208	16.426	376	61.60	204	19.94	101	30.92	62
11.3	22.58	54	51.92	105	49.398	322	33.12	197	16.802	379	59.56	157	20.95	101	31.54	119
21.2	23.13	55	50.87	40	49.720	322	35.09	182	17.181	368	57.99	105	21.96	96	32.73	173
31.2	23.66	53	50.47	25	50.029	309	36.91	159	17.549	345	56.94	50	22.92	91	34.46	173
2 10.2	24.16	50	50.72	86	50.317	288	38.50	134	17.894	315	56.44	4	23.83	82	36.66	220
		46				260										262
20.2	24.62		51.58		50.577		39.84		18.209		56.48		24.65		39.28	
3 1.1	25.02	40	53.03	145	50.807	230	40.90	106	18.485	276	57.05	57	25.38	73	42.24	296
11.1	25.35	33	54.98	195	51.002	195	41.67	77	18.719	234	58.11	106	25.99	61	45.47	323
21.1	25.61	26	57.33	235	51.161	159	42.15	48	18.905	186	59.58	147	26.49	50	48.88	341
31.0	25.78	17	59.99	266	51.286	125	42.37	22	19.045	140	61.38	180	26.87	38	52.40	352
		10		285		92		2		94		206		26		355
4 10.0	25.88		62.84		51.378		42.35		19.139		63.44		27.13		55.95	
19.9	25.91	3	65.77	293	51.438	60	42.12	23	19.189	50	65.65	221	27.25	12	59.47	352
29.9	25.86	5	68.65	288	51.471	33	41.73	39	19.199	10	67.92	227	27.26	1	62.87	340
5 9.9	25.75	11	71.39	274	51.476	5	41.21	52	19.172	27	70.17	225	27.14	12	66.09	322
19.9	25.58	17	73.90	251	51.459	17	40.60	61	19.113	59	72.30	213	26.90	24	69.07	298
		21		219		40		66		89		195		35		266
29.9	25.37		76.09		51.419		39.94		19.024		74.25		26.55		71.73	
6 8.9	25.11	26	77.89	180	51.360	59	39.24	70	18.911	113	75.96	171	26.11	44	74.02	229
18.8	24.83	28	79.27	138	51.284	76	38.53	71	18.777	134	77.38	142	25.57	54	75.90	188
28.8	24.51	32	80.17	90	51.192	92	37.84	69	18.627	150	78.46	108	24.95	62	77.30	140
7 8.8	24.19	32	80.58	41	51.088	104	37.19	65	18.464	163	79.19	73	24.27	68	78.21	91
		33		10		114		60		171		35		72		37
18.7	23.86		80.48		50.974		36.59		18.293		79.54		23.55		78.58	
28.7	23.53	33	79.88	60	50.854	120	36.05	54	18.118	175	79.49	5	22.81	74	78.42	16
8 7.7	23.21	32	78.79	109	50.732	122	35.61	44	17.945	173	79.06	43	22.08	73	77.73	69
17.7	22.91	30	77.22	157	50.614	118	35.27	34	17.780	165	78.23	83	21.38	70	76.52	121
27.6	22.63	28	75.20	202	50.505	109	35.05	22	17.628	152	77.02	121	20.73	65	74.84	168
		23		242		94		7		132		158		56		210
9 6.6	22.40		72.78		50.411		34.98		17.496		75.44		20.17		72.74	
16.6	22.21	19	69.98	280	50.339	72	35.09	11	17.391	105	73.51	193	19.72	45	70.29	245
26.6	22.07	14	66.86	312	50.296	43	35.39	30	17.321	70	71.25	226	19.40	32	67.58	271
10 6.5	22.00	7	63.48	338	50.289	7	35.90	51	17.291	30	68.71	254	19.23	17	64.72	286
16.5	22.00	0	59.90	358	50.322	33	36.66	76	17.308	17	65.91	280	19.22	1	61.81	291
		7		371		77		100		68		300		17		283
26.5	22.07		56.19		50.399		37.66		17.376		62.91		19.39		58.98	
11 5.4	22.22	15	52.44	375	50.523	124	38.92	126	17.499	123	59.76	315	19.73	34	56.33	265
15.4	22.46	24	48.73	371	50.695	172	40.42	150	17.677	178	56.54	322	20.23	50	53.99	234
25.4	22.77	31	45.16	357	50.910	215	42.14	172	17.907	230	53.32	322	20.89	66	52.04	195
12 5.4	23.15	38	41.84	332	51.165	255	44.05	191	18.186	279	50.18	314	21.67	78	50.58	146
		45		299		288		205		321		295		89		91
15.3	23.60		38.85		51.453		46.10		18.507		47.23		22.56		49.67	
25.3	24.10	50	36.29	256	51.763	310	48.22	212	18.860	353	44.55	268	23.52	96	49.34	33
35.3	24.63	53	34.25	204	52.087	324	50.35	213	19.233	373	42.22	233	24.52	100	49.60	26
平位	s 23.902		″ 64.34		s 50.218		″ 37.07		s 17.845		″ 67.43		s 21.212		″ 57.05	
sec δ, tan δ	+ 2.014		+ 1.749		+ 1.000		− 0.005		+ 1.260		+ 0.766		+ 3.967		− 3.839	
2 回正中	4 月 13 日				4 月 15 日				4 月 15 日				4 月 15 日			
a b	+ 0.1104		− 0.1084		+ 0.1535		+ 0.0003		+ 0.1333		− 0.0470		+ 0.2552		+ 0.2345	
a′ b′	− 0.9298		+ 0.3681		−0.9208		+ 0.3901		− 0.9200		+ 0.3919		− 0.9164		+ 0.4002	
FK3番號	500				501				502				503			

本初子午線正中時

星名	Grb 2029 UMin				ε Cent				1 Cent				τ Boot			
等級	5.67				2.56				4.36				4.51			
スペクトル型	K0				B1				F5				F5			
世界時	赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月 日	h m 13 35		° ′ +71 31		h m 13 36		° ′ −53 10		h m 13 42		° ′ −32 45		h m 13 44		° ′ +17 43	
	s		″		s		″		s		″		s		″	
1 1.3	47.37	78	24.96	156	18.422	483	33.96	115	28.724	370	23.64	156	34.695	330	66.79	218
11.3	48.15	79	23.40	91	18.905	478	35.11	159	29.094	367	25.20	181	35.025	331	64.61	190
21.2	48.94	79	22.49	25	19.383	459	36.70	197	29.461	354	27.01	200	35.356	322	62.71	155
31.2	49.73	75	22.24	42	19.842	428	38.67	230	29.815	332	29.01	215	35.678	304	61.16	115
2 10.2	50.48	70	22.66	107	20.270	390	40.97	255	30.147	302	31.16	221	35.982	278	60.01	73
20.2	51.18	61	23.73	165	20.660	344	43.52	274	30.449	268	33.37	222	36.260	247	59.28	31
3 1.1	51.79	50	25.38	217	21.004	295	46.26	286	30.717	232	35.59	219	36.507	212	58.97	9
11.1	52.29	40	27.55	257	21.299	243	49.12	292	30.949	193	37.78	211	36.719	175	59.06	48
21.1	52.69	27	30.12	287	21.542	191	52.04	291	31.142	156	39.89	200	36.894	139	59.54	80
31.1	52.96	15	32.99	304	21.733	139	54.95	285	31.298	118	41.89	186	37.033	102	60.34	107
4 10.0	53.11		36.03		21.872	89	57.80	273	31.416	83	43.75	170	37.135	68	61.41	127
19.9	53.14	3	39.13	310	21.961	40	60.53	258	31.499	49	45.45	153	37.203	37	62.68	140
29.9	53.05	9	42.18	305	22.001	8	63.11	237	31.548	17	46.98	132	37.240	7	64.08	148
5 9.9	52.85	20	45.05	287	21.993	51	65.48	212	31.565	13	48.30	112	37.247	19	65.56	149
19.9	52.56	29	47.66	261	21.942	95	67.60	183	31.552	42	49.42	90	37.228	44	67.05	143
		38		225												
29.9	52.18		49.91		21.847	134	69.43	150	31.510	68	50.32	67	37.184	65	68.48	
6 8.9	51.73	45	51.75	184	21.713	170	70.93	115	31.442	94	50.99	43	37.119	85	69.82	134
18.8	51.23	50	53.12	137	21.543	202	72.08	77	31.348	115	51.42	18	37.034	102	71.02	120
28.8	50.68	55	53.98	86	21.341	228	72.85	36	31.233	135	51.60	7	36.932	116	72.04	102
7 8.8	50.11	57	54.32	34	21.113	247	73.21	4	31.098	150	51.53	31	36.816	126	72.87	83
		58		21												59
18.8	49.53	58	54.11		20.866	258	73.17	46	30.948	160	51.22		36.690		73.46	
28.7	48.95	56	53.38	73	20.608	261	72.71	85	30.788	164	50.65	57	36.556	134	73.83	37
8 7.7	48.39	56	52.12	126	20.347	253	71.86	122	30.624	162	49.87	78	36.420	136	73.94	11
17.7	47.86	53	50.37	175	20.094	234	70.64	156	30.462	152	48.88	99	36.286	134	73.78	16
27.6	47.37	49	48.15	222	19.860	203	69.08	184	30.310	132	47.73	115	36.160	126	73.36	42
		42		263								128		111		70
9 6.6	46.95		45.52		19.657	161	67.24	205	30.178	106	46.45	134	36.049	90	72.66	
16.6	46.59	36	42.51	301	19.496	108	65.19	218	30.072	70	45.11	135	35.959	62	71.69	97
26.6	46.32	27	39.18	333	19.388	45	63.01	223	30.002	26	43.76	130	35.897	27	70.43	126
10 6.5	46.14	18	35.60	358	19.343	26	60.78	218	29.976	26	42.46	116	35.870	13	68.90	153
16.5	46.07	7	31.84	376	19.369	100	58.60	203	29.999	23	41.30	97	35.883	13	67.11	179
		4		387						77				59		204
26.5	46.11	16	27.97	388	19.469	178	56.57	178	30.076	135	40.33	71	35.942	106	65.07	226
11 5.5	46.27	28	24.09	381	19.647	252	54.79	146	30.211	190	39.62	40	36.048	156	62.81	243
15.4	46.55	40	20.28	363	19.899	321	53.33	106	30.401	242	39.22	5	36.204	202	60.38	255
25.4	46.95	51	16.65	336	20.220	381	52.27	61	30.643	289	39.17	32	36.406	245	57.83	263
12 5.4	47.46	62	13.29	298	20.601	429	51.66	11	30.932	326	39.49	70	36.651	281	55.20	261
15.3	48.08	69	10.31	252	21.030	463	51.55	38	31.258	353	40.19	107	36.932	309	52.59	252
25.3	48.77	76	7.79	196	21.493	481	51.93	88	31.611	369	41.26	139	37.241	327	50.07	235
35.3	49.53		5.83		21.974		52.81		31.980		42.65		37.568		47.72	
平位	s 49.999		″ 36.74		s 19.519		″ 56.29		s 29.863		″ 40.53		s 36.002		″ 66.55	
sec δ, tan δ	+ 3.156		+ 2.993		+ 1.669		− 1.336		+ 1.189		− 0.643		+ 1.050		+ 0.320	
2 回正中	4 月 16 日				4 月 16 日				4 月 17 日				4 日 18 月			
a b	+ 0.0723		− 0.1824		+ 0.1897		+ 0.0813		+ 0.1719		+ 0.0387		+ 0.1439		− 0.0191	
a′ b′	− 0.9138		+ 0.4061		− 0.9130		+ 0.4080		− 0.9017		+ 0.4325		− 0.8976		+ 0.4407	
FK3番號	505				504				506				507			

星名		η UMaj			μ Cent			89 Virg			10 Drac		
等級	スペクトル型	1.91		B3	3.32		B2p	5.11		K0	4.77		M0
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 13 45		° ′ +49 35	h m 13 46		° ′ −42 11	h m 13 46		° ′ −17 51	h m 13 49		° ′ +64 59
		s		″	s		″	s		″	s		″
1	1.3	18.433	429	23.75 204	12.788	409	24.22 130	48.224	337	9.44 182	45.44	59	47.16 186
	11.3	18.862	439	21.71 149	13.197	406	25.52 165	48.561	336	11.26 192	46.03	62	45.30 124
	21.2	19.301	431	20.22 89	13.603	393	27.17 194	48.897	324	13.18 195	46.65	61	44.06 59
	31.2	19.732	411	19.33 27	13.996	369	29.11 217	49.221	305	15.13 192	47.26	60	43.47 8
2	10.2	20.143	379	19.06 34	14.365	337	31.28 234	49.526	279	17.05 185	47.86	54	43.55 73
	20.2	20.522		19.40 92	14.702	301	33.62 244	49.805	249	18.90 172	48.40	49	44.28 134
3	1.1	20.858	336	20.32 144	15.003	261	36.06 248	50.054	215	20.62 157	48.89	42	45.62 189
	11.1	21.146	288	21.76 190	15.264	219	38.54 248	50.269	181	22.19 139	49.31	34	47.51 233
	21.1	21.378	232	23.66 226	15.483	177	41.02 242	50.450	146	23.58 120	49.65	25	49.84 268
	31.1	21.553	175	25.92 251	15.660	135	43.44 233	50.596	114	24.78 101	49.90	15	52.52 291
4	10.0	21.671	62	28.43 266	15.795	95	45.77 220	50.710	82	25.79 82	50.05	7	55.43 303
	20.0	21.733	10	31.09 270	15.890	56	47.97 203	50.792	52	26.61 64	50.12	2	58.46 302
	29.9	21.743	40	33.79 265	15.946	19	50.00 184	50.844	24	27.25 47	50.10	10	61.48 291
5	9.9	21.703	83	36.44 249	15.965	17	51.84 162	50.868	2	27.72 32	50.00	17	64.39 270
	19.9	21.620	121	38.93 226	15.948	51	53.46 137	50.866	27	28.04 16	49.83	24	67.09 240
	29.9	21.499	156	41.19 195	15.897	82	54.83 110	50.839	51	28.20 2	49.59	29	69.49 203
6	8.9	21.343	184	43.14 160	15.815	113	55.93 81	50.788	71	28.22 12	49.30	34	71.52 160
	18.8	21.159	207	44.74 119	15.702	139	56.74 50	50.717	91	28.10 25	48.96	38	73.12 113
	28.8	20.952	224	45.93 76	15.563	162	57.24 18	50.626	108	27.85 37	48.58	40	74.25 62
7	8.8	20.728	235	46.69 31	15.401	180	57.42 14	50.518	121	27.48 48	48.18	41	74.87 11
	18.8	20.493	240	47.00 16	15.221	192	57.28 47	50.397	131	27.00 58	47.77	42	74.98 41
	28.7	20.253	239	46.84 62	15.029	198	56.81 77	50.266	136	26.42 66	47.35	42	74.57 94
8	7.7	20.014	231	46.22 108	14.831	194	56.04 107	50.130	135	25.76 72	46.93	39	73.63 143
	17.7	19.783	214	45.14 152	14.637	183	54.97 131	49.995	128	25.04 76	46.54	37	72.20 191
	27.6	19.569	192	43.62 193	14.454	161	53.66 152	49.867	112	24.28 75	46.17	34	70.29 234
9	6.6	19.377	159	41.69 232	14.293	129	52.14 166	49.755	90	23.53 71	45.83	28	67.95 275
	16.6	19.218	119	39.37 268	14.164	89	50.48 174	49.665	60	22.82 62	45.55	22	65.20 310
	26.6	19.099	72	36.69 298	14.075	39	48.74 174	49.605	23	22.20 50	45.33	16	62.10 339
10	6.5	19.027	18	33.71 323	14.036	17	47.00 166	49.582	20	21.70 31	45.17	7	58.71 362
	16.5	19.009	42	30.48 343	14.053	78	45.34 150	49.602	69	21.39 9	45.10	1	55.09 378
	26.5	19.051	107	27.05 355	14.131	143	43.84 126	49.671	118	21.30 17	45.11	11	51.31 384
11	5.5	19.158	172	23.50 358	14.274	205	42.58 95	49.789	169	21.47 46	45.22	20	47.47 383
	15.4	19.330	237	19.92 354	14.479	264	41.63 58	49.958	216	21.93 75	45.42	29	43.64 371
	25.4	19.567	296	16.38 339	14.743	315	41.05 17	50.174	259	22.68 104	45.71	38	39.93 350
12	5.4	19.863	349	12.99 315	15.058	358	40.88 25	50.433	295	23.72 133	46.09	47	36.43 317
	15.3	20.212	391	9.84 280	15.416	389	41.13 68	50.728	319	25.05 155	46.56	53	33.26 275
	25.3	20.603	421	7.04 237	15.805	406	41.81 109	51.047	336	26.60 175	47.09	58	30.51 224
	35.3	21.024		4.67	16.211		42.90	51.383		28.35	47.67		28.27
平位		s 20.126		″ 31.98	s 13.968		″ 43.79	s 49.408		″ 21.62	s 47.709		″ 57.73
sec δ, tan δ		+ 1.543		+ 1.175	+ 1.350		− 0.907	+ 1.051		− 0.322	+ 2.366		+ 2.144
2 回正中		4 月 18 日			4 月 18 日			4 月 19 日			4 月 19 日		
a	b	+ 0.1186		− 0.0702	+ 0.1804		+ 0.0541	+ 0.1630		+ 0.0192	+ 0.0874		− 0.1269
a′	b′	− 0.8962		+ 0.4436	− 0.8945		+ 0.4471	− 0.8933		+ 0.4494	− 0.8874		+ 0.4610
FK3番號		509			508			510			511		

星名		η Boot			ζ Cent			294 G. Cent			47 Hyda		
等級	スペクトル型	2.80		G0	3.05		B2p	4.68		K0	5.17		B8
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 13 51		° ′ +18 40	h m 13 52		° ′ −47 0	h m 13 53		° ′ −63 24	h m 13 55		° ′ −24 41
		s		″	s		″	s		″	s		″
1	1.3	59.691	330	39.69 222	0.799	436	27.57 112	32.91	62	22.93 66	21.006	348	44.22 163
	11.3	60.021	333	37.47 192	1.235	435	28.69 151	33.53	61	23.59 118	21.354	348	45.85 181
	21.3	60.354	325	35.55 156	1.670	421	30.20 185	34.14	60	24.77 164	21.702	339	47.66 191
	31.2	60.679	308	33.99 117	2.091	398	32.05 212	34.74	57	26.41 206	22.041	320	49.57 197
2	10.2	60.987	283	32.82 73	2.489	366	34.17 234	35.31	52	28.47 241	22.361	294	51.54 197
	20.2	61.270	253	32.09 30	2.855	328	36.51 250	35.83	47	30.88 270	22.655	264	53.51 191
3	1.1	61.523	218	31.79 12	3.183	286	39.01 258	36.30	41	33.58 292	22.919	231	55.42 181
	11.1	61.741	182	31.91 51	3.469	242	41.59 261	36.71	35	36.50 307	23.150	196	57.23 169
	21.1	61.923	146	32.42 83	3.711	197	44.20 260	37.06	28	39.57 314	23.346	161	58.92 154
	31.1	62.069	110	33.25 112	3.908	152	46.80 254	37.34	21	42.71 316	23.507	128	60.46 139
4	10.0	62.179	75	34.37 132	4.060	108	49.34 242	37.55	14	45.87 312	23.635	94	61.85 121
	20.0	62.254	43	35.69 147	4.168	66	51.76 228	37.69	7	48.99 301	23.729	64	63.06 104
	29.9	62.297	13	37.16 153	4.234	24	54.04 210	37.76	1	52.00 285	23.793	33	64.10 87
5	9.9	62.310	14	38.69 155	4.258	16	56.14 187	37.77	5	54.85 262	23.826	5	64.97 70
	19.9	62.296	40	40.24 148	4.242	54	58.01 163	37.72	12	57.47 235	23.831	22	65.67 52
	29.9	62.256	62	41.72 139	4.188	90	59.64 134	37.60	18	59.82 203	23.809	48	66.19 34
6	8.9	62.194	82	43.11 124	4.098	124	60.98 104	37.42	24	61.85 166	23.761	72	66.53 17
	18.8	62.112	101	44.35 105	3.974	155	62.02 70	37.18	28	63.51 126	23.689	93	66.70 1
	28.8	62.011	115	45.40 85	3.819	181	62.72 36	36.90	32	64.77 81	23.596	114	66.69 19
7	8.8	61.896	127	46.25 61	3.638	201	63.08 1	36.58	36	65.58 36	23.482	129	66.50 36
	18.8	61.769	136	46.86 37	3.437	216	63.07 35	36.22	37	65.94 12	23.353	141	66.14 52
	28.7	61.633	139	47.23 10	3.221	223	62.72 72	35.85	38	65.82 58	23.212	148	65.62 67
8	7.7	61.494	137	47.33 17	2.998	221	62.00 104	35.47	38	65.24 104	23.064	148	64.95 80
	17.7	61.357	130	47.16 45	2.777	208	60.96 133	35.09	35	64.20 146	22.916	141	64.15 89
	27.7	61.227	116	46.71 74	2.569	185	59.63 159	34.74	32	62.74 183	22.775	127	63.26 96
9	6.6	61.111	96	45.97 102	2.384	152	58.04 177	34.42	26	60.91 214	22.648	103	62.30 97
	16.6	61.015	68	44.95 130	2.232	107	56.27 189	34.16	19	58.77 236	22.545	73	61.33 94
	26.6	60.947	33	43.65 159	2.125	54	54.38 194	33.97	11	56.41 251	22.472	34	60.39 86
10	6.5	60.914	7	42.06 185	2.071	6	52.44 188	33.86	2	53.90 254	22.438	12	59.53 71
	16.5	60.921	52	40.21 210	2.077	74	50.56 175	33.84	8	51.36 248	22.450	61	58.82 51
	26.5	60.973	100	38.11 231	2.151	142	48.81 153	33.92	19	48.88 229	22.511	115	58.31 27
11	5.5	61.073	150	35.80 249	2.293	210	47.28 123	34.11	28	46.59 202	22.626	167	58.04 2
	15.4	61.223	197	33.31 261	2.503	274	46.05 87	34.39	37	44.57 165	22.793	218	58.06 33
	25.4	61.420	241	30.70 268	2.777	331	45.18 45	34.76	46	42.92 121	23.011	263	58.39 66
12	5.4	61.661	279	28.02 266	3.108	377	44.73 1	35.22	52	41.71 71	23.274	300	59.05 97
	15.4	61.940	307	25.36 256	3.485	411	44.72 44	35.74	58	41.00 19	23.574	328	60.02 127
	25.3	62.247	327	22.80 239	3.896	432	45.16 88	36.32	60	40.81 35	23.902	346	61.29 151
	35.3	62.574		20.41	4.328		46.04	36.92		41.16	24.248		62.80
平位		s 61.036		″ 39.64	s 2.053		″ 48.34	s 34.351		″ 47.16	s 22.243		″ 58.63
sec δ, tan δ		+ 1.056		+ 0.338	+ 1.467		− 1.073	+ 2.234		− 1.998	+ 1.101		− 0.460
2 回正中		4 月 20 日			4 月 20 日			4 月 20 日			4 月 21 日		
a	b	+ 0.1427		− 0.0199	+ 0.1869		+ 0.0631	+ 0.2167		+ 0.1172	+ 0.1681		+ 0.0269
a′	b′	− 0.8829		+ 0.4695	− 0.8829		+ 0.4696	− 0.8797		+ 0.4755	− 0.8760		+ 0.4824
FK3番號		513			512			514			515		

星名		11 Boot		τ Virg		β Cent		α Drac	
等級		6.12		4.34		0.86		3.64	
スペクトル型		A3		A2		B1		A0p	
世界時		赤 経		赤 緯		赤 経		赤 緯	
月	日	h m 13 58		° ′ +27 39		h m 13 59		° ′ −60 5	
		s		″		s		″	
1	1.3	36.630		20.32		49.64		50.10	
	11.3	36.972	342	18.05	227	50.20	56	50.77	67
	21.3	37.319	347	16.16	189	50.76	56	51.93	116
	31.2	37.660	341	14.71	145	51.31	55	53.54	161
2	10.2	37.986	326	13.73	98	51.83	52	55.54	200
			302		47		49		233
	20.2	38.288		13.26	—	47.850		50.06	
3	1.1	38.559	271	13.28	2	48.098	248	49.08	98
	11.1	38.795	236	13.77	49	48.314	216	48.41	67
	21.1	38.992	197	14.69	92	48.498	184	48.05	36
	31.1	39.151	159	15.97	128	48.649	151	47.96	9
			119		158		118		17
4	10.0	39.270	82	17.55	178	48.767	87	48.13	38
	20.0	39.352	46	19.33	192	48.854	59	48.51	54
	29.9	39.398	13	21.25	196	48.913	30	49.05	68
5	9.9	39.411	18	23.21	194	48.943	5	49.73	76
	19.9	39.393	46	25.15	184	48.948	19	50.49	80
	29.9	39.347	71	26.99	169	48 929	42	51.29	82
6	8.9	39.276	95	28.68	147	48.887	63	52.11	80
	18.8	39.181	114	30.15	123	48.824	82	52.91	77
	28.8	39.067	131	31.38	95	48.742	99	53.68	70
7	8.8	38.936	143	32.33	64	48.643	112	54.38	62
	18.8	38.793		32.97		48.531		55.00	
	28.7	38.639	154	33.28	31	48.409	122	55.53	53
8	7.7	38.482	157	33.27	1	48.280	129	55.94	41
	17.7	38.326	156	32.91	36	48.151	129	56.23	29
	27.7	38.177	149	32.21	70	48.027	124	56.38	15
			135		104		112		2
9	6.6	38.042		31.17		47.915		56.36	
	16.6	37.929	113	29.79	138	47.822	93	56.15	21
	26.6	37.843	86	28.09	170	47.755	67	55.75	40
10	6.5	37.794	49	26.09	200	47.722	33	55.13	62
	16.5	37.786	8	23.81	228	47.728	6	54.27	86
			39		253		50		111
	26.5	37.825		21.28		47.778		53.16	
11	5.5	37.914	89	18.54	274	47.875	97	51.81	135
	15.4	38.056	142	15.66	288	48.021	146	50.23	158
	25.4	38.248	192	12.69	297	48.213	192	48.43	180
12	5.4	38.487	239	9.71	298	48.448	235	46.47	196
			280		290		270		209
	15.4	38.767		6.81		48.718		44.38	
	25.3	39.081	314	4.07	274	49.017	299	42.22	216
	35.3	39.416	335	1.58	249	49.334	317	40.08	214
平位		s 38.085		″ 22.74		s 47.622		″ 53.06	
sec δ, tan δ		+ 1.129		+ 0.524		+ 1.001		+ 0.032	
2回正中		4月22日				4月22日			
a	b	+ 0.1360		− 0.0304		+ 0.1523		− 0.0018	
a′	b′	− 0.8690		+ 0.4948		− 0.8687		+ 0.4954	
FK3番號		517				516			

星名		ξ Virg		ι Virg		α Boot		ε Boot	
等級	スペクトル型	4.31	K0	4.16	F5	0.24	K0	4.78	A5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 14 9	° ′ −10 0	h m 14 13	° ′ − 5 43	h m 14 13	° ′ +19 28	h m 14 14	° ′ +51 37
		s	″	s	″	s	″	s	″
1	1.3	52.910	40.60	3.098	54.57	4.880	23.82	9.018	22.13
	11.3	53.233 323	42.46 186	3.417 319	56.52 195	5.202 322	21.46 236	9.444 426	19.83 230
	21.3	53.560 327	44.34 188	3.740 323	58.45 193	5.531 329	19.40 206	9.888 444	18.06 177
	31.2	53.881 321	46.17 183	4.058 318	60.28 183	5.856 325	17.70 170	10.334 446	16.90 116
2	10.2	54.187 306 284	47.90 173 158	4.362 304 283	61.96 168 149	6.169 313 292	16.40 130 85	10.768 434 408	16.36 54 10
	20.2	54.471	49.48	4.645	63.45	6.461	15.55	11.176	16.46
3	1.2	54.729 258	50.86 138	4.903 258	64.70 125	6.726 265	15.14 41	11.549 373	17.18 72
	11.1	54.957 228	52.03 117	5.131 228	65.70 100	6.960 234	15.16 2	11.877 328	18.47 129
	21.1	55.153 196	52.97 94	5.328 197	66.44 74	7.160 200	15.60 44	12.152 275	20.25 178
	31.1	55.318 165 133	53.69 72 50	5.494 166 134	66.94 50 27	7.325 165 130	16.39 79 110	12.372 220 162	22.45 220 252
4	10.0	55.451	54.19	5.628	67.21 6	7.455	17.49	12.534 105	24.97
	20.0	55.554 103	54.50 31	5.732 104	67.27 11	7.550 95	18.81 132	12.639 48	27.68 271
	29.9	55.627 73	54.64 14	5.807 75	67.16 25	7.613 63	20.30 149	12.687 6	30.50 282
5	9.9	55.673 46	54.63 1	5.854 47	66.91 36	7.645 32	21.88 158	12.681 55	33.30 280
	19.9	55.692 19 7	54.49 14 23	5.875 21 5	66.55 45	7.648 3 25	23.48 160 156	12.626 102	36.00 270 249
	29.9	55.685	54.26	5.870	66.10 50	7.623	25.04 146	12.524	38.49
6	8.9	55.654 31	53.93 33	5.840 30	65.60 54	7.573 50	26.50 132	12.383 141	40.72 223
	18.9	55.599 55	53.54 39	5.788 52	65.06 54	7.500 73	27.82 114	12.205 178	42.60 188
	28.8	55.523 76	53.10 44	5.714 74	64.50 56	7.405 95	28.96 114	11.997 208	44.09 149
7	8.8	55.428 95 111	52.61 49 51	5.621 93 110	63.94 56 55	7.292 113 129	29.88 92 68	11.763 234 251	45.15 106 69
	18.8	55.317	52.10	5.511	63.39 52	7.163 141	30.56 43	11.512 264	45.75 13
	28.7	55.192 125	51.57 53	5.388 123	62.87 48	7.022 148	30.99 15	11.248 269	45.88 13
8	7.7	55.059 133	51.04 53	5.256 132	62.39 42	6.874 150	31.14 13	10.979 267	45.53 35
	17.7	54.924 135	50.52 52	5.122 134	61.97 35	6.724 146	31.01 42	10.712 256	44.70 83
	27.7	54.792 132 122	50.04 48 41	4.990 132 122	61.62 35 25	6.578 146 135	30.59 72	10.456 237	43.41 129 174
9	6.6	54.670	49.63	4.868	61.37 12	6.443 117	29.87 101	10.219 209	41.67 217
	16.6	54.567 103	49.30 33	4.765 103	61.25 3	6.326 92	28.86 132	10.010 171	39.50 255
	26.6	54.491 76	49.10 20	4.686 79	61.28 21	6.234 92	27.54 160	9.839 171	36.95 289
10	6.6	54.448 43	49.06 4	4.641 45	61.49 41	6.176 58	25.94 189	9.714 125	34.06 319
	16.5	54.446 2 42	49.20 14 37	4.634 7 39	61.90 64	6.156 20 26	24.05 214	9.643 71 9	30.87 343
	26.5	54.488	49.57	4.673	62.54	6.182	21.91	9.634	27.44
11	5.5	54.580 92	50.18 61	4.759 86	63.42 88	6.256 74	19.54 237	9.691 57	23.85 359
	15.4	54.721 141	51.04 86	4.895 136	64.55 113	6.380 124	16.97 257	9.817 126	20.18 367
	25.4	54.910 189	52.15 111	5.078 183	65.91 136	6.553 173	14.28 269	10.013 196	16.52 366
12	5.4	55.143 233 271	53.51 136 156	5.305 227 265	67.50 159 176	6.773 220 260	11.50 278 277	10.274 261 322	12.96 356 335
	15.4	55.414	55.07	5.570	69.26 189	7.033	8.73 269	10.596	9.61
	25.3	55.714 300	56.81 174	5.865 295	71.15 197	7.325 292	6.04 252	10.969 373	6.57 304
	35.3	56.033 319	58.65 184	6.179 314	73.12	7.640 315	3.52	11.380 411	3.95 262
平位		s 54.249	″ 50.30	s 4.461	″ 62.89	s 6.343	″ 23.49	s 10.933	″ 29.70
sec δ, tan δ		+ 1.015	− 0.177	+ 1.005	− 0.100	+ 1.061	+ 0.354	+ 1.611	+ 1.263
2回正中		4月24日		4月25日		4月25日		4月26日	
a	b	+ 0.1596	+ 0.0099	+ 0.1570	+ 0.0056	+ 0.1404	− 0.0197	+ 0.1068	− 0.0702
a′	b′	− 0.8436	+ 0.5369	− 0.8361	+ 0.5486	− 0.8360	+ 0.5487	− 0.8335	+ 0.5526
FK3番號		523		525		526		528	

星名		λ Boot		υ Cent		10 G. Circ		ϑ Boot	
等級	スペクトル型	4.26	A0	4.41	B5	5.71	A2p	4.06	F8
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 14 14	° ′ +46 20	h m 14 16	° ′ −50 7	h m 14 20	° ′ −67 56	h m 14 23	° ′ +52 6
		s	″	s	″	s	″	s	″
1	1.3	13.504	34.63	22.123	24.21	23.65	6.97	15.383	24.86
	11.3	13.898 394	32.29 234	22.630 507	24.78 57	24.35 70	7.13 16	15.806 423	22.46 240
	21.3	14.308 410	30.47 182	23.146 516	25.81 103	25.07 72	7.82 69	16.249 443	20.59 187
	31.2	14.718 410	29.20 127	23.654 508	27.26 145	25.79 72	9.02 120	16.697 448	19.32 127
2	10.2	15.117 399 375	28.55 65 4	24.142 488 458	29.08 182 213	26.48 69 65	10.68 166 207	17.135 438 417	18.68 64 0
	20.2	15.492	28.51	24.600	31.21	27.13	12.75	17.552	18.68
3	1.2	15.833 341	29.07 56	25.019 419	33.60 239	27.73 60	15.16 241	17.934 382	19.31 63
	11.1	16.134 301	30.18 111	25.393 374	36.18 258	28.27 54	17.86 270	18.274 340	20.52 121
	21.1	16.387 253	31.80 162	25.718 325	38.88 270	28.74 47	20.78 292	18.562 288	22.24 172
	31.1	16.591 204 153	33.82 202 234	25.992 274 222	41.67 279 280	29.13 39 32	23.85 307 315	18.795 233 176	24.39 215 249
4	10.1	16.744	36.16	26.214	44.47	29.45	27.00	18.971	26.88
	20.0	16.846 102	38.71 255	26.382 168	47.23 276	29.69 24	30.19 319	19.089 118	29.58 270
	29.9	16.897 51	41.38 267	26.496 114	49.91 268	29.84 15	33.33 314	19.150 61	32.41 283
5	9.9	16.903 6	44.05 267	26.558 62	52.46 255	29.91 7	36.37 304	19.156 6	35.24 283
	19.9	16.864 39 79	46.64 259 242	26.567 9 43	54.83 237 214	29.90 1 9	39.24 287 266	19.110 46 93	37.97 273 256
	29.9	16.785	49.06	26.524	56.97	29.81	41.90	19.017	40.53
6	8.9	16.669 116	51.22 216	26.431 93	58.84 187	29.64 17	44.27 237	18.881 136	42.81 228
	18.9	16.521 148	53.08 186	26.291 140	60.41 157	29.40 24	46.31 204	18.707 174	44.77 196
	28.8	16.346 175	54.57 149	26.107 184	61.62 121	29.08 32	47.97 166	18.500 207	46.34 157
7	8.8	16.148 198 215	55.66 109 65	25.885 222 254	62.46 84 44	28.71 37 41	49.20 123 77	18.266 234 255	47.49 115 69
	18.8	15.933	56.31	25.631	62.90	28.30	49.97	18.011	48.18
	28.8	15.705 228	56.52 21	25.352 279	62.93 3	27.85 45	50.26 29	17.741 270	48.39 21
8	7.7	15.472 233	56.28 24	25.060 292	62.54 39	27.37 48	50.07 19	17.464 277	48.12 27
	17.7	15.239 233	55.58 70	24.764 296	61.74 80	26.90 47	49.38 69	17.187 277	47.37 75
	27.7	15.016 223 207	54.43 115 158	24.478 286 262	60.56 118 153	26.44 46 42	48.22 116 159	16.918 269 250	46.14 123 168
9	6.6	14.809	52.85	24.216	59.03	26.02	46.63	16.668	44.46
	16.6	14.627 182	50.86 199	23.990 226	57.22 181	25.65 37	44.67 196	16.444 224	42.35 211
	26.6	14.479 148	48.48 238	23.814 176	55.18 204	25.36 29	42.40 227	16.257 187	39.84 251
10	6.6	14.373 106	45.76 272	23.700 114	53.01 217	25.16 20	39.91 249	16.115 142	36.97 287
	16.5	14.316 57 0	42.75 301 326	23.658 42 38	50.78 223 218	25.06 10 2	37.29 262 263	16.027 88 26	33.80 317 343
	26.5	14.316	39.49	23.696	48.60	25.08	34.66	16.001	30.37
11	5.5	14.377 61	36.05 344	23.817 121	46.56 204	25.22 14	32.13 253	16.041 40	26.77 360
	15.5	14.501 124	32.51 354	24.022 205	44.76 180	25.48 26	29.79 234	16.152 111	23.07 370
	25.4	14.689 188	28.95 356	24.307 285	43.28 148	25.86 38	27.76 203	16.333 181	19.37 370
12	5.4	14.936 247 302	25.47 348 330	24.664 357 419	42.19 109 65	26.34 48 57	26.12 164 119	16.582 249 311	15.75 362 342
	15.4	15.238	22.17	25.083 466	41.54 19	26.91 64	24.93 68	16.893 364	12.33 312
	25.3	15.586 348	19.15 302	25.549 498	41.35 31	27.55 69	24.25 15	17.257 406	9.21 272
	35.3	15.969 383	16.51 264	26.047	41.66	28.24	24.10	17.663	6.49
平位		s 15.295	″ 41.18	s 23.760	″ 46.66	s 25.724	″ 31.35	s 17.364	″ 32.16
sec δ, tan δ		+ 1.449	+ 1.048	+ 1.794	− 1.490	+ 2.663	− 2.468	+ 1.628	+ 1.285
2回正中		4月26日		4月26日		4月27日		4月28日	
a	b	+ 0.1147	− 0.0582	+ 0.2090	+ 0.0822	+ 0.2479	+ 0.1346	+ 0.1032	− 0.0695
a′	b′	− 0.8333	+ 0.5529	− 0.8281	+ 0.5606	− 0.8181	+ 0.5751	− 0.8108	+ 0.5853
FK3番號		527		529		530		531	

星名		52 Hyda		φ Virg		ρ Boot		γ Boot	
等級		5.00		4.97		3.78		3.00	
スペクトル型		B 8		K 0		K 0		F 0	
世界時		赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月	日	h m 14 24	° ′ −29 14	h m 14 25	° ′ − 1 58	h m 14 29	° ′ +30 36	h m 14 29	° ′ +38 32
		s	″	s	″	s	″	s	″
1	1.3	51.725	12.03	17.384	33.18	23.300	56.66	47.613	64.37
	11.3	52.078 353	13.33 130	17.697 313	35.18 200	23.634 334	54.21 245	47.967 354	61.89 248
	21.3	52.437 359	14.85 152	18.017 320	37.11 193	23.981 347	52.13 208	48.336 369	59.85 204
	31.3	52.792 355	16.54 169	18.334 317	38.90 179	24.328 347	50.52 161	48.708 372	58.32 153
2	10.2	53.134 342 320	18.33 179 185	18.639 305 287	40.51 161 137	24.667 339 321	49.40 112 59	49.072 364 346	57.35 97 39
	20.2	53.454	20.18	18.926	41.88	24.988	48.81	49.418	56.96
3	1.2	53.749 295	22.04 186	19.189 263	42.99 111	25.283 295	48.75 6	49.736 318	57.15 19
	11.1	54.013 264	23.86 182	19.424 235	43.81 82	25.547 264	49.20 45	50.020 284	57.88 73
	21.1	54.245 232	25.61 175	19.630 206	44.35 54	25.776 229	50.12 92	50.266 246	59.11 123
	31.1	54.444 199 165	27.26 165 154	19.805 175 144	44.62 27 2	25.967 191 153	51.46 134 167	50.470 204 161	60.77 166 201
4	10.1	54.609	28.80	19.949	44.64 18	26.120	53.13	50.631	62.78
	20.0	54.741 132	30.20 140	20.064 115	44.46 37	26.235 115	55.05 192	50.749 118	65.04 226
	30.0	54.841 100	31.47 127	20.149 85	44.09 50	26.313 78	57.14 209	50.824 75	67.45 241
5	9.9	54.908 67	32.59 112	20.206 57	43.59 60	26.355 42	59.32 218	50.859 35	69.93 248
	19.9	54.944 36 5	33.55 96 80	20.236 30 4	42.99 67	26.362 7 25	61.49 217 209	50.855 4 41	72.37 244 233
	29.9	54.949 26	34.35 63	20.240 22	42.32 69	26.337	63.58	50.814	74.70
6	8.9	54.923 55	34.98 45	20.218 46	41.63 71	26.282 55	65.52 194	50.740 74	76.84 214
	18.9	54.868 82	35.43 27	20.172 68	40.92 69	26.200 82	67.26 174	50.636 104	78.73 189
	28.8	54.786 108	35.70 7	20.104 90	40.23 66	26.092 108	68.74 148	50.503 133	80.32 159
7	8.8	54.678 130	35.77 11	20.014 107	39.57 61	25.961 131 148	69.93 119 86	50.347 156 175	81.55 123 86
	18.8	54.548	35.66	19.907	38.96	25.813	70.79	50.172	82.41
	28.8	54.401 147	35.34 32	19.784 123	38.42 54	25.649 164	71.31 52	49.981 191	82.87 46
8	7.7	54.241 160	34.85 49	19.652 132	37.96 46	25.477 172	71.46 15	49.782 199	82.92 5
	17.7	54.076 165	34.18 67	19.514 138	37.59 37	25.300 177	71.25 21	49.578 204	82.54 38
	27.7	53.912 164 152	33.36 82 93	19.377 137 128	37.34 25 12	25.126 174 165	70.66 59 96	49.379 199 188	81.75 79 121
9	6.6	53.760	32.43	19.249	37.22 —	24.961	69.70	49.191	80.54
	16.6	53.627 133	31.41 102	19.137 112	37.25 3	24.815 146	68.38 132	49.023 168	78.93 161
	26.6	53.523 104	30.37 104	19.048 89	37.45 20	24.693 122	66.70 168	48.882 141	76.94 199
10	6.6	53.457 66	29.35 102	18.991 57	37.84 39	24.606 87	64.68 202	48.778 104	74.60 234
	16.5	53.436 21 31	28.41 94 80	18.972 19 25	38.45 61 84	24.558 48 0	62.36 232 259	48.717 61 11	71.95 265 293
	26.5	53.467	27.61	18.997	39.29	24.558 —	59.77	48.706 —	69.02
11	5.5	53.552 85	27.01 60	19.069 72	40.37 108	24.609 51	56.95 282	48.751 45	65.87 315
	15.5	53.695 143	26.67 34	19.191 122	41.69 132	24.715 106	53.94 301	48.853 102	62.57 330
	25.4	53.891 196	26.61 6	19.360 169	43.23 154	24.873 158	50.84 310	49.013 160	59.19 338
12	5.4	54.138 247 290	26.86 25 57	19.575 215 253	44.96 173 189	25.083 210 256	47.71 313 307	49.229 216 267	55.83 336 325
	15.4	54.428	27.43	19.828	46.85	25.339	44.64	49.496	52.58
	25.3	54.752 324	28.31 88	20.114 286	48.84 199	25.634 295	41.72 292	49.805 309	49.53 305
	35.3	55.098 346	29.47 116	20.421 307	50.87 203	25.958 324	39.05 267	50.147 342	46.79 274
平位		s 53.184	″ 27.64	s 18.820	″ 40.37	s 24.935	″ 59.02	s 49.348	″ 68.66
sec δ, tan δ		+ 1.146	− 0.560	+ 1.001	− 0.035	+ 1.162	+ 0.592	+ 1.279	+ 0.797
2 回正中		4 月 28 日		4 月 28 日		4 月 29 日		4 月 29 日	
a	b	+ 0.1754	+ 0.0301	+ 0.1547	+ 0.0019	+ 0.1294	− 0.0314	+ 0.1210	− 0.0422
a′	b′	− 0.8067	+ 0.5909	− 0.8056	+ 0.5924	− 0.7949	+ 0.6067	− 0.7938	+ 0.6082
FK3番號		532		533		534		535	

星名		Grb 2125 Drac		η Cent		α Cent A		33 Boot	
等級		6.18		2.65		0.33		5.39	
スペクトル型		F 0		B 3 p, A 2 p		G 0		A 0	
世界時		赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月	日	h m 14 30	° ′ +60 27	h m 14 31	° ′ −41 54	h m 14 35	° ′ −60 35	h m 14 36	° ′ +44 38
		s	″	s	″	s	″	s	″
1	1.3	9.07	70.08	54.846	27.86	44.86	60.81	43.254	38.42
	11.3	9.57 50	67.70 238	55.244 398	28.70 84	45.41 55	61.08 27	43.627 373	35.88 254
	21.3	10.09 52	65.87 183	55.651 407	29.88 118	45.97 56	61.83 75	44.018 391	33.81 207
	31.3	10.62 53	64.68 119	56.055 404	31.35 147	46.53 56	63.03 120	44.416 398	32.29 152
2	10.2	11.15 53 50	64.15 53 13	56.446 391 370	33.07 172 190	47.07 54 51	64.64 161 196	44.808 392 374	31.37 92 31
	20.2	11.65	64.28	56.816	34.97	47.58	66.60	45.182	31.06
3	1.2	12.12 47	65.06 78	57.157 341	37.02 205	48.06 48	68.86 226	45.530 348	31.36 30
	11.1	12.54 42	66.44 138	57.466 309	39.15 213	48.48 42	71.35 249	45.842 312	32.24 88
	21.1	12.89 35	68.35 191	57.739 273	41.31 216	48.85 37	74.02 267	46.113 271	33.64 140
	31.1	13.18 29 22	70.70 235 269	57.974 235 197	43.48 217 212	49.17 32 25	76.81 279 284	46.338 225 179	35.48 184 221
4	10.1	13.40 14	73.39	58.171	45.60	49.42	79.65	46.517	37.69
	20.0	13.54 7	76.29 290	58.330 159	47.66 206	49.62 20	82.50 285	46.647 130	40.16 247
	30.0	13.61 1	79.31 302	58.450 120	49.61 195	49.75 13	85.29 279	46.729 82	42.78 262
5	9.9	13.60 7	82.32 301	58.532 82	51.44 183	49.82 7	87.99 270	46.765 36	45.47 269
	19.9	13.53 13	85.22 290 269	58.575 43 4	53.11 167 149	49.83 1 5	90.52 253 234	46.757 8 49	48.11 264 251
	29.9	13.40 19	87.91	58.579 —	54.60	49.78	92.86	46.708	50.62
6	8.9	13.21 24	90.32 241	58.547 32	55.88 128	49.67 11	94.93 207	46.620 88	52.92 230
	18.9	12.97 28	92.37 205	58.478 69	56.93 105	49.50 17	96.71 178	46.497 123	54.94 202
	28.8	12.69 31	94.00 163	58.375 103	57.72 79	49.28 22	98.14 143	46.343 154	56.64 170
7	8.8	12.38 35	95.18 118 69	58.240 135 162	58.24 52 23	49.02 26 31	99.20 106 65	46.162 181 203	57.95 131 90
	18.8	12.03 36	95.87 19	58.078 184	58.47 6	48.71	99.85 22	45.959 220	58.85 46
	28.8	11.67 37	96.06 33	57.894 200	58.41 37	48.38 33	100.07 22	45.739 230	59.31 2
8	7.7	11.30 36	95.73 84	57.694 207	58.04 66	48.02 36	99.85 65	45.509 235	59.33 44
	17.7	10.94 36	94.89 133	57.487 205	57.38 92	47.66 36	99.20 107	45.274 231	58.89 89
	27.7	10.58 36 34	93.56 181	57.282 192	56.46 117	47.30 36 33	98.13 146	45.043 219	58.00 133
9	6.7	10.24 30	91.75	57.090	55.29	46.97	96.67	44.824	56.67
	16.6	9.94 26	89.49 226	56.920 170	53.94 135	46.68 29	94.89 178	44.626 198	54.91 176
	26.6	9.68 21	86.82 267	56.784 136	52.44 150	46.45 23	92.83 206	44.457 169	52.75 216
10	6.6	9.47 14	83.79 303	56.693 91	50.87 157	46.28 17	90.58 225	44.326 131	50.22 253
	16.5	9.33 6	80.45 334 358	56.654 39 21	49.30 157 149	46.19 9 0	88.24 234 236	44.242 84 31	47.37 285 313
	26.5	9.27 —	76.87	56.675	47.81	46.19 —	85.88	44.211 —	44.24
11	5.5	9.28 1	73.11 376	56.759 84	46.47 134	46.29 10	83.63 225	44.240 29	40.88 336
	15.5	9.38 10	69.28 383	56.910 151	45.36 111	46.48 19	81.58 205	44.330 90	37.39 349
	25.4	9.56 18	65.46 382	57.123 213	44.54 82	46.76 28	79.81 177	44.484 154	33.83 356
12	5.4	9.83 27 34	61.75 371 349	57.394 271 322	44.05 49 12	47.13 37 44	78.41 140 97	44.699 215 270	30.31 352 340
	15.4	10.17	58.26	57.716	43.93 —	47.57	77.44	44.969	26.91
	25.4	10.59 42	55.11 315	58.078 362	44.19 26	48.07 50	76.93 51	45.288 319	23.75 316
	35.3	11.05 46	52.38 273	58.468 390	44.83 64	48.60 53	76.92 1	45.646 358	20.93 282
平位		s 11.408	″ 78.39	s 56.451	″ 46.76	s 46.842	″ 20.05	s 45.128	″ 43.78
sec δ, tan δ		+ 2.029	+ 1.766	+ 1.344	− 0.898	+ 2.037	− 1.775	+ 1.406	+ 0.988
2 回正中		4 月 30 日		4 月 30 日		5 月 1 日		5 月 1 日	
a	b	+ 0.0816	− 0.0933	+ 0.1902	0.0472	+ 0.2277	+ 0.0920	+ 0.1117	− 0.0510
a′	b′	− 0.7939	+ 0.6094	− 0.7882	+ 0.6155	− 0.7778	+ 0.6286	− 0.7751	+ 0.6319
FK3番號		536		537		538		540	

星名		α Circ		α Lupi		†ζ Boot *m*		μ Virg	
等級	スペクトル型	3.41	F0	2.89	B2	3.86	A2	3.95	F5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 14 37	° ′ −64 43	h m 14 38	° ′ −47 8	h m 14 38	° ′ +13 57	h m 14 40	° ′ − 5 24
1	1.3	s 55.04	″ 34.81	s 9.861	″ 36.46	s 26.799	″ 65.61	s 4.801	″ 48.69
	11.3	55.67 63	34.84 3	10.287 426	37.07 61	27.109 310	63.31 230	5.111 310	50.58 189
	21.3	56.31 64	35.37 53	10.724 437	38.05 98	27.429 320	61.23 208	5.431 320	52.45 187
	31.3	56.96 65	36.38 101	11.160 436	39.37 132	27.750 321	59.45 178	5.749 318	54.22 177
2	10.2	57.59 63 60	37.84 146 185	11.584 424 402	40.99 162 186	28.062 312 297	58.02 143 104	6.059 310 294	55.84 162 143
	20.2	58.19 56	39.69 220	11.986	42.85 205	28.359 274	56.98 62	6.353 272	57.27 120
3	1.2	58.75 51	41.89 247	12.360 374	44.90 219	28.633 249	56.36 21	6.625 247	58.47 94
	11.1	59.26 45	44.36 270	12.699 339	47.09 228	28.882 218	56.15 18	6.872 218	59.41 69
	21.1	59.71 39	47.06 285	13.001 302	49.37 232	29.100 187	56.33 53	7.090 189	60.10 43
	31.1	60.10 33	49.91 296	13.264 263 221	51.69 232	29.287 155	56.86 85	7.279 160	60.53 20
4	10.1	60.43 25	52.87 300	13.485 179	54.01 228	29.442 124	57.71 110	7.439 131	60.73 0
	20.0	60.68 19	55.87 299	13.664 137	56.29 221	29.566 92	58.81 128	7.570 102	60.73 17
	30.0	60.87 11	58.86 291	13.801 94	58.50 209	29.658 62	60.09 141	7.672 73	60.56 32
5	9.9	60.98 4	61.77 277	13.895 51	60.59 195	29.720 33	61.50 147	7.745 46	60.24 42
	19.9	61.02 3	64.54 259	13.946 8	62.54 177	29.753 4	62.97 147	7.791 18	59.82 50
	29.9	60.99 10	67.13 235	13.954 35	64.31 156	29.757 22	64.44 142	7.809 9	59.32 55
6	8.9	60.89 18	69.48 205	13.919 75	65.87 131	29.735 49	65.86 132	7.800 34	58.77 57
	18.9	60.71 23	71.53 171	13.844 114	67.18 104	29.686 73	67.18 119	7.766 60	58.20 58
	28.8	60.48 29	73.24 132	13.730 151	68.22 74	29.613 95	68.37 102	7.706 82	57.62 58
7	8.8	60.19 34	74.56 89	13.579 181	68.96 42	29.518 115	69.39 82	7.624 103	57.04 54
	18.8	59.85 38	75.45 45	13.398 207	69.38 8	29.403 131	70.21 61	7.521 121	56.50 51
	28.8	59.47 41	75.90 3	13.191 225	69.46 26	29.272 142	70.82 39	7.400 133	55.99 46
8	7.7	59.06 41	75.87 49	12.966 234	69.20 59	29.130 142	71.21 14	7.267 133	55.53 39
	17.7	58.65 41	75.38 94	12.732 232	68.61 91	28.981 149	71.35 12	7.125 142	55.14 32
	27.7	58.24 38	74.44 138	12.500 220	67.70 120	28.832 149 143	71.23 37	6.983 136	54.82 21
	6.7	57.86 34	73.06 174	12.280 195	66.50 144	28.689 128	70.86 65	6.847 121	54.61 10
9	16.6	57.52 29	71.32 207	12.085 159	65.06 162	28.561 106	70.21 93	6.726 100	54.51 5
	26.6	57.23 20	69.25 230	11.926 112	63.44 175	28.455 76	69.28 120	6.626 69	54.56 22
10	6.6	57.03 11	66.95 245	11.814 54	61.69 179	28.379 39	68.08 147	6.557 32	54.78 41
	16.5	56.92 2	64.50 249	11.760 10	59.90 175	28.340 4	66.61 174	6.525 12	55.19 63
	26.5	56.90 9	62.01 243	11.770 80	58.15 162	28.344 52	64.87 198	6.537 59	55.82 85
11	5.5	56.99 21	59.58 226	11.850 150	56.53 143	28.396 101	62.89 220	6.596 110	56.67 109
	15.5	57.20 30	57.32 200	12.000 220	55.10 114	28.497 151	60.69 238	6.706 158	57.76 132
	25.4	57.50 41	55.32 165	12.220 283	53.96 81	28.648 198	58.31 249	6.864 205	59.08 152
12	5.4	57.91 48	53.67 123	12.503 339	53.15 43	28.846 240	55.82 255	7.069 245	60.60 170
	15.4	58.39 56	52.44 77	12.842 384	52.72 3	29.086 275	53.27 252	7.314 279	62.30 183
	25.4	58.95 60	51.67 26	13.226 415	52.69 37	29.361 300	50.75 243	7.593 303	64.13 190
	35.3	59.55	51.41	13.641	53.06	29.661	48.32	7.896	66.03
平位		s 57.276	″ 58.17	s 11.593	″ 56.46	s 28.353	″ 63.16	s 6.313	″ 57.01
sec δ, tan δ		+ 2.343	− 2.119	+ 1.470	− 1.078	+ 1.030	+ 0.249	+ 1.004	− 0.095
2回正中		5月2日		5月2日		5月2日		5月2日	
a	b	+ 0.2431	+ 0.1090	+ 0.1991	+ 0.0554	+ 0.1428	− 0.0128	+ 0.1574	+ 0.0048
a′	b′	− 0.7718	+ 0.6359	− 0.7711	+ 0.6367	− 0.7703	+ 0.6377	− 0.7658	+ 0.6431
FK3番號		539		541		543		545	

星名		371 G. Cent		α Apds		30 G. Lupi		109 Virg	
等級	スペクトル型	4.13	K0	3.81	K5	5.20	K0	3.76	A0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 14 40	° ′ −34 55	h m 14 40	° ′ −78 48	h m 14 43	° ′ −52 8	h m 14 43	° ′ + 2 7
1	1.3	s 11.814	″ 44.45	s 44.29	″ 8.95	s 3.495	″ 31.19	s 23.354	″ 46.04
	11.3	12.180 366	45.44 99	45.55 126	8.51 44	3.956 461	31.57 38	23.659 305	43.97 207
	21.3	12.556 376	46.71 127	46.86 131	8.64 13	4.431 475	32.36 79	23.974 315	42.01 196
	31.3	12.931 375	48.20 149	48.18 132	9.32 68	4.906 475	33.54 118	24.290 316	40.22 179
2	10.2	13.295 364 345	49.87 167 179	49.48 130 125	10.53 121 170	5.370 464 442	35.06 152 181	24.598 308 293	38.66 156 128
	20.2	13.640 320	51.66 185	50.73 117	12.23 214	5.812 413	36.87 205	24.891 271	37.38 98
3	1.2	13.960 291	53.51 189	51.90 107	14.37 251	6.225 376	38.92 224	25.162 247	36.40 66
	11.2	14.251 260	55.40 188	52.97 96	16.88 283	6.601 337	41.16 238	25.409 218	35.74 34
	21.1	14.511 226	57.28 183	53.93 81	19.71 307	6.938 337	43.54 245	25.627 190	35.40 5
	31.1	14.737 192	59.11 176	54.74 67	22.78 326	7.231 293 248	45.99 249	25.817 160	35.35 22
4	10.1	14.929 157	60.87 166	55.41 52	26.04 336	7.479	48.48	25.977 130	35.57
	20.0	15.086 123	62.53 156	55.93 35	29.40 342	7.681 202	50.97 249	26.107 101	36.02 45
	30.0	15.209 88	64.09 143	56.28 18	32.82 337	7.836 155	53.40 243	26.208 73	36.65 63
5	9.9	15.297 54	65.52 129	56.46 1	36.19 337	7.942 106	55.74 234	26.281 45	37.42 77
	19.9	15.351 19	66.81 113	56.47 15	39.47 328 310	8.000 58 9	57.95 221 202	26.326 17	38.28 86 91
	29.9	15.370 15	67.94 96	56.32 32	42.57 286	8.009 39	59.97 182	26.343 10	39.19 92
6	8.9	15.355 48	68.90 77	56.00 48	45.43 256	7.970 86	61.79 156	26.333 36	40.11 90
	18.9	15.307 81	69.67 56	55.52 62	47.99 218	7.884 130	63.35 127	26.297 61	41.01 85
	28.9	15.226 110	70.23 34	54.90 74	50.17 176	7.754 172	64.62 95	26.236 83	41.86 78
7	8.8	15.116 137	70.57 12	54.16 85	51.93 128	7.582 206	65.57 60	26.153 104	42.64 68
	18.8	14.979 158	70.69 12	53.31 93	53.21 78	7.376 236	66.17 23	26.049 122	43.32 58
	28.8	14.821 174	70.57 35	52.38 99	53.99 23	7.140 257	66.40 15	25.927 135	43.90 45
8	7.7	14.647 183	70.22 58	51.39 99	54.22 31	6.883 267	66.25 52	25.792 142	44.35 32
	17.7	14.464 184	69.64 79	50.40 98	53.91 85	6.616 266	65.73 88	25.650 144	44.67 17
	27.7	14.280 174	68.85 96	49.42 91	53.06 137	6.350 253	64.85 122	25.506 138	44.84 0
	6.7	14.106 156	67.89 111	48.51 82	51.69 183	6.097 226	63.63 150	25.368 124	44.84 18
9	16.6	13.950 126	66.78 119	47.69 69	49.86 224	5.871 186	62.13 174	25.244 104	44.66 39
	26.6	13.824 88	65.59 123	47.00 52	47.62 256	5.685 135	60.39 190	25.140 73	44.27 59
10	6.6	13.736 42	64.36 121	46.48 33	45.06 279	5.550 72	58.49 198	25.067 38	43.68 82
	16.6	13.694 13	63.15 111	46.15 11	42.27 290	5.478 1	56.51 197	25.029 5	42.86 106
	26.5	13.707 72	62.04 94	46.04 11	39.37 290	5.477 75	54.54 188	25.034 53	41.80 130
11	5.5	13.779 131	61.10 73	46.15 35	36.47 279	5.552 153	52.66 170	25.087 104	40.50 153
	15.5	13.910 190	60.37 46	46.50 56	33.68 255	5.705 230	50.96 143	25.189 150	38.97 173
	25.4	14.100 244	59.91 15	47.06 77	31.13 223	5.935 300	49.53 110	25.339 197	37.24 191
12	5.4	14.344 292	59.76 18	47.83 94	28.90 179	6.235 361	48.43 72	25.536 238	35.33 204
	15.4	14.636	59.94	48.77 110	27.11 131	6.596 412	47.71 30	25.774 272	33.29 212
	25.4	14.966 330	60.45 51	49.87 121	25.80 77	7.008 448	47.41 14	26.046 297	31.17 212
	35.3	15.324 358	61.28 83	51.08	25.03	7.456	47.55	26.343	29.05
平位		s 13.424	″ 61.38	s 48.301	″ 33.88	s 5.373	″ 52.12	s 24.891	″ 40.00
sec δ, tan δ		+ 1.220	− 0.698	+ 5.153	− 5.055	+ 1.630	− 1.287	+ 1.001	+ 0.037
2回正中		5月2日		5月2日		5月3日		5月3日	
a	b	+ 0.1833	+ 0.0356	+ 0.3708	+ 0.2574	+ 0.2094	+ 0.0650	+ 0.1517	− 0.0019
a′	b′	− 0.7654	+ 0.6435	− 0.7638	+ 0.6455	− 0.7573	+ 0.6531	− 0.7564	+ 0.6541
FK3番號		544		542		546		547	

本初子午線正中時

星名		α° Libr		Grb 2164 Drac		β UMin		Pi 14 h 221 Boot	
等級	スペクトル型	2.90	A3	5.67	K2	2.24	K5	5.77	A0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 14 47	° ′ −15 48	h m 14 49	° ′ +59 30	h m 14 50	° ′ +74 22	h m 14 53	° ′ +14 40
		s	″	s	″	s	″	s	″
1	1.3	44.968	25.40	58.481	68.14	46.85	55.21	32.881	20.13
	11.3	45.286 318	26.96 156	58.940 459	65.55 259	47.61 76	52.78 243	33.183 302	17.79 234
	21.3	45.614 328	28.60 164	59.435 495	63.49 206	48.45 84	50.93 185	33.499 316	15.67 212
	31.3	45.943 329	30.26 166	59.949 514	62.05 144	49.34 89	49.72 121	33.818 319	13.85 182
2	10.2	46.263 320	31.90 164	60.464 515	61.25 80	50.23 89	49.19 53	34.133 315	12.38 147
		305	155	499	12	88	14	301	107
	20.2	46.568 284	33.45 142	60.963 470	61.13 54	51.11 83	49.33 82	34.434 281	11.31 65
3	1.2	46.852 259	34.87 127	61.433 426	61.67 115	51.94 75	50.15 143	34.715 257	10.66 23
	11.2	47.111 232	36.14 110	61.859 373	62.82 172	52.69 66	51.58 198	34.972 230	10.43 18
	21.1	47.343 203	37.24 92	62.232 311	64.54 220	53.35 54	53.56 244	35.202 199	10.61 55
	31.1	47.546 173	38.16 74	62.543 244	66.74 258	53.89 40	56.00 279	35.401 169	11.16 88
4	10.1	47.719 144	38.90 58	62.787 174	69.32 284	54.29 27	58.79 302	35.570 138	12.04 114
	20.1	47.863 115	39.48 42	62.961 103	72.16 300	54.56 13	61.81 315	35.708 107	13.18 134
	30.0	47.978 86	39.90 28	63.064 34	75.16 305	54.69 1	64.96 315	35.815 76	14.52 147
5	9.9	48.064 57	40.18 17	63.098 33	78.21 297	54.68 15	68.11 304	35.891 46	15.99 154
	19.9	48.121 28	40.35 6	63.065 97	81.18 282	54.53 27	71.15 284	35.937 17	17.53 155
	29.9	48.149 1	40.41 4	62.968 154	84.00 257	54.26 39	73.99 254	35.954 12	19.08 150
6	8.9	48.148 29	40.37 12	62.814 208	86.57 225	53.87 49	76.53 217	35.942 39	20.58 141
	18.9	48.119 56	40.25 19	62.606 254	88.82 186	53.38 58	78.70 175	35.903 66	21.99 127
	28.9	48.063 82	40.06 27	62.352 294	90.68 142	52.80 65	80.45 127	35.837 90	23.26 110
7	8.8	47.981 105	39.79 32	62.058 326	92.10 95	52.15 71	81.72 77	35.747 112	24.36 90
	18.8	47.876	39.47	61.732	93.05	51.44	82.49	35.635	25.26
	28.8	47.752 124	39.08 39	61.383 349	93.51 46	50.70 74	82.73 24	35.505 130	25.94 68
8	7.7	47.612 140	38.65 43	61.018 365	93.45 6	49.94 76	82.44 29	35.360 145	26.38 44
	17.7	47.464 148	38.18 47	60.648 370	92.89 56	49.17 77	81.62 82	35.207 153	26.57 19
	27.7	47.313 151	37.68 50	60.283 365	91.82 107	48.42 75	80.28 134	35.051 156	26.50 7
		146	49	349	156	71	183	151	34
9	6.7	47.167	37.19	59.934	90.26	47.71	78.45	34.900	26.16
	16.6	47.036 131	36.73 46	59.612 322	88.24 202	47.05 66	76.15 230	34.761 139	25.54 62
	26.6	46.927 109	36.32 41	59.329 283	85.78 246	46.46 59	73.44 271	34.642 119	24.63 91
10	6.6	46.849 78	36.01 31	59.095 234	82.93 285	45.96 50	70.36 308	34.552 90	23.44 119
	16.6	46.810 39	35.83 18	58.921 174	79.74 319	45.57 39	66.96 340	34.498 54	21.98 146
		6	1	104	346	26	365	12	174
	26.5	46.816	35.82	58.817	76.28	45.31	63.31	34.486	20.24
11	5.5	46.871 55	36.02 20	58.790 27	72.60 368	45.18 13	59.49 382	34.521 35	18.25 199
	15.5	46.979 108	36.44 42	58.846 56	68.79 381	45.19 1	55.59 390	34.606 85	16.04 221
	25.4	47.138 159	37.11 67	58.987 141	64.96 383	45.36 17	51.70 389	34.741 135	13.65 239
12	5.4	47.345 207	38.02 91	59.211 224	61.19 377	45.68 32	47.94 376	34.925 184	11.13 252
		249	114	303	359	46	355	227	257
	15.4	47.594	39.16	59.514	57.60	46.14	44.39	35.152	8.56
	25.4	47.879 285	40.50 134	59.888 374	54.29 331	46.73 59	41.19 320	35.416 264	5.99 257
	35.3	48.189 310	42.01 151	60.320 432	51.38 291	47.44 71	38.42 277	35.708 292	3.53 246
平位		s 46.533	″ 36.82	s 60.889	″ 75.43	s 50.698	″ 63.84	s 34.506	″ 17.63
sec δ, tan δ		+ 1.039	− 0.283	+ 1.972	+ 1.699	+ 3.715	+ 3.578	+ 1.034	+ 0.262
2 回正中		5月 4 日		5月 5 日		5月 5 日		5月 6 日	
a	b	+ 0.1659	+ 0.0140	+ 0.0768	− 0.0835	− 0.0085	− 0.1753	+ 0.1413	− 0.0127
a′	b′	− 0.7438	+ 0.6684	− 0.7372	+ 0.6756	− 0.7348	+ 0.6783	− 0.7267	+ 0.6870
FK3番號		548		549		550		551	

本初子午線正中時

星名		β Lupi		ϰ Cent		2 H. UMin		β Boot	
等級	スペクトル型	2.81	B2p	3.35	B3	4.86	M3	3.63	G5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 14 54	° ′ −42 54	h m 14 55	° ′ −41 52	h m 14 56	° ′ +66 8	h m 14 59	° ′ +40 36
		s	″	s	″	s	″	s	″
1	1.4	49.365	16.26	28.680	32.63	38.21	70.51	48.209	34.31
	11.3	49.760 395	16.83 57	29.069 389	33.24 61	38.75 54	67.91 260	48.549 340	31.61 270
	21.3	50.169 409	17.74 91	29.473 404	34.17 93	39.33 58	65.86 205	48.912 363	29.33 228
	31.3	50.580 411	18.95 121	29.879 406	35.38 121	39.95 62	64.43 143	49.285 373	27.56 177
2	10.2	50.983 403	20.41 146	30.277 398	36.85 147	40.57 62	63.66 77	49.658 373	26.35 121
		387	168	382	167	61	8	361	62
	20.2	51.370 363	22.09 183	30.659 358	38.52 181	41.18 58	63.58 59	50.019 341	25.73 1
3	1.2	51.733 334	23.92 195	31.017 330	40.33 192	41.76 53	64.17 122	50.360 312	25.72 57
	11.2	52.067 301	25.87 201	31.347 297	42.25 198	42.29 46	65.39 180	50.672 277	26.29 111
	21.1	52.368 266	27.88 205	31.644 263	44.23 200	42.75 39	67.19 227	50.949 239	27.40 158
	31.1	52.634 230	29.93 203	31.907 228	46.23 199	43.14 30	69.46 266	51.188 197	28.98 199
4	10.1	52.864 191	31.96 200	32.135 190	48.22 195	43.44 22	72.12 293	51.385 155	30.97 228
	20.1	53.055 154	33.96 194	32.325 153	50.17 188	43.66 12	75.05 309	51.540 111	33.25 249
	30.0	53.209 114	35.90 184	32.478 113	52.05 178	43.78 3	78.14 312	51.651 68	35.74 260
5	9.9	53.323 74	37.74 172	32.591 113	53.83 167	43.81 5	81.26 306	51.719 26	38.34 261
	19.9	53.397 33	39.46 158	32.666 75	55.50 151	43.76 14	84.32 289	51.745 14	40.95 253
	29.9	53.430 6	41.04 139	32.701 4	57.01 135	43.62 21	87.21 263	51.731	43.48
6	8.9	53.424 47	42.43 120	32.697 45	58.36 114	43.41 28	89.84 230	51.679 52	45.85 237
	18.9	53.377 85	43.63 96	32.652 81	59.50 93	43.13 34	92.14 189	51.590 89	47.99 214
	28.9	53.292 121	44.59 71	32.571 118	60.43 67	42.79 39	94.03 145	51.468 122	49.85 186
7	8.8	53.171 154	45.30 43	32.453 149	61.10 41	42.40 44	95.48 96	51.316 152	51.36 151
								177	114
	18.8	53.017 181	45.73 14	32.304 176	61.51 12	41.96 46	96.44 46	51.139 199	52.50 73
	28.8	52.836 201	45.87 15	32.128 197	61.63 16	41.50 48	96.90 8	50.940 213	53.23 30
8	7.8	52.635 214	45.72 45	31.931 210	61.47 45	41.02 49	96.82 59	50.727 223	53.53 13
	17.7	52.421 217	45.27 73	31.721 212	61.02 72	40.53 48	96.23 111	50.504 224	53.40 57
	27.7	52.204 209	44.54 99	31.509 206	60.30 97	40.05 46	95.12 162	50.280 218	52.83 101
9	6.7	51.995	43.55	31.303	59.33	39.59	93.50	50.062	51.82
	16.6	51.804 191	42.34 121	31.116 187	58.15 118	39.15 44	91.42 208	49.859 203	50.38 144
	26.6	51.645 159	40.95 139	30.959 157	56.80 135	38.77 38	88.89 253	49.681 178	48.53 185
10	6.6	51.526 119	39.45 150	30.843 116	55.34 146	38.45 32	85.97 292	49.536 145	46.30 223
	16.6	51.458 68	37.90 155	30.776 67	53.84 150	38.20 25	82.71 326	49.432 104	43.72 258
		8	151	8	146	17	355	54	289
	26.5	51.450	36.39	30.768	52.38	38.03	79.16	49.378	40.83
11	5.5	51.506 56	34.98 141	30.823 55	51.02 136	37.95 8	75.42 374	49.380 2	37.68 315
	15.5	51.629 123	33.75 123	30.944 121	49.85 117	37.98 3	71.55 387	49.440 60	34.34 334
	25.5	51.818 189	32.76 99	31.130 186	48.92 93	38.11 13	67.65 390	49.561 121	30.89 345
12	5.4	52.068 250	32.08 68	31.376 246	48.29 63	38.35 24	63.84 381	49.741 180	27.41 348
		305	35	301	30	33	363	236	340
	15.4	52.373	31.73 1	31.677	47.99	38.68	60.21	49.977	24.01
	25.4	52.722 349	31.74 37	32.021 344	48.04 5	39.10 42	56.88 333	50.261 284	20.78 323
	35.3	53.105 383	32.11	32.399 378	48.45 41	39.60 50	53.95 293	50.584 323	17.83 295
平位		s 51.188	″ 34.80	s 30.494	″ 50.91	s 41.076	″ 78.21	s 50.113	″ 37.99
sec δ, tan δ		+ 1.365	− 0.930	+ 1.343	− 0.897	+ 2.474	+ 2.263	+ 1.317	+ 0.857
2 回正中		5月 6 日		5月 6 日		5月 6 日		5月 7 日	
a	b	+ 0.1962	+ 0.0448	+ 0.1948	+ 0.0431	+ 0.0482	− 0.1082	+ 0.1129	− 0.0404
a′	b′	− 0.7228	+ 0.6911	− 0.7208	+ 0.6931	− 0.7173	+ 0.6968	− 0.7076	+ 0.7066
FK3番號		552		553		554		555	

本初子午線正中時

星名		σ Libr				ψ Boot				ζ Lupi				ε Libr			
等級 スペクトル型		3.4J		M3		4.67		K0		3.50		K0		4.66		A0p	
世界時		赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯
月	日	h m 15 0		° ′ −25 3		h m 15 2		° ′ +27 9		h m 15 8		° ′ −51 52		h m 15 8		° ′ −19 34	
		s		″		s		″		s		″		s		″	
1	1.4	45.490		33.56	118	0.925	309	53.40	258	12.730	445	55.43		59.718		39.67	
	11.3	45.820	330	34.74	134	1.234	327	50.82	226	13.175	466	55.52	9	60.033	315	40.99	132
	21.3	46.162	342	36.08	146	1.561	334	48.56	185	13.641	474	56.02	50	60.363	330	42.42	143
	31.3	46.507	345	37.54	154	1.895	332	46.71	139	14.115	470	56.88	86	60.696	333	43.92	150
2	10.3	46.846	339	39.08	155	2.227	320	45.32	88	14.585	454	58.09	121	61.024	328	45.43	151
			326										150		317		147
	20.2	47.172		40.63		2.547		44.44		15.039		59.59		61.341		46.90	
3	1.2	47.477	305	42.17	154	2.849	302	44.08	36	15.469	430	61.35	176	61.640	299	48.29	139
	11.2	47.759	282	43.64	147	3.127	278	44.23	15	15.870	401	63.31	196	61.917	277	49.58	129
	21.1	48.014	255	45.03	139	3.375	248	44.86	63	16.236	366	65.43	212	62.169	252	50.73	115
	31.1	48.241	227	46.32	129	3.591	216	45.93	107	16.562	326	67.67	224	62.395	226	51.74	101
			197		117		182		144		285		230		198		86
4	10.1	48.438		47.49		3.773		47.37		16.847		69.97		62.593		52.60	
	20.1	48.605	167	48.54	105	3.921	148	49.11	174	17.088	241	72.30	233	62.761	168	53.32	72
	30.0	48.741	136	49.47	93	4.034	113	51.07	196	17.283	195	74.62	232	62.901	140	53.90	58
5	10.0	48.846	105	50.29	82	4.112	78	53.15	208	17.431	148	76.89	227	63.012	111	54.37	47
	19.9	48.920	74	50.98	69	4.156	44	55.29	214	17.529	98	79.07	218	63.092	80	54.72	35
			43		58		10		210		49		204		49		26
	29.9	48.963	10	51.56	46	4.166	−22	57.39	201	17.578	−1	81.11	188	63.141	19	54.98	16
6	8.9	48.973	−21	52.02	33	4.144	52	59.40	184	17.577	52	82.99	167	63.160	13	55.14	−7
	18.9	48.952	52	52.35	22	4.092	82	61.24	164	17.525	99	84.66	141	63.147	43	55.21	1
	28.9	48.900	82	52.57	−8	4.010	109	62.88	138	17.426	146	86.07	113	63.104	72	55.20	9
7	8.8	48.818	109	52.65	4	3.901	132	64.26	108	17.280	187	87.20	82	63.032	99	55.11	17
	18.8	48.709		52.61		3.769		65.34		17.093		88.02		62.933		54.94	
	28.8	48.578	131	52.42	19	3.617	152	66.11	77	16.872	221	88.48	46	62.811	122	54.68	26
8	7.8	48.427	151	52.11	31	3.449	168	66.54	43	16.623	249	88.59	11	62.670	141	54.34	34
	17.7	48.265	162	51.67	44	3.271	178	66.63	−9	16.356	267	88.34	−25	62.515	155	53.94	40
	27.7	48.099	166	51.11	56	3.000	181	66.34	29	16.084	272	87.72	62	62.355	160	53.48	46
			163		65		176		64		265		97		158		51
	6.7	47.936		50.46		2.914		65.70		15.819		86.75		62.197		52.97	
9	16.6	47.786	150	49.75	71	2.749	165	64.70	100	15.574	245	85.48	127	62.049	148	52.45	52
	26.6	47.660	126	49.02	73	2.605	144	63.34	136	15.362	212	83.94	154	61.923	126	51.95	50
10	6.6	47.565	95	48.29	73	2.491	114	61.63	171	15.198	164	82.20	174	61.826	97	51.50	45
	16.6	47.510	55	47.63	66	2.413	78	59.60	203	15.092	106	80.34	186	61.766	60	51.14	36
			7		54		34		233		38		191		15		23
	26.5	47.503	−45	47.09		2.379	−15	57.27		15.054	−37	78.43	187	61.751	−36	50.91	6
11	5.5	47.548	101	46.70	39	2.394	68	54.68	259	15.091	115	76.56	174	61.787	89	50.85	−14
	15.5	47.649	155	46.52	18	2.462	122	51.87	281	15.206	192	74.82	154	61.876	141	50.99	37
	25.5	47.804	207	46.58	−6	2.584	173	48.91	296	15.398	266	73.28	125	62.017	192	51.36	60
12	5.4	48.011	253	46.89	31	2.757	222	45.87	304	15.664	332	72.03	91	62.209	238	51.96	85
					58				304								
	15.4	48.264		47.47		2.979		42.83		15.996		71.12		62.447		52.81	
	25.4	48.555	291	48.30	83	3.242	263	39.87	296	16.382	386	70.58	54	62.722	275	53.86	105
	35.3	48.875	320	49.37	107	3.538	296	37.11	276	16.811	429	70.44	14	63.027	305	55.11	125
平位		s 47.174		″ 47.43		s 2.670		″ 53.99		s 14.875		″ 75.38		s 61.420		″ 51.89	
sec δ, tan δ		+ 1.104		− 0.468		+ 1.124		+ 0.513		+ 1.620		− 1.275		+ 1.061		− 0.356	
2 回正中		5 月 7 日				5 月 8 日				5 月 9 日				5 月 9 日			
a	b	+ 0.1754		+ 0.0220		+ 0.1289		− 0.0240		+ 0.2155		+ 0.0579		+ 0.1707		+ 0.0161	
a′	b′	− 0.7047		+ 0.7095		− 0.7008		+ 0.7134		− 0.6812		+ 0.7321		− 0.6787		+ 0.7344	
FK3番號		556				557				558				559			

1944 本初子午線正中時

星名		3 Serp				β Circ				δ Boot				γ TriA			
等級 スペクトル型		5.44		K0		4.16		A3		3.54		K0		3.06		A0	
世界時		赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯	赤	經	赤	緯
月	日	h m 15 12		° ′ + 5 8		h m 15 13		° ′ −58 35		h m 15 13		° ′ +33 31		h m 15 13		° ′ −68 28	
		s		″		s		″		s		″		s		″	
1	1.4	22.475		51.24		4.238		16.66		12.750		20.01		35.87		6.37	
	11.3	22.766	291	49.12	212	4.746	508	16.45	−21	13.063	313	17.29	272	36.55	68	5.80	57
	21.3	23.072	306	47.12	200	5.282	536	16.67	22	13.398	335	14.94	235	37.28	73	5.72	−8
	31.3	23.384	312	45.32	180	5.828	546	17.32	65	13.744	346	13.02	192	38.02	74	6.13	41
2	10.3	23.694	310	43.77	155	6.373	545	18.37	105	14.091	347	11.62	140	38.76	74	7.01	88
			299		125		529		141		338		86		73		131
	20.2	23.993	283	42.52	91	6.902	505	19.78	172	14.429	321	10.76	29	39.49	69	8.32	171
3	1.2	24.276	263	41.61	57	7.407	471	21.50	198	14.750	298	10.47	27	40.18	65	10.03	205
	11.2	24.539	238	41.04	57	7.878	431	23.48	221	15.048	269	10.74	79	40.83	60	12.08	234
	21.1	24.777	213	40.83	21	8.309	387	25.69	237	15.317	236	11.53	126	41.43	53	14.42	258
	31.1	24.990	184	40.93	10	8.696	338	28.06	249	15.553	200	12.79	167	41.96	46	17.00	276
					40												
4	10.1	25.174	157	41.33	64	9.034	285	30.55	257	15.753	163	14.46	199	42.42	39	19.76	289
	20.1	25.331	128	41.97	85	9.319	232	33.12	259	15.916	125	16.45	222	42.81	30	22.65	296
	30.0	25.459	99	42.82	100	9.551	173	35.71	257	16.041	88	18.67	236	43.11	23	25.61	296
5	10.0	25.558	70	43.82	109	9.724	115	38.28	257	16.129	50	21.03	240	43.34	13	28.57	291
	19.9	25.628	40	44.91	113	9.839	54	40.77	238	16.179	13	23.43	238	43.47	5	31.48	280
	29.9	25.668	12	46.04	114	9.893	−7	43.15	221	16.192	−23	25.81	226	43.52	−5	34.28	263
6	8.9	25.680	17	47.18	109	9.886	67	45.36	199	16.169	57	28.07	208	43.47	13	36.91	239
	18.9	25.663	17	48.27	103	9.819	127	47.35	172	16.112	89	30.15	184	43.34	21	39.30	211
	28.9	25.618	45	49.30	93	9.692	181	49.07	141	16.023	120	31.99	155	43.13	30	41.41	176
7	8.8	25.546	72	50.23	80	9.511	232	50.48	107	15.903	146	33.54	122	42.83	36	43.17	136
			96														
	18.8	25.450	118	51.03	67	9.279	273	51.55	69	15.757	168	34.76	87	42.47	42	44.53	94
	28.8	25.332		51.70	50	9.006	306	52.24	28	15.589	186	35.63	48	42.05	47	45.47	46
8	7.8	25.197	135	52.20	34	8.700	327	52.52	−14	15.403	197	36.11	−9	41.58	49	45.93	−1
	17.7	25.049	148	52.54	−25	8.373	334	52.38	55	15.206	203	36.20	32	41.09	50	45.92	50
	27.7	24.896	153	52.69	4	8.039	327	51.83	95	15.003	199	35.88	72	40.59	49	45.42	97
			152														
	6.7	24.744		52.65	24	7.712		50.88	133	14.804	188	35.16	112	40.10	45	44.45	142
9	16.7	24.601	143	52.41	47	7.409	303	49.55	164	14.616	188	34.04	152	39.65	39	43.03	181
	26.6	24.476	125	51.94	69	7.145	264	47.91	190	14.448	168	32.52	189	39.26	32	41.22	213
10	6.6	24.378	98	51.25	93	6.935	210	46.01	208	14.310	138	30.63	224	38.94	22	39.09	238
	16.6	24.313	65	50.32	118	6.794	141	43.93	217	14.209	101	28.39	256	38.72	11	36.71	252
			24				62				56						
	26.5	24.289	−22	49.14		6.732	−25	41.76	218	14.153	−5	25.83	283	38.61	0	34.19	257
11	5.5	24.311	71	47.73	141	6.757	116	39.58	207	14.148	50	23.00	305	38.61	−14	31.62	251
	15.5	24.382	121	46.08	165	6.873	207	37.51	189	14.198	106	19.95	320	38.75	26	29.11	234
	25.5	24.503	170	44.23	185	7.080	293	35.62	162	14.304	162	16.75	328	39.01	38	26.77	207
12	5.4	24.673	213	42.22	201	7.373	371	34.00	128	14.466	214	13.47	326	39.39	49	24.70	173
					214												
	15.4	24.886		40.08		7.744		32.72		14.680		10.21		39.88		22.97	
	25.4	25.136	250	37.89	219	8.180	436	31.83	89	14.939	259	7.07	314	40.46	58	21.65	132
	35.4	25.416	280	35.70	219	8.667	487	31.37	46	15.236	297	4.15	292	41.11	65	20.80	85
平位		s 24.153		″ 45.89		s 6.688		″ 37.59		s 14.606		″ 21.74		s 39.016		″ 28.70	
sec δ, tan δ		+ 1.004		+ 0.090		+ 1.919		− 1.638		+ 1.200		+ 0.662		+ 2.725		− 2.535	
2 回正中		5 月 10 日				5 月 10 日				5 月 11 日				5 月 11 日			
a	b	+ 0.1489		− 0.0040		+ 0.2348		+ 0.0727		+ 0.1203		− 0.0294		+ 0.2797		+ 0.1122	
a′	b′	− 0.6678		+ 0.7443		− 0.6655		+ 0.7464		− 0.6651		+ 0.7468		− 0.6638		+ 0.7479	
FK3番號		562				561				563				560			

星名 / 等級 / スペクトル型	1 H. UMin 5.23 G0		β Libr 2.74 B8		φ¹ Lupi 3.59 K5		γ UMin 3.14 A2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 15 13	° ′ +67 33	h m 15 13	° ′ −9 10	h m 15 18	° ′ −36 3	h m 15 20	° ′ +72 1
	s	″	s	″	s	″	s	″
1 1.4	56.00	25.89	57.668	29.87	12.732	18.52	44.22	52.98
11.3	56.53 53	23.12 277	57.966 298	31.53 166	13.086 354	19.13 61	44.84 62	50.21 277
21.3	57.13 60	20.88 224	58.279 313	33.21 168	13.457 371	20.01 110	45.54 70	47.97 224
31.3	57.76 63	19.24 164	58.597 318	34.85 164	13.834 377	21.11 129	46.29 75	46.33 164
2 10.3	58.41 65	18.27 97	58.912 315	36.38 153	14.209 375	22.40 144	47.07 78	45.34 99
		30	305	138	363		79	30
20.2	59.06	17.97 —	59.217	37.76	14.572	23.84	47.86	45.04 —
3 1.2	59.68 62	18.36 39	59.505 288	38.95 119	14.919 347	25.38 154	48.61 75	45.43 39
11.2	60.26 58	19.39 103	59.773 268	39.93 98	15.242 323	26.98 160	49.32 71	46.46 103
21.1	60.77 51	21.03 164	60.017 244	40.69 76	15.539 297	28.60 162	49.95 63	48.09 163
31.1	61.21 44	23.17 214	60.235 218	41.22 53	15.806 267	30.22 162	50.50 55	50.24 215
	36	256	192	32	237	159	44	258
4 10.1	61.57	25.73	60.427	41.54	16.043	31.81	50.94	52.82
20.1	61.83 26	28.59 286	60.592 165	41.67 13	16.248 205	33.35 154	51.26 32	55.70 288
30.0	62.00 17	31.66 307	60.728 136	41.63 4	16.419 171	34.83 148	51.47 21	58.79 309
5 10.0	62.07 7	34.80 314	60.837 109	41.46 17	16.555 136	36.24 141	51.56 9	61.97 318
19.9	62.05 2	37.91 311	60.916 79	41.19 27	16.655 100	37.55 131	51.52 4	65.11 314
	12	297	50	35	64	120	15	301
29.9	61.93	40.88	60.966	40.84	16.719	38.75	51.37	68.12
6 8.9	61.74 19	43.63 275	60.986 20	40.43 41	16.744 25	39.82 107	51.12 25	70.92 280
18.9	61.46 28	46.07 244	60.978 8	39.99 44	16.732 12	40.75 93	50.76 36	73.40 248
28.9	61.12 34	48.13 206	60.940 38	39.53 46	16.682 50	41.51 76	50.32 44	75.51 211
7 8.8	60.71 41	49.77 164	60.873 67	39.07 46	16.597 85	42.08 57	49.80 52	77.19 168
	45	115	91	46	119	38	58	120
18.8	60.26	50.92	60.782	38.61	16.478	42.46	49.22	78.39
28.8	59.77 49	51.58 66	60.667 115	38.16 45	16.330 148	42.62 16	48.58 64	79.09 70
8 7.8	59.25 52	51.72 14	60.534 133	37.75 41	16.158 172	42.56 6	47.92 66	79.27 18
17.7	58.72 53	51.33 39	60.387 147	37.36 39	15.970 188	42.27 29	47.24 68	78.92 35
27.7	58.18 54	50.41 92	60.234 153	37.02 34	15.773 197	41.76 51	46.55 69	78.04 88
	51	142	152	28	194	71	66	138
9 6.7	57.67	48.99	60.082	36.74	15.579	41.05	45.89	76.66
16.7	57.18 49	47.08 191	59.939 143	36.54 20	15.396 183	40.16 89	45.26 63	74.78 188
26.6	56.74 44	44.71 237	59.815 124	36.44 10	15.236 160	39.13 103	44.67 59	72.44 234
10 6.6	56.35 39	41.93 278	59.718 97	36.47 3	15.111 125	38.02 111	44.16 51	69.68 276
16.6	56.04 31	38.78 315	59.656 62	36.66 19	15.029 82	36.87 115	43.74 42	66.56 312
	23	346	20	37	31	113	32	344
26.5	55.81 12	35.32	59.636 —	37.03	14.998 28	35.74	43.42	63.12
11 5.5	55.69 3	31.62 370	59.663 27	37.59 56	15.026 88	34.71 103	43.22 20	59.45 367
15.5	55.66 9	27.77 385	59.741 78	38.37 78	15.114 150	33.83 88	43.14 8	55.62 383
25.5	55.75 19	23.86 391	59.869 128	39.37 100	15.264 208	33.16 67	43.19 5	51.72 390
12 5.4	55.94 31	19.99 387	60.046 177	40.58 121	15.472 260	32.74 42	43.38 19	47.86 386
		371	221	139		13	33	371
15.4	56.25	16.28	60.267	41.97	15.732	32.61 16	43.71	44.15
25.4	56.65 40	12.82 346	60.526 259	43.52 155	16.038 306	32.77 45	44.16 45	40.70 345
35.4	57.14 49	9.75 397	60.814 288	45.16 164	16.378 340	33.22	44.72 56	37.63 307
平位	s 59.104	″ 32.83	s 59.358	″ 39.17	s 14.643	″ 34.69	s 47.925	″ 59.88
sec δ, tan δ	+ 2.620	+ 2.421	+ 1.013	− 0.162	+ 1.237	− 0.728	+ 3.242	+ 3.084
2 回正中	5 月 11 日		5 月 11 日		5 月 12 日		5 月 13 日	
a b	+ 0.0324	− 0.1070	+ 0.1614	+ 0.0071	+ 0.1903	+ 0.0315	− 0.0046	− 0.1316
a′ b′	− 0.6627	+ 0.7489	− 0.6627	+ 0.7489	− 0.6486	+ 0.7611	− 0.6401	+ 0.7683
FK3番號	565		564		566		569	

星名 / 等級 / スペクトル型	μ Boot pr 4.47 F0		τ¹ Serp 5.46 M0		ε Drac 3.47 K0		χ¹ Apds 5.65 B5p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 15 22	° ′ +37 34	h m 15 23	° ′ +15 37	h m 15 23	° ′ +59 9	h m 15 25	° ′ −73 11
	s	″	s	″	s	″	s	″
1 1.4	20.456	19.01	9.663	28.21	38.179	36.24	17.84	30.59
11.3	20.770 314	16.20 281	9.950 287	25.80 241	38.593 414	33.34 290	18.67 83	29.71 88
21.3	21.109 339	13.77 243	10.254 304	23.60 220	39.053 460	30.92 242	19.56 89	29.32 39
31.3	21.463 354	11.80 197	10.568 314	21.69 191	39.543 490	29.08 184	20.48 92	29.44 12
2 10.3	21.821 358	10.37 143	10.882 314	20.14 155	40.046 503	27.87 121	21.40 92	30.07 63
	352	86	307	115	500	55	92	108
20.2	22.173	9.51 27	11.189	18.99 72	40.546	27.32 —	22.32	31.15
3 1.2	22.509 336	9.24 32	11.481 292	18.27 29	41.028 482	27.46 14	23.20 88	32.67 152
11.2	22.823 314	9.56 86	11.753 272	17.98 15	41.479 451	28.24 78	24.03 83	34.58 191
21.2	23.108 285	10.42 136	12.002 249	18.13 54	41.886 407	29.63 139	24.80 77	36.82 224
31.1	23.359 251	11.78 179	12.225 223	18.67 90	42.241 355	31.55 192	25.50 70	39.35 253
	215		195		294	237	61	275
4 10.1	23.574	13.57	12.420	19.57	42.535	33.92	26.11	42.10
20.1	23.750 176	15.69 212	12.585 165	20.75 118	42.765 230	36.63 271	26.62 51	45.02 292
30.0	23.886 136	18.06 237	12.720 135	22.16 141	42.927 162	39.57 294	27.04 42	48.06 304
5 10.0	23.982 96	20.58 252	12.825 105	23.73 157	43.020 93	42.64 307	27.34 30	51.14 308
19.9	24.037 55	23.16 258	12.898 73	25.39 166	43.045 25	45.72 308	27.54 20	54.20 306
	16	255	43	168	41	299	7	299
29.9	24.053 —	25.71	12.941	27.07	43.004	48.71	27.61 —	57.19
6 8.9	24.030 23	28.13 242	12.953 12	28.73 166	42.900 104	51.51 280	27.57 4	60.03 284
18.9	23.969 61	30.38 225	12.934 19	30.29 156	42.736 164	54.05 254	27.42 15	62.65 262
28.9	23.874 95	32.36 198	12.885 49	31.72 143	42.519 217	56.24 219	27.15 27	65.00 235
7 8.9	23.746 128	34.05 169	12.808 77	32.98 126	42.254 265	58.05 181	26.79 36	67.01 201
	157	133	103	105	306	136	47	163
18.8	23.589	35.38	12.705	34.03	41.948	59.41	26.32	68.64
28.8	23.407 182	36.34 96	12.579 126	34.86 83	41.609 339	60.29 88	25.78 54	69.82 118
8 7.8	23.206 201	36.89 55	12.434 145	35.44 58	41.245 364	60.68 39	25.18 60	70.52 70
17.7	22.991 215	37.02 13	12.276 158	35.75 31	40.865 380	60.56 12	24.54 64	70.71 19
27.7	22.770 221	36.73 29	12.110 166	35.79 4	40.481 384	59.92 64	23.89 65	70.40 31
	219	73	165	24	377	114	64	82
9 6.7	22.551	36.00	11.945	35.55	40.104	58.78	23.25	69.58
16.7	22.343 208	34.85 115	11.787 158	35.02 53	39.744 360	57.15 163	22.64 61	68.27 131
26.6	22.154 189	33.28 157	11.646 141	34.19 83	39.416 328	55.05 210	22.11 53	66.52 175
10 6.6	21.995 159	31.32 196	11.531 115	33.06 113	39.129 287	52.52 253	21.66 45	64.41 211
16.6	21.873 122	28.99 233	11.448 83	31.65 141	38.897 232	49.60 292	21.34 32	61.99 242
	76	266	42	170	168	325	20	261
26.6	21.797	26.33	11.406 —	29.95	38.729	46.35	21.14 4	59.38
11 5.5	21.774 23	23.38 295	11.410 4	27.99 196	38.636 93	42.82 353	21.10 12	56.67 271
15.5	21.807 33	20.21 317	11.463 53	25.79 220	38.623 13	39.10 372	21.22 27	53.98 269
25.5	21.899 92	16.88 333	11.567 104	23.40 239	38.694 71	35.27 383	21.49 43	51.41 257
12 5.4	22.050 151	13.48 340	11.721 154	20.87 253	38.851 157	31.43 384	21.92 56	49.07 234
	205	338	201	261	239	373		202
15.4	22.255	10.10 326	11.922	18.26 261	39.090	27.70	22.48	47.05
25.4	22.509 254	6.84 303	12.162 240	15.65 252	39.405 315	24.19 351	23.16 68	45.43 162
35.4	22.805 296	3.81 303	12.435 273	13.13 252	39.786 381	21.00 319	23.95 79	44.26 117
平位	s 22.402	″ 21.28	s 11.417	″ 25.50	s 40.744	″ 41.86	s 21.888	″ 52.81
sec δ, tan δ	+ 1.262	+ 0.769	+ 1.038	+ 0.280	+ 1.951	+ 1.675	+ 3.459	− 3.312
2 回正中	5 月 13 日		5 月 13 日		5 月 13 日		5 月 14 日	
a b	+ 0.1137	− 0.0326	+ 0.1389	− 0.0118	+ 0.0666	− 0.0704	+ 0.3257	+ 0.1379
a′ b′	− 0.6348	+ 0.7727	− 0.6321	+ 0.7749	− 0.6304	+ 0.7763	− 0.6247	+ 0.7809
FK3番號	568		570		571		567	

星名		β CorB		ν¹ Boot		ϑ CorB		† γ Lupi *m*	
等級	スペクトル型	3.72	F0p	5.15	K5	4.17	B5	2.95	B3
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 15 25	° ′ +29 17	h m 15 28	° ′ +41 1	h m 15 30	° ′ +31 32	h m 15 31	° ′ −40 58
		s	″	s	″	s	″	s	″
1	1.4	29.250 296	51.27 271	52.929 317	20.40 288	38.282 296	48.51 277	21.900 366	31.39 28
	11.3	29.546 319	48.56 239	53.246 347	17.52 250	38.578 320	45.74 244	22.266 387	31.67 59
	21.3	29.865 331	46.17 198	53.593 363	15.02 201	38.898 335	43.30 202	22.653 398	32.26 85
	31.3	30.196 334	44.19 151	53.956 370	13.01 146	39.233 339	41.28 154	23.051 398	33.11 108
2	10.3	30.530 328	42.68 100	54.326 366	11.55 88	39.572 333	39.74 101	23.449 389	34.19 129
	20.2	30.858	41.68	54.692	10.67	39.905	38.73	23.838	35.48
3	1.2	31.171 313	41.22 46	55.044 352	10.42 25	40.226 321	38.28 45	24.212 374	36.92 144
	11.2	31.464 293	41.30 8	55.373 329	10.76 34	40.527 301	38.38 10	24.564 352	38.47 155
	21.2	31.732 268	41.89 59	55.674 301	11.67 91	40.802 275	39.01 63	24.891 327	40.11 164
	31.1	31.970 238	42.95 106	55.941 267	13.10 143	41.048 246	40.12 111	25.188 297	41.79 168
		32.175	44.42	56.169	14.97	41.261	41.66	25.455	43.49
4	10.1	32.347 172	46.22 180	56.357 188	17.19 222	41.440 179	43.53 187	25.688 233	45.19 170
	20.1	32.485 138	48.27 205	56.503 146	19.67 248	41.584 144	45.66 213	25.885 197	46.87 168
	30.0	32.586 101	50.47 220	56.606 103	22.30 263	41.691 107	47.96 230	26.046 161	48.49 162
5	10.0	32.652 66	52.75 228	56.666 60	25.00 270	41.760 69	50.34 238	26.168 122	50.05 156
	19.9	31	228	17	267	34	237	81	146
	29.9	32.683 —	55.03 219	56.683 —	27.67 255	41.794 —	52.71 229	26.249 40	51.51 135
6	8.9	32.678 5	57.22 204	56.659 24	30.22 235	41.791 3	55.00 214	26.289 40	52.86 121
	18.9	32.640 38	59.26 184	56.595 64	32.57 210	41.752 39	57.14 192	26.287 2	54.07 103
	28.9	32.569 71	61.10 158	56.493 102	34.67 178	41.680 72	59.06 165	26.242 45	55.10 84
7	8.9	32.467 102	62.68 128	56.356 137	36.45 141	41.576 104	60.71 135	26.157 85	55.94 62
		32.338	63.96	56.188	37.86	41.443	62.06	26.035	56.56
	18.8	32.184 154	64.92 96	55.993 195	38.88 102	41.284 159	63.07 101	25.879 156	56.94 38
	28.8	32.011 173	65.53 61	55.777 216	39.48 60	41.105 179	63.71 64	25.695 184	57.06 12
8	7.8	31.825 186	65.76 23	55.546 231	39.64 16	40.912 193	63.97 26	25.491 204	56.92 14
	17.7	31.631 194	65.63 13	55.308 238	39.35 29	40.710 202	63.84 13	25.275 216	56.51 41
	27.7	194	53	237	74	202	53		66
	6.7	31.437	65.10	55.071	38.61	40.508	63.31	25.059	55.85
9	16.7	31.253 184	64.20 90	54.845 226	37.43 118	40.315 193	62.38 93	24.854 205	54.96 89
	26.6	31.086 167	62.91 129	54.638 207	35.82 161	40.139 176	61.06 132	24.671 183	53.88 108
10	6.6	30.945 141	61.26 165	54.460 178	33.80 202	39.989 150	59.36 170	24.523 148	52.65 123
	16.6	30.840 105	59.27 199	54.321 139	31.39 241	39.874 115	57.30 206	24.419 104	51.34 131
		63	232	93	274	72	239	50	134
	26.6	30.777	56.95	54.228	28.65	39.802	54.91	24.369 —	50.00
11	5.5	30.763 14	54.34 261	54.190 38	25.60 305	39.779 23	52.23 268	24.380 11	48.70 130
	15.5	30.802 39	51.51 283	54.210 20	22.33 327	39.809 30	49.31 292	24.455 75	47.52 118
	25.5	30.895 93	48.49 302	54.291 81	18.90 343	39.895 86	46.21 310	24.596 141	46.52 100
12	5.4	31.042 147	45.37 312	54.433 142	15.39 351	40.037 142	43.01 320	24.800 204	45.74 78
		198	313	200	347	193	321	261	49
	15.4	31.240	42.24	54.633	11.92	40.230	39.80	25.061	45.25
	25.4	31.483 243	39.18 306	54.885 252	8.57 335	40.470 240	36.66 314	25.372 311	45.05 20
	35.4	31.763 280	36.29 289	55.182 297	5.46 311	40.748 278	33.71 295	25.721 349	45.16 11
平位		s 31.106	″ 51.72	s 54.956	″ 23.08	s 40.181	″ 49.29	s 23.992	″ 48.15
sec δ, tan δ		+ 1.147	+ 0.561	+ 1.325	+ 0.870	+ 1.173	+ 0.614	+ 1.325	− 0.869
2 回正中		5 月 14 日		5 月 15 日		5 月 15 日		5 月 15 日	
a	b	+ 0.1241	− 0.0233	+ 0.1075	− 0.0355	+ 0.1208	− 0.0248	+ 0.1995	+ 0.0350
a′	b′	− 0.6242	+ 0.7813	− 0.6125	+ 0.7905	− 0.6064	+ 0.7951	− 0.6039	+ 0.7971
FK3番號		572		573		576		575	

星名		ε TriA		α CorB		γ Libr		υ Libr	
等級	スペクトル型	4.11	K0	2.31	A0	4.02	K0	3.78	K2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 15 31	° ′ −66 7	h m 15 32	° ′ +26 53	h m 15 32	° ′ −14 36	h m 15 33	° ′ −27 56
		s	″	s	″	s	″	s	″
1	1.4	30.93 61	30.41 72	17.052 288	67.74 269	21.533 295	4.64 138	35.198 320	50.04 82
	11.3	31.54 66	29.69 26	17.340 312	65.05 240	21.828 313	6.02 145	35.518 339	50.86 100
	21.3	32.20 68	29.43 21	17.652 325	62.65 202	22.141 321	7.47 146	35.857 348	51.86 116
	31.3	32.88 68	29.64 65	17.977 329	60.63 156	22.462 321	8.93 142	36.205 349	53.02 125
2	10.3	33.56 68	30.29 107	18.306 323	59.07 108	22.783 321 314	10.35 133	36.554 340	54.27 132
	20.2	34.24	31.36	18.629	57.99	23.037	11.68	36.894	55.59
3	1.2	34.89 65	32.82 146	18.940 311	57.44 55	23.397 300	12.89 121	37.220 326	56.92 133
	11.2	35.51 62	34.62 180	19.232 292	57.42 2	23.679 282	13.93 104	37.528 308	58.23 131
	21.2	36.08 57	36.71 209	19.500 268	57.90 48	23.940 261	14.81 88	37.813 285	59.51 128
	31.1	36.60 52	39.05 234	19.740 240	58.84 94	24.178 238	15.51 70	38.073 260	60.72 121
		46	253	209	135	213	52	234	113
	10.1	37.06	41.58	19.949	60.19	24.391	16.03	38.307	61.85
4	20.1	37.46 40	44.26 268	20.127 178	61.87 168	24.577 186	16.40 37	38.512 205	62.90 105
	30.0	37.79 33	47.03 277	20.271 144	63.80 193	24.735 158	16.63 23	38.687 175	63.88 98
5	10.0	38.04 25	49.83 280	20.381 110	65.91 211	24.866 131	16.73 10	38.831 144	64.76 88
	19.9	38.22 18	52.61 278	20.457 76	68.10 219	24.967 101	16.74 1	38.943 112	65.56 80
		9	271	40	221	70	7	78	72
	29.9	38.31 1	55.32	20.497	70.31	25.037	16.67	39.021	66.28
6	8.9	38.32 — 7	57.90 258	20.503 6	72.44 213	25.076 39	16.54 13	39.065 44	66.90 62
	18.9	38.25 15	60.28 238	20.476 27	74.44 200	25.084 — 8	16.36 18	39.073 — 8	67.43 53
	28.9	38.10 23	62.41 213	20.415 61	76.25 181	25.060 24	16.14 22	39.045 28	67.84 41
7	8.9	37.87 29	64.24 183	20.324 91	77.83 158	25.004 56	15.88 26	38.983 62	68.14 30
			147	120	130	84	28	95	17
	18.8	37.58	65.71	20.204	79.13	24.920	15.60	38.888	68.31
	28.8	37.22 36	66.77 106	20.059 145	80.12 99	24.810 110	15.30 30	38.764 124	68.35 — 4
8	7.8	36.82 40	67.41 64	19.893 166	80.77 65	24.677 133	14.97 33	38.616 148	68.24 11
	17.7	36.39 43	67.58 — 17	19.713 180	81.07 30	24.528 149	14.63 34	38.449 167	67.99 25
	27.7	35.94 45	67.29 29	19.524 189	81.01 — 6	24.369 159	14.28 35	38.272 177	67.61 38
		45	75	189	42	161	34	180	52
	6.7	35.49	66.54	19.335	80.59	24.208	13.94	38.092	67.09
9	16.7	35.07 42	65.34 120	19.153 182	79.79 80	24.054 154	13.63 31	37.921 171	66.47 62
	26.6	34.69 38	63.75 159	18.987 166	78.62 117	23.917 137	13.36 27	37.768 153	65.78 69
10	6.6	34.38 31	61.81 194	18.847 140	77.10 152	23.805 112	13.17 19	37.644 124	65.04 74
	16.6	34.14 24	59.62 219	18.740 107	75.23 187	23.727 78	13.09 — 8	37.557 87	64.32 72
		13	238	66	219	37	5	— 41	67
	26.6	34.01	57.24	18.674	73.04	23.690 —	13.14	37.516	63.65
11	5.5	33.99 — 2	54.79 245	18.657 17	70.56 248	23.702 12	13.36 22	37.527 11	63.08 57
	15.5	34.07 8	52.36 243	18.691 34	67.85 271	23.764 62	13.77 41	37.595 68	62.66 42
	25.5	34.28 21	50.06 230	18.779 88	64.94 291	23.879 115	14.38 61	37.719 124	62.44 22
12	5.4	34.59 31	47.98 208	18.919 140	61.92 302	24.044 165	15.21 83	37.898 179	62.44 — 0
		42	178	191	306	211	102	228	24
	15.4	35.01	46.20	19.110	58.86	24.255	16.23	38.126	62.68
	25.4	35.52 51	44.80 140	19.346 236	55.85 301	24.506 251	17.43 120	38.399 273	63.16 48
	35.4	36.10 58	43.82 98	19.618 272	53.00 285	24.789 283	18.76 133	38.705 306	63.87 71
平位		s 34.153	″ 51.46	s 18.911	″ 67.49	s 23.335	″ 15.14	s 37.111	″ 63.79
sec δ, tan δ		+ 2.471	− 2.260	+ 1.121	+ 0.507	+ 1.033	− 0.261	+ 1.132	− 0.531
2 回正中		5 月 15 日		5 月 15 日		5 月 15 日		5 月 16 日	
a	b	+ 0.2735	+ 0.0909	+ 0.1263	− 0.0203	+ 0.1672	+ 0.0104	+ 0.1817	+ 0.0211
a′	b′	− 0.6033	+ 0.7975	− 0.6007	+ 0.7995	− 0.6005	+ 0.7997	− 0.5962	+ 0.8029
FK3番號		574		578		577		579	

星名 等級 スペクトル型	φ Boot 5.41 G5		† γ CorB 3.93 A0		α Serp 2.75 K0		β Serp 3.74 A2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 15 35	° ′ +40 31	h m 15 40	° ′ +26 28	h m 15 41	° ′ + 6 35	h m 15 43	° ′ +15 35
	s	″	s	″	s	″	s	″
1 1.4	46.774	62.87	21.462	19.38	28.626	67.04	34.232	48.04
11.4	47.084 310	59.95 292	21.744 282	16.67 271	28.900 274	64.89 215	34.505 273	45.61 243
21.3	47.424 340	57.41 254	22.050 306	14.25 242	29.195 295	62.87 202	34.800 295	43.37 224
31.3	47.783 359	55.34 207	22.371 321	12.20 205	29.500 305	61.04 183	35.107 307	41.41 196
2 10.3	48.149 366	53.82 152	22.696 325	10.58 162	29.807 307	59.48 156	35.419 312	39.79 162
	364	94	323	112	303	126	307	121
20.2	48.513	52.88	23.019	9.46 60	30.110	58.22	35.726	38.58
3 1.2	48.864 351	52.55 33	23.330 311	8.86 7	30.401 291	57.32 90	36.023 297	37.79 79
11.2	49.195 331	52.83 85	23.624 294	8.79 43	30.677 276	56.77 55	36.304 281	37.45 34
21.2	49.499 304	53.68 137	23.894 270	9.22 90	30.932 255	56.59 18	36.564 260	37.54 9
31.1	49.770 271	55.05 182	24.139 245	10.12 130	31.165 233	56.76 17	36.801 237	38.04 50
	234		216		208	48	211	86
4 10.1	50.004	56.87	24.355	11.42 166	31.373	57.24	37.012	38.90
20.1	50.199 195	59.05 218	24.539 184	13.08 192	31.555 182	57.99 75	37.195 183	40.08 118
30.1	50.353 154	61.51 246	24.691 152	15.00 209	31.709 154	58.95 96	37.350 155	41.50 142
5 10.0	50.464 111	64.13 262	24.809 118	17.09 220	31.835 126	60.08 113	37.474 124	43.09 159
20.0	50.533 69	66.83 270	24.892 83	19.29 221	31.932 97	61.31 123	37.568 94	44.79 170
	26	268	49		67	129	61	174
29.9	50.559 16	69.51 258	24.941 14	21.50 216	31.999 35	62.60 129	37.629 30	46.53 172
6 8.9	50.543 21	72.09 239	24.955 21	23.66 203	32.034 5	63.89 124	37.659 2	48.25 164
18.9	50.487 56	74.48 214	24.934 54	25.69 185	32.039 26	65.13 117	37.657 35	49.89 152
28.9	50.393 94	76.62 183	24.880 87	27.54 163	32.013 57	66.30 106	37.622 65	51.41 135
7 8.9	50.262 131	78.45 148	24.793 115	29.17 134	31.956 85	67.36 92	37.557 94	52.76 115
	162							
18.8	50.100 191	79.93 109	24.678 142	30.51 105	31.871 110	68.28 77	37.463 120	53.91
28.8	49.909 213	81.02 68	24.536 164	31.56 72	31.761 132	69.05 59	37.343 142	54.84 68
8 7.8	49.696 229	81.70 23	24.372 180	32.28 37	31.629 149	69.64 41	37.201 159	55.52 41
17.8	49.467 237	81.93 20	24.192 190	32.65 1	31.480 160	70.05 21	37.042 169	55.93 14
27.7	49.230 238	81.73 66	24.002 192	32.66 36	31.320 162	70.26 0	36.873 172	56.07 15
9 6.7	48.992	81.07	23.810	32.30	31.158	70.26 23	36.701	55.92
16.7	48.763 229	79.97 110	23.625 185	31.57 73	31.001 157	70.03 45	36.534 167	55.48 44
26.6	48.552 211	78.43 154	23.454 171	30.48 109	30.857 144	69.58 69	36.380 154	54.74 74
10 6.6	48.369 183	76.48 195	23.307 147	29.02 146	30.737 120	68.89 94	36.249 131	53.70 104
16.6	48.224 145	74.15 233	23.193 114	27.22 180	30.647 90	67.95 118	36.149 100	52.36 134
	99	269	73	213	52		61	162
26.6	48.125 47	71.46	23.120 27	25.09 242	30.595 6	66.77	36.088 17	50.74
11 5.5	48.078 12	68.47 299	23.093 25	22.67 267	30.589 41	65.34 143	36.071 33	48.84 190
15.5	48.090 72	65.24 323	23.118 79	20.00 286	30.630 92	63.69 165	36.104 83	46.70 214
25.5	48.162 133	61.84 340	23.197 131	17.14 300	30.722 141	61.82 187	36.187 134	44.36 234
12 5.5	48.295 191	58.35 349	23.328 182	14.14 304	30.863 186	59.79 203	36.321 180	41.86 250
		348				216		259
15.4	48.486 244	54.87	23.510 227	11.10 300	31.049 227	57.63 221	36.501 223	39.27 261
25.4	48.730 289	51.52 335	23.737 265	8.10 286	31.276 261	55.42 221	36.724 258	36.66 253
35.4	49.019	48.38 314	24.002	5.24	31.537	53.21	36.982	34.13
平位	s 48.817	″ 65.19	s 23.346	″ 18.82	s 30.426	″ 61.93	s 36.062	″ 45.03
sec δ, tan δ	+ 1.316	+ 0.855	+ 1.117	+ 0.498	+ 1.007	+ 0.116	+ 1.038	+ 0.279
2 回正中	5月 16 日		5月 17 日		5月 18 日		5月 18 日	
a b	+ 0.1072	− 0.0335	+ 0.1261	− 0.0190	+ 0.1470	− 0.0044	+ 0.1379	− 0.0104
a′ b′	− 0.5885	+ 0.8085	− 0.5722	+ 0.8201	− 0.5682	+ 0.8229	− 0.5606	+ 0.8281
FK3番號	580		581		582		583	

星名 等級 スペクトル型	12 H. Drac 5.13 A2		ζ UMin 4.34 A2		x Serp 4.28 K5		μ Serp 3.63 A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 15 45	° ′ +62 46	h m 15 45	° ′ +77 57	h m 15 46	° ′ +18 18	h m 15 46	° ′ − 3 15
	s	″	s	″	s	″	s	″
1 1.4	45.46	14.93	55.39	57.82	11.171	50.43	39.841	29.36
11.4	45.87 41	11.86 307	56.16 77	54.90 292	11.443 272	47.92 251	40.116 275	31.14 178
21.3	46.35 48	9.25 261	57.07 91	52.47 243	11.737 294	45.62 230	40.411 295	32.89 175
31.3	46.87 52	7.19 206	58.09 102	50.60 187	12.045 308	43.61 201	40.717 306	34.53 164
2 10.3	47.41 54	5.76 143	59.17 108	49.38 122	12.359 314	41.98 163	41.025 308	36.02 149
	55	77	112	56	310	121	304	127
20.2	47.96	4.99 8	60.29	48.82 12	12.669	40.77	41.329	37.29
3 1.2	48.49 53	4.91 59	61.39 110	48.94 78	12.968 299	40.01 29	41.622 293	38.32 103
11.2	49.01 52	5.50 122	62.45 106	49.72 141	13.253 285	39.72 17	41.901 279	39.08 76
21.2	49.48 47	6.72 178	63.41 96	51.13 194	13.516 263	39.89 59	42.160 259	39.56 48
31.1	49.90 42	8.50 228	64.26 85	53.07 241	13.756 240	40.48 97	42.397 237	39.77 21
	36		71		214		215	4
4 10.1	50.26	10.78	64.97	55.48	13.970	41.45	42.612	39.73
20.1	50.54 28	13.43 265	65.52 55	58.25 277	14.156 186	42.74 129	42.801 189	39.47 26
30.1	50.76 22	16.36 293	65.90 38	61.26 301	14.313 157	44.29 155	42.964 163	39.02 45
5 10.0	50.89 13	19.46 310	66.09 19	64.41 315	14.439 126	46.02 173	43.100 136	38.43 59
20.0	50.95 6	22.62 316	66.10 1	67.57 316	14.533 94	47.85 183	43.207 107	37.74 69
	2	310	17	309	62	188	78	75
29.9	50.93	25.72	65.93	70.66	14.595	49.73	43.285	36.99
6 8.9	50.84 9	28.68 296	65.59 34	73.56 290	14.624 29	51.57 184	43.331 46	36.20 79
18.9	50.68 16	31.40 272	65.09 50	76.20 264	14.620 4	53.33 176	43.346 15	35.42 78
28.9	50.45 23	33.80 240	64.45 64	78.50 230	14.583 37	54.96 163	43.330 16	34.66 76
7 8.9	50.16 29	35.83 203	63.68 77	80.40 190	14.516 67	56.40 144	43.282 48	33.95 71
	34	161	87	145	97	123	77	64
18.8	49.82	37.44	62.81	81.85	14.419	57.63	43.205	33.31
28.8	49.43 39	38.58 114	61.85 96	82.82 97	14.295 124	58.61 98	43.101 104	32.74 57
8 7.8	49.02 41	39.22 64	60.83 102	83.27 45	14.149 146	59.32 71	42.974 127	32.27 47
17.8	48.58 44	39.35 13	59.77 106	83.21 6	13.986 163	59.74 42	42.829 145	31.89 38
27.7	48.13 45	38.96 39	58.69 108	82.62 59	13.812 174	59.87 13	42.673 156	31.62 27
	45	90	106	109	177	18	161	16
9 6.7	47.68	38.06	57.63	81.53	13.635	59.69	42.512	31.46
16.7	47.24 44	36.64 142	56.60 103	79.93 160	13.463 172	59.19 50	42.356 156	31.44 2
26.6	46.83 41	34.74 190	55.63 97	77.86 207	13.303 160	58.38 81	42.213 143	31.56 12
10 6.6	46.47 36	32.39 235	54.76 87	75.35 251	13.167 136	57.24 114	42.093 120	31.85 29
16.6	46.16 31	29.61 278	54.00 76	72.45 290	13.061 106	55.80 144	42.003 90	32.32 47
	24	314	63	324	67	174	51	66
26.6	45.92 17	26.47	53.37 46	69.21	12.994 22	54.06 202	41.952 7	32.98 86
11 5.5	45.75 8	23.02 345	52.91 29	65.70 351	12.972 27	52.04 227	41.945 43	33.84 108
15.5	45.67 2	19.34 368	52.62 9	61.98 372	12.999 78	49.77 248	41.988 92	34.92 127
25.5	45.69 11	15.51 383	52.53 10	58.16 382	13.077 129	47.29 263	42.080 142	36.19 147
12 5.5	45.80 21	11.65 386	52.63 30	54.33 383	13.206 178	44.66 270	42.222 188	37.66 162
		381		373				
15.4	46.01	7.84 363	52.93	50.60	13.384	41.96	42.410	39.28
25.4	46.30 29	4.21 334	53.43 50	47.08 352	13.604 220	39.24 272	42.639 229	41.01 173
35.4	46.67 37	0.87	54.10 67	43.88 320	13.860 256	36.61 263	42.900 261	42.80 179
平位	s 48.337	″ 19.77	s 60.699	″ 63.52	s 13.021	″ 48.00	s 41.668	″ 36.85
sec δ, tan δ	+ 2.186	+ 1.943	+ 4.797	+ 4.691	+ 1.053	+ 0.331	+ 1.002	− 0.057
2 回正中	5月 19 日		5月 20 日		5月 20 日		5月 20 日	
a b	+ 0.0453	− 0.0716	− 0.1075	− 0.1726	+ 0.1349	− 0.0122	+ 0.1565	+ 0.0021
a′ b′	− 0.5526	+ 0.8334	− 0.5519	+ 0.8339	− 0.5511	+ 0.8344	− 0.5494	+ 0.8356
FK3番號	587		590		584		585	

星名		χ Lupi		ε Serp		β TriA		γ Serp	
等級		4.11		3.75		3.04		3.86	
スペクトル型		C	B9		A2		F0		F5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 15 47	° ′ −33 27	h m 15 47	° ′ + 4 38	h m 15 50	° ′ −63 15	h m 15 53	° ′ +15 50
		s	″	s	″	s	″	s	″
1	1.4	21.508 327	14.97 48	59.481 270	47.55 207	8.01 54	16.15 84	49.974 266	38.24 248
	11.4	21.835 349	15.45 69	59.751 291	45.48 197	8.55 59	15.31 40	50.240 290	35.76 230
	21.3	22.184 362	16.14 89	60.042 303	43.51 180	9.14 61	14.91 2	50.530 304	33.46 202
	31.3	22.546 365	17.03 105	60.345 306	41.71 155	9.75 62	14.93 45	50.834 310	31.44 167
2	10.3	22.911 359	18.08 117	60.651 303	40.16 126	10.37 62	15.38 84	51.144 308	29.77 128
	20.3	23.270 348	19.25 125	60.954 292	38.90 94	10.99 60	16.22 121	51.452 299	28.49 85
3	1.2	23.618 331	20.50 129	61.246 278	37.96 59	11.59 58	17.43 154	51.751 285	27.64 40
	11.2	23.949 310	21.79 131	61.524 258	37.37 24	12.17 55	18.97 182	52.036 266	27.24 3
	21.2	24.259 285	23.10 130	61.782 237	37.13 9	12.72 50	20.79 208	52.302 244	27.27 46
	31.1	24.544 259	24.40 128	62.019 213	37.22 40	13.22 45	22.87 227	52.546 219	27.73 83
	10.1	24.803 230	25.68 125	62.232 188	37.62 66	13.67 40	25.14 243	52.765 192	28.56 114
4	20.1	25.033 200	26.93 120	62.420 161	38.28 87	14.07 34	27.57 255	52.957 165	29.70 140
	30.1	25.233 168	28.13 115	62.581 133	39.15 103	14.41 27	30.12 260	53.122 134	31.10 158
5	10.0	25.401 133	29.28 109	62.714 104	40.18 114	14.68 21	32.72 262	53.256 103	32.68 170
	20.0	25.534 96	30.37 101	62.818 74	41.32 120	14.89 13	35.34 257	53.359 72	34.38 175
	29.9	25.630	31.38	62.892	42.52	15.02	37.91	53.431	36.13
6	8.9	25.689 59	32.31 93	62.934 42	43.73 121	15.08 6	40.40 249	53.470 39	37.86 173
	18.9	25.709 20	33.15 84	62.946 12	44.91 118	15.06 2	42.73 233	53.476 6	39.52 166
	28.9	25.690 19	33.87 72	62.926 20	46.02 111	14.97 9	44.85 212	53.449 27	41.06 154
7	8.9	25.633 57	34.45 58	62.875 51	47.03 101	14.80 17	46.71 186	53.390 59	42.43 137
		94	43	80	88	23	155	88	117
	18.8	25.539 128	34.88 26	62.795	47.91	14.57	48.26	53.302	43.60
	28.8	25.411 155	35.14 8	62.688 107	48.66 75	14.28 29	49.45 119	53.186 116	44.55 95
8	7.8	25.256 177	35.22 10	62.559 129	49.25 59	13.93 35	50.24 79	53.046 140	45.25 70
	17.8	25.079 192	35.12 30	62.411 148	49.67 42	13.56 37	50.60 36	52.888 158	45.68 43
	27.7	24.887 195	34.82 48	62.253 158 163	49.90 23 5	13.16 40 41	50.52 8 53	52.717 171 175	45.84 16 14
	6.7	24.692 189	34.34 64	62.090 159	49.95 16	12.75 39	49.99 95	52.542 171	45.70
9	16.7	24.503 172	33.70 77	61.931 146	49.79 37	12.36 35	49.04 135	52.371 159	45.27 43
	26.7	24.331 144	32.93 88	61.785 124	49.42 60	12.01 35	47.69 170	52.212 159	44.53 74
10	6.6	24.187 106	32.05 93	61.661 94	48.82 83	11.70 31	45.99 198	52.074 138	43.49 104
	16.6	24.081 59	31.12 92	61.567 55	47.99 107	11.47 23 15	44.01 218	51.965 109 70	42.15 134 163
	26.6	24.022 4	30.20 87	61.512 12	46.92 130	11.32 6	41.83 229	51.895 26	40.52 190
11	5.5	24.018 54	29.33 76	61.500 37	45.62 153	11.26 5	39.54 230	51.869 22	38.62 216
	15.5	24.072 114	28.57 60	61.537 86	44.09 174	11.31 15	37.24 221	51.891 73	36.46 236
	25.5	24.186 172	27.97 39	61.623 136	42.35 191	11.46 26	35.03 204	51.964 123	34.10 253
12	5.5	24.358 226	27.58 16	61.759 181	40.44 204	11.72 35	32.99 177	52.087 171	31.57 262
	15.4	24.584	27.42 10	61.940	38.40	12.07	31.22	52.258	28.95
	25.4	24.857 273	27.52 34	62.163 223	36.29 211	12.51 44	29.77 145	52.473 215	26.31 264
	35.4	25.169 312	27.86	62.419 256	34.16 213	13.01 50	28.70 107	52.723 250	23.72 259
平位		s 23.577	″ 29.47	s 61.304	″ 41.96	s 11.247	″ 35.68	s 51.840	″ 35.16
sec δ, tan δ		+ 1.199	− 0.661	+ 1.003	+ 0.081	+ 2.223	− 1.985	+ 1.039	+ 0.284
2 回正中		5 月 20 日		5 月 20 日		5 月 20 日		5 月 20 日	
a	b	+ 0.1902	+ 0.0242	+ 0.1488	− 0.0029	+ 0.2650	+ 0.0710	+ 0.1372	− 0.0099
a′	b′	− 0.5469	+ 0.8372	− 0.5446	+ 0.8387	− 0.5366	+ 0.8438	− 0.5230	+ 0.8523
FK3番號		586		588		589		591	

星名		ε CorB		π Scor		Grb 2296 Drac		δ Scor	
等級		4.22		3.00		4.96		2.54	
スペクトル型		K0		B2		A5		B0	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 15 55	° ′ +27 2	h m 15 55	° ′ −25 57	h m 15 56	° ′ +54 54	h m 15 56	° ′ −22 27
		s	″	s	″	s	″	s	″
1	1.4	14.082 271	20.76 277	25.507 301	3.26 75	24.939 340	22.72 315	59.053 293	38.24 91
	11.4	14.353 297	17.99 249	25.808 324	4.01 92	25.279 388	19.57 274	59.346 316	39.15 103
	21.3	14.650 315	15.50 213	26.132 337	4.93 103	25.667 423	16.83 221	59.662 328	40.18 112
	31.3	14.965 323	13.37 170	26.469 341	5.96 111	26.090 444	14.62 163	59.990 332	41.30 117
2	10.3	15.288 323	11.67 121	26.810 337	7.07 115	26.534 450	12.99 98	60.322 329	42.47 116
	20.3	15.611 314	10.46 68	27.147 327	8.22 115	26.984 444	12.01 32	60.651 319	43.63 113
3	1.2	15.925 300	9.78 15	27.474 313	9.37 113	27.428 425	11.69 35	60.970 306	44.76 106
	11.2	16.225 280	9.63 37	27.787 294	10.50 106	27.853 395	12.04 98	61.276 287	45.82 97
	21.2	16.505 256	10.00 85	28.081 272	11.56 100	28.248 357	13.02 156	61.563 266	46.79 86
	31.1	16.761 228	10.85 128	28.353 248	12.56 91	28.605 310	14.58 206	61.829 243	47.65 77
	10.1	16.989 198	12.13 164	28.601 223	13.47 84	28.915 259	16.64 247	62.072 218	48.42 66
4	20.1	17.187 166	13.77 193	28.824 195	14.31 77	29.174 202	19.11 277	62.290 191	49.08 57
	30.1	17.353 133	15.70 212	29.019 165	15.08 69	29.376 144	21.88 298	62.481 163	49.65 49
5	10.0	17.486 98	17.82 224	29.184 134	15.77 62	29.520 84	24.86 307	62.644 132	50.14 41
	20.0	17.584 63	20.06 228	29.318 100	16.39 56	29.604 24	27.93 306	62.776 100	50.55 35
	29.9	17.647 27	22.34 223	29.418 66	16.95 49	29.628 35	30.99 295	62.876 65	50.90 28
6	8.9	17.674 9	24.57 213	29.484 29	17.44 43	29.593 92	33.94 276	62.941 31	51.18 23
	18.9	17.665 44	26.70 195	29.513 7	17.87 35	29.501 146	36.70 248	62.972 5	51.41 17
	28.9	17.621 78	28.65 173	29.506 44	18.22 27	29.355 196	39.18 214	62.967 41	51.58 12
7	8.9	17.543 109	30.38 146	29.462 79	18.49 17	29.159 241	41.32 175	62.926 74	51.70 4
	18.8	17.434 139	31.84 116	29.383 110	18.66 7	28.918 279	43.07 132	62.852 106	51.74 3
	28.8	17.295 162	33.00 82	29.273 139	18.73 4	28.639 311	44.39 85	62.746 133	51.71 11
8	7.8	17.133 181	33.82 48	29.134 159	18.69 15	28.328 334	45.24 36	62.613 155	51.60 19
	17.8	16.952 193	34.30 12	28.975 175	18.54 26	27.994 347	45.60 15	62.458 169	51.41 26
	27.7	16.759 198	34.42 26	28.800 180	18.28 38	27.647 350	45.45 64	62.289 175	51.15 34
	6.7	16.561 195	34.16 64	28.620 177	17.90 46	27.297 342	44.81 116	62.114 172	50.81 40
9	16.7	16.366 181	33.52 101	28.443 162	17.44 54	26.955 323	43.65 163	61.942 158	50.41 43
	26.7	16.185 159	32.51 138	28.281 138	16.90 57	26.632 291	42.02 210	61.784 135	49.98 44
10	6.6	16.026 128	31.13 174	28.143 103	16.33 57	26.341 247	39.92 253	61.649 101	49.54 42
	16.6	15.898 90	29.39 208	28.040 61	15.76 57 53	26.094 194	37.39 291	61.548 61	49.12 34
	26.6	15.808 43	27.31 238	27.979 10	15.23 44	25.900 130	34.48 324	61.487 11	48.78 25
11	5.5	15.765 8	24.93 264	27.969 43	14.79 32	25.770 59	31.24 352	61.476 40	48.53 10
	15.5	15.773 61	22.29 286	28.012 99	14.47 15	25.711 16	27.72 369	61.516 96	48.43 6
	25.5	15.834 115	19.43 299	28.111 154	14.32 4	25.727 94	24.03 377	61.612 148	48.49 25
12	5.5	15.949 166	16.44 307	28.265 205	14.36 25	25.821 170	20.26 377	61.760 198	48.74 46
	15.4	16.115	13.37	28.470	14.61	25.991	16.49	61.958	49.20
	25.4	16.327 212	10.34 303	28.720 250	15.07 46	26.234 243	12.86 363	62.201 243	49.85 65
	35.4	16.580 253	7.43 291	29.006 286	15.73 66	26.541 307	9.48 338	62.479 278	50.68 83
平位		s 16.019	″ 19.95	s 27.522	″ 15.82	s 27.440	″ 26.21	s 61.037	″ 49.99
sec δ, tan δ		+ 1.123	+ 0.510	+ 1.112	− 0.487	+ 1.739	+ 1.423	+ 1.082	− 0.413
2 回正中		5 月 21 日		5 月 21 日		5 月 22 日		5 月 22 日	
a	b	+ 0.1242	− 0.0176	+ 0.1811	+ 0.0168	+ 0.0719	− 0.0487	+ 0.1770	+ 0.0141
a′	b′	− 0.5178	+ 0.8555	− 0.5171	+ 0.8560	− 0.5133	+ 0.8582	− 0.5112	+ 0.8595
FK3番號		593		592		595		594	

本初子午線正中時

星名		ϑ Drac		β Scor *pr*		δ Norm		ϑ Lupi	
等級	スペクトル型	4.11	F 8	2.90	B 1	4.84	A 3 p	4.33	B 3
世界時		赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月	日	h m 16 0	° ′ +58 42	h m 16 2	° ′ −19 39	h m 16 2	° ′ −45 1	h m 16 2	° ′ −36 38
		s	″	s	″	s	″	s	″
1	1.4	47.403	47.69	8.594	2.40	29.019	6.85	52.230	51.23
	11.4	47.759 356	44.51 318	8.879 285	3.41 101	29.382 363	6.66 19	52.557 327	51.43 20
	21.3	48.171 412	41.76 275	9.187 308	4.51 110	29.774 392	6.76 10	52.910 353	51.86 43
	31.3	48.622 451	39.52 224	9.507 320	5.68 117	30.185 411	7.16 40	53.279 369	52.51 65
2	10.3	49.100 478	37.88 164	9.833 326	6.86 118	30.604 419	7.81 65	53.654 375	53.34 83
		488	98	323	115	417	89	373	99
	20.3	49.588	36.90	10.156	8.01 109	31.021	8.70	54.027	54.33
3	1.2	50.072 484	36.59 31	10.471 315	9.10 98	31.429 408	9.79 109	54.392 365	55.43 110
	11.2	50.537 465	36.95 36	10.773 302	10.08 87	31.821 392	11.05 126	54.741 349	56.62 119
	21.2	50.970 433	37.95 100	11.057 284	10.95 74	32.191 370	12.45 140	55.072 331	57.86 124
	31.2	51.363 393	39.54 159	11.322 265	11.69 62	32.537 346	13.96 151	55.380 308	59.13 127
		341	210	242		316	159	283	129
4	10.1	51.704 283	41.64 252	11.564 218	12.31 50	32.853 284	15.55 164	55.663 254	60.42 129
	20.1	51.987 222	44.16 283	11.782 193	12.81 40	33.137 250	17.19 169	55.917 225	61.71 128
	30.1	52.209 155	46.99 304	11.975 164	13.21 30	33.387 211	18.88 169	56.142 191	62.99 125
5	10.0	52.364 88	50.03 314	12.139 135	13.51 23	33.598 170	20.57 167	56.333 155	64.24 122
	20.0	52.452 21	53.17 312	12.274 103	13.74 17	33.768 126	22.24 164	56.488 118	65.46 116
	29.9	52.473 46	56.29	12.377	13.91 12	33.894 80	23.88	56.606 78	66.62
6	8.9	52.427 110	59.31 302	12.447 70	14.03 7	33.974 33	25.45 157	56.684 36	67.73 111
	18.9	52.317 170	62.13 282	12.481 34	14.10 7	34.007 15	26.91 146	56.720 6	68.74 101
	28.9	52.147 227	64.68 255	12.481 0	14.13 3	33.992 64	28.24 133	56.714 48	69.65 91
7	8.9	51.920 275	66.88 220	12.445 36	14.12 1	33.928 108	29.40 116	56.666 88	70.43 78
			181	69	6		95		63
	18.9	51.645	68.69	12.376	14.06	33.820	30.35	56.578	71.06
	28.8	51.326 319	70.05 136	12.275 101	13.96 10	33.669 151	31.07 72	56.453 125	71.51 45
8	7.8	50.972 354	70.94 89	12.147 128	13.81 15	33.483 186	31.53 46	56.295 158	71.76 25
	17.8	50.593 379	71.33 39	11.997 150	13.60 21	33.269 214	31.71 18	56.113 182	71.81 5
	27.7	50.199 394	71.20 13	11.831 166	13.35 25	33.036 233	31.60 11	55.913 200	71.64 17
		398	63	172	30	241	41	208	38
9	6.7	49.801	70.57	11.659	13.05	32.795	31.19	55.705	71.26
	16.7	49.411 390	69.43 114	11.489 170	12.73 32	32.559 236	30.51 68	55.502 203	70.68 58
	26.7	49.041 370	67.79 164	11.332 157	12.39 34	32.340 219	29.57 94	55.312 190	69.93 75
10	6.6	48.706 335	65.68 211	11.196 136	12.07 32	32.151 189	28.42 115	55.150 162	69.03 90
	16.6	48.417 289	63.13 255	11.092 104	11.79 28	32.005 146	27.10 132	55.025 125	68.04 99
		232	294	63	20	92	141	78	104
	26.6	48.185	60.19	11.029	11.59 9	31.913 31	25.69 146	54.947 24	67.00 102
11	5.6	48.023 162	56.92 327	11.012 17	11.50 6	31.882 36	24.23 141	54.923 37	65.98 95
	15.5	47.936 87	53.38 354	11.047 35	11.56 23	31.918 106	22.82 131	54.960 99	65.03 82
	25.5	47.932 4	49.65 373	11.135 88	11.79 41	32.024 175	21.51 114	55.059 160	64.21 64
12	5.5	48.013 81	45.84 381	11.276 141	12.20 61	32.199 238	20.37 92	55.219 216	63.57 43
		166	380	189					
	15.4	48.179	42.04	11.465	12.81	32.437	19.45	55.435	63.14
	25.4	48.424 245	38.37 367	11.699 234	13.59 78	32.732 295	18.80 65	55.702 267	62.95 19
	35.4	48.742 318	34.96 341	11.968 269	14.54 95	33.074 342	18.44 36	56.011 309	63.01 6
平位		s 50.093	″ 51.35	s 10.578	″ 13.37	s 31.449	″ 22.85	s 54.455	″ 65.67
sec δ, tan δ		+ 1.926	+ 1.646	+ 1.062	− 0.357	+ 1.415	− 1.001	+ 1.246	− 0.744
2 回正中		5 月 23 日		5 月 23 日		5 月 23 日		5 月 23 日	
a	b	+ 0.0581	− 0.0545	+ 0.1741	+ 0.0117	+ 0.2115	+ 0.0327	+ 0.1966	+ 0.0243
a′	b′	− 0.4968	+ 0.8678	− 0.4918	+ 0.8707	− 0.4904	+ 0.8715	− 0.4890	+ 0.8723
FK3番號		598		597		596		599	

本初子午線正中時

星名		φ Herc		χ Norm		δ TriA		δ Ophi	
等級	スペクトル型	4.26	B 9 p	5.09	K 0	4.03	G 0	3.03	M 0
世界時		赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月	日	h m 16 6	° ′ +45 4	h m +16 9	° ′ −54 28	h m 16 10	° ′ −63 32	h m 16 11	° ′ − 3 32
		s	″	s	″	s	″	s	″
1	1.4	57.933	49.11	0.090	58.39	15.82	23.61	22.541	58.52
	11.4	58.223 290	45.97 314	0.508 418	57.70 69	16.34 52	22.53 108	22.800 259	60.22 170
	21.3	58.553 330	43.19 278	0.965 457	57.37 33	16.91 57	21.84 69	23.082 282	61.89 167
	31.3	58.910 357	40.87 232	1.447 482	57.38 1	17.51 60	21.57 27	23.379 297	63.47 158
2	10.3	59.284 374	39.09 178	1.942 495	57.74 36	18.14 63	21.70 13	23.683 304	64.90 143
		381	119	496	69		53	303	122
	20.3	59.665	37.90	2.438	58.43	18.77	22.23	23.986	66.12
3	1.2	60.041 376	37.35 55	2.926 488	59.40 97	19.39 62	23.14 91	24.283 297	67.11 99
	11.2	60.403 362	37.43 8	3.398 472	60.64 124	19.99 60	24.38 124	24.569 286	67.83 72
	21.2	60.744 341	38.13 70	3.846 448	62.11 147	20.56 57	25.93 155	24.840 271	68.27 44
	31.2	61.055 311	39.39 126	4.265 419	63.77 166	21.10 54	27.74 181	25.092 252	68.45 18
		277	177	385	182	49	205	233	8
4	10.1	61.332	41.16	4.650	65.59	21.59	29.79	25.325	68.37
	20.1	61.569 237	43.35 219	4.997 347	67.54 195	22.03 44	32.02 223	25.534 209	68.08 29
	30.1	61.764 195	45.87 252	5.300 303	69.59 205	22.41 38	34.40 238	25.719 185	67.59 49
5	10.0	61.915 151	48.61 274	5.557 257	71.70 211	22.73 32	36.89 249	25.878 159	66.96 63
	20.0	62.018 103	51.47 286	5.763 206	73.83 213	22.98 25	39.42 253	26.009 131	66.23 73
		56	290	151	212	18	254	100	79
	29.9	62.074	54.37	5.914	75.95	23.16	41.96	26.109	65.44
6	8.9	62.083 9	57.20 283	6.008 94	78.00 205	23.26 10	44.44 248	26.178 69	64.61 83
	18.9	62.045 38	59.87 267	6.043 35	79.96 196	23.29 3	46.82 238	26.214 36	63.79 82
	28.9	61.961 84	62.32 245	6.018 25	81.76 180	23.23 6	49.02 220	26.217 3	63.01 78
7	8.9	61.834 127	64.48 216	5.934 84	83.36 160	23.10 13	51.01 199	26.186 31	62.27 74
		166	181	140	137	20	170	63	66
	18.9	61.668	66.29	5.794	84.73	22.90	52.71	26.123	61.61
	28.8	61.466 202	67.72 143	5.603 191	85.81 108	22.63 27	54.09 138	26.030 93	61.03 58
8	7.8	61.235 231	68.71 99	5.367 236	86.57 76	22.30 33	55.09 100	25.910 120	60.55 48
	17.8	60.981 254	69.26 55	5.097 270	86.97 40	21.93 37	55.67 58	25.769 141	60.16 39
	27.7	60.712 269	69.34 8	4.803 294	87.01 4	21.53 40	55.83 16	25.612 157	59.89 27
		275	39	304	33	41	30	165	16
9	6.7	60.437	68.95	4.499	86.68	21.12	55.53	25.447	59.73
	16.7	60.166 271	68.09 86	4.199 300	85.98 70	20.72 40	54.80 73	25.282 165	59.70 3
	26.7	59.908 258	66.75 134	3.920 279	84.94 104	20.34 38	53.65 115	25.127 155	59.81 11
10	6.6	59.675 233	64.97 178	3.677 243	83.59 135	20.01 33	52.12 153	24.991 136	60.08 27
	16.6	59.477 198	62.76 221	3.483 194	82.00 159	19.74 27	50.29 183	24.884 107	60.51 43
		154	260	131	177	19	208	72	62
	26.6	59.323	60.16	3.352	80.23	19.55	48.21	24.812	61.13
11	5.6	59.222 101	57.22 294	3.294 58	78.36 187	19.46 9	45.97 224	24.783 29	61.94 81
	15.5	59.181 41	53.99 323	3.317 23	76.46 190	19.46 0	43.67 230	24.802 19	62.95 101
	25.5	59.203 22	50.54 345	3.422 105	74.64 182	19.58 12	41.40 227	24.871 69	64.15 120
12	5.5	59.290 87	46.97 357	3.609 187	72.95 169	19.79 21	39.26 214	24.989 118	65.53 138
		150	360	264	147	32	193	166	154
	15.4	59.440	43.37	3.873	71.48	20.11	37.33	25.155	67.07
	25.4	59.650 210	39.84 353	4.207 334	70.28 120	20.52 41	35.68 165	25.363 208	68.72 165
	35.4	59.914 264	36.50 334	4.599 392	69.40 88	21.00 48	34.38 130	25.606 243	70.43 171
平位		s 60.165	″ 50.89	s 2.951	″ 75.49	s 19.337	″ 41.81	s 24.464	″ 65.81
sec δ, tan δ		+ 1.416	+ 1.003	+ 1.722	− 1.401	+ 2.245	− 2.010	+ 1.002	− 0.062
2 回正中		5 月 24 日		5 月 25 日		5 月 25 日		5 月 25 日	
a	b	+ 0.0944	− 0.0316	+ 0.2360	+ 0.0435	+ 0.2723	+ 0.0617	+ 0.1570	+ 0.0019
a′	b′	− 0.4733	+ 0.8809	− 0.4654	+ 0.8851	− 0.4605	+ 0.8877	− 0.4563	+ 0.8898
FK3番號		601		600		602		603	

本初子午線正中時

星名	19 UMin		ε Ophi		γ^2 Norm		σ Scor	
等級	5.51		3.34		4.14		3.08	
スペクトル型	B8		K0		K0		B1	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 12	° ′ +76 0	h m 16 15	° ′ −4 33	h m 16 15	° ′ −50 0	h m 16 17	° ′ −25 27
	s	″	s	″	s	″	s	″
1 1.4	18.59	65.67 316	19.361 257	19.38 164	35.666 378	56.49 55	44.657 285	24.74 62
11.4	19.18 59	62.51 273	19.618 281	21.02 162	36.044 415	55.94 23	44.942 311	25.36 77
21.4	19.91 73	59.78 220	19.899 296	22.64 154	36.459 439	55.71 8	45.253 327	26.13 89
31.3	20.74 83	57.58 160	20.195 304	24.18 139	36.898 451	55.79 38	45.580 335	27.02 95
2 10.3	21.65 91	55.98 94	20.499 304	25.57 121	37.349 454	56.17 66	45.915 335	27.97 98
20.3	22.61 96	55.04 27	20.803 298	26.78 97	37.803 447	56.83 91	46.250 330	28.95 97
3 1.2	23.57 94	54.77 41	21.101 288	27.75 72	38.250 433	57.74 114	46.580 319	29.92 95
11.2	24.51 88	55.18 107	21.389 273	28.47 46	38.683 413	58.88 132	46.899 304	30.87 89
21.2	25.39 80	56.25 164	21.662 255	28.93 19	39.096 388	60.20 149	47.203 285	31.76 83
31.2	26.19 70	57.89 216	21.917 236	29.12 5	39.484 358	61.69 162	47.488 265	32.59 76
4 10.1	26.89 56	60.05 258	22.153 213	29.07 26	39.842 325	63.31 173	47.753 241	33.35 69
20.1	27.45 42	62.63 290	22.366 190	28.81 45	40.167 288	65.04 182	47.994 216	34.04 63
30.1	27.87 28	65.53 309	22.556 163	28.36 59	40.455 246	66.86 186	48.210 187	34.67 56
5 10.1	28.15 11	68.62 319	22.719 135	27.77 69	40.701 201	68.72 188	48.397 157	35.23 52
20.0	28.26 4	71.81 318	22.854 105	27.08 76	40.902 152	70.60 187	48.554 124	35.75 48
29.9	28.22 19	74.99 306	22.959 74	26.32 78	41.054 101	72.47 182	48.678 88	36.23 43
6 8.9	28.03 33	78.05 286	23.033 40	25.54 77	41.155 48	74.29 174	48.766 52	36.66 38
18.9	27.70 47	80.91 258	23.073 7	24.77 76	41.203 7	76.03 161	48.818 13	37.04 34
28.9	27.23 59	83.49 222	23.080 27	24.01 70	41.196 61	77.64 144	48.831 26	37.38 28
7 8.9	26.64 69	85.71 180	23.053 60	23.31 63	41.135 113	79.08 123	48.805 62	37.66 21
18.9	25.95 79	87.51 136	22.993 91	22.68 56	41.022 161	80.31 98	48.743 97	37.87 14
28.8	25.16 85	88.87 87	22.902 119	22.12 47	40.861 203	81.29 70	48.646 129	38.01 4
8 7.8	24.31 91	89.74 37	22.783 140	21.65 38	40.658 236	81.99 39	48.517 154	38.05 5
17.8	23.40 93	90.11 16	22.643 157	21.27 28	40.422 260	82.38 6	48.363 172	38.00 15
27.8	22.47 95	89.95 67	22.486 165	20.99 17	40.162 271	82.44 27	48.191 182	37.85 25
9 6.7	21.52	89.28 119	22.321 165	20.82 5	39.891 270	82.17 60	48.009 183	37.60
16.7	20.60 92	88.09 169	22.156 156	20.77 8	39.621 253	81.57 91	47.826 172	37.25 35
26.7	19.71 89	86.40 215	22.000 138	20.85 23	39.368 222	80.66 118	47.654 151	36.84 41
10 6.6	18.89 82	84.25 259	21.862 110	21.08 38	39.146 179	79.48 139	47.503 120	36.37 47
16.6	18.16 73	81.66 298	21.752 74	21.46 56	38.967 122	78.09 157	47.383 81	35.89 48
26.6	17.53 49	78.68 330	21.678 32	22.02 74	38.845 57	76.52 165	47.302 32	35.42 39
11 5.6	17.04 35	75.38 357	21.646 16	22.76 94	38.788 16	74.87 166	47.270 20	35.03 30
15.5	16.69 18	71.81 374	21.662 66	23.70 113	38.804 91	73.21 161	47.290 76	34.73 16
25.5	16.51 1	68.07 382	21.728 116	24.83 130	38.895 166	71.60 146	47.366 130	34.57 0
12 5.5	16.50 17	64.25 380	21.844 163	26.13 147	39.061 237	70.14 126	47.496 182	34.57 18
15.5	16.67 33	60.45 366	22.007 205	27.60 157	39.298 301	68.88 102	47.678 229	34.75 37
25.4	17.00 50	56.79 339	22.212 241	29.17 165	39.599 354	67.86 72	47.907 268	35.12 55
35.4	17.50	53.40	22.453	30.82	39.953	67.14	48.175	35.67
平位	s 23.447	″ 69.72	s 21.302	″ 26.83	s 38.375	″ 72.51	s 46.780	″ 36.34
sec δ, tan δ	+ 4.139	+ 4.017	+ 1.003	− 0.080	+ 1.556	− 1.193	+ 1.108	− 0.476
2回正中	5月26日		5月26日		5月26日		5月27日	
a b	− 0.0855	− 0.1212	+ 0.1581	+ 0.0023	+ 0.2247	+ 0.0350	+ 0.1820	+ 0.0137
a′ b′	− 0.4525	+ 0.8918	− 0.4409	+ 0.8976	− 0.4398	+ 0.8981	− 0.4314	+ 0.9022
FK3番號	606		605		604		607	

本初子午線正中時

星名	τ Herc		η UMin		γ Herc		ζ TriA	
等級	3.91		5.04		3.79		4.93	
スペクトル型	B5		F0		F0		G0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 18	° ′ +46 26	h m 16 18	° ′ +75 52	h m 16 19	° ′ +19 16	h m 16 22	° ′ −69 57
	s	″	s	″	s	″	s	″
1 1.4	1.011 281	43.58 321	61.95 56	62.79 321	24.897 247	62.91 258	20.63 63	21.70 147
11.4	1.292 323	40.37 286	62.51 70	59.58 279	25.144 274	60.33 238	21.26 70	20.23 107
21.4	1.615 355	37.51 242	63.21 81	56.79 227	25.418 294	57.95 211	21.96 75	19.16 64
31.3	1.970 376	35.09 187	64.02 90	54.52 168	25.712 304	55.84 174	22.71 79	18.52 19
2 10.3	2.346 384	33.22 128	64.92 93	52.84 103	26.016 308	54.10 133	23.50 80	18.33 24
20.3	2.730 384	31.94 65	65.85 96	51.81 35	26.324 304	52.77 87	24.30 80	18.57 66
3 1.2	3.114 372	31.29 0	66.81 93	51.46 33	26.628 294	51.90 40	25.10 78	19.23 106
11.2	3.486 353	31.29 62	67.74 89	51.79 98	26.922 279	51.50 8	25.88 75	20.29 142
21.2	3.839 325	31.91 120	68.63 80	52.77 157	27.201 260	51.58 53	26.63 70	21.71 174
31.2	4.164 292	33.11 173	69.43 71	54.34 210	27.461 239	52.11 95	27.33 65	23.45 203
4 10.1	4.456 253	34.84 216	70.14 57	56.44 253	27.700 213	53.06 129	27.98 59	25.48 228
20.1	4.709 211	37.00 251	70.71 45	58.97 287	27.913 187	54.35 158	28.57 51	27.76 248
30.1	4.920 165	39.51 277	71.16 29	61.84 309	28.100 157	55.93 180	29.08 43	30.24 262
5 10.1	5.085 118	42.28 290	71.45 14	64.93 319	28.257 125	57.73 194	29.51 34	32.86 272
20.0	5.203 68	45.18 295	71.59 1	68.12 319	28.382 93	59.67 201	29.85 25	35.58 277
29.9	5.271 19	48.13 290	71.58 17	71.31 310	28.475 59	61.68 200	30.10 14	38.35 274
6 8.9	5.290 30	51.03 277	71.41 31	74.41 291	28.534 23	63.68 194	30.24 4	41.09 265
18.9	5.260 78	53.80 255	71.10 44	77.32 265	28.557 12	65.62 182	30.28 6	43.74 251
28.9	5.182 123	56.35 227	70.66 57	79.97 230	28.545 47	67.44 165	30.22 17	46.25 229
7 8.9	5.059 166	58.62 193	70.09 67	82.27 190	28.498 81	69.09 143	30.05 27	48.54 201
18.9	4.893 203	60.55 155	69.42 77	84.17 145	28.417 112	70.52 119	29.78 35	50.55 168
28.8	4.690 236	62.10 112	68.65 84	85.62 98	28.305 138	71.71 92	29.43 43	52.23 128
8 7.8	4.454 261	63.22 67	67.81 90	86.60 47	28.167 162	72.63 63	29.00 49	53.51 84
17.8	4.193 279	63.89 20	66.91 93	87.07 4	28.005 177	73.26 32	28.51 53	54.35 37
27.8	3.914 287	64.09 28	65.98 94	87.03 56	27.828 187	73.58 0	27.98 55	54.72 11
9 6.7	3.627 285	63.81 76	65.04 92	86.47 108	27.641 186	73.58 33	27.43 54	54.61 60
16.7	3.342 274	63.05 124	64.12 89	85.39 158	27.455 178	73.25 66	26.89 52	54.01 108
26.7	3.068 250	61.81 170	63.23 84	83.81 206	27.277 160	72.59 98	26.37 46	52.93 151
10 6.6	2.818 217	60.11 213	62.39 74	81.75 250	27.117 134	71.61 132	25.91 39	51.42 188
16.6	2.601 173	57.98 254	61.65 65	79.25 289	26.983 98	70.29 163	25.52 28	49.54 220
26.6	2.428 121	55.44 291	61.00 51	76.36 325	26.885 56	68.66 192	25.24 17	47.34 241
11 5.6	2.307 61	52.53 320	60.49 37	73.11 351	26.829 8	66.74 220	25.07 4	44.93 253
15.5	2.246 3	49.33 344	60.12 21	69.60 370	26.821 43	64.54 242	25.03 9	42.40 255
25.5	2.249 69	45.89 358	59.91 4	65.90 381	26.864 94	62.12 260	25.12 23	39.85 247
12 5.5	2.318 135	42.31 363	59.87 14	62.09 379	26.958 143	59.52 270	25.35 35	37.38 229
15.5	2.453 196	38.68 358	60.01 31	58.30 367	27.101 189	56.82 274	25.70 48	35.09 203
25.4	2.649 252	35.10 339	60.32 47	54.63 343	27.290 228	54.08 268	26.18 57	33.06 170
35.4	2.901	31.71	60.79	51.20	27.518	51.40	26.75	31.36
平位	s 3.304	″ 45.06	s 66.804	″ 66.42	s 26.854	″ 60.16	s 25.172	″ 39.64
sec δ, tan δ	+ 1.451	+ 1.052	+ 4.101	+ 3.977	+ 1.059	+ 0.350	+ 2.918	− 2.742
2回正中	5月27日		5月27日		5月27日		5月28日	
a b	+ 0.0900	− 0.0302	− 0.0865	− 0.1130	+ 0.1322	− 0.0099	+ 0.3198	+ 0.0755
a′ b′	− 0.4303	+ 0.9027	− 0.4261	+ 0.9047	− 0.4248	+ 0.9053	− 0.4130	+ 0.9107
FK3番號	608		612		609		610	

星名	ω Herc		Grb 2343 Drac		† η Drac		γ Apds	
等級	4.53		5.66		2.89		3.90	
スペクトル型	A0p		A2		G5		K0	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 16 22	° ′ +14 9	h m 16 23	° ′ +55 19	h m 16 23	° ′ +61 38	h m 16 24	° ′ −78 46
	s	″	s	″	s	″	s	″
1 1.4	47.794	42.86	9.032	52.14	10.68	23.30	40.08	13.13
11.4	48.037 243	40.45 241	9.337 305	48.83 331	11.02 34	19.97 333	41.10 102	11.32 181
21.4	48.308 271	38.21 224	9.697 360	45.88 295	11.42 40	17.03 294	42.26 116	9.94 138
31.3	48.597 289	36.20 201	10.098 401	43.41 247	11.88 46	14.57 246	43.52 126	9.03 91
2 10.3	48.897 300	34.50 170	10.529 431	41.50 191	12.38 50	12.70 187	44.85 133	8.61 42
	302	132	445	128	52	123	136	7
20.3	49.199	33.18	10.974	40.22 61	12.90 52	11.47 56	46.21 136	8.68
3 1.2	49.499 300	32.27 91	11.423 449	39.61 5	13.42 51	10.91 13	47.57 133	9.23 55
11.2	49.789 290	31.79 48	11.861 438	39.66 70	13.93 51	11.04 78	48.90 129	10.23 100
21.2	50.065 276	31.75 4	12.276 415	40.36 132	14.42 49	11.82 140	50.19 121	11.65 142
31.2	50.323 258	32.13 38	12.660 384	41.68 185	14.86 44	13.22 195	51.40 111	13.45 180
	238	75	344		40			215
4 10.1	50.561 215	32.88 109	13.004 296	43.53 231	15.26 34	15.17 240	52.51 99	15.60 245
20.1	50.776 189	33.97 136	13.300 242	45.84 268	15.60 27	17.57 277	53.50 87	18.05 269
30.1	50.965 161	35.33 156	13.542 186	48.52 293	15.87 21	20.34 301	54.37 71	20.74 288
5 10.1	51.126 131	36.89 170	13.728 126	51.45 308	16.08 13	23.35 316	55.08 55	23.62 301
20.0	51.257 99	38.59 177	13.854 64	54.53 312	16.21 5	26.51 319	55.63 38	26.63 307
30.0	51.356 67	40.36 177	13.918 3	57.65 307	16.26 2	29.70 313	56.01 19	29.70 306
6 8.9	51.423 32	42.13 173	13.921 58	60.72 293	16.24 10	32.83 298	56.20 1	32.76 299
18.9	51.455 3	43.86 163	13.863 116	63.65 269	16.14 16	35.81 273	56.21 17	35.75 283
28.9	51.452 37	45.49 148	13.747 171	66.34 240	15.98 23	38.54 242	56.04 36	38.58 261
7 8.9	51.415 71	46.97 130	13.576 222	68.74 204	15.75 29	40.96 204	55.68 53	41.19 231
18.9	51.344 102	48.27 109	13.354 267	70.78 163	15.46 34	43.00 162	55.15 67	43.50 194
28.8	51.242 130	49.36 85	13.087 305	72.41 117	15.12 38	44.62 115	54.48 81	45.44 152
8 7.8	51.112 152	50.21 60	12.782 335	73.58 70	14.74 42	45.77 67	53.67 91	46.96 104
17.8	50.960 169	50.81 34	12.447 355	74.28 20	14.32 44	46.44 15	52.76 98	48.00 52
27.8	50.791 179	51.15 6	12.092 365	74.48 30	13.88 45	46.59 36	51.78 102	48.52 2
6.7	50.612	51.21 23	11.727	74.18 81	13.43	46.23	50.76	48.50
9 16.7	50.433 179	50.98 53	11.364 363	73.37 132	12.98 45	45.34 89	49.76 100	47.94 56
26.7	50.261 172	50.45 82	11.014 350	72.05 180	12.55 43	43.94 140	48.80 96	46.85 109
10 6.6	50.107 154	49.63 111	10.690 324	70.25 226	12.14 41	42.06 188	47.94 86	45.26 159
16.6	49.979 128	48.52 140	10.405 285	67.99 268	11.79 35	39.71 235	47.22 72	43.24 202
	94		236		30	277	56	238
26.6	49.885 53	47.12 168	10.169 175	65.31 305	11.49 23	36.94 314	46.66 37	40.86 264
11 5.6	49.832 5	45.44 194	9.994 107	62.26 336	11.26 15	33.80 344	46.29 14	38.22 281
15.5	49.827 44	43.50 216	9.887 32	58.90 360	11.11 6	30.36 367	46.15 9	35.41 287
25.5	49.871 95	41.34 234	9.855 45	55.30 373	11.05 3	26.69 381	46.24 31	32.54 281
12 5.5	49.966 143	39.00 246	9.900 124	51.57 378	11.08 12	22.88 383	46.55 54	29.73 264
15.5	50.109 187	36.54 251	10.024 199	47.79 371	11.20 21	19.05 375	47.09 75	27.09 238
25.4	50.296 226	34.03 248	10.223 268	44.08 351	11.41 29	15.30 353	47.84 93	24.71 204
35.4	50.522	31.55	10.491	40.57 351	11.70	11.77 353	48.77	22.67
平位	s 49.743	″ 39.13	s 11.627	″ 54.33	s 13.605	″ 25.99	s 47.557	″ 31.54
sec δ, tan δ	+ 1.031	+ 0.252	+ 1.758	+ 1.446	+ 2.105	+ 1.853	+ 5.137	− 5.039
2 回正中	5 月 28 日		5 月 28 日		5 月 28 日		5 月 29 日	
a b	+ 0.1380	− 0.0069	+ 0.0654	− 0.0395	+ 0.0407	− 0.0506	+ 0.4607	+ 0.1356
a′ b′	− 0.4114	+ 0.9115	− 0.4100	+ 0.9121	− 0.4098	+ 0.9122	− 0.4036	+ 0.9150
FK3番號	613		614		615		611	

星名	α Scor		β Herc		A Drac		† λ Ophi m	
等級	1.22		2.81		4.98		3.85	
スペクトル型	M0, A3		K0		B8p		A0	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 16 25	° ′ −26 18	h m 16 27	° ′ +21 36	h m 16 28	° ′ +68 53	h m 16 28	° ′ + 2 6
	s	″	s	″	s	″	s	″
1 1.4	55.998	22.52	46.640	39.79	1.29	18.77	3.220	24.37
11.4	56.278 280	23.06 54	46.880 240	37.12 267	1.69 40	15.44 333	3.463 243	22.47 190
21.4	56.586 308	23.73 67	47.150 270	34.65 247	2.18 49	12.49 295	3.732 269	20.63 184
31.3	56.911 325	24.52 79	47.441 291	32.48 217	2.75 57	10.04 245	4.018 286	18.93 170
2 10.3	57.246 335	25.39 87	47.745 304	30.67 181	3.37 62	8.17 187	4.315 297	17.43 150
	337	90	309	137	65	123	298	124
20.3	57.583	26.29	48.054	29.30 89	4.02	6.94	4.613	16.19
3 1.3	57.916 333	27.20 91	48.360 306	28.41 89	4.69 67	6.39 55	4.909 296	15.24 95
11.2	58.239 323	28.09 89	48.658 298	28.01 40	5.34 65	6.53 14	5.197 288	14.61 63
21.2	58.549 310	28.94 85	48.943 285	28.10 9	5.97 63	7.33 80	5.472 275	14.32 29
31.2	58.841 292	29.73 79	49.210 267	28.66 56	6.54 57	8.75 142	5.731 259	14.34 2
	272	74	246	100	51	197	240	32
4 10.1	59.113 250	30.47 67	49.456 221	29.66 136	7.05	10.72	5.971	14.66
20.1	59.363 225	31.14 63	49.677 194	31.02 168	7.48 43	13.15 243	6.190 219	15.25 59
30.1	59.588 197	31.77 57	49.871 165	32.70 190	7.83 35	15.95 280	6.386 196	16.05 80
5 10.1	59.785 167	32.34 57	50.036 132	34.60 190	8.08 25	19.00 305	6.556 170	17.02 97
20.0	59.952 133	32.88 50	50.168 99	36.65 205	8.23 15	22.19 319	6.699 143	18.11 109
				212	4	323	112	116
30.0	60.085	33.38	50.267	38.77	8.27	25.42	6.811	19.27
6 8.9	60.182 97	33.84 46	50.332 65	40.91 214	8.22 5	28.58 316	6.891 80	20.44 117
18.9	60.242 60	34.27 43	50.359 27	42.97 206	8.07 15	31.59 301	6.938 47	21.60 116
28.9	60.263 21	34.65 38	50.351 8	44.91 194	7.82 25	34.35 276	6.950 12	22.70 110
7 8.9	60.245 18	34.99 34	50.306 45	46.68 177	7.49 33	36.80 245	6.928 22	23.72 102
	57	27	79	154	41	207	56	91
18.9	60.188	35.26 19	50.227	48.22	7.08	38.87	6.872	24.63
28.8	60.094 94	35.45 10	50.115 112	49.51 129	6.60 48	40.50 163	6.785 87	25.40 77
8 7.8	59.968 126	35.55 0	49.974 141	50.51 100	6.07 53	41.67 117	6.669 116	26.04 64
17.8	59.816 152	35.55 10	49.810 164	51.21 70	5.49 58	42.35 68	6.529 140	26.52 48
27.8	59.643 173	35.45 21	49.628 182	51.58 37	4.89 60	42.50 15	6.371 158	26.83 31
	184		192	4	62	36	168	15
6.7	59.459	35.24	49.436	51.62	4.27	42.14	6.203	26.98
9 16.7	59.273 186	34.93 31	49.242 194	51.30 32	3.65 62	41.25 89	6.033 170	26.93 5
26.7	59.096 177	34.53 40	49.056 186	50.64 66	3.06 59	39.85 140	5.870 163	26.70 23
10 6.7	58.939 157	34.07 46	48.887 169	49.64 100	2.50 56	37.95 190	5.723 147	26.27 43
16.6	58.812 127	33.59 48	48.743 144	48.29 135	2.00 50	35.60 235	5.602 121	25.64 63
	88	49	109	168	43	279	88	86
26.6	58.724 41	33.10 43	48.634 66	46.61 199	1.57 35	32.81 315	5.514 46	24.78
11 5.6	58.683 12	32.67 35	48.568 20	44.62 227	1.22 24	29.66 346	5.468 0	23.71 107
15.5	58.695 68	32.32 23	48.548 31	42.35 250	0.98 13	26.20 368	5.468 49	22.42 129
25.5	58.763 122	32.09 7	48.579 83	39.85 269	0.85 1	22.52 382	5.517 98	20.93 166
12 5.5	58.885 176	32.02 9	48.662 133	37.16 279	0.84 10	18.70 384	5.615 145	19.27 181
15.5	59.061 223	32.11 28	48.795 180	34.37 283	0.94 23	14.86	5.760 189	17.46 191
25.4	59.284 262	32.39 45	48.975 221	31.54 277	1.17 33	11.10 376	5.949 226	15.55 193
35.4	59.546	32.84	49.196	28.77	1.50	7.56 354	6.175	13.62
平位	s 58.171	″ 33.95	s 48.630	″ 37.30	s 4.883	″ 21.61	s 5.184	″ 18.39
sec δ, tan δ	+ 1.116	− 0.494	+ 1.076	+ 0.396	+ 2.776	+ 2.590	+ 1.001	+ 0.037
2 回正中	5 月 29 日		5 月 30 日		5 月 30 日		5 月 30 日	
a b	+ 0.1836	+ 0.0131	+ 0.1290	− 0.0103	− 0.0056	− 0.0674	+ 0.1511	− 0.0010
a′ b′	− 0.3989	+ 0.9170	− 0.3915	+ 0.9202	− 0.3904	+ 0.9206	− 0.3904	+ 0.9207
FK3番號	616		618		619		617	

本初子午線正中時

星名	σ Herc		τ Scor		Grb 2373 UMin		ζ Ophi	
等級	4.25		2.91		6.39		2.70	
スペクトル型	A0		B0		G5		B0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 32	° ′ +42 32	h m 16 32	° ′ −28 5	h m 16 32	° ′ +77 33	h m 16 34	° ′ −10 27
	s	″	s	″	s	″	s	″
1 1.4	15.486 256	65.25 322	21.263 279	54.23 39	55.70 58	30.21 328	2.276 249	10.73 130
11.4	15.742 297	62.03 290	21.542 308	54.62 55	56.28 73	26.93 289	2.525 276	12.03 131
21.4	16.039 328	59.13 249	21.850 327	55.17 68	57.01 86	24.04 240	2.801 293	13.34 129
31.3	16.367 350	56.64 199	22.177 338	55.85 76	57.87 97	21.64 183	3.094 303	14.63 121
2 10.3	16.717 361	54.65 143	22.515 341	56.61 83	58.84 104	19.81 119	3.397 307	15.84 108
20.3	17.078 363	53.22 81	22.856 338	57.44 85	59.88 106	18.62 52	3.704 304	16.92 91
3 1.3	17.441 356	52.41 19	23.194 330	58.29 85	60.94 106	18.10 15	4.008 296	17.83 73
11.2	17.797 340	52.22 43	23.524 317	59.14 82	62.00 101	18.25 81	4.304 285	18.56 51
21.2	18.137 317	52.65 102	23.841 300	59.96 79	63.01 93	19.06 142	4.589 269	19.07 31
31.2	18.454 290	53.67 154	24.141 281	60.75 76	63.94 83	20.48 196	4.858 253	19.38 12
4 10.1	18.744 256	55.21 199	24.422 259	61.51 71	64.77 69	22.44 242	5.111 232	19.50 6
20.1	19.000 219	57.20 236	24.681 235	62.22 67	65.46 54	24.86 278	5.343 209	19.44 21
30.1	19.219 179	59.56 264	24.916 206	62.89 64	66.00 37	27.64 303	5.552 185	19.23 32
5 10.1	19.398 135	62.20 280	25.122 176	63.53 61	66.37 21	30.67 317	5.737 157	18.91 41
20.0	19.533 89	65.00 288	25.298 142	64.14 59	66.58 2	33.84 320	5.894 127	18.50 46
30.0	19.622	67.88 286	25.440	64.73 55	66.60 14	37.04 314	6.021 94	18.04 49
6 8.9	19.666 44	70.74 276	25.545 105	65.28 53	66.46 32	40.18 298	6.115 61	17.55 50
18.9	19.663 3	73.50 258	25.612 67	65.81 48	66.14 47	43.16 274	6.176 25	17.05 48
28.9	19.613 50	76.08 232	25.640 28	66.29 43	65.67 62	45.90 242	6.201 12	16.57 45
7 8.9	19.519 94 136	78.40 202	25.626 14 54	66.72 36	65.05 74	48.32 204	6.189 46	16.12 41
18.9	19.383	80.42	25.572	67.08	64.31	50.36	6.143	15.71
28.9	19.209 174	82.08 166	25.481 91	67.36 28	63.45 86	51.98 162	6.062 81	15.34 37
8 7.8	19.001 208	83.34 126	25.356 125	67.55 19	62.50 95	53.14 116	5.951 111	15.01 33
17.8	18.765 236	84.17 83	25.203 153	67.61 6	61.49 101	53.80 66	5.815 136	14.73 28
27.8	18.510 255 266	84.56 39 8	25.028 175 188	67.56 5 17	60.42 107 108	53.96 16 36	5.659 156 168	14.50 23 17
9 6.7	18.244 268	84.48	24.840 190	67.39 29	59.34 108	53.60 88	5.491 171	14.33 12
16.7	17.976 101	83.93 55	24.650 183	67.10 40	58.26 104	52.72 138	5.320 164	14.21 4
26.7	17.717 259	82.92 101	24.467 163	66.70 48	57.22 99	51.34 187	5.156 148	14.17 4
10 6.7	17.477 240	81.45 147	24.304 134	66.22 53	56.23 90	49.47 232	5.008 123	14.21 14
16.6	17.266 211 171	79.54 191 232	24.170 95	65.69 55	55.33 90 79	47.15 274	4.885 88	14.35 27
26.6	17.095	77.22	24.075	65.14	54.54	44.41	4.797	14.62
11 5.6	16.972 123	74.53 269	24.028 47	64.62 52	53.89 65	41.31 310	4.751 46 2	15.03 41
15.5	16.905 67	71.51 302	24.033 5	64.17 45	53.40 49	37.91 340	4.753 50	15.59 56
25.5	16.897 8	68.24 327	24.094 61	63.82 35	53.09 31	34.29 362	4.803 102	16.32 73
12 5.5	16.951 54 116	64.80 344 353	24.212 118 171	63.62 20 4	52.96 13 8	30.55 374 378	4.905 150	17.22 90 105
15.5	17.067	61.27	24.383	63.58 14	53.04	26.77	5.055	18.27
25.4	17.242 175	57.77 350	24.602 219	63.72 31	53.30 26	23.09 368	5.249 194	19.45 118
35.4	17.470 228	54.40 337	24.863 261	64.03	53.76 46	19.61 348	5.482 233	20.72 127
平位	s 17.725	″ 65.66	s 23.493	″ 65.67	s 61.156	″ 33.01	s 4.316	″ 18.95
sec δ, tan δ	+ 1.357	+ 0.918	+ 1.134	− 0.534	+ 4.642	+ 4.533	+ 1.017	− 0.185
2 回正中	5 月 31 日		5 月 31 日		5 月 31 日		5 月 31 日	
a b	+ 0.0966	− 0.0229	+ 0.1864	+ 0.0133	− 0.1274	− 0.1120	+ 0.1648	+ 0.0045
a′ b′	− 0.3734	+ 0.9277	− 0.3730	+ 0.9278	− 0.3705	+ 0.9288	− 0.3662	+ 0.9305
FK3番號	621		620		623		622	

1944

本初子午線正中時

星名	Br 2114 Ophi		η Herc		α TriA		Grb 2377 Drac	
等級	5.04		3.61		1.88		4.88	
スペクトル型	K0		K0		K2		F0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 38	° ′ −17 37	h m 16 40	° ′ +39 1	h m 16 42	° ′ −68 55	h m 16 44	° ′ +56 52
	s	″	s	″	s	″	s	″
1 1.4	17.697 255	58.27 91	56.251 241	40.24 317	38.29 57	23.90 165	11.118 278	51.78 343
11.4	17.952 282	59.18 98	56.492 280	37.07 290	38.86 64	22.25 129	11.396 341	48.35 309
21.4	18.234 302	60.16 102	56.772 312	34.17 251	39.50 70	20.96 88	11.737 389	45.26 265
31.3	18.536 312	61.18 100	57.084 332	31.66 204	40.20 74	20.08 47	12.126 427	42.61 211
2 10.3	18.848 316	62.18 95	57.416 345	29.62 150	40.94 76	19.61 5	12.553 450	40.50 150
20.3	19.164 314	63.13 86	57.761 347	28.12 92	41.70 77	19.56 36	13.003 459	39.00 85
3 1.3	19.478 307	63.99 75	58.108 342	27.20 30	42.47 75	19.92 75	13.462 457	38.15 17
11.2	19.785 296	64.74 62	58.450 329	26.90 31	43.22 74	20.67 111	13.919 440	37.98 49
21.2	20.081 281	65.36 48	58.779 310	27.21 87	43.96 70	21.78 145	14.359 413	38.47 113
31.2	20.362 264	65.84 35	59.089 286	28.08 141	44.66 66	23.23 175	14.772 376	39.60 169
4 10.2	20.626 244	66.19 24	59.375 255	29.49 185	45.32 60	24.98 202	15.148 331	41.29 219
20.1	20.870 221	66.43 12	59.630 222	31.34 224	45.92 53	27.00 225	15.479 279	43.48 259
30.1	21.091 197	66.55 5	59.852 185	33.58 251	46.45 47	29.25 243	15.758 222	46.07 289
5 10.1	21.288 168	66.60 1	60.037 144	36.09 270	46.92 38	31.68 256	15.980 160	48.96 308
20.0	21.456 137	66.59 6	60.181 103	38.79 279	47.30 29	34.24 264	16.140 96	52.04 318
30.0	21.593 104	66.53 8	60.284	41.58	47.59	36.88	16.236	55.22
6 8.9	21.697 68	66.45 9	60.343 59	44.37 279	47.78 19	39.55 267	16.266 30	58.38 316
18.9	21.765 31	66.36 9	60.356 13	47.07 270	47.88 10	42.18 263	16.232 34	61.43 305
28.9	21.796 7	66.27 10	60.326 30	49.62 255	47.87 1	44.70 252	16.135 97	64.29 286
7 8.9	21.789 44	66.17 10	60.252 74 115	51.94 232 203	47.76 11 20	47.05 235 212	15.976 159 214	66.89 260 225
18.9	21.745	66.07	60.137	53.97	47.56	49.17	15.762	69.14
28.9	21.666 79	65.97 10	59.983 154	55.67 170	47.26 30	50.99 182	15.496 266	71.01 187
8 7.8	21.554 112	65.86 11	59.796 187	56.99 132	46.88 38	52.46 147	15.186 310	72.45 144
17.8	21.415 139	65.73 13	59.580 216	57.90 91	46.44 44	53.52 106	14.840 346	73.42 97
27.8	21.256 159 173	65.58 15 16	59.344 236 250	58.38 48 4	45.95 49 52	54.13 61 14	14.468 372 388	73.89 47 3
9 6.7	21.083 176	65.42 18	59.094 252	58.42 41	45.43 53	54.27 35	14.080 391	73.86
16.7	20.907 171	65.24 17	58.842 246	58.01 87	44.90 51	53.92 82	13.689 382	73.32 54
26.7	20.736 154	65.07 16	58.596 229	57.14 132	44.39 46	53.10 126	13.307 360	72.26 106
10 6.7	20.582 128	64.91 13	58.367 202	55.82 175	43.93 40	51.84 167	12.947 326	70.70 156
16.6	20.454 92	64.78 5	58.165 166	54.07 216	43.53 31	50.17 201	12.621 278	68.66 204 248
26.6	20.362	64.73	57.999	51.91	43.22	48.16	12.343	66.18
11 5.6	20.312 50	64.76 3	57.879 120	49.38 253	43.01 21	45.90 226	12.123 220	63.29 289
15.6	20.311 1	64.91 15	57.811 68	46.52 286	42.92 9	43.47 243	11.971 152	60.06 323
25.5	20.362 51	65.19 28	57.800 11	43.39 313	42.96 4	40.96 251	11.895 76	56.55 351
12 5.5	20.465 103 153	65.63 44 59	57.849 49 107	40.08 331 342	43.13 17 29	38.49 247 234	11.898 3 84	52.87 368 378
15.5	20.618	66.22	57.956	36.66	43.42	36.15	11.982	49.09
25.4	20.816 198	66.96 74	58.119 163	33.23 343	43.83 41	34.02 213	12.145 163	45.34 375
35.4	21.053 237	67.83 87	58.334 215	29.92 331	44.35 52	32.17 185	12.383 238	41.75 359
平位	s 19.814	″ 67.64	s 58.444	″ 39.91	s 42.947	″ 40.07	s 13.825	″ 53.00
sec δ, tan δ	+ 1.049	− 0.318	+ 1.287	+ 0.811	+ 2.781	− 2.595	+ 1.830	+ 1.533
2 回正中	6 月 1 日		6 月 2 日		6 月 2 日		6 月 3 日	
a b	+ 0.1732	+ 0.0074	+ 0.1025	− 0.0183	+ 0.3166	+ 0.0572	+ 0.0567	− 0.0332
a′ b′	− 0.3489	+ 0.9372	− 0.3380	+ 0.9411	− 0.3309	+ 0.9437	− 0.3246	+ 0.9458
FK3番號	624		626		625		627	

星名	ε Scor		49 Herc		† ζ² Scor		ζ Arae	
等級	2.36		6.41		3.75		3.06	
スペクトル型	K0		A0p		K5		K5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 46	° ′ −34 11	h m 16 49	° ′ +15 3	h m 16 50	° ′ −42 15	h m 16 53	° ′ −55 53
	s	″	s	″	s	″	s	″
1 1.4	29.472	24.43	29.722	64.29	35.548	50.03	55.288	60.29
11.4	29.759 287	24.42 1	29.943 221	61.86 243	35.854 306	49.55 48	55.666 378	59.10 119
21.4	30.073 314	24.58 16	30.195 252	59.57 229	36.196 342	49.30 25	56.094 428	58.20 90
31.3	30.410 337	24.91 33	30.469 274	57.50 207	36.566 370	49.28 2	56.559 465	57.61 59
2 10.3	30.761 351	25.38 47	30.758 289	55.75 175	36.953 387	49.46 18	57.051 492	57.33 28
	358	59	297	139	395	38	505	4
20.3	31.119	25.97	31.055	54.36	37.348	49.84	57.556	57.37
3 1.3	31.477 358	26.65 68	31.353 298	53.38 98	37.745 397	50.39 55	58.066 510	57.71 34
11.2	31.828 351	27.39 74	31.647 294	52.84 54	38.136 391	51.09 70	58.571 505	58.34 63
21.2	32.168 340	28.18 79	31.932 285	52.75 9	38.516 380	51.92 83	59.064 493	59.22 88
31.2	32.494 326	29.01 83	32.203 271	53.10 35	38.880 364	52.86 94	59.537 473	60.35 113
	307	84	254	74	345	104	448	134
4 10.2	32.801	29.85	32.457	53.84	39.225	53.90	59.985	61.69
20.1	33.087 286	30.71 86	32.691 234	54.94 110	39.546 321	55.02 112	60.400 415	63.22 153
30.1	33.348 261	31.58 87	32.901 210	56.33 139	39.839 293	56.22 120	60.778 378	64.92 170
5 10.1	33.580 232	32.47 89	33.085 184	57.95 162	40.100 261	57.47 125	61.113 335	66.76 184
20.0	33.780 200	33.36 89	33.241 156	59.73 178	40.325 225	58.78 131	61.399 286	68.70 194
	164		124	187	185	133	231	201
30.0	33.944	34.25	33.365	61.60	40.510	60.11	61.630	70.71
6 8.9	34.069 125	35.14 89	33.455 90	63.50 190	40.651 141	61.44 133	61.802 172	72.76 205
18.9	34.153 84	36.00 86	33.510 55	65.36 186	40.745 94	62.76 132	61.911 109	74.78 202
28.9	34.193 40	36.83 83	33.528 18	67.14 178	40.791 46	64.02 126	61.955 44	76.74 196
7 8.9	34.189 4	37.59 76	33.509 19	68.77 163	40.785 6	65.21 119	61.931 24	78.59 185
	49	69	54	145	54	107	88	168
18.9	34.140	38.28	33.455	70.22	40.731	66.28	61.843	80.27
28.9	34.050 90	38.85 57	33.365 90	71.47 125	40.629 102	67.20 92	61.694 149	81.73 146
8 7.8	33.921 129	39.30 45	33.245 120	72.48 101	40.483 146	67.93 73	61.487 207	82.92 119
17.8	33.760 161	39.59 29	33.098 147	73.23 75	40.301 182	68.45 52	61.233 254	83.80 88
27.8	33.573 187	39.71 12	32.930 168	73.70 47	40.091 210	68.73 28	60.943 290	84.34 54
	202	5	181	19	229	3	315	16
9 6.7	33.371	39.66	32.749	73.89 —	39.862	68.76 —	60.628	84.50 —
16.7	33.162 209	39.42 24	32.563 186	73.78 11	39.627 235	68.53 23	60.305 323	84.29 21
26.7	32.960 202	39.02 40	32.380 183	73.37 41	39.397 230	68.05 48	59.990 315	83.69 60
10 6.7	32.776 184	38.47 55	32.211 169	72.66 71	39.187 210	67.34 71	59.699 291	82.74 95
16.6	32.620 156	37.79 68	32.064 147	71.64 102	39.008 179	66.43 91	59.448 251	81.48 126
	116	76	116	132	136	106	196	154
26.6	32.504 67	37.03 79	31.948 76	70.32 160	38.872 82	65.37 116	59.252 128	79.94 173
11 5.6	32.437 13	36.24 77	31.872 32	68.72 188	38.790 22	64.21 120	59.124 50	78.21 186
15.6	32.424 47	35.47 72	31.840 17	66.84 211	38.768 43	63.01 118	59.074 32	76.35 191
25.5	32.471 105	34.75 61	31.857 66	64.73 230	38.811 108	61.83 111	59.106 118	74.44 187
12 5.5	32.576 163	34.14 46	31.923 116	62.43 244	38.919 172	60.72 97	59.224 200	72.57 175
15.5	32.739	33.68	32.039	59.99	39.091	59.75	59.424	70.82
25.4	32.954 215	33.38 30	32.200 161	57.48 251	39.322 231	58.96 79	59.701 277	69.24 158
35.4	33.215 261	33.27 11	32.402 202	54.98 250	39.604 282	58.36 60	60.050 349	67.89 135
平位	s 31.892	″ 36.12	s 31.739	″ 60.51	s 38.205	″ 62.60	s 58.620	″ 74.26
sec δ, tan δ	+ 1.209	− 0.679	+ 1.036	+ 0.269	+ 1.351	− 0.909	+ 1.784	− 1.477
2 回正中	6 月 3 日		6 月 4 日		6 月 4 日		6 月 5 日	
a b	+ 0.1963	+ 0.0143	+ 0.1362	− 0.0054	+ 0.2112	+ 0.0181	+ 0.2478	+ 0.0280
a′ b′	− 0.3151	+ 0.9491	− 0.3027	+ 0.9531	− 0.2981	+ 0.9546	− 0.2841	+ 0.9588
FK3番號	628		629		630		631	

星名	κ Ophi		ε¹ Arae		ε Herc		60 Herc	
等級	3.42		4.15		3.92		4.91	
スペクトル型	K0		K2		A0		A3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 54	° ′ + 9 27	h m 16 55	° ′ −53 4	h m 16 58	° ′ +31 0	h m 17 2	° ′ +12 48
	s	″	s	″	s	″	s	″
1 1.4	58.903	43.05	3.579	22.02	6.573	29.63	44.710	62.99
11.4	59.117 214	40.86 219	3.935 356	20.95 107	6.789 216	26.63 300	44.920 210	60.66 233
21.4	59.364 247	38.78 208	4.338 403	20.16 79	7.041 252	23.85 278	45.162 242	58.45 221
31.4	59.634 270	36.88 190	4.776 438	19.66 50	7.323 282	21.38 247	45.427 265	56.44 201
2 10.3	59.918 284	35.24 164	5.238 462	19.45 21	7.626 303	19.32 206	45.709 282	54.72 172
	292	133	474	9	315	158	291	139
20.3	60.210	33.91	5.712	19.54	7.941	17.74	46.000	53.33
3 1.3	60.504 294	32.94 97	6.191 479	19.90 36	8.261 320	16.69 105	46.295 295	52.33 100
11.2	60.795 291	32.36 58	6.666 475	20.51 61	8.580 319	16.21 48	46.588 293	51.75 58
21.2	61.077 282	32.19 17	7.128 462	21.36 85	8.889 309	16.28 7	46.874 286	51.60 15
31.2	61.347 270	32.40 21	7.573 445	22.43 107	9.186 297	16.91 63	47.149 275	51.87 27
	254	57	421	125	276	112	259	66
4 10.2	61.601	32.97 89	7.994	23.68	9.462	18.03	47.408	52.53
20.1	61.837 236	33.86 117	8.386 392	25.12 144	9.716 254	19.60 157	47.650 242	53.54 101
30.1	62.051 214	35.03 137	8.744 358	26.70 158	9.942 226	21.55 195	47.871 221	54.84 130
5 10.1	62.241 190	36.40 137	9.061 317	28.41 171	10.138 196	23.78 223	48.066 195	56.37 153
20.1	62.403 162	37.92 152	9.334 273	30.21 180	10.300 162	26.22 244	48.234 168	58.06 169
	131	161	221	187	124	255	138	179
30.0	62.534	39.53	9.555	32.08	10.424	28.77	48.372	59.85
6 8.9	62.633 99	41.17 164	9.723 168	33.97 189	10.510 86	31.35 258	48.476 104	61.68 183
18.9	62.698 65	42.78 161	9.831 108	35.86 189	10.554 44	33.89 254	48.545 69	63.47 179
28.9	62.726 28	44.32 154	9.878 47	37.68 182	10.558 4	36.30 241	48.577 32	65.20 173
7 8.9	62.717 9	45.75 143	9.863 15	39.40 172	10.520 38	38.53 223	48.572 5	66.79 159
	45	127	75	156	78	199	42	143
18.9	62.672	47.02	9.788	40.96	10.442	40.52	48.530	68.22
28.9	62.593 79	48.12 110	9.654 134	42.32 136	10.325 117	42.22 170	48.451 79	69.46 124
8 7.8	62.481 112	49.01 89	9.466 188	43.43 111	10.175 150	43.60 138	48.341 110	70.48 102
17.8	62.343 138	49.69 68	9.234 232	44.25 82	9.995 180	44.62 102	48.201 140	71.25 77
27.8	62.182 161	50.14 45	8.967 267	44.75 50	9.792 203	45.25 63	48.039 162	71.77 52
	174	21	290	15	218	24	177	25
9 6.8	62.008	50.35 —	8.677	44.90 —	9.574	45.49 —	47.862	72.02 —
16.7	61.827 181	50.31 4	8.378 299	44.69 21	9.349 225	45.32 17	47.677 185	72.00 2
26.7	61.649 178	50.02 29	8.086 292	44.13 56	9.128 221	44.73 59	47.494 183	71.69 31
10 6.7	61.484 165	49.46 56	7.816 270	43.24 89	8.918 210	43.74 99	47.322 172	71.09 60
16.6	61.340 144	48.65 81	7.583 233	42.06 118	8.732 186	42.33 141	47.171 151	70.20 89
	113	108	180	143	154	179	122	117
26.6	61.227	47.57	7.403 118	40.63 162	8.578	40.54	47.049	69.03
11 5.6	61.152 75	46.23 134	7.285 44	39.01 173	8.464 114	38.38 216	46.964 85	67.57 146
15.6	61.120 32	44.64 159	7.241 32	37.28 176	8.398 66	35.90 248	46.924 40	65.86 171
25.5	61.137 17	42.83 181	7.273 113	35.52 173	8.383 15	33.14 276	46.930 6	63.91 195
12 5.5	61.202 65	40.83 200	7.386 190	33.79 161	8.422 39	30.16 298	46.985 55	61.76 215
	114	213			93	311	104	229
15.5	61.316	38.70	7.576	32.18	8.515	27.05	47.089	59.47
25.5	61.474 158	36.48 222	7.838 262	30.74 144	8.659 144	23.88 317	47.238 149	57.10 237
35.4	61.673 199	34.24 224	8.164 326	29.53 121	8.851 192	20.78 310	47.429 191	54.72 238
平位	s 60.924	″ 38.43	s 6.740	″ 35.59	s 8.694	″ 27.82	s 46.751	″ 58.84
sec δ, tan δ	+ 1.014	+ 0.167	+ 1.665	− 1.331	+ 1.167	+ 0.601	+ 1.026	+ 0.228
2 回正中	6 月 5 日		6 月 5 日		6 月 6 日		6 月 7 日	
a b	+ 0.1427	− 0.0031	+ 0.2385	+ 0.0248	+ 0.1147	− 0.0107	+ 0.1386	− 0.0037
a′ b′	− 0.2798	+ 0.9601	− 0.2794	+ 0.9602	− 0.2666	+ 0.9638	− 0.2471	+ 0.9690
FK3番號	633		632		634		635	

本初子午線正中時

星名		Grb 2415 Herc		† η Ophi *m*		η Scor		ζ Drac	
等級	スペクトル型	6.27	A 2	2.63	A 2	3.44	F 2	3.22	B 5
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 17 5	° ′ +40 35	h m 17 7	° ′ −15 39	h m 17 8	° ′ −43 9	h m 17 8	° ′ +65 46
		s	″	s	″	s	″	s	″
1	1.4	54.724 214	18.73 327	7.622 229	18.18 87	5.445 291	50.95 65	33.80 28	60.31 355
	11.4	54.938 258	15.46 393	7.851 259	19.05 92	5.736 332	50.30 46	34.08 37	56.76 326
	21.4	55.196 294	12.43 267	8.110 282	19.97 93	6.068 361	49.84 24	34.45 44	53.50 285
	31.4	55.490 321	9.76 223	8.392 297	20.90 90	6.429 383	49.60 3	34.89 50	50.65 233
2	10.3	55.811 338	7.53 170	8.689 305	21.80 82	6.812 396	49.57 16	35.39 55	48.32 174
	20.3	56.149 348	5.83 111	8.994 309	22.62 71	7.208 401	49.73 33	35.94 58	46.58 109
3	1.3	56.497 349	4.72 51	9.303 306	23.33 58	7.609 398	50.06 49	36.52 58	45.49 41
	11.3	56.846 340	4.21 12	9.609 300	23.91 43	8.007 391	50.55 64	37.10 58	45.08 28
	21.2	57.186 340	4.33 71	9.909 290	24.34 27	8.398 379	51.19 76	37.68 55	45.36 92
	31.2	57.513 327	5.04 126	10.199 277	24.61 14	8.777 362	51.95 88	38.23 50	46.28 154
	10.2	57.819 280	6.30 176	10.476 260	24.75 0	9.139 340	52.83 98	38.73 45	47.82 206
4	20.1	58.099 249	8.06 217	10.736 242	24.75 10	9.479 315	53.81 109	39.18 39	49.88 251
	30.1	58.348 212	10.23 249	10.978 218	24.65 19	9.794 285	54.90 116	39.57 31	52.39 286
5	10.1	58.560 173	12.72 272	11.196 193	24.46 24	10.079 248	56.06 124	39.88 23	55.25 310
	20.1	58.733 131	15.44 286	11.389 163	24.22 27	10.327 210	57.30 130	40.11 14	58.35 324
	30.0	58.864 85	18.30 290	11.552 130	23.95 28	10.537 165	58.60 133	40.25 5	61.59 327
6	9.0	58.949 39	21.20 285	11.682 94	23.67 27	10.702 118	59.93 134	40.30 3	64.86 321
	18.9	58.988 8	24.05 272	11.776 57	23.40 25	10.820 67	61.27 132	40.27 13	68.07 305
	28.9	58.980 56	26.77 253	11.833 17	23.15 22	10.887 15	62.59 126	40.14 21	71.12 282
7	8.9	58.924 100	29.30 226	11.850 21	22.93 19	10.902 37	63.85 117	39.93 29	73.94 251
	18.9	58.824 143	31.56 194	11.829 60	22.74 16	10.865 88	65.02 104	39.64 36	76.45 215
	28.9	58.681 182	33.50 158	11.769 95	22.58 14	10.777 133	66.06 87	39.28 42	78.60 172
8	7.8	58.499 214	35.08 118	11.674 127	22.44 11	10.644 174	66.93 67	38.86 48	80.32 126
	17.8	58.285 239	36.26 76	11.547 151	22.33 11	10.470 208	67.60 44	38.38 51	81.58 78
	27.8	58.046 258	37.02 30	11.396 169	22.22 9	10.262 229	68.04 19	37.87 54	82.36 27
	6.8	57.788 265	37.32 15	11.227 177	22.13 8	10.033 240	68.23 7	37.33 55	82.63 26
9	16.7	57.523 264	37.17 62	11.050 176	22.05 7	9.793 238	68.16 34	36.78 55	82.37 78
	26.7	57.259 251	36.55 109	10.874 165	21.98 4	9.555 222	67.82 58	36.23 55	81.59 131
10	6.7	57.008 228	35.46 153	10.709 144	21.94 0	9.333 194	67.24 81	35.70 53	80.28 180
	16.7	56.780 194	33.93 197	10.565 112	21.94 6	9.139 154	66.43 99	35.21 49 44	78.48 228
	26.6	56.586 152	31.96 237	10.453 73	22.00 14	8.985 102	65.44 113	34.77 37	76.20 272
11	5.6	56.434 102	29.59 273	10.380 27	22.14 25	8.883 43	64.31 120	34.40 29	73.48 311
	15.6	56.332 46	26.86 304	10.353 22	22.39 36	8.840 21	63.11 122	34.11 20	70.37 341
	25.5	56.286 13	23.82 326	10.375 73	22.75 49	8.861 87	61.89 118	33.91 10	66.96 365
12	5.5	56.299 73	20.56 341	10.448 123	23.24 62	8.948 152	60.71 108	33.81 1	63.31 377
	15.5	56.372	17.15	10.571 168	23.86 74	9.100 212	59.63 94	33.82 12	59.54 380
	25.5	56.503 131	13.70 345	10.739 210	24.60 84	9.312 266	58.69 76	33.94 21	55.74 369
	35.4	56.688 185	10.32 338	10.949	25.44	9.578	57.93	34.15	52.05 369
平位		s 56.982	″ 17.64	s 9.814	″ 26.17	s 8.225	″ 62.41	s 37.135	″ 60.62
sec δ, tan δ		+ 1.317	+ 0.857	+ 1.039	− 0.280	+ 1.371	− 0.938	+ 2.438	+ 2.223
2 回正中		6月 8 日		6月 8 日		6月 9 日		6月 9 日	
a	b	+ 0.0978	− 0.0133	+ 0.1715	+ 0.0043	+ 0.2143	+ 0.0140	+ 0.0088	− 0.0330
a′	b′	− 0.2337	+ 0.9723	− 0.2285	+ 0.9735	− 0.2244	+ 0.9745	− 0.2223	+ 0.9750
FK3番號		636		637		638		639	

1944 本初子午線正中時

星名		† α Herc *pr*		δ Herc		π Herc		ε Apds	
等級	スペクトル型	3.1−3.9	M 3	3.16	A 2	3.36	K 5	5.60	B 8
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 17 12	° ′ +14 27	h m 17 12	° ′ +24 54	h m 17 13	° ′ +36 52	h m 17 15	° ′ −70 3
		s	″	s	″	s	″	s	″
1	1.4	3.469 202	14.03 239	41.674 199	17.02 282	3.471 203	17.97 319	45.06 52	49.82 202
	11.4	3.671 234	11.64 227	41.873 236	14.20 264	3.674 245	14.78 297	45.58 61	47.80 172
	21.4	3.905 259	9.37 206	42.109 263	11.56 238	3.919 279	11.81 265	46.19 68	46.08 136
	31.4	4.164 277	7.31 178	42.372 285	9.18 202	4.198 305	9.16 222	46.87 75	44.72 97
2	10.3	4.441 289	5.53 142	42.657 298	7.16 160	4.503 323	6.94 172	47.62 78	43.75 58
	20.3	4.730 294	4.11 103	42.955 306	5.56 111	4.826	5.22 117	48.40 80	43.17
3	1.3	5.024 294	3.08 60	43.261 305	4.45 59	5.159 333	4.05 57	49.20 81	43.00 17
	11.3	5.318 288	2.48 15	43.566 300	3.86 8	5.493 334	3.48 2	50.01 79	43.22 22
	21.2	5.606 278	2.33 28	43.866 300	3.78 44	5.822 329	3.50 61	50.80 78	43.82 60
	31.2	5.884 265	2.61 69	44.156 290	4.22 92	6.139 317	4.11 116	51.58 74	44.79 97
	10.2	6.149 248	3.30 105	44.431 275	5.14 135	6.438 299	5.27 163	52.32 69	46.09 130
4	20.1	6.397 227	4.35 136	44.686 255	6.49 171	6.713 275	6.90 205	53.01 63	47.71 162
	30.1	6.624 203	5.71 160	44.919 233	8.20 199	6.961 248	8.95 238	53.64 56	49.62 191
5	10.1	6.827 176	7.31 178	45.124 205	10.19 221	7.176 215	11.33 261	54.20 49	51.77 215
	20.1	7.003 145	9.09 188	45.299 175	12.40 233	7.355 179	13.94 275	54.69 39	54.12 235
	30.0	7.148 111	10.97 193	45.441 142	14.73 238	7.494 139	16.69 281	55.08 29	56.62 250
6	9.0	7.259 77	12.90 191	45.546 105	17.11 236	7.590 96	19.50 277	55.37 19	59.22 260
	18.9	7.336 38	14.81 183	45.612 66	19.47 226	7.643 53	22.27 267	55.56 8	61.85 263
	28.9	7.374 0	16.64 170	45.639 27	21.73 211	7.650 7	24.94 248	55.64 3	64.46 261
7	8.9	7.374 37	18.34 154	45.625 14 53	23.84 190	7.612 38 82	27.42 224	55.61 15	66.97 251 234
	18.9	7.337	19.88	45.572	25.74	7.530	29.66	55.46	69.31
	28.9	7.262 75	21.22 134	45.480 92	27.39 165	7.406 124	31.60 194	55.22 24	71.41 210
8	7.8	7.153 109	22.32 110	45.353 127	28.75 136	7.245 161	33.19 159	54.88 34	73.22 181
	17.8	7.016 137	23.18 86	45.196 157	29.80 105	7.050 195	34.41 122	54.45 43	74.65 143
	27.8	6.853 163 179	23.76 58 31	45.014 182 200	30.50 70 35	6.829 221 239	35.22 81 38	53.96 49 54	75.67 102 57
	6.8	6.674 188	24.07 1	44.814 209	30.85 2	6.590 249	35.60 6	53.42 56	76.24
9	16.7	6.486 187	24.08 28	44.605 208	30.83 40	6.341 248	35.54 50	52.86 56	76.31 7
	26.7	6.299 178	23.80 59	44.397 198	30.43 77	6.093 248	35.04 96	52.30 56	75.90 41
10	6.7	6.121 159	23.21 89	44.199 178	29.66 115	5.855 238	34.08 139	51.77 53	75.00 90
	16.7	5.962 130	22.32 118	44.021 150	28.51 152	5.639 216 184	32.69 182	51.30 47 40	73.65 135 174
	26.6	5.832	21.14	43.871	26.99	5.455	30.87	50.90	71.91
11	5.6	5.739 93	19.66 148	43.759 112	25.13 186	5.310 145	28.66 221	50.61 29	69.83 208
	15.6	5.687 52	17.91 175	43.691 68	22.95 218	5.212 98	26.08 258	50.43 18	67.50 233
	25.5	5.683 4	15.92 199	43.671 20	20.49 246	5.168 44	23.20 288	50.38 5	65.02 248
12	5.5	5.727 44 93	13.73 219 235	43.703 32 83	17.82 267 284	5.180 12 68	20.08 312 327	50.46 8 22	62.47 255 251
	15.5	5.820	11.38	43.786	14.98	5.248	16.81	50.68	59.96
	25.5	5.959 139	8.95 243	43.917 131	12.08 290	5.372 124	13.48 333	51.02 34	57.58 238
	35.4	6.140 181	6.51 244	44.094 177	9.19 289	5.548 176	10.19 329	51.48 46	55.40 218
平位		s 5.529	″ 10.06	s 43.769	″ 14.20	s 5.679	″ 16.30	s 50.359	″ 63.06
sec δ, tan δ		+ 1.033	+ 0.258	+ 1.103	+ 0.464	+ 1.250	+ 0.750	+ 2.933	− 2.758
2 回正中		6月 10 日		6月 10 日		6月 10 日		6月 11 日	
a	b	+ 0.1365	− 0.0036	+ 0.1230	− 0.0063	+ 0.1044	− 0.0102	+ 0.3338	+ 0.0352
a′	b′	− 0.2075	+ 0.9782	− 0.2048	+0.9788	− 0.2032	+ 0.9791	− 0.1915	+ 0.9815
FK3番號		640		641		643		642	

星名		ϑ Ophi		β Arae		27 H. Ophi		45 Ophi	
等級		3.37		2.80		4.61		4.37	
スペクトル型		B3		K2		F0		F5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 17 18	° ′ −24 56	h m 17 20	° ′ −55 28	h m 17 23	° ′ − 5 2	h m 17 23	° ′ −29 48
		s	″	s	″	s	″	s	″
1	1.5	31.689	34.92	34.829	33.87	37.314	13.19	44.052	56.75
	11.4	31.922 233	35.21 29	35.167 338	32.47 140	37.517 203	14.58 139	44.290 238	56.73 2
	21.4	32.189 267	35.59 38	35.560 393	31.32 115	37.751 234	15.97 139	44.563 273	56.83 10
	31.4	32.480 291	36.05 46	35.996 436	30.43 89	38.009 258	17.28 131	44.863 300	57.03 20
2	10.3	32.790 310	36.55 50	36.465 469	29.83 60	38.285 276	18.46 118	45.183 320	57.32 29
		321	52	489	31	287	101	332	34
	20.3	33.111	37.07	36.954	29.52	38.572	19.47	45.515	57.66
3	1.3	33.436 325	37.57 50	37.454 500	29.49 3	38.865 293	20.26 79	45.854 339	58.04 38
	11.3	33.762 326	38.04 47	37.957 503	29.74 25	39.158 293	20.81 55	46.193 339	58.44 40
	21.2	34.082 320	38.46 42	38.454 497	30.25 51	39.448 290	21.10 29	46.529 336	58.84 40
	31.2	34.395 313	38.83 37	38.939 485	31.01 76	39.730 282	21.13 3	46.856 327	59.25 41
		300	32	465	99	272	21	316	39
4	10.2	34.695 284	39.15 27	39.404 440	32.00 121	40.002 259	20.92 43	47.172 300	59.64 40
	20.2	34.979 266	39.42 23	39.844 407	33.21 141	40.261 240	20.49 61	47.472 281	60.04 41
	30.1	35.245 242	39.65 22	40.251 370	34.62 157	40.501 220	19.88 76	47.753 258	60.45 42
5	10.1	35.487 216	39.87 21	40.621 323	36.19 173	40.721 196	19.12 86	48.011 230	60.87 44
	20.1	35.703 186	40.08 22	40.944 272	37.92 184	40.917 168	18.26 92	48.241 198	61.31 47
	30.0	35.889 150	40.30 23	41.216 216	39.76 192	41.085 136	17.34 94	48.439 162	61.78 51
6	9.0	36.039 113	40.53 26	41.432 153	41.68 196	41.221 101	16.40 92	48.601 123	62.29 53
	18.9	36.152 72	40.79 27	41.585 88	43.64 195	41.322 66	15.48 88	48.724 80	62.82 55
	28.9	36.224	41.06 28	41.673 19	45.59 189	41.388 26	14.60 81	48.804 36	63.37 55
7	8.9	36.254 30	41.34 28	41.692 48	47.48 177	41.414 12	13.79 72	48.840 10	63.92 53
		13							
	18.9	36.241	41.62	41.644 113	49.25 160	41.402	13.07	48.830	64.45
	28.9	36.187 54	41.88 26	41.531 174	50.85 138	41.351 51	12.45 62	48.777 53	64.95 50
8	7.9	36.093 94	42.12 24	41.357 228	52.23 111	41.266 85	11.93 52	48.681 96	65.40 45
	17.8	35.965 128	42.30 18	41.129 271	53.34 80	41.148 118	11.53 40	48.549 132	65.76 36
	27.8	35.808 157	42.42 12	40.858 303	54.14 44	41.004 144	11.24 29	48.387 162	66.01 25
		177	5			163	17	185	14
9	6.8	35.631	42.47 —	40.555	54.58 8	40.841	11.07 6	48.202	66.15 1
	16.7	35.442 189	42.44 3	40.236 319	54.66 8	40.667 174	11.01 6	48.005 197	66.16 1
	26.7	35.253 189	42.32 12	39.917 319	54.36 30	40.491 176	11.08 7	47.806 199	66.04 12
10	6.7	35.074 179	42.13 19	39.613 304	53.69 67	40.324 167	11.28 20	47.617 189	65.80 24
	16.7	34.916 158	41.89 24	39.342 271	52.67 102	40.174 150	11.60 32	47.449 168	65.45 35
		126	27	223	131	121	48	136	43
	26.6	34.790	41.62	39.119	51.36	40.053 87	12.08	47.313	65.02
11	5.6	34.704 86	41.35 27	38.958 161	49.81 155	39.966	12.70 62	47.219 94	64.54 48
	15.6	34.666 38	41.10 25	38.869 89	48.07 174	39.922 44	13.49 79	47.173 46	64.05 49
	25.6	34.679 13	40.91 19	38.860 9	46.23 184	39.923 1	14.44 95	47.181 8	63.59 46
12	5.5	34.745 66	40.81 10	38.933 73	44.36 187	39.973 50	15.53 109	47.244 63	63.19 40
		119	1	155	181	98	123	118	31
	15.5	34.864 169	40.82 12	39.088 233	42.55 170	40.071 143	16.76 133	47.362 170	62.88 20
	25.5	35.033 212	40.94 24	39.321 303	40.85 153	40.214 183	18.09 140	47.532 215	62.68 8
	35.4	35.245	41.18	39.624	39.32	40.397	19.49	47.747	62.60
平位		s 34.046	″ 43.57	s 38.319	″ 45.56	s 39.452	″ 19.31	s 46.520	″ 65.66
sec δ, tan δ		+ 1.103	− 0.465	+ 1.765	− 1.454	+ 1.004	− 0.088	+ 1.153	− 0.573
2 周正中		6 月 11 日		6 月 12 日		6 月 13 日		6 月 13 日	
a b		+ 0.1838	+ 0.0056	+ 0.2488	+ 0.0166	+ 0.1591	+ 0.0009	+ 0.1911	+ 0.0060
a′ b′		− 0.1798	+ 0.9837	− 0.1709	+ 0.9853	− 0.1579	+ 0.9875	− 0.1574	+ 0.9875
FK3番號		644		645		647		646	

星名		77 Herc		δ Arae		υ Scor		α Arae	
等級		5.81		3.79		2.80		2.97	
スペクトル型		A2		B8		B3		B3p	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 17 25	° ′ +48 18	h m 17 25	° ′ −60 38	h m 17 26	° ′ −37 15	h m 17 27	° ′ −49 49
		s	″	s	″	s	″	s	″
1	1.5	12.585	23.63	58.27	10.85	54.513	1.67	27.335	51.79
	11.4	12.781 196	20.18 345	58.64 37	9.16 169	54.766 253	1.20 47	27.632 297	50.62 117
	21.4	13.033 252	16.94 324	59.07 43	7.72 144	55.057 291	0.88 32	27.977 345	49.67 95
	31.4	13.329 296	14.06 288	59.56 49	6.57 115	55.378 321	0.72 16	28.362 385	48.94 73
2	10.3	13.663 334	11.62 244	60.09 53	5.74 83	55.722 344	0.69 3	28.775 413	48.45 49
		361	190	55	51	358	10	432	25
	20.3	14.024	9.72	60.64	5.23	56.080	0.79	29.207	48.20
3	1.3	14.401 377	8.42 130	61.21 57	5.04 19	56.446 366	1.00 21	29.650 443	48.18 2
	11.3	14.785 384	7.75 67	61.78 57	5.17 13	56.814 368	1.31 31	30.096 446	48.37 19
	21.2	15.167 382	7.74 1	62.35 57	5.61 44	57.178 364	1.70 39	30.538 442	48.78 41
	31.2	15.537 370	8.36 62	62.91 56	6.35 74	57.534 356	2.17 47	30.971 433	49.39 61
		351	122	54	102	344	53	418	80
4	10.2	15.888	9.58 176	63.45	7.37	57.878	2.70	31.389	50.19
	20.2	16.211 323	11.34 222	63.95 50	8.64 127	58.206 328	3.31 61	31.786 397	51.16 97
	30.1	16.500 289	13.56 258	64.42 47	10.15 151	58.513 307	3.98 67	32.156 370	52.30 114
5	10.1	16.749 249	16.14 286	64.85 43	11.88 173	58.794 281	4.72 74	32.494 338	53.58 128
	20.1	16.953 204	19.00 303	65.22 37	13.78 190	59.046 252	5.53 81	32.794 300	55.00 142
		156		32	204	216	86	257	153
	30.0	17.109	22.03	65.54	15.82	59.262	6.39	33.051	56.53
6	9.0	17.212 103	25.14 311	65.78 24	17.97 215	59.440 178	7.31 92	33.258 207	58.13 160
	18.9	17.260 48	28.23 309	65.96 18	20.17 220	59.574 134	8.26 95	33.410 152	59.78 165
	28.9	17.254	31.21 298	66.06 10	22.36 219	59.661 87	9.23 97	33.506 96	61.44 166
7	8.9	17.193 61	34.02 281	66.08 2	24.50 214	59.700 39	10.19 96	33.541 35	63.06 162
		114	254	6	202	11	92	25	154
	18.9	17.079	36.56	66.02	26.52	59.689	11.11	33.516	64.60
	28.9	16.915 164	38.79 223	65.89 13	28.36 184	59.631 58	11.95 84	33.432 84	66.00 140
8	7.9	16.706 209	40.65 186	65.68 21	29.95 159	59.527 104	12.70 75	33.293 139	67.23 123
	17.8	16.458 248	42.10 145	65.42 26	31.25 130	59.382 145	13.30 60	33.105 188	68.23 100
	27.8	16.177 281	43.10 100	65.10 32	32.21 96	59.204 178	13.75 45	32.876 229	68.97 74
		303	54	35	57	203	26	258	44
9	6.8	15.874	43.64	64.75	32.78 16	59.001	14.01 6	32.618	69.41
	16.7	15.559 315	43.68 4	64.37 38	32.94 26	58.784 217	14.07 15	32.343 275	69.54 13
	26.7	15.241 318	43.23 45	64.00 37	32.68 67	58.565 219	13.92 35	32.065 278	69.33 21
10	6.7	14.934 307	42.28 95	63.64 36	32.01 106	58.356 209	13.57 52	31.800 265	68.81 52
	16.7	14.648 286	40.85 143	63.31 33	30.95 142	58.170 186	13.05 68	31.562 238	67.99 82
		254	191	27		152		196	109
	26.6	14.394	38.94	63.04	29.53	58.018	12.37	31.366	66.90
11	5.6	14.185 209	36.59 235	62.84 20	27.83 170	57.909 109	11.57 80	31.222 144	65.60 130
	15.6	14.027 158	33.84 275	62.71 13	25.91 192	57.854 55	10.71 86	31.142 80	64.15 145
	25.6	13.929 98	30.75 309	62.68 3	23.85 206	57.856 2	9.83 88	31.132 10	62.60 155
12	5.5	13.895 34	27.40 335	62.75 7	21.73 212	57.918 62	8.98 85	31.195 63	61.04 156
		33	353	15	209	121	78	135	153
	15.5	13.928	23.87	62.90	19.64	58.039	8.20	31.330	59.51
	25.5	14.027 99	20.26 361	63.15 25	17.64 200	58.217 178	7.52 68	31.534 204	58.10 141
	35.4	14.188 161	16.71 355	63.48 33	15.83 181	58.445 228	6.98 54	31.800 266	56.83 127
平位		s 15.026	″ 22.30	s 62.241	″ 22.46	s 57.181	″ 11.14	s 30.510	″ 62.39
sec δ, tan δ		+ 1.503	+ 1.123	+ 2.040	− 1.778	+ 1.256	− 0.760	+ 1.550	− 1.185
2 周正中		6 月 13 日		6 月 13 日		6 月 14 日		6 月 14 日	
a b		+ 0.0793	− 0.0113	+ 0.2705	+ 0.0175	+ 0.2035	+ 0.0073	+ 0.2315	+ 0.0112
a′ b′		− 0.1510	+ 0.9885	− 0.1477	+ 0.9890	− 0.1437	+ 0.9896	− 0.1413	+ 0.9900
FK3番號		650		648		649		651	

星名		β Drac				λ Scor				ν¹ Drac				ν² Drac			
等級	スペクトル型	2.99		G0		1.71		B2		4.93		A5		4.95		A5	
世界時		赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月	日	h m 17 29		° ′ +52 20		h m 17 29		° ′ −37 3		h m 17 31		° ′ +55 13		h m 17 31		° ′ +55 12	
		s		″		s		″		s		″		s		″	
1	1.5	7.327		33.00		45.491		44.41		1.539		20.10		6.967		38.84	
	11.4	7.523	196	29.47	353	45.740	249	43.93	48	1.737	198	16.54	356	7.164	197	35.28	356
	21.4	7.778	255	26.17	330	46.028	288	43.60	33	2.000	263	13.20	334	7.427	263	31.94	334
	31.4	8.085	307	23.22	295	46.346	318	43.42	18	2.319	319	10.21	299	7.746	319	28.96	298
2	10.3	8.435	350	20.72	250	46.688	342	43.37	5	2.685	366	7.68	253	8.111	365	26.43	253
			380		196		355		8		400		198		401		199
	20.3	8.815		18.76		47.043		43.45		3.085		5.70		8.512		24.44	
3	1.3	9.217	402	17.41	135	47.408	365	43.63	18	3.509	424	4.33	137	8.936	424	23.07	137
	11.3	9.628	411	16.71	70	47.775	367	43.91	28	3.945	436	3.61	72	9.371	435	22.35	72
	21.2	10.037	409	16.68	3	48.138	363	44.27	36	4.379	434	3.57	4	9.805	434	22.31	4
	31.2	10.435	398	17.29	61	48.494	356	44.71	44	4.802	423	4.18	61	10.228	423	22.92	61
			378		123		345		50		400		123		400		123
4	10.2	10.813		18.52		48.839		45.21		5.202		5.41		10.628		24.15	
	20.2	11.160	347	20.29	177	49.167	328	45.78	57	5.571	369	7.20	179	10.997	369	25.94	179
	30.1	11.471	311	22.54	225	49.476	309	46.42	64	5.900	329	9.47	227	11.326	329	28.20	226
5	10.1	11.739	268	25.17	263	49.759	283	47.13	71	6.181	281	12.12	265	11.607	281	30.86	266
	20.1	11.956	217	28.08	291	50.013	254	47.91	78	6.408	227	15.07	295	11.835	228	33.80	294
			164		310		219		84		170		313		169		314
	30.0	12.120	106	31.18	318	50.232	181	48.75	89	6.578	107	18.20	322	12.004	108	36.94	322
6	9.0	12.226	47	34.36	317	50.413	137	49.64	94	6.685	44	21.42	322	12.112	44	40.16	321
	18.9	12.273	13	37.53	307	50.550	90	50.58	95	6.729	21	24.64	311	12.156	21	43.37	312
	28.9	12.260	73	40.60	289	50.640	42	51.53	95	6.708	85	27.75	294	12.135	85	46.49	293
7	8.9	12.187	130	43.49	263	50.682	7	52.48	91	6.623	146	30.69	268	12.050	146	49.42	268
	18.9	12.057	185	46.12	231	50.675	56	53.39	85	6.477	204	33.37	235	11.904	204	52.10	236
	28.9	11.872	233	48.43	194	50.619	101	54.24	75	6.273	257	35.72	198	11.700	256	54.46	198
8	7.9	11.639	277	50.37	152	50.518	142	54.99	61	6.016	301	37.70	156	11.444	301	56.44	156
	17.8	11.362	311	51.89	106	50.376	177	55.60	46	5.715	338	39.26	110	11.143	338	58.00	110
	27.8	11.051	336	52.95	59	50.199	201	56.06	28	5.377	365	40.36	62	10.805	364	59.10	62
9	6.8	10.715		53.54	9	49.998	216	56.34	8	5.012	380	40.98	11	10.441	380	59.72	11
	16.7	10.365	350	53.63	42	49.782	219	56.42	13	4.632	383	41.09	41	10.061	383	59.83	41
	26.7	10.012	353	53.21	93	49.563	209	56.29	32	4.249	373	40.68	92	9.678	373	59.42	92
10	6.7	9.668	344	52.28	143	49.354	187	55.97	50	3.876	351	39.76	148	9.305	351	58.50	143
	16.7	9.347	321	50.85	192	49.167	154	55.47	66	3.525	315	38.33	192	8.954	315	57.07	143
			288														192
	26.6	9.059		48.93		49.013		54.81		3.210	268	36.41		8.639		55.15	
11	5.6	8.817	242	46.57	236	48.903	110	54.04	77	2.942	210	34.03	238	8.371	268	52.77	238
	15.6	8.630	187	43.79	278	48.845	58	53.20	84	2.732	144	31.23	280	8.161	210	49.98	279
	25.6	8.505	125	40.66	313	48.843	2	52.33	87	2.588	144	28.08	315	8.017	144	46.82	316
12	5.5	8.449	56	37.26	340	48.902	59	51.49	84	2.517	71	24.64	344	7.946	71	43.39	343
			16		359		118		78		4		362		4		362
	15.5	8.465	87	33.67	367	49.020	174	50.71	68	2.521	81	21.02	370	7.950	81	39.77	370
	25.5	8.552	156	30.00	362	49.194	224	50.03	55	2.602	155	17.32	366	8.031	154	36.07	366
	35.4	8.708		26.38		49.418		49.48		2.757		13.66		8.185		32.41	
平位		s 9.894		″ 31.68		s 48.163		″ 53.66		s 4.214		″ 18.81		s 9.641		″ 37.55	
sec δ, tan δ		+ 1.637		+ 1.296		+ 1.253		− 0.755		+ 1.753		+ 1.440		+ 1.753		+ 1.439	
2 回正中		6月14日				6月14日				6月15日				6月15日			
a	b	+ 0.0677		− 0.0116		+ 0.2032		+ 0.0066		+ 0.0581		− 0.0121		+ 0.0581		− 0.0120	
a′	b′	− 0.1341		+ 0.9910		− 0.1314		+ 0.9913		− 0.1259		+ 0.9921		− 0.1255		+ 0.9921	
FK3番號		653				652				655				657			

星名		27 Drac				α Ophi				ϑ Scor				ξ Serp			
等級	スペクトル型	5.21		K0		2.14		A5		2.04		F0		3.64		A5	
世界時		赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月	日	h m 17 32		° ′ +68 9		h m 17 32		° ′ +12 35		h m 17 33		° ′ −42 57		h m 17 34		° ′ −15 21	
		s		″		s		″		s		″		s		″	
1	1.5	7.41		75.99		17.904		61.87		14.606		41.62		20.400		47.36	
	11.4	7.64	23	72.37	362	18.088	184	59.58	229	14.869	263	40.79	83	20.605	205	48.13	77
	21.4	7.98	34	68.99	338	18.305	217	57.40	218	15.175	306	40.12	67	20.842	237	48.93	80
	31.4	8.41	43	65.97	302	18.550	245	55.39	201	15.515	340	39.64	48	21.105	263	49.74	81
2	10.4	8.91	50	63.42	255	18.815	265	53.64	175	15.881	366	39.33	31	21.387	282	50.50	76
			57		199		280		143		383		13		295		68
	20.3	9.48	61	61.43	136	19.095	288	52.21	105	16.264	393	39.20	3	21.682	302	51.18	
3	1.3	10.09	63	60.07	70	19.383	291	51.16	64	16.657	397	39.23	19	21.984	305	51.75	57
	11.3	10.72	63	59.37	1	19.674	289	50.52	22	17.054	395	39.42	32	22.289	302	52.18	43
	21.2	11.35	63	59.36	65	19.963	283	50.30	21	17.449	387	39.74	46	22.591	297	52.46	28
	31.2	11.96	61	60.01	128	20.246	272	50.51	61	17.836	375	40.20	59	22.888	288	52.59	13
			58														1
4	10.2	12.54		61.29	185	20.518	259	51.12	96	18.211	358	40.79	71	23.176	275	52.58	14
	20.2	13.07	53	63.14	233	20.777	240	52.08	128	18.569	336	41.50	83	23.451	260	52.44	25
	30.1	13.53	46	65.47	273	21.017	220	53.36	152	18.905	310	42.33	94	23.711	239	52.19	32
5	10.1	13.91	38	68.20	302	21.237	193	54.88	171	19.215	277	43.27	105	23.950	215	51.87	37
	20.1	14.20	29	71.22	321	21.430	165	56.59	183	19.492	239	44.32	113	24.165	187	51.50	39
			20														
	30.1	14.40	10	74.43		21.595		58.42		19.731		45.45		24.352		51.11	
6	9.0	14.50	10	77.73	330	21.727	132	60.30	188	19.927	196	46.66	121	24.508	156	50.73	38
	18.9	14.50	0	81.02	329	21.823	96	62.17	187	20.077	150	47.91	125	24.628	120	50.37	36
	28.9	14.41	9	84.20	318	21.882	59	63.98	181	20.176	99	49.19	128	24.710	82	50.05	32
7	8.9	14.21	20	87.20	300	21.901	19	65.67	169	20.221	45	50.46	127	24.751	41	49.78	27
			28		273		19		155		8		122		1		21
	18.9	13.93		89.93		21.882		67.22		20.213		51.68		24.752		49.57	
	28.9	13.55	38	92.33	240	21.823	59	68.57	135	20.151	62	52.80	112	24.712	40	49.40	17
8	7.9	13.11	44	94.34	201	21.729	94	69.71	114	20.040	111	53.80	100	24.633	79	49.29	11
	17.8	12.60	51	95.92	158	21.603	126	70.61	90	19.884	156	54.63	83	24.520	113	49.21	8
	27.8	12.04	56	97.03	111	21.449	154	71.26	65	19.691	193	55.25	62	24.378	142	49.16	5
			60		62		172		39		221		40		164		3
9	6.8	11.44	62	97.65	9	21.277	186	71.65	10	19.470	238	55.65	13	24.214	176	49.13	1
	16.8	10.82	62	97.74	43	21.091	188	71.75	17	19.232	241	55.78	12	24.038	181	49.12	1
	26.7	10.20	61	97.31	96	20.903	181	71.58	46	18.991	231	55.66	38	23.857	173	49.13	4
10	6.7	9.59	58	96.35	148	20.722	165	71.12	75	18.760	209	55.28	62	23.684	156	49.17	7
	16.7	9.01	53	94.87	197	20.557	140	70.37	104	18.551	174	54.66	83	23.528	129	49.24	11
	26.6	8.48	47	92.90	245	20.417	106	69.33	132	18.377	126	53.83	100	23.399	93	49.35	
11	5.6	8.01	38	90.45	286	20.311	65	68.01	159	18.251	71	52.83	111	23.306	51	49.53	18
	15.6	7.63	28	87.59	322	20.246	21	66.42	183	18.180	10	51.72	118	23.255	3	49.78	25
	25.6	7.35	18	84.37	350	20.225	27	64.59	203	18.170	56	50.54	119	23.252	46	50.14	36
12	5.5	7.17	7	80.87	369	20.252	75	62.56	219	18.226	119	49.35	114	23.298	95	50.60	46
																	56
	15.5	7.10	−	77.18		20.327		60.37		18.345		48.21		23.393		51.16	
	25.5	7.15	5	73.42	376	20.447	120	58.07	230	18.525	180	47.16	105	23.535	142	51.83	67
	35.4	7.31	16	69.70	372	20.610	163	55.75	232	18.761	236	46.25	91	23.719	184	52.58	75
平位		s 10.990		″ 74.96		s 19.992		″ 57.69		s 17.493		″ 51.16		s 22.659		″ 54.20	
sec δ, tan δ		+ 2.689		+ 2.496		+ 1.025		+ 0.224		+ 1.367		− 0.931		+ 1.037		− 0.275	
2 回正中		6月15日				6月15日				6月15日				6月15日			
a	b	− 0.0119		− 0.0202		+ 0.1385		− 0.0018		+ 0.2150		+ 0.0072		+ 0.1715		+ 0.0020	
a′	b′	− 0.1211		+ 0.9927		− 0.1204		+ 0.9927		− 0.1163		+ 0.9932		− 0.1116		+ 0.9938	
FK3番號		659				656				654				658			

星名	ω Drac		ε Herc		x Scor		μ Arae	
等級	4.87		3.79		2.51		5.26	
スペクトル型	F5		B3		B2		G5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 17 37	° ′ +68 46	h m 17 37	° ′ +46 1	h m 17 38	° ′ −39 0	h m 17 39	° ′ −51 48
	s	″	s	″	s	″	s	″
1 1.5	12.82 22	63.85 363	50.522 178	68.81 344	33.874 244	2.65 64	38.308 290	13.45 135
11.4	13.04	60.22 339	50.700 230	65.37 324	34.118 286	2.01 50	38.598 343	12.10 116
21.4	13.37 33	56.83 305	50.930 275	62.13 292	34.404 319	1.51 35	38.941 386	10.94 93
31.4	13.79 42	53.78 259	51.205 313	59.21 250	34.723 343	1.16 20	39.327 419	10.01 70
2 10.4	14.30 51 58	51.19 204	51.518 340	56.71 199	35.066 360	0.96 8	39.746 441	9.31 46
20.3	14.88 62	49.15 142	51.858 359	54.72 141	35.426 371	0.88 6	40.187 456	8.85 21
3 1.3	15.50 64	47.73 75	52.217 369	53.31 78	35.797 375	0.94 16	40.643 462	8.64 2
11.3	16.14 65	46.98 8	52.586 369	52.53 15	36.172 375	1.10 27	41.105 462	8.66 25
21.2	16.79 63	46.90 60	52.955 361	52.38 49	36.545 373	1.37 36	41.567 454	8.91 47
31.2	17.42 60	47.50 123	53.316 346	52.87 108	36.913 368 357	1.73 45	42.021 442	9.38 47 68
4 10.2	18.02	48.73 180	53.662 322	53.95 163	37.270 342	2.18 54	42.463 421	10.06 88
20.2	18.56 54 48	50.53 229	53.984 293	55.58 211	37.612 323	2.72 64	42.884 397	10.94 108
30.1	19.04 40	52.82 270	54.277 257	57.69 248	37.935 298	3.36 72	43.281 365	12.02 125
5 10.1	19.44 31	55.52 301	54.534 215	60.17 278	38.233 269	4.08 81	43.646 326	13.27 141
20.1	19.75 21	58.53 320	54.749 170	62.95 298	38.502 234	4.89 89	43.972 282	14.68 154
30.1	19.96	61.73 331	54.919	65.93 307	38.736 194	5.78 97	44.254 231	16.22 165
6 9.0	20.08 12 1	65.04 330	55.040 121 69	69.00 308	38.930 150	6.75 101	44.485 175	17.87 172
18.9	20.09 10	68.34 321	55.109 15	72.08 300	39.080 102	7.76 105	44.660 115	19.59 175
28.9	19.99 19	71.55 304	55.124 38	75.08 284	39.182 52	8.81 105	44.775 51	21.34 173
7 8.9	19.80 28	74.59 278	55.086 90	77.92 261	39.234 1	9.86 103	44.826 11	23.07 167
18.9	19.52	77.37	54.996	80.53	39.235 50	10.89 96	44.815 75	24.74
28.9	19.14 38	79.83 246	54.856 140	82.84 231	39.185 98	11.85 87	44.740 135	26.29 155
8 7.9	18.69 45	81.90 207	54.670 186	84.80 196	39.087 140	12.72 73	44.605 187	27.67 138
17.8	18.17 52	83.56 166	54.444 226	86.37 157	38.947 177	13.45 57	44.418 232	28.82 115
27.8	17.59 58 61	84.74 118 70	54.184 260 284	87.51 114 68	38.770 205	14.02 37	44.186 265	29.72 90 59
6.8	16.98	85.44 17	53.900	88.19 21	38.565 221	14.39 16	43.921 287	30.31 26
16.8	16.34 64	85.61 35	53.601 299	88.40 28	38.344 227	14.55 7	43.634 292	30.57 8
9 26.7	15.70 64	85.26 87	53.297 304	88.12 78	38.117 218	14.48 28	43.342 283	30.49 42
10 6.7	15.06 64	84.39 140	53.001 296	87.34 126	37.899 197	14.20 49	43.059 258	30.07 75
16.7	14.46 60 55	82.99 190	52.723 278 249	86.08 174	37.702 165	13.71 67	42.801 218	29.32 105
26.6	13.91	81.09 238	52.474	84.34 218	37.537 122	13.04 81	42.583 165	28.27 129
11 5.6	13.42 49	78.71 280	52.265 209	82.16 259	37.415 70	12.23 90	42.418 101	26.98 148
15.6	13.01 41	75.91 317	52.106 159	79.57 294	37.345 12	11.33 96	42.317 31	25.50 161
25.6	12.71 30	72.74 346	52.001 105	76.63 324	37.333 48	10.37 96	42.286 45	23.89 166
12 5.5	12.50 21 8	69.28 366	51.958 43 19	73.39 343	37.381 109	9.41 92	42.331 119	22.23 165
15.5	12.42 —	65.62	51.977 83	69.96	37.490 167	8.49 82	42.450 191	20.58 158
25.5	12.45 3	61.87 375	52.060 143	66.43 353	37.657 219	7.67 71	42.641 258	19.00 144
35.5	12.60 15	58.16 371	52.203	62.92 351	37.876	6.96	42.899	17.56
平位	s 16.467	″ 62.53	s 52.911	″ 66.82	s 36.638	″ 11.44	s 41.657	″ 23.17
sec δ, tan δ	+ 2.763	+ 2.576	+ 1.440	+ 1.037	+ 1.287	− 0.810	+ 1.617	− 1.271
2回正中	6月16日		6月16日		6月16日		6月17日	
a b	− 0.0176	− 0.0170	+ 0.0845	− 0.0067	+ 0.2071	+ 0.0050	+ 0.2377	+ 0.0075
a′ b′	− 0.0990	+ 0.9951	− 0.0964	+ 0.9954	− 0.0932	+ 0.9957	− 0.0885	+ 0.9961
FK3番號	664		663		660		662	

星名	η Pavo		β Ophi		ψ Drac *pr*		ε¹ Scor	
等級	3.58		2.94		4.90		3.14	
スペクトル型	K0		K0		F5		F5p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 17 40	° ′ −64 41	h m 17 40	° ′ + 4 35	h m 17 42	° ′ +72 10	h m 17 43	° ′ −40 6
	s	″	s	″	s	″	s	″
1 1.5	9.36 38	48.77 199	40.146 180	25.73 186	51.57 22	38.44 364	37.100 242	17.83
11.4	9.74	46.78 176	40.326 214	23.87 180	51.79 36	34.80 342	37.342 284	17.09 74 60
21.4	10.21 47	45.02 146	40.540 240	22.07 167	52.15 47	31.38 309	37.626 319	16.49 45
31.4	10.74 53	43.56 115	40.780 261	20.40 148	52.62 57	28.29 264	37.945 344	16.04 29
2 10.4	11.31 57 62	42.41 81	41.041 274	18.92 122	53.19 65	25.65 211	38.289 363	15.75 16
20.3	11.93 64	41.60 47	41.315 284	17.70 92	53.84 72	23.54 149	38.652	15.59 3
3 1.3	12.57 65	41.13 12	41.599 288	16.78 58	54.56 74	22.05 83	39.026 374	15.56 9
11.3	13.22 65	41.01 23	41.887 287	16.20 23	55.30 76	21.22 16	39.406 380	15.65 21
21.2	13.87 64	41.24 55	42.174 282	15.97 12	56.06 74	21.06 52	39.785 379	15.86 32
31.2	14.51 62	41.79 88	42.456 274	16.09 46	56.80 70	21.58 114	40.159 374 365	16.18 41
4 10.2	15.13	42.67 118	42.730 262	16.55 75	57.50 64	22.72	40.524	16.59
20.2	15.72 59	43.85 146	42.992 246	17.30 102	58.14 56	24.45 173	40.874 350	17.12 53 62
30.1	16.27 55	45.31 171	43.238 227	18.32 122	58.70 56	26.67 222	41.206 332	17.74
5 10.1	16.78 51	47.02 193	43.465 203	19.54 138	59.17 47	29.31 264	41.512 306	18.47 73 82
20.1	17.22 44 38	48.95 212	43.668 176	20.92 147	59.53 36 25	32.26 295 317	41.790 278 242	19.29 92
30.1	17.60	51.07 225	43.844 144	22.39 151	59.78 13	35.43 327	42.032 203	20.21 100
6 9.0	17.90 30	53.32 233	43.988 110	23.90 150	59.91 1	38.70 329	42.235 158	21.21 106
19.0	18.12 22	55.65 233	44.098	25.40 145	59.92 12	41.99 329	42.393 109	22.27 111
28.9	18.26 14	58.02 237	44.171 73	26.85 135	59.80	45.20 321	42.502 58	23.38 111
7 8.9	18.30 4 5	60.35 233 224	44.205 34 5	28.20 123	59.57 23 35	48.24 304 280	42.560 6	24.49 109
18.9	18.25	62.59 206	44.200	29.43 108	59.22	51.04 249	42.566 46	25.58
28.9	18.12 13	64.65 184	44.156 44	30.51 91	58.77 45	53.53 211	42.520 96	26.61 103
8 7.9	17.89 23	66.49 154	44.075 81	31.42 72	58.23 54	55.64 170	42.424 139	27.54 93 80
17.8	17.60 29	68.03 118	43.961 114	32.14 53	57.61 62	57.34 124	42.285 178	28.34 62
27.8	17.24 36 40	69.21 79	43.818 143 163	32.67 33	56.92 69 73	58.58 75	42.107 206	28.96 43
6.8	16.84	70.00 35	43.655	33.00 12	56.19	59.33 24	41.901 225	29.39 21
16.8	16.41 43	70.35 10	43.478 177	33.12 10	55.42 77	59.57 28	41.676 230	29.60 3
9 26.7	15.97 44	70.25 55	43.297 181	33.02 31	54.65 77	59.29 81	41.446 224	29.57 25
10 6.7	15.54 43	69.70 99	43.122 175	32.71 53	53.88 77	58.48 133	41.222 204	29.32 48
16.7	15.15 39 34	68.71 138	42.962 160 136	32.18 76	53.15 73 68	57.15 184	41.018 171	28.84 67
26.6	14.81	67.33 172	42.826	31.42 98	52.47	55.31 231	40.847	28.17
11 5.6	14.55 26	65.61 200	42.722 104	30.44 119	51.87 60	53.00 275	40.718 129	27.34 83
15.6	14.37 18	63.61 219	42.658 64	29.25 140	51.36 51	50.25 312	40.642 76	26.40 94
25.6	14.29 8	61.42 230	42.638 20	27.85 158	50.96 40	47.13 343	40.623 19	25.39 101
12 5.5	14.32 3 14	59.12 232	42.665 27 73	26.27 173	50.68 28 14	43.70 363	40.665 42 104	24.36 103 98
15.5	14.46	56.80	42.738	24.54	50.54	40.07	40.769	23.38
25.5	14.70 24	54.55 225	42.857 119	22.71 183	50.53 1	36.33 374	40.932 163	22.46 92
35.5	15.04 34	52.45 210	43.017 160	20.83 188	50.67 14	32.62 371	41.147 215	21.66 80
平位	s 13.932	″ 59.29	s 42.261	″ 20.90	s 55.713	″ 36.80	s 39.919	″ 26.32
sec δ, tan δ	+ 2.340	− 2.116	+ 1.003	+ 0.080	+ 3.267	+ 3.110	+ 1.307	− 0.842
2回正中	6月17日		6月17日		6月18日		6月18日	
a b	+ 0.2938	+ 0.0121	+ 0.1480	− 0.0005	− 0.0535	− 0.0154	+ 0.2093	+ 0.0040
a′ b′	− 0.0862	+ 0.9963	− 0.0841	+ 0.9965	− 0.0744	+ 0.9972	− 0.0712	+ 0.9975
FK3番號	661		665		670		666	

本初子午線正中時

星名	μ Herc		γ Ophi		G Scor		35 Drac	
等級	3.48		3.74		3.25		5.04	
スペクトル型	G 5		A 0		K 2		F 5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 17 44	° ′ +27 44	h m 17 45	° ′ + 2 43	h m 17 45	° ′ −37 1	h m 17 51	° ′ +76 58
	s	″	s	″	s	″	s	″
1 1.5	13.749	71.33	2.845	41.49	59.958	30.50	51.82	20.11
11.4	13.916 167	68.40 293	3.027 182	39.74 175	60.190 232	29.92 58	52.04 22	16.51 360
21.4	14.124 208	65.62 278	3.238 211	38.03 171	60.462 272	29.47 45	52.44 40	13.10 341
31.4	14.364 240	63.08 254	3.475 237	36.44 159	60.767 305	29.15 32	53.01 57	10.00 310
2 10.4	14.632 268	60.88 220	3.734 259	35.03 141	61.097 330	28.95 20	53.73 72	7.33 267
	286	178	273	118	348	8	84	217
20.3	14.918	59.10	4.007	33.85	61.445	28.87	54.57	5.16
3 1.3	15.217 299	57.80 130	4.290 283	32.97 88	61.804 359	28.88 1	55.49 92	3.60 156
11.3	15.523 306	57.03 77	4.577 287	32.40 57	62.168 364	28.98 10	56.48 99	2.67 93
21.3	15.830 307	56.80 23	4.864 287	32.16 24	62.532 364	29.17 19	57.48 100	2.42 25
31.2	16.131 301	57.11 31	5.148 284	32.26 10	62.893 361	29.43 26	58.47 99	2.83 41
	292	82	275	42	351	33	94	104
4 10.2	16.423	57.93	5.423	32.68	63.244	29.76	59.41	3.87
20.2	16.699 276	59.21 128	5.688 265	33.39 71	63.582 338	30.18 42	60.27 86	5.49 192
30.1	16.955 256	60.91 170	5.937 249	34.34 95	63.903 321	30.67 49	61.03 76	7.63 214
5 10.1	17.187 232	62.93 202	6.168 231	35.49 115	64.201 298	31.24 57	61.66 63	10.19 256
20.1	17.389 202	65.21 228	6.375 207	36.78 129	64.470 269	31.90 66	62.15 49	13.08 289
	170	244	181	138	237	74	34	311
30.1	17.559	67.65	6.556	38.16	64.707	32.64	62.49	16.19
6 9.0	17.692 133	70.18 253	6.705 149	39.58 142	64.906 199	33.45 81	62.66 17	19.44 325
19.0	17.785 93	72.72 254	6.821 116	40.99 141	65.062 156	34.33 88	62.67 1	22.72 328
28.9	17.837 52	75.20 248	6.899 78	42.35 136	65.171 109	35.25 92	62.50 17	25.94 322
7 8.9	17.845 8	77.54 234	6.938 39	43.62 127	65.232 61	36.19 94	62.18 32	29.02 308
	35	215	0	115	10	93	48	284
18.9	17.810	79.69	6.938 —	44.77	65.242 —	37.12	61.70	31.86
28.9	17.734 76	81.60 191	6.899 39	45.77 100	65.202 40	38.01 89	61.08 62	34.42 256
8 7.9	17.618 116	83.23 163	6.822 77	46.62 85	65.115 87	38.82 81	60.33 75	36.63 221
17.8	17.467 151	84.54 131	6.712 110	47.29 67	64.984 131	39.53 71	59.48 85	38.43 180
27.8	17.287 180	85.50 96	6.573 139	47.78 49	64.817 167	40.09 56	58.53 95	39.79 136
	202	59	161	30	196	38	101	89
9 6.8	17.085	86.09	6.412	48.08	64.621	40.47	57.52	40.68
16.8	16.868 217	86.29 20	6.237 175	48.19 11	64.408 213	40.67 20	56.46 106	41.07 39
26.7	16.647 221	86.10 19	6.057 180	48.11 8	64.188 220	40.67 0	55.38 108	40.94 13
10 6.7	16.431 216	85.51 59	5.882 175	47.83 28	63.975 213	40.47 20	54.32 106	40.29 65
16.7	16.230 201	84.52 99	5.721 161	47.34 49	63.780 195	40.07 40	53.29 103	39.12 117
	176	138	137	69	165	56	97	167
26.6	16.054	83.14	5.584	46.65	63.615	39.51	52.32	37.45
11 5.6	15.912 142	81.39 175	5.480 104	45.75 90	63.492 123	38.81 70	51.45 87	35.29 216
15.6	15.810 102	79.29 210	5.414 66	44.64 111	63.418 74	38.02 79	50.69 76	32.69 260
25.6	15.755 55	76.88 241	5.392 22	43.34 130	63.399 19	37.18 84	50.08 61	29.71 298
12 5.5	15.750 5	74.21 267	5.416 24	41.86 148	63.439 40	36.34 84	49.62 46	26.40 331
	46	286	71	161	99	81	27	353
15.5	15.796 96	71.35 296	5.487 116	40.25 172	63.538 155	35.53 74	49.35 9	22.87 365
25.5	15.892 143	68.39 298	5.603 157	38.53 177	63.693 206	34.79 63	49.26 10	19.22 367
35.5	16.035	65.41	5.760	36.76	63.899	34.16	49.36	15.55
平位	s 15.889	″ 68.25	s 4.976	″ 36.58	s 62.684	″ 38.57	s 57.093	″ 17.89
sec δ, tan δ	+ 1.130	+ 0.526	+ 1.001	+ 0.048	+ 1.253	− 0.754	+ 4.436	+ 4.322
2 回正中	6 月 18 日		6 月 18 日		6 月 18 日		6 月 20 日	
a b	+ 0.1183	− 0.0024	+ 0.1502	− 0.0002	+ 0.2035	+ 0.0031	− 0.1346	− 0.0101
a′ b′	− 0.0686	+ 0.9977	− 0.0650	+ 0.9979	− 0.0609	+ 0.9981	− 0.0351	+ 0.9994
FK3番號	667		668		669		675	

本初子午線正中時

星名	ξ Drac		ϑ Herc		γ Drac		ξ Herc	
等級	3.90		3.99		2.42		3.82	
スペクトル型	K 0		K 0		K 5		K 0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 17 52	° ′ +56 52	h m 17 54	° ′ +37 15	h m 17 55	° ′ +51 29	h m 17 55	° ′ +29 14
	s	″	s	″	s	″	s	″
1 1.5	30.755	53.38	17.606	27.54	15.692	43.67	33.067	72.92
11.4	30.917 162	49.77 361	17.761 155	24.32 322	15.847 155	40.12 355	33.222 155	69.96 296
21.4	31 151 234	46.34 343	17.962 201	21.24 308	16.063 216	36.74 338	33.418 196	67.13 283
31.4	31.447 296	43.21 313	18.202 240	18.43 281	16.333 270	33.66 308	33.649 231	64.53 260
2 10.4	31.797 350	40.51 270	18.475 273	15.98 245	16.650 317	30.98 268	33.909 260	62.27 226
	393	219	299	200	353	218	282	186
20.3	32.190	38.32	18.774	13.98	17.003	28.80	34.191	60.41
3 1.3	32.614 424	36.72 160	19.090 316	12.52 146	17.383 380	27.20 160	34.489 298	59.04 137
11.3	33.058 444	35.77 95	19.418 328	11.63 89	17.779 396	26.22 98	34.795 306	58.20 84
21.3	33.507 449	35.48 29	19.749 331	11.33 30	18.181 402	25.91 31	35.105 310	57.91 29
31.2	33.951 444	35.86 38	20.077 328	11.63 30	18.579 398	26.24 33	35.412 307	58.16 25
	428	102	318	88	386	97	299	79
4 10.2	34.379	36.88	20.395	12.51	18.965	27.21	35.711	58.95
20.2	34.778 399	38.49 161	20.698 303	13.90 139	19.327 362	28.75 154	35.997 286	60.22 127
30.1	35.141 363	40.60 211	20.978 280	15.76 186	19.659 332	30.79 204	36.264 267	61.91 169
5 10.1	35.458 317	43.14 254	21.232 254	18.00 224	19.952 293	33.27 248	36.508 244	63.95 204
20.1	35.722 264	46.02 288	21.453 221	20.54 254	20.201 249	36.07 280	36.723 215	66.27 232
	205	311	183	275	198	304	183	251
30.1	35.927	49.13	21.636	23.29	20.399	39.11	36.906	68.78
6 9.0	36.068 141	52.38 325	21.779 143	26.16 287	20.543 144	42.28 317	37.052 146	71.39 261
19.0	36.142 74	55.66 328	21.877 98	29.05 289	20.628 85	45.50 322	37.157 105	74.03 264
28.9	36.148 6	58.88 322	21.928 51	31.90 285	20.653 25	48.66 316	37.221 64	76.62 259
7 8.9	36.086 62	61.97 309	21.931 3	34.62 272	20.618 35	51.70 304	37.240 19	79.09 247
	129	286	44	252	94	281	25	229
18.9	35.957	64.83	21.887	37.14	20.524	54.51	37.215	81.38
28.9	35.765 192	67.41 258	21.796 91	39.41 227	20.372 152	57.05 254	37.146 69	83.44 206
8 7.9	35.515 250	69.63 222	21.661 135	41.37 196	20.168 204	59.25 220	37.036 110	85.22 178
17.8	35.213 302	71.45 182	21.488 173	42.98 161	19.918 250	61.07 182	36.890 146	86.67 145
27.8	34.870 343	72.84 139	21.281 207	44.20 122	19.628 290	62.45 138	36.712 178	87.78 111
	377	91	231	81	320	93	202	74
9 6.8	34.493	73.75	21.050	45.01	19.308	63.38	36.510	88.52
16.8	34.096 397	74.15 40	20.801 249	45.39 38	18.968 340	63.81 43	36.291 219	88.86 34
26.7	33.689 407	74.05 10	20.545 256	45.31 8	18.619 349	63.74 7	36.066 225	88.80 6
10 6.7	33.287 402	73.42 63	20.293 252	44.78 53	18.275 344	63.16 58	35.844 222	88.33 47
16.7	32.903 384	72.26 116	20.054 239	43.80 98	17.945 330	62.07 109	35.634 210	87.45 88
	353	166	214	143	301	159	186	128
26.7	32.550	70.60	19.840	42.37	17.644	60.48	35.448	86.17
11 5.6	32.241 309	68.46 214	19.660 180	40.51 186	17.382 262	58.41 207	35.293 155	84.49 168
15.6	31.988 253	65.87 259	19.521 139	38.25 226	17.170 212	55.91 250	35.179 114	82.45 204
25.6	31.799 189	62.88 299	19.431 90	35.64 261	17.015 155	53.01 290	35.109 70	80.09 236
12 5.5	31.682 117	59.58 330	19.394 37	32.73 291	16.925 90	49.79 322	35.089 20	77.45 264
	39	353	17	312	22	345	30	284
15.5	31.643 39	56.05 367	19.411 73	29.61 325	16.903 47	46.34 359	35.119 82	74.61 297
25.5	31.682 116	52.38 368	19.484 126	26.36 327	16.950 116	42.75 360	35.201 129	71.64 300
35.5	31.798	48.70	19.610	23.09	17.066	39.15	35.330	68.64
平位	s 33.494	″ 51.04	s 19.841	″ 24.60	s 18.225	″ 41.10	s 35.224	″ 69.62
sec δ, tan δ	+ 1.830	+ 1.533	+ 1.256	+ 0.761	+ 1.606	+ 1.257	+ 1.146	+ 0.560
2 回正中	6 月 20 日		6 月 20 日		6 月 21 日		6 月 21 日	
a b	+ 0.0512	− 0.0033	+ 0.1026	− 0.0013	+ 0.0695	− 0.0017	+ 0.1160	− 0.0007
a′ b′	− 0.0325	+ 0.9995	− 0.0247	+ 0.9997	− 0.0205	+ 0.9998	− 0.0193	+ 0.9998
FK3番號	671		672		676		674	

本初子午線正中時

星名	ν Ophi		67 Ophi		γ Sgtr		66 G. Apds	
等級	3.50		3.92		3.07		5.69	
スペクトル型	K0		B5p		K0		K5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 17 55	° ′ − 9 45	h m 17 57	° ′ + 2 55	h m 18 2	° ′ −30 25	h m 18 3	° ′ −75 53
	s	″	s	″	s	″	s	″
1 1.5	54.282 178	60.91 102	48.172 165	62.33 173	9.968 200	29.48 26	17.97 52	39.54 262
11.5	54.460 213	61.93 102	48.337 200	60.60 169	10.168 239	29.22 18	18.49 68	36.92 240
21.4	54.673 239	62.95 97	48.537 228	58.91 157	10.407 271	29.04 11	19.17 80	34.52 212
31.4	54.912 262	63.92 89	48.765 250	57.34 140	10.678 296	28.93 5	19.97 91	32.40 177
2 10.4	55.174 277	64.81 75	49.015 267	55.94 116	10.974 314	28.88 1	20.88 100	30.63 140
20.3	55.451 287	65.56 59	49.282 278	54.78 88	11.288 328	28.87 2	21.88 105	29.23 100
3 1.3	55.738 294	66.15 39	49.560 284	53.90 56	11.616 335	28.89 4	22.93 109	28.23 59
11.3	56.032 295	66.54 19	49.844 287	53.34 22	11.951 338	28.93 5	24.02 111	27.64 17
21.3	56.327 293	66.73 3	50.131 285	53.12 11	12.289 337	28.98 6	25.13 110	27.47 26
31.2	56.620 287	66.70 22	50.416 280	53.23 44	12.626 331	29.04 7	26.23 108	27.73 66
4 10.2	56.907 278	66.48 40	50.696 269	53.67 72	12.957 323	29.11 9	27.31 104	28.39 105
20.2	57.185 265	66.08 56	50.965 257	54.39 98	13.280 308	29.20 13	28.35 98	29.44 142
30.2	57.450 248	65.52 66	51.222 239	55.37 118	13.588 308	29.33 17	29.33 89	30.86 177
5 10.1	57.698 225	64.86 73	51.461 217	56.55 133	13.877 289	29.50 23	30.22 80	32.63 208
20.1	57.923 200	64.13 78	51.678 191	57.88 143	14.143 266	29.73 30	31.02 68	34.71 234
30.1	58.123 170	63.35 77	51.869 161	59.31 146	14.379 203	30.03 36	31.70 55	37.05 254
6 9.0	58.293 135	62.58 75	52.030 127	60.77 146	14.582 164	30.39 44	32.25 41	39.59 270
19.0	58.428 98	61.83 70	52.157 89	62.23 141	14.746 121	30.83 51	32.66 26	42.29 278
28.9	58.526 58	61.13 62	52.246 51	63.64 132	14.867 76	31.34 9	32.92 6	45.07 279
7 8.9	58.584 16	60.51 54	52.297 10	64.96 119	14.943 28	31.89 59	33.01	47.86 272
18.9	58.600 24	59.97 44	52.307 30	66.15 106	14.971 20	32.48 60	32.95 22	50.58 258
28.9	58.576 64	59.53 35	52.277 68	67.21 89	14.951 66	33.08 58	32.73 37	53.16 234
8 7.9	58.512 100	59.18 26	52.209 104	68.10 71	14.885 107	33.66 54	32.36 50	55.50 204
17.9	58.412 130	58.92 17	52.105 134	68.81 53	14.778 145	34.20 46	31.86 62	57.54 165
27.8	58.282 155	58.75 9	51.971 157	69.34 34	14.633 173	34.66 37	31.24 71	59.19 122
9 6.8	58.127 172	58.66 2	51.814 173	69.68 15	14.460 193	35.03 24	30.53 78	60.41 73
16.8	57.955 178	58.64 7	51.641 180	69.83 6	14.267 202	35.27 12	29.75 80	61.14 20
26.7	57.777 175	58.71 14	51.461 178	69.77 25	14.065 199	35.39 2	28.95 80	61.34 33
10 6.7	57.602 161	58.85 23	51.283 165	69.52 46	13.866 186	35.37 16	28.15 76	61.01 86
16.7	57.441 139	59.08 31	51.118 143	69.06 67	13.680 160	35.21 27	27.39 68	60.15 136
26.7	57.302 106	59.39 41	50.975 112	68.39 87	13.520 124	34.94 36	26.71 57	58.79 181
11 5.6	57.196 68	59.80 53	50.863 75	67.52 108	13.396 81	34.58 42	26.14 44	56.98 219
15.6	57.128 24	60.33 63	50.788 33	66.44 127	13.315 31	34.16 46	25.70 27	54.79 249
25.6	57.104 23	60.96 75	50.755 12	65.17 144	13.284 23	33.70 46	25.43 10	52.30 269
12 5.6	57.127 70	61.71 86	50.767 59	63.73 159	13.307 76	33.24 42	25.33 8	49.61 280
15.5	57.197 116	62.57 94	50.826 103	62.14 169	13.383 129	32.82 37	25.41 26	46.81 280
25.5	57.313 158	63.51 101	50.929 145	60.45 174	13.512 176	32.45 30	25.67 44	44.01 271
35.5	57.471	64.52	51.074	58.71	13.688	32.15	26.11	41.30
平位	s 56.515	″ 66.43	s 50.312	″ 57.66	s 12.553	″ 35.96	s 25.741	″ 48.17
sec δ, tan δ	+ 1.015	− 0.172	+ 1.001	+ 0.051	+ 1.160	− 0.587	+ 4.104	− 3.980
2 回正中	6 月 21 日		6 月 21 日		6 月 22 日		6 月 23 日	
a b	+ 0.1648	+ 0.0002	+ 0.1499	− 0.0000	+ 0.1925	− 0.0004	+ 0.4186	− 0.0040
a′ b′	− 0.0177	+ 0.9999	− 0.0094	+ 1.0000	+ 0.0096	+ 1.0000	+ 0.0150	+ 0.9999
FK3番號	673		677		679		678	

本初子午線正中時

星名	72 Ophi		o Herc		μ Sgtr		36 Drac	
等級	3.73		3.83		4.01		5.03	
スペクトル型	A3		A0		B8p		F5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 4	° ′ + 9 33	h m 18 5	° ′ +28 45	h m 18 10	° ′ −21 4	h m 18 13	° ′ +64 22
	s	″	s	″	s	″	s	″
1 1.5	39.474 155	20.16 206	19.224 144	16.34 293	22.385 177	25.68 27	31.21 12	44.49 366
11.5	39.629 190	18.10 200	19.368 186	13.41 281	22.562 214	25.95 30	31.33 22	40.83 354
21.4	39.819 219	16.10 186	19.554 221	10.60 260	22.776 244	26.25 32	31.55 31	37.29 328
31.4	40.038 244	14.24 164	19.775 251	8.00 228	23.020 269	26.57 31	31.86 38	34.01 290
2 10.4	40.282 262	12.60 136	20.026 275	5.72 189	23.289 286	26.88 27	32.24 44	31.11 242
20.3	40.544 274	11.24 102	20.301 292	3.83 141	23.575 300	27.15 21	32.68 50	28.69 183
3 1.3	40.818 283	10.22 65	20.593 302	2.42 89	23.875 308	27.36 13	33.18 53	26.86 121
11.3	41.101 287	9.57 25	20.895 307	1.53 35	24.183 312	27.49 3	33.71 53	25.65 54
21.3	41.388 285	9.32 14	21.202 307	1.18 20	24.495 312	27.52 5	34.25 54	25.11 13
31.2	41.673 281	9.46 53	21.509 301	1.38 73	24.807 309	27.47 14	34.80 55	25.24 79
4 10.2	41.954 273	9.99 88	21.810 289	2.11 121	25.116 301	27.33 20	35.33 51	26.03 140
20.2	42.227 259	10.87 118	22.099 272	3.32 164	25.417 290	27.13 25	35.84 46	27.43 195
30.2	42.486 241	12.05 143	22.371 251	4.96 201	25.707 274	26.88 28	36.30 41	29.38 243
5 10.1	42.727 219	13.48 162	22.622 223	6.97 228	25.981 253	26.60 27	36.71 34	31.81 280
20.1	42.946 193	15.10 175	22.845 192	9.25 249	26.234 226	26.33 25	37.05 27	34.61 308
30.1	43.139 163	16.85 181	23.037 155	11.74 260	26.460 196	26.08 20	37.32 19	37.69 326
6 9.0	43.302 128	18.66 182	23.192 116	14.34 265	26.656 160	25.88 15	37.51 11	40.95 335
19.0	43.430 90	20.48 177	23.308 74	16.99 260	26.816 121	25.73 7	37.62 2	44.30 334
28.9	43.520 51	22.25 167	23.382 29	19.59 250	26.937 78	25.66 1	37.64 7	47.64 334
7 8.9	43.571 10	23.92 154	23.411 16	22.09 233	27.015 34	25.65 6	37.57 16	50.88 324
18.9	43.581 31	25.46 138	23.395 59	24.42 210	27.049 10	25.71 11	37.41 24	53.94 281
28.9	43.550 70	26.84 118	23.336 101	26.52 183	27.039 54	25.82 16	37.17 31	56.75 248
8 7.9	43.480 106	28.02 96	23.235 139	28.35 152	26.985 93	25.98 19	36.86 38	59.23 211
17.9	43.374 136	28.98 73	23.096 172	29.87 118	26.892 128	26.17 19	36.48 43	61.34 168
27.8	43.238 161	29.71 49	22.924 198	31.05 81	26.764 157	26.36 18	36.05 48	63.02 122
9 6.8	43.077 178	30.20 23	22.726 215	31.86 43	26.607 176	26.54 16	35.57 51	64.24 72
16.8	42.899 186	30.43 2	22.511 224	32.29 2	26.431 185	26.70 13	35.06 53	64.96 20
26.7	42.713 188	30.41 27	22.287 222	32.31 37	26.246 185	26.83 8	34.53 53	65.16 33
10 6.7	42.525 169	30.14 55	22.065 211	31.94 79	26.061 173	26.91 4	34.00 52	64.83 86
16.7	42.356 152	29.59 80	21.854 190	31.15 120	25.888 151	26.95 2	33.48 49	63.97 139
26.7	42.204 123	28.79 107	21.664 160	29.95 158	25.737 119	26.97 1	32.99 44	62.58 191
11 5.6	42.081 86	27.72 131	21.504 122	28.37 195	25.618 80	26.98 1	32.55 37	60.67 238
15.6	41.995 45	26.41 155	21.382 77	26.42 228	25.538 35	26.99 4	32.18 31	58.29 281
25.6	41.950 0	24.86 175	21.305 29	24.14 256	25.503 14	27.03 8	31.87 22	55.48 318
12 5.6	41.950 46	23.11 192	21.276 21	21.58 278	25.517 63	27.11 13	31.65 13	52.30 346
15.5	41.996	21.19	21.297	18.80	25.580	27.24	31.52	48.84
25.5	42.087 91	19.16 203	21.367 70	15.88 292	25.691 111	27.43 19	31.48 4	45.20 364
35.5	42.220 133	17.09 207	21.486 119	12.92 296	25.847 156	27.68 25	31.55 7	41.50 370
平位	s 41.595	″ 15.93	s 21.377	″ 12.84	s 24.791	″ 31.15	s 34.367	″ 41.07
sec δ, tan δ	+ 1.014	+ 0.168	+ 1.141	+ 0.549	+ 1.072	− 0.385	+ 2.313	+ 2.085
2 回正中	6 月 23 日		6 月 23 日		6 月 25 日		6 月 25 日	
a b	+ 0.1421	+ 0.0002	+ 0.1168	+ 0.0009	+ 0.1790	− 0.0012	+ 0.0146	+ 0.0082
a′ b′	+ 0.0205	+ 0.9998	+ 0.0234	+ 0.9997	+ 0.0454	+ 0.9990	+ 0.0592	+ 0.9983
FK3番號	680		681		682		685	

星名		η Sgtr		Grb 2533 Lyra		δ Sgtr		ξ Pavo	
等級	スペクトル型	3.16	M3	5.42	B5	2.84	K0	4.25	K2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 18 13	° ′ −36 46	h m 18 13	° ′ +42 8	h m 18 17	° ′ −29 51	h m 18 17	° ′ −61 31
		s	″	s	″	s	″	s	″
1	1.5	47.409	43.72	51.846	24.52	21.912	8.34	59.63	12.74
	11.5	47.608 199	43.01 71	51.975 129	21.18 334	22.095 183	8.03 31	59.91 28	10.64 210
	21.4	47.850 242	42.40 61	52.155 180	17.95 323	22.318 223	7.79 24	60.27 36	8.69 195
	31.4	48.128 278	41.87 53	52.381 226	14.96 299	22.574 256	7.60 19	60.69 42	6.95 174
2	10.4	48.435 307 329	41.44 43 35	52.646 265 297	12.31 265 219	22.857 283 303	7.45 15 12	61.17 48 52	5.44 151 123
	20.4	48.764	41.09	52.943	10.12	23.160	7.33	61.69	4.21
3	1.3	49.109 345	40.83 26	53.264 321	8.45 167	23.479 319	7.24 9	62.24 55	3.26 95
	11.3	49.465 356	40.65 18	53.602 338	7.36 109	23.808 329	7.14 10	62.81 57	2.61 65
	21.3	49.826 361	40.54 11	53.949 347	6.89 47	24.143 335	7.05 9	63.40 59	2.27 34
	31.2	50.188 362 358	40.51 3 5	54.297 348 342	7.04 15 75	24.479 336 333	6.97 8 8	63.98 58 58	2.24 3 28
4	10.2	50.546	40.56	54.639	7.79	24.812	6.89	64.56	2.52
	20.2	50.896 350	40.69 13	54.967 328	9.10 131	25.139 327	6.83 6	65.13 57	3.10 58
	30.2	51.233 337	40.92 23	55.274 307	10.91 181	25.454 315	6.81 2	65.67 54	3.98 88
5	10.1	51.551 318	41.25 33	55.555 281	13.15 224	25.752 298	6.83 2	66.17 50	5.15 117
	20.1	51.845 294 263	41.69 44 54	55.802 247 208	15.73 258 283	26.029 277 249	6.92 9 17	66.64 47 41	6.57 142 166
	30.1	52.108 228	42.23 66	56.010 165	18.56 299	26.278 217	7.09 25	67.05 34	8.23 187
6	9.1	52.336 186	42.89 76	56.175 117	21.55 306	26.495 179	7.34 34	67.39 28	10.10 202
	19.0	52.522 141	43.65 84	56.292 67	24.61 304	26.674 137	7.68 42	67.67 20	12.12 213
	28.9	52.663 91	44.49 90	56.359 14	27.65 304	26.811 91	8.10 49	67.87 12	14.25 213
7	8.9	52.754 41	45.39 90 94	56.373 37	30.59 294 276	26.902 43	8.59 49 55	67.99 4	16.44 219 217
	18.9	52.795 12	46.33	56.336 88	33.35	26.945 5	9.14	68.03 5	18.61
	28.9	52.783 62	47.26 93	56.248 136	35.87 252	26.940 51	9.72 58	67.98 13	20.71 210
8	7.9	52.721 109	48.16 90	56.112 180	38.10 223	26.889 96	10.30 58	67.85 21	22.67 196
	17.9	52.612 150	49.00 84	55.932 218	39.98 188	26.793 134	10.86 56	67.64 27	24.42 175
	27.8	52.462 182	49.72 72 57	55.714 247	41.47 149 107	26.659 165	11.37 51 43	67.37 33	25.89 147 114
	6.8	52.280	50.29	55.467	42.54	26.494	11.80	67.04	27.03
9	16.8	52.074 206	50.70 41	55.198 269	43.15 61	26.306 188	12.12 32	66.68 36	27.80 77
	26.8	51.856 218	50.91 21	54.919 279	43.31 16	26.107 199	12.32 20	66.29 39	28.15 35
10	6.7	51.638 218	50.92 1	54.638 281	42.98 33	25.908 199	12.39 7	65.90 39	28.06 9
	16.7	51.433 205 181	50.73 19 37	54.368 270 248	42.17 81 128	25.719 189 166	12.33 6 18	65.53 37 34	27.55 51 93
	26.7	51.252	50.36	54.120 216	40.89	25.553	12.15	65.19 28	26.62
11	5.6	51.108 144	49.82 54	53.904 176	39.14 175	25.420 133	11.87 28	64.91 20	25.32 130
	15.6	51.009 99	49.16 66	53.728 128	36.96 218	25.328 92	11.51 36	64.71 13	23.70 162
	25.6	50.961 48	48.40 76	53.600 75	34.40 256	25.283 45	11.10 41	64.58 4	21.81 189
12	5.6	50.970 9 65	47.59 81 82	53.525 17	31.50 290 316	25.291 8 59	10.68 42 41	64.54 6	19.74 207 218
	15.5	51.035	46.77	53.508 —	28.34	25.350	10.27	64.60	17.56
	25.5	51.156 121	45.97 80	53.548 40	25.02 332	25.462 112	9.90 37	64.75 15	15.36 220
	35.5	51.330 174	45.23 74	53.644 96	21.64 338	25.621 159	9.57 33	64.98 23	13.21 215
平位		s 50.196	″ 49.67	s 54.146	″ 21.06	s 24.510	″ 13.74	s 63.994	″ 19.28
sec δ, tan δ		+ 1.249	− 0.748	+ 1.349	+ 0.905	+ 1.153	− 0.574	+ 2.097	− 1.843
2 回正中		6 月 25 日		6 月 25 日		6 月 26 日		6 月 27 日	
a	b	+ 0.2031	− 0.0030	+ 0.0931	+ 0.0037	+ 0.1915	− 0.0029	+ 0.2758	− 0.0097
a′	b′	+ 0.0603	+ 0.9982	+ 0.0606	+ 0.9982	+ 0.0759	+ 0.9971	+ 0.0788	+ 0.9969
FK3番號		683		684		687		686	

星名		η Serp		ε Sgtr		109 Herc		† φ Drac *m*	
等級	スペクトル型	3.42	K0	1.95	A0	3.92	K0	4.24	A0p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 18 18	° ′ − 2 54	h m 18 20	° ′ −34 24	h m 18 21	° ′ +21 44	h m 18 21	° ′ +71 18
		s	″	s	″	s	″	s	″
1	1.5	22.444	49.35	24.578	41.66	16.484	38.57	29.78	34.71
	11.5	22.594 150	50.71 136	24.765 187	41.06 60	16.616 132	35.95 262	29.88 10	31.05 366
	21.4	22.778 184	52.04 133	24.994 229	40.54 52	16.786 170	33.41 254	30.11 23	27.49 356
	31.4	22.993 215	53.30 126	25.259 265	40.09 45	16.990 204	31.04 237	30.46 35	24.18 331
2	10.4	23.231 238 257	54.42 112 94	25.552 293 316	39.71 38 32	17.224 234 256	28.93 211 176	30.92 46 55	21.22 296 249
	20.4	23.488	55.36	25.868	39.39	17.480	27.17	31.47	18.73
3	1.3	23.759 271	56.06 70	26.201 333	39.13 26	17.754 274	25.83 134	32.10 63	16.80 193
	11.3	24.039 280	56.52 46	26.545 344	38.93 20	18.041 287	24.95 88	32.78 68	15.48 132
	21.3	24.325 286	56.69 17	26.895 350	38.77 16	18.335 294	24.56 39	33.49 71	14.83 65
	31.2	24.613 288 285	56.58 11 37	27.247 352 350	38.66 11 5	18.631 296 294	24.67 11 59	34.20 71 71	14.85 2 68
4	10.2	24.898	56.21	27.597	38.61 1	18.925	25.26	34.91	15.53
	20.2	25.177 279	55.59 62	27.941 344	38.62 9	19.210 285	26.30 104	35.57 66	16.82 129
	30.2	25.446 269	54.76 83	28.272 331	38.71 18	19.484 274	27.74 144	36.18 61	18.68 186
5	10.1	25.700 254	53.77 99	28.587 315	38.89 28	19.740 256	29.52 178	36.71 53	21.02 234
	20.1	25.935 235 210	52.67 110 118	28.878 291 264	39.17 38	19.972 232 205	31.56 204 224	37.15 44 34	23.75 273 304
	30.1	26.145 182	51.49 121	29.142 229	39.55 49	20.177	33.80	37.49	26.79
6	9.1	26.327 149	50.28 118	29.371 189	40.04 59	20.350 173	36.15 235	37.73 24	30.03 324
	19.0	26.476 112	49.10 114	29.560 146	40.63 68	20.486 136	38.54 239	37.85 12	33.37 334
	29.0	26.588 72	47.96 104	29.706 97	41.31 75	20.582 96	40.91 237	37.85 0	36.72 335
7	8.9	26.660 31	46.92 94	29.803 47	42.06 81	20.636 54 11	43.19 228 214	37.73 12 23	39.99 327 311
	18.9	26.691 10	45.98 81	29.850 3	42.87 82	20.647 32	45.33 194	37.50 34	43.10 287
	28.9	26.681 52	45.17 67	29.847 53	43.69 81	20.615 75	47.27 170	37.16 44	45.97 257
8	7.9	26.629 88	44.50 52	29.794 99	44.50 76	20.540 112	48.97 142	36.72 52	48.54 221
	17.9	26.541 122	43.98 38	29.695 140	45.26 68	20.428 146	50.39 113	36.20 61	50.75 179
	27.8	26.419 148	43.60 23	29.555 173	45.94 56	20.282 174	51.52 81	35.59 66	52.54 134
	6.8	26.271	43.37 8	29.382	46.50	20.108	52.33	34.93	53.88
9	16.8	26.104 167	43.29 6	29.185 197	46.91 41	19.915 193	52.80 47	34.22 71	54.73 85
	26.8	25.926 178	43.35 21	28.975 210	47.16 25	19.711 204	52.92 12	33.48 74	55.07 34
10	6.7	25.748 178	43.56 35	28.764 211	47.23 7	19.506 205	52.68 24	32.74 74	54.88 19
	16.7	25.579 169 149	43.91 50	28.564 200 177	47.12 11 27	19.310 196 179	52.08 60 96	32.01 73 70	54.16 72 126
	26.7	25.430	44.41 66	28.387	46.85	19.131	51.12	31.31	52.90
11	5.6	25.308 122	45.07 80	28.243 144	46.43 42	18.980 151	49.81 131	30.68 63	51.12 178
	15.6	25.222 86	45.87 96	28.143 100	45.89 54	18.864 116	48.16 165	30.11 57	48.86 226
	25.6	25.175 47	46.83 109	28.091 52	45.26 63	18.788 76	46.21 195	29.64 47	46.15 271
12	5.6	25.173 2 43	47.92 121	28.094 3 58	44.59 67 68	18.758 30 15	43.99 222 243	29 28 36 25	43.06 309 339
	15.5	25.216 88	49.13 131	28.152 111	43.91 66	18.773 63	41.56 258	29.03 11	39.67
	25.5	25.304 129	50.44 136	28.263 162	43.25 62	18.836 107	38.98 263	28.92 1	36.07 360
	35.5	25.433	51.80	28.425	42.63	18.943	36.35	28.93	32.40 367
平位		s 24.636	″ 53.78	s 27.304	″ 47.01	s 18.605	″ 34.71	s 33.676	30.76
sec δ, tan δ		+ 1.001	− 0.051	+ 1.212	− 0.685	+ 1.077	+ 0.399	+ 3.120	+ 2.956
2 回正中		6 月 27 日		6 月 27 日		6 月 27 日		6 月 27 日	
a	b	+ 0.1567	− 0.0003	+ 0.1988	− 0.0041	+ 0.1269	+ 0.0025	− 0.0429	+ 0.0185
a′	b′	+ 0.0802	+ 0.9968	+ 0.0891	+ 0.9960	+ 0.0929	+ 0.9957	+ 0.0939	+ 0.9956
FK3番號		688		689		690		693	

本初子午線正中時

星名 / 等級 / スペクトル型	χ Drac 3.69 F8		α Tele 3.76 B3		† 39 Drac 4.85 A2		λ Sgtr 2.94 K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 18 21	° ′ +72 42	h m 18 22	° ′ −45 59	h m 18 23	° ′ +58 45	h m 18 24	° ′ −25 27
	s	″	s	″	s	″	s	″
1 1.5	59.86 10	36.72 366	46.081 210	59.15 130	2.670 107	67.87 363	28.329 169	11.20 6
11.5	59.96 24	33.06 355	46.291 261	57.85 120	2.777 183	64.24 353	28.498 208	11.14 2
21.4	60.20 38	29.51 332	46.552 304	56.65 107	2.960 255	60.71 328	28.706 239	11.12 1
31.4	60.58 50	26.19 295	46.856 339	55.58 93	3.215 319	57.43 293	28.945 267	11.13 1
2 10.4	61.08 59	23.24 249	47.195 367	54.65 77	3.534 372	54.50 247	29.212 287	11.14 1
20.4	61.67 68	20.75 193	47.562 388	53.88 62	3.906 414	52.03 191	29.499 303	11.15 2
3 1.3	62.35 73	18.82 131	47.950 403	53.26 46	4.320 445	50.12 130	29.802 313	11.13 6
11.3	63.08 76	17.51 65	48.353 411	52.80 29	4.765 462	48.82 64	30.115 321	11.07 10
21.3	63.84 77	16.86 2	48.764 414	52.51 12	5.227 466	48.18 4	30.436 323	10.97 15
31.2	64.61 76	16.88 67	49.178 411	52.39 5	5.693 460	48.22 68	30.759 321	10.82 18
4 10.2	65.37 71	17.55 130	49.589 403	52.44 23	6.153 439	48.90 130	31.080 316	10.64 21
20.2	66.08 65	18.85 185	49.992 389	52.67 40	6.592 408	50.20 186	31.396 307	10.43 21
30.2	66.73 57	20.70 233	50.381 367	53.07 58	7.000 366	52.06 234	31.703 291	10.22 19
5 10.1	67.30 47	23.03 273	50.748 341	53.65 76	7.366 316	54.40 273	31.994 272	10.03 16
20.1	67.77 36	25.76 302	51.089 306	54.41 93	7.682 257	57.13 302	32.266 246	9.87 10
30.1	68.13 25	28.78 322	51.395 266	55.34 109	7.939 193	60.15 323	32.512 215	9.77 2
6 9.1	68.38 12	32.00 333	51.661 219	56.43 122	8.132 123	63.38 332	32.727 179	9.75 6
19.0	68.50 1	35.33 333	51.880 167	57.65 132	8.255 51	66.70 334	32.906 168	9.81 14
29.0	68.49 13	38.66 326	52.047 109	58.97 140	8.306 23	70.04 325	33.045 139	9.95 23
7 8.9	68.36 26	41.92 309	52.156 51	60.37 143	8.283 95	73.29 310	33.140 95 50	10.18 29
18.9	68.10	45.01 285	52.207 9	61.80 141	8.188 166	76.39 285	33.190 2	10.47 36
28.9	67.73 37	47.86 255	52.198 67	63.21 135	8.022 231	79.24 255	33.192 44	10.83 39
8 7.9	67.25 48	50.41 218	52.131 122	64.56 123	7.791 291	81.79 219	33.148 86	11.22 39
17.9	66.67 58	52.59 177	52.009 170	65.79 106	7.500 341	83.98 178	33.062 124	11.61 39
27.8	66.01 66 72	54.36 132	51.839 209	66.85 86	7.159 383	85.76 133	32.938 155	12.00 35
9 6.8	65.29 77	55.68 83	51.630 238	67.71 61	6.776 413	87.09 84	32.783 177	12.35 29
16.8	64.52 79	56.51 33	51.392 253	68.32 33	6.363 430	87.93 33	32.606 191	12.64 22
26.8	63.73 80	56.83 21	51.139 256	68.65 4	5.933 434	88.26 20	32.415 192	12.86 13
10 6.7	62.93 79	56.62 74	50.883 244	68.69 26	5.499 424	88.06 72	32.223 182	12.99 4
16.7	62.14 75	55.88 127	50.639 218	68.43 53	5.075 400	87.34 126	32.041 162	13.03 3
26.7	61.39 69	54.61 179	50.421 179	67.90 79	4.675 361	86.08 176	31.879 132	13.00 10
11 5.6	60.70 61	52.82 228	50.242 130	67.11 101	4.314 312	84.32 226	31.747 93	12.90 15
15.6	60.09 51	50.54 272	50.112 72	66.10 118	4.002 251	82.06 269	31.654 48	12.75 16
25.6	59.58 40	47.82 310	50.040 9	64.92 130	3.751 181	79.37 307	31.606 0	12.59 17
12 5.6	59.18 26	44.72 339	50.031 55	63.62 136	3.570 104	76.30 337	31.606 51	12.42 15
15.5	58.92 13	41.33 359	50.086 119	62.26 136	3.466 25	72.93 356	31.657 100	12.27 11
25.5	58.79 1	37.74 369	50.205 179	60.90 134	3.441 57	69.37 365	31.757 146	12.16 8
35.5	58.80	34.05	50.384	59.56	3.498	65.72	31.903	12.08
平位	s 63.982	″ 32.84	s 49.258	″ 64.69	s 5.457	″ 64.00	s 30.837	″ 15.99
sec δ, tan δ	+ 3.364	+ 3.212	+ 1.440	− 1.036	+ 1.929	+ 1.649	+ 1.108	− 0.476
2 回正中	6 月 28 日		6 月 28 日		6 月 28 日		6 月 28 日	
a b	− 0.0598	+ 0.0206	+ 0.2220	− 0.0069	+ 0.0439	+ 0.0111	+ 0.1849	− 0.0034
a′ b′	+ 0.0961	+ 0.9954	+ 0.0994	+ 0.9950	+ 0.1006	+ 0.9949	+ 0.1068	+ 0.9943
FK3番號	695		691		694		692	

本初子午線正中時

星名 / 等級 / スペクトル型	γ Scut 4.73 A3		ϑ CorA 4.69 G5		Grb 2655 Drac 5.84 K0		α Lyra 0.14 A0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 18 25	° ′ −14 36	h m 18 29	° ′ −42 21	h m 18 32	° ′ +77 30	h m 18 35	° ′ +38 43
	s	″	s	″	s	″	s	″
1 1.5	57.962 155	7.24 61	27.210 192	12.80 111	22.58 5	22.24 360	0.245 106	53.55 321
11.5	58.117 190	7.85 62	27.402 240	11.69 104	22.63 23	18.64 353	0.351 155	50.34 314
21.4	58.307 221	8.47 59	27.642 281	10.65 94	22.86 43	15.11 334	0.506 200	47.20 294
31.4	58.528 247	9.06 52	27.923 316	9.71 83	23.29 60	11.77 300	0.706 238	44.26 263
2 10.4	58.775 265	9.58 44	28.239 342	8.88 71	23.89 75	8.77 258	0.944 271	41.63 223
20.4	59.040 281	10.02 30	28.581 363	8.17 59	24.64 86	6.19 204	1.215 297	39.40 173
3 1.3	59.321 292	10.32 16	28.944 377	7.58 47	25.50 96	4.15 145	1.512 317	37.67 119
11.3	59.613 298	10.48 0	29.321 386	7.11 33	26.46 102	2.70 80	1.829 329	36.48 60
21.3	59.911 300	10.48 15	29.707 391	6.78 21	27.48 103	1.90 15	2.158 335	35.88 1
31.3	60.211 300	10.33 31	30.098 389	6.57 7	28.51 101	1.75 52	2.493 333	35.89 59
4 10.2	60.511 295	10.02 44	30.487 384	6.50 8	29.52 97	2.27 113	2.826 325	36.48 116
20.2	60.806 286	9.58 54	30.871 371	6.58 22	30.49 88	3.40 170	3.151 310	37.64 166
30.2	61.092 272	9.04 61	31.242 354	6.80 39	31.37 78	5.10 219	3.461 288	39.30 209
5 10.1	61.364 253	8.43 65	31.596 329	7.19 54	32.15 65	7.29 261	3.749 260	41.39 246
20.1	61.617 230	7.78 66	31.925 297	7.73 70	32.80 50	9.90 293	4.009 225	43.85 272
30.1	61.847 201	7.12 63	32.222 261	8.43 85	33.30 33	12.83 315	4.234 186	46.57 291
6 9.1	62.048 167	6.49 58	32.483 217	9.28 99	33.63 17	15.98 328	4.420 141	49.48 300
19.0	62.215 130	5.91 51	32.700 168	10.27 110	33.80 1	19.26 333	4.561 95	52.48 301
29.0	62.345 89	5.40 42	32.868 115	11.37 118	33.79 18	22.59 333	4.656 44	55.49 294
7 8.9	62.434 46	4.98 32	32.983 60	12.55 124	33.61 35	25.86 327 313	4.700 6	58.43 279
18.9	62.480 2	4.66 24	33.043 2	13.79 124	33.26 52	28.99 293	4.694 57	61.22 258
28.9	62.482 41	4.42 14	33.045 53	15.03 120	32.74 66	31.92 265	4.637 104	63.80 232
8 7.9	62.441 80	4.28 7	32.992 106	16.23 112	32.08 79	34.57 231	4.533 150	66.12 199
17.9	62.361 116	4.21 0	32.886 152	17.35 99	31.29 90	36.88 193	4.383 188	68.11 163
27.8	62.245 145	4.21 6	32.734 191	18.34 82	30.39 100	38.81 149	4.195 220	69.74 124
9 6.8	62.100 166	4.27 10	32.543 218	19.16 60	29.39 107	40.30 102	3.975 245	70.98 80
16.8	61.934 178	4.37 13	32.325 236	19.76 37	28.32 111	41.32 52	3.730 258	71.78 37
26.8	61.756 180	4.50 16	32.089 239	20.13 11	27.21 113	41.84 1	3.472 263	72.15 10
10 6.7	61.576 171	4.66 19	31.850 228	20.24 14	26.08 112	41.85 52	3.209 255	72.05 57
16.7	61.405 153	4.85 22	31.622 206	20.10 40	24.96 108	41.33 106	2.954 239	71.48 103
26.7	61.252 124	5.07 25	31.416 171	19.70 63	23.88 101	40.27 157	2.715 211	70.45 149
11 5.7	61.128 89	5.32 31	31.245 124	19.07 83	22.87 91	38.70 207	2.504 176	68.96 192
15.6	61.039 47	5.63 37	31.121 72	18.24 98	21.96 78	36.63 253	2.328 132	67.04 232
25.6	60.992 2	6.00 42	31.049 13	17.26 109	21.18 64	34.10 293	2.196 84	64.72 266
12 5.6	60.990 45	6.42 50	31.036 47	16.17 115	20.54 46	31.17 325	2.112 31	62.06 293
15.5	61.035 90	6.92 56	31.083 107	15.02 117	20.08 28	27.92 349	2.081 23	59.13 313
25.5	61.125 133	7.48 60	31.190 164	13.85 114	19.80 9	24.43 360	2.104 76	56.00 322
35.5	61.258	8.08	31.354	12.71	19.71	20.83	2.180	52.78
平位	s 60.285	″ 11.68	s 30.232	″ 17.65	s 27.848	″ 17.53	s 2.473	″ 49.53
sec δ, tan δ	+ 1.033	− 0.261	+ 1.353	− 0.912	+ 4.622	+ 4.513	+ 1.282	+ 0.802
2 回正中	6 月 29 日		6 月 29 日		6 月 30 日		7 月 1 日	
a b	+ 0.1706	− 0.0020	+ 0.2136	− 0.0078	− 0.1445	+ 0.0425	+ 0.1005	+ 0.0081
a′ b′	+ 0.1132	+ 0.9936	+ 0.1284	+ 0.9917	+ 0.1412	+ 0.9900	+ 0.1523	+ 0.9883
FK3番號	696		697		700		699	

本初子午線正中時

星名 / 等級 / スペクトル型	Grb 2640 Drac 6.00 A3		ζ Pavo 4.10 K0		ε Scut 5.09 G5		110 Herc 4.26 F5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 35	° ′ +65 26	h m 18 36	° ′ −71 28	h m 18 40	° ′ − 8 19	h m 18 43	° ′ +20 29
	s	″	s	″	s	″	s	″
1 1.5	59.51	23.02	23.92	41.76	25.963	52.19	12.901	33.02
11.5	59.58 7	19.36 366	24.25 33	39.12 264	26.097 134	53.14 95	13.010 109	30.50 252
21.5	59.75 17	15.78 358	24.69 44	36.61 251	26.268 171	54.07 93	13.158 148	28.04 246
31.4	60.01 26	12.40 338	25.25 56	34.30 231	26.469 201	54.94 87	13.342 184	25.71 233
2 10.4	60.36 35	9.35 305	25.89 64	32.25 205	26.696 227	55.71 77	13.555 213	23.63 208
	42	261	72	175	249	63	240	177
20.4	60.78	6.74	26.61	30.50	26.945	56.34	13.795	21.86
3 1.3	61.26 48	4.66 208	27.39 78	29.08 142	27.210 265	56.79 45	14.055 260	20.48 138
11.3	61.79 53	3.19 147	28.21 82	28.02 106	27.488 278	57.03 24	14.331 276	19.54 94
21.3	62.34 55	2.38 81	29.05 84	27.34 68	27.775 287	57.05 2	14.617 286	19.08 46
31.3	62.91 57	2.23 15	29.91 86	27.04 30	28.067 292	56.85 20	14.910 293	19.10 2
	56	52	85	9	293	42	295	51
4 10.2	63.47	2.75	30.76	27.13	28.360	56.43	15.205	19.61
20.2	64.01 54	3.90 115	31.60 84	27.61 48	28.651 291	55.81 62	15.495 290	20.55 94
30.2	64.51 50	5.63 173	32.41 81	28.47 86	28.935 284	55.04 77	15.777 282	21.90 135
5 10.2	64.96 45	7.86 223	33.16 75	29.68 121	29.207 272	54.15 89	16.045 268	23.60 170
20.1	65.35 39	10.51 265	33.86 70	31.23 155	29.462 255	53.17 98	16.292 247	25.58 198
	32	299	62	186	233	102	223	218
30.1	65.67	13.50	34.48	33.09	29.695	52.15	16.515	27.76
6 9.1	65.91 24	16.71 321	35.01 53	35.21 212	29.901 206	51.13 102	16.706 191	30.08 232
19.0	66.06 15	20.07 336	35.43 42	37.55 234	30.075 174	50.15 98	16.863 157	32.45 237
29.0	66.12 6	23.46 339	35.74 31	40.04 249	30.212 137	49.23 92	16.981 118	34.82 237
7 8.9	66.08 4	26.80 334	35.94 20	42.63 259	30.310 98	48.41 82	17.058 77	37.12 230
	12	321	6	260	55	71	32	217
18.9	65.96	30.01	36.00	45.23	30.365	47.70	17.090	39.29
28.9	65.75 21	33.00 299	35.94 6	47.78 255	30.378 13	47.10 60	17.078 12	41.28 199
8 7.9	65.46 29	35.72 272	35.76 18	50.18 240	30.347 31	46.64 46	17.024 54	43.05 177
17.9	65.10 36	38.09 237	35.46 30	52.37 219	30.276 71	46.29 35	16.928 96	44.56 151
27.9	64.67 43	40.06 197	35.06 40	54.25 188	30.170 106	46.07 22	16.797 131	45.79 123
	49	154	49	152	137	11	161	92
6.8	64.18	41.60	34.57	55.77	30.033	45.96	16.636	46.71
9 16.8	63.66 52	42.66 106	34.02 55	56.86 109	29.874 159	45.95 1	16.452 184	47.31 60
26.8	63.11 55	43.20 54	33.43 59	57.48 62	29.701 173	46.04 9	16.255 197	47.56 25
10 6.7	62.55 56	43.23 3	32.82 61	57.59 11	29.524 177	46.22 18	16.052 203	47.47 9
16.7	62.00 55	42.71 52	32.23 59	57.19 40	29.353 171	46.49 27	15.854 198	47.03 44
	52	106	55	90	156	37	183	79
26.7	61.48	41.65	31.68	56.29	29.197	46.86	15.671	46.24
11 5.7	60.99 49	40.06 159	31.20 48	54.92 137	29.067 130	47.31 45	15.512 159	45.10 114
15.6	60.56 43	37.96 210	30.81 39	53.14 178	28.970 97	47.86 55	15.384 128	43.63 147
25.6	60.19 37	35.41 255	30.53 28	51.00 214	28.910 60	48.51 65	15.294 90	41.85 178
12 5.6	59.91 28	32.44 297	30.39 14	48.59 241	28.894 16	49.26 75	15.245 49	39.80 205
	19	330	2	259	28	83	3	227
15.6	59.72	29.14	30.37	46.00	28.922	50.09	15.242	37.53
25.5	59.63 9	25.61 353	30.50 13	43.32 268	28.994 72	50.99 90	15.283 41	35.09 244
35.5	59.64 1	21.97 364	30.75 25	40.65 267	29.107 113	51.93 94	15.368 85	32.58 251
平位	s 62.693	″ 18.36	s 30.253	″ 46.60	s 28.214	″ 55.92	s 15.009	″ 29.04
sec δ, tan δ	+ 2.406	+ 2.188	+ 3.148	− 2.985	+ 1.011	− 0.146	+ 1.068	+ 0.374
2 回正中	7月 1 日		7月 1 日		7月 2 日		7月 3 日	
a b	+ 0.0093	+ 0.0228	+ 0.3498	− 0.0316	+ 0.1629	− 0.0017	+ 0.1289	+ 0.0047
a′ b′	+ 0.1566	+ 0.9877	+ 0.1586	+ 0.9873	+ 0.1757	+ 0.9845	+ 0.1876	+ 0.9823
FK3番號	701		698		702		703	

本初子午線正中時

星名 / 等級 / スペクトル型	λ Pavo 4.42 B2		β Lyra 3.4–4.3 B8p, B2p		ο Drac 4.78 K0		σ Sgtr 2.14 B3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 46	° ′ −62 14	h m 18 47	° ′ +33 17	h m 18 50	° ′ +59 18	h m 18 51	° ′ −26 21
	s	″	s	″	s	″	s	″
1 1.5	57.47	72.45	58.490	51.84	19.738	75.11	45.056	62.15
11.5	57.70 23	70.18 227	58.583 93	48.82 302	19.792 54	71.51 360	45.197 141	61.93 22
21.5	58.01 31	67.99 219	58.722 139	45.86 296	19.925 133	67.95 356	45.378 181	61.72 21
31.4	58.39 38	65.95 204	58.902 180	43.05 281	20.134 209	64.57 338	45.594 216	61.51 21
2 10.4	58.83 44	64.10 185	59.118 216	40.51 254	20.412 278	61.47 310	45.839 245	61.30 21
	49	162	248	217	339	268	269	23
20.4	59.32	62.48	59.366	38.34	20.751	58.79	46.108	61.07
3 1.3	59.86 54	61.13 135	59.640 274	36.62 172	21.141 390	56.62 217	46.398 290	60.81 26
11.3	60.42 56	60.05 108	59.934 294	35.41 121	21.569 428	55.03 159	46.702 304	60.51 30
21.3	61.01 59	59.28 77	60.242 308	34.76 65	22.025 456	54.08 95	47.018 316	60.17 34
31.3	61.60 59	58.82 46	60.558 316	34.67 9	22.495 470	53.80 28	47.341 323	59.79 38
	60	15	318	48	472	37	326	40
4 10.2	62.20	58.67	60.876	35.15	22.967	54.17	47.667	59.39
20.2	62.79 59	58.85 18	61.189 313	36.17 102	23.427 460	55.17 100	47.993 326	58.98 41
30.2	63.37 58	59.35 50	61.492 303	37.67 150	23.863 436	56.77 160	48.312 319	58.57 41
5 10.2	63.91 54	60.17 82	61.778 286	39.60 193	24.265 402	58 88 211	48.621 309	58.21 36
20.1	64.42 51	61.29 112	62.040 262	41.88 228	24.621 356	61.43 255	48.913 292	57.90 31
	47	141	233	255	302	290	270	23
30.1	64.89	62.70	62.273	44.43	24.923	64.33	49.183	57.67
6 9.1	65.29 40	64.36 166	62.471 198	47.17 274	25.162 239	67.49 316	49.424 241	57.54 13
19.0	65.63 34	66.24 188	62.629 158	50.01 284	25.333 171	70.80 331	49.630 206	57.52 2
29.0	65.89 26	68.28 204	62.743 114	52.88 287	25.431 98	74.19 339	49.798 168	57.61 9
7 8.9	66.06 17	70.45 217	62.811 68	55.69 281	25.454 23	77.55 336	49.922 124	57.82 21
	9	221	19	268	52	324	77	30
18.9	66.15 1	72.66	62.830	58.37	25.402	80.79	49.999	58.12
28.9	66.16 1	74.87 221	62.801 29	60.87 250	25.275 127	83.86 307	50.027 28	58.52 40
8 7.9	66.07 9	76.99 212	62.725 76	63.12 225	25.079 196	86.66 280	50.008 19	58.97 45
17.9	65.90 17	78.95 196	62.605 120	65.08 196	24.817 262	89.15 249	49.943 65	59.47 50
27.9	65.66 24	80.69 174	62.446 159	66.71 163	24.499 318	91.26 211	49.837 106	59.97 50
	30	144	191	126	367	168	141	47
6.8	65.36	82.13	62.255	67.97	24.132	92.94	49.696	60.44
9 16.8	65.00 36	83.22 109	62.038 217	68.84 87	23.728 404	94.16 122	49.528 168	60.87 43
26.8	64.61 39	83.91 69	61.806 232	69.30 46	23.300 428	94.89 73	49.342 186	61.23 36
10 6.7	64.21 40	84.17 26	61.567 239	69.32 2	22.860 440	95.09 20	49.149 193	61.50 27
16.7	63.82 39	83.99 18	61.332 235	68.91 41	22.423 437	94.77 32	48.961 188	61.66 16
	36	63	221	86	421	87	172	7
26.7	63.46	83.36	61.111	68.05	22.002	93.90	48.789	61.73
11 5.7	63.14 32	82.32 104	60.914 197	66.76 129	21.612 390	92.50 140	48.642 147	61.71 2
15.6	62.88 26	80.91 141	60.749 165	65.06 170	21.265 347	90.58 192	48.529 113	61.60 11
25.6	62.70 18	79.17 174	60.623 126	62.98 208	20.973 292	88.19 239	48.458 71	61.44 16
12 5.6	62.61 9	77.18 199	60.543 80	60.56 242	20.745 228	85.38 281	48.434 24	61.24 20
	0	217	34	270	154	316	23	23
15.6	62.61	75.01	60.509	57.86	20.591	82.22	48.457	61.01
25.5	62.70 9	72.75 226	60.526 17	54.96 290	20.515 76	78.79 343	48.529 72	60.79 22
35.5	62.88 18	70.46 229	60.591 65	51.95 301	20.519 4	75.22 357	48.645 116	60.57 22
平位	s 62.020	″ 75.97	s 60.648	″ 47.51	s 22.482	″ 69.89	s 47.602	″ 65.14
sec δ, tan δ	+ 2.148	− 1.901	+ 1.196	+ 0.657	+ 1.960	+ 1.685	+ 1.116	− 0.496
2 回正中	7月 4 日		7月 4 日		7月 5 日		7月 5 日	
a b	+ 0.2774	− 0.0258	+ 0.1105	+ 0.0091	+ 0.0437	+ 0.0245	+ 0.1855	− 0.0074
a′ b′	+ 0.2038	+ 0.9790	+ 0.2080	+ 0.9781	+ 0.2180	+ 0.9759	+ 0.2241	+ 0.9746
FK3番號	704		705		707		706	

恒 星 視 位

本初子午線正中時

昭和19年

星名	ϑ Serp *pr*		R Lyra		λ Tele		ξ² Sgtr	
等級	4.50		4.0–4.5		5.03		3.61	
スペクトル型	A 5		M 3		B 9		K 0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 53	° ′ +4 7	h m 18 53	° ′ +43 52	h m 18 53	° ′ −53 0	h m 18 54	° ′ −21 10
	s	″	s	″	s	″	s	″
1 1.5	23.939 111	48.97 164	35.506 75	21.85 332	55.553 183	47.88 182	20.903 133	52.45 10
11.5	24.050 148	47.33 161	35.581 129	18.53 245	55.736 245	46.06 177	21.036 171	52.55 10
21.5	24.198 180	45.72 151	35.710 178	15.24 329	55.981 300	44.29 167	21.207 205	52.65 8
31.4	24.378 208	44.21 135	35.888 225	12.12 312	56.281 345	42.62 154	21.412 233	52.73 5
2 10.4	24.586 231	42.86 113	36.113 264	9.28 284	56.626 385	41.08 137	21.645 257	52.78 2
20.4	24.817 250	41.73 85	36.377 297	6.82 197	57.011 416	39.71 119	21.902 276	52.76 8
3 1.4	25.067 265	40.88 54	36.674 324	4.85 143	57.427 440	38.52 99	22.178 291	52.68 18
11.3	25.332 276	40.34 20	36.998 341	3.42 83	57.867 458	37.53 77	22.469 302	52.50 27
21.3	25.608 284	40.14 14	37.339 353	2.59 21	58.325 468	36.76 54	22.771 310	52.23 36
31.3	25.892 286	40.28 49	37.692 356	2.38 41	58.793 472	36.22 30	23.081 314	51.87 44
4 10.2	26.178 286	40.77 79	38.048 350	2.79 100	59.265 470	35.92 5	23.395 313	51.43 51
20.2	26.464 281	41.56 107	38.398 337	3.79 154	59.735 460	35.87 20	23.708 309	50.92 54
30.2	26.745 270	42.63 130	38.735 317	5.33 202	60.195 442	36.07 46	24.017 298	50.38 55
5 10.2	27.015 254	43.93 148	39.052 288	7.35 242	60.637 415	36.53 71	24.315 283	49.83 54
20.1	27.269 233	45.41 160	39.340 253	9.77 275	61.052 380	37.24 96	24.598 261	49.29 48
30.1	27.502 206	47.01 166	39.593 212	12.52 297	61.432 338	38.20 119	24.859 234	48.81 42
6 9.1	27.708 175	48.67 167	39.805 164	15.49 311	61.770 287	39.39 138	25.093 201	48.39 33
19.1	27.883 139	50.34 163	39.969 115	18.60 316	62.057 228	40.77 158	25.294 163	48.06 22
29.0	28.022 99	51.97 155	40.084 60	21.76 313	62.285 165	42.35 169	25.457 121	47.84 11
7 8.9	28.121 58	53.52 143	40.144 5	24.89 301	62.450 96	44.04 177	25.578 77	47.73 0
18.9	28.179	54.95 128	40.149 −50	27.90 283	62.546	45.81 180	25.655 −30	47.73 −10
28.9	28.194 15	56.23 111	40.099 102	30.73 258	62.573 27	47.61 176	25.685 16	47.83 18
8 7.9	28.167 27	57.34 92	39.997 153	33.31 228	62.530 43	49.37 167	25.669 61	48.01 25
17.9	28.099 68	58.26 72	39.844 196	35.59 191	62.421 109	51.04 150	25.608 100	48.26 30
27.9	27.995 104	58.98 51	39.648 233	37.50 153	62.252 169	52.54 128	25.508 134	48.56 31
6.8	27.861 158	59.49 31	39.415 262	39.03 109	62.031 261	53.82 101	25.374 161	48.87 32
9 16.8	27.703 174	59.80 −9	39.153 282	40.12 63	61.770 288	54.83 69	25.213 178	49.19 29
26.8	27.529 179	59.89 12	38.871 289	40.75 16	61.482 299	55.52 33	25.035 184	49.48 26
10 6.8	27.350 176	59.77 33	38.582 287	40.91 −34	61.183 295	55.85 2	24.851 181	49.74 21
16.7	27.174 162	59.44 53	38.295 273	40.57 83	60.888 275	55.83 39	24.670 167	49.95 16
26.7	27.012 141	58.91 75	38.022 249	39.74 132	60.613 239	55.44 74	24.503 142	50.11 13
11 5.7	26.871 111	58.16 95	37.773 216	38.42 179	60.374 191	54.70 106	24.361 109	50.24 9
15.6	26.760 75	57.21 114	37.557 173	36.63 222	60.183 132	53.64 132	24.252 70	50.33 8
25.6	26.685 35	56.07 132	37.384 124	34.41 261	60.051 64	52.32 155	24.182 25	50.41 6
12 5.6	26.650 7	54.75 146	37.260 71	31.80 293	59.987 −6	50.77 170	24.157 −20	50.47 8
15.6	26.657	53.29 158	37.189 −16	28.87 317	59.993	49.07 179	24.177 66	50.55 9
25.5	26.706 49	51.71 163	37.173 41	25.70 330	60.070 77	47.28 182	24.243 110	50.64 10
35.5	26.797 91	50.08	37.214	22.40	60.217 147	45.46	24.353	50.74
平位	s 26.082	″ 45.46	s 37.781	″ 17.02	s 59.207	″ 50.60	s 23.343	″ 55.35
sec δ, tan δ	+ 1.003	+ 0.072	+ 1.387	+ 0.961	+ 1.662	− 1.328	+ 1.072	− 0.388
2 回正中	7月 6日		7月 6日		7月 6日		7月 6日	
a b	+ 0.1486	+ 0.0011	+ 0.0910	+ 0.0149	+ 0.2394	− 0.0207	+ 0.1784	− 0.0061
a′ b′	+ 0.2311	+ 0.9729	+ 0.2319	+ 0.9728	+ 0.2334	+ 0.9724	+ 0.2351	+ 0.9720
FK3番號	709		711		708		710	

恒 星 視 位

1944

本初子午線正中時

星名	υ Drac		γ Lyra		ε Aqil		† ζ Sgtr *m*	
等級	4.91		3.30		4.21		2.71	
スペクトル型	K 0		A 0 p		K 0		A 2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 55	° ′ +71 13	h m 18 56	° ′ +32 36	h m 18 57	° ′ +14 59	h m 18 59	° ′ −29 57
	s	″	s	″	s	″	s	″
1 1.5	1.61 0	27.89 361	48.692 83	46.14 297	2.677 100	30.86 221	0.347 137	41.12 47
11.5	1.61 13	24.28 360	48.775 129	43.17 294	2.777 137	28.65 218	0.484 179	40.65 47
21.5	1.74 25	20.68 345	48.904 170	40.23 279	2.914 171	26.47 205	0.663 215	40.18 45
31.4	1.99 37	17.23 317	49.074 207	37.44 253	3.085 202	24.42 185	0.878 246	39.73 45
2 10.4	2.36 48	14.06 278	49.281 239	34.91 218	3.287 226	22.57 158	1.124 273	39.28 44
20.4	2.84 56	11.28 228	49.520 266	32.73 175	3.513 248	20.99 123	1.397 294	38.84 46
3 1.4	3.40 64	9.00 172	49.786 288	30.98 125	3.761 265	19.76 83	1.691 311	38.38 46
11.3	4.04 68	7.28 107	50.074 302	29.73 69	4.026 278	18.93 41	2.002 323	37.92 46
21.3	4.72 70	6.21 41	50.376 313	29.04 14	4.304 286	18.52 3	2.325 332	37.46 47
31.3	5.42 71	5.80 25	50.689 317	28.90 42	4.590 290	18.55 47	2.657 337	36.99 45
4 10.2	6.13 69	6.05 89	51.006 314	29.32 95	4.880 288	19.02 88	2.994 337	36.54 43
20.2	6.82 65	6.94 149	51.320 305	30.27 145	5.168 284	19.90 124	3.331 333	36.11 39
30.2	7.47 59	8.43 203	51.625 290	31.72 188	5.452 271	21.14 156	3.664 322	35.72 31
5 10.2	8.06 52	10.46 248	51.915 267	33.60 223	5.723 255	22.70 181	3.986 306	35.41 22
20.1	8.58 42	12.94 285	52.182 240	35.83 252	5.978 232	24.51 200	4.292 283	35.19 11
30.1	9.00 32	15.79 313	52.422 206	38.35 271	6.210 205	26.51 213	4.575 255	35.08 −1
6 9.1	9.32 21	18.92 331	52.628 167	41.06 282	6.415 172	28.64 217	4.830 220	35.09 14
19.1	9.53 10	22.23 340	52.795 125	43.88 285	6.587 134	30.81 217	5.050 180	35.23 27
29.0	9.63 −2	25.63 340	52.920 77	46.73 282	6.721 94	32.98 217	5.230 134	35.50 40
7 8.9	9.61 14	29.03 330	52.997 30	49.55 269	6.815 51	35.08 198	5.364 87	35.90 50
18.9	9.47 25	32.33	53.027 −18	52.24	6.866	37.06	5.451	36.40
28.9	9.22 36	35.47 314	53.009 66	54.77 253	6.874 8	38.88 182	5.488 −37	36.99 59
8 7.9	8.86 46	38.37 290	52.943 111	57.05 228	6.838 −36	40.49 161	5.475 13	37.63 64
17.9	8.40 54	40.97 260	52.832 150	59.06 201	6.762 76	41.88 139	5.414 61	38.31 68
27.9	7.86 62	43.19 222	52.682 184	60.74 168	6.649 113	43.01 113	5.310 104	38.97 66
6.8	7.24 67	45.01 135	52.498 210	62.06 132	6.504 145	43.86 85	5.168 142	39.60 63
9 16.8	6.57 72	46.36 87	52.288 228	63.00 94	6.335 169	44.43 57	4.997 171	40.15 55
26.8	5.85 73	47.23 34	52.060 235	63.53 53	6.151 184	44.71 −28	4.806 191	40.59 44
10 6.8	5.12 74	47.57 19	51.825 233	63.64 11	5.959 192	44.68 3	4.608 198	40.91 32
16.7	4.38 71	47.38 74	51.592 220	63.31 33	5.771 188	44.34 34	4.412 196	41.10 19
26.7	3.67 68	46.64 128	51.372 198	62.55 76	5.595 176	43.69 65	4.231 181	41.14 4
11 5.7	2.99 61	45.36 181	51.174 168	61.35 120	5.440 155	42.75 94	4.075 156	41.05 −9
15.6	2.38 54	43.55 230	51.006 130	59.74 161	5.314 126	41.51 124	3.953 122	40.84 21
25.6	1.84 44	41.25 274	50.876 87	57.75 199	5.223 91	39.99 152	3.873 80	40.54 30
12 5.6	1.40 34	38.51 312	50.789 40	55.41 234 262	5.173 50 9	38.23 176 196	3.840 33 16	40.16 38 43
15.6	1.06 21	35.39 340	50.749 −7	52.79 284	5.164 −35	36.27 212	3.856 65	39.73 46
25.5	0.85 8	31.99 357	50.756 57	49.95 295	5.199 76	34.15 220	3.921 113	39.27 46
35.5	0.77	28.42	50.813	47.00	5.275	31.95	4.034	38.81
平位	s 5.341	″ 22.04	s 50.832	″ 41.65	s 4.776	″ 27.05	s 2.982	″ 43.55
sec δ, tan δ	+ 3.107	+ 2.941	+ 1.187	+ 0.640	+ 1.035	+ 0.268	+ 1.154	− 0.576
2 回正中	7月 6日		7月 6日		7月 6日		7月 7日	
a b	− 0.0371	+ 0.0467	+ 0.1120	+ 0.0105	+ 0.1360	+ 0.0044	+ 0.1905	− 0.0098
a′ b′	+ 0.2381	+ 0.9713	+ 0.2455	+ 0.9694	+ 0.2465	+ 0.9692	+ 0.2538	+ 0.9670
FK3番號	714		713		712		715	

星名 / 等級 / スペクトル型	ζ Aqil 3.02 A0		λ Aqil 3.55 B9		ι Lyra 5.13 B5		α CorA 4.12 A2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 19 2	° ′ +13 46	h m 19 3	° ′ −4 57	h m 19 5	° ′ +36 0	h m 19 5	° ′ −37 59
	s	″	s	″	s	″	s	″
1 1.5	48.006	47.51	14.370	62.17	15.944	45.60	36.979	35.25
11.5	48.100 94	45.38 213	14.479 109	63.25 108	16.014 70	42.54 306	37.118 139	34.26 99
21.5	48.233 133	43.28 210	14.625 146	64.31 106	16.131 117	39.49 305	37.304 186	33.29 97
31.4	48.399 166	41.29 199	14.802 177	65.29 98	16.292 161	36.58 291	37.530 226	32.33 96
2 10.4	48.595 196	39.49 180	15.008 206	66.16 87	16.493 201	33.93 265	37.792 262	31.43 90
	222	153	229	70	236	232	292	87
20.4	48.817	37.96	15.237	66.86	16.729	31.61	38.084	30.56
3 1.4	49.061 244	36.77 119	15.485 248	67.36 50	16.995 266	29.74 187	38.401 317	29.76 80
11.3	49.323 262	35.96 81	15.750 265	67.63 27	17.286 291	28.37 137	38.737 336	29.01 75
21.3	49.598 275	35.56 40	16.027 277	67.63 0	17.594 308	27.56 81	39.088 351	28.34 67
31.3	49.882 284	35.59 3	16.312 285	67.39 24	17.914 320	27.33 23	39.450 362	27.75 59
	289	46	291	50	326	34	368	51
4 10.3	50.171	36.05	16.603	66.89	18.240	27.67	39.818	27.24
20.2	50.460 289	36.90 85	16.894 291	66.16 73	18.565 325	28.58 91	40.187 369	26.85 39
30.2	50.745 285	38.12 122	17.183 289	65.24 92	18.882 317	29.99 141	40.552 365	26.59 26
5 10.2	51.019 274	39.65 153	17.462 279	64.17 107	19.183 301	31.87 188	40.907 355	26.46 13
20.1	51.277 258	41.43 178	17.727 265	62.98 119	19.463 280	34.12 225	41.244 337	26.49 3
	237	195	245	124	251	256	313	21
30.1	51.514	43.38	17.972	61.74	19.714	36.68	41.557	26.70
6 9.1	51.723 209	45.46 208	18.193 221	60.47 127	19.930 216	39.47 279	41.840 283	27.07 37
19.1	51.900 177	47.60 214	18.383 190	59.24 123	20.106 176	42.38 291	42.085 245	27.61 54
29.0	52.041 141	49.72 212	18.538 155	58.06 118	20.238 132	45.35 297	42.286 201	28.31 70
7 9.0	52.142 101	51.78 206	18.653 115	56.98 108	20.321 83	48.30 295	42.439 153	29.15 84
	58	194	74	95	34	284	100	95
18.9	52.200 14	53.72	18.727 30	56.03 83	20.355 17	51.14 268	42.539 45	30.10 104
28.9	52.214 29	55.50 178	18.757 13	55.20 67	20.338 66	53.82 244	42.584 9	31.14 107
8 7.9	52.185 71	57.09 159	18.744 55	54.53 52	20.272 112	56.26 217	42.575 62	32.21 107
17.9	52.114 107	58.45 136	18.689 92	54.01 38	20.160 154	58.43 184	42.513 111	33.28 102
27.9	52.007 140	59.56 111	18.597 125	53.63 23	20.006 190	60.27 148	42.402 152	34.30 92
		85						
9 6.8	51.867	60.41	18.472	53.40	19.816	61.75	42.250	35.22
16.8	51.703 164	60.98 57	18.321 151	53.32 8	19.598 218	62.83 108	42.064 186	36.00 78
26.8	51.522 181	61.26 28	18.154 167	53.36 4	19.360 238	63.49 66	41.856 208	36.61 61
10 6.8	51.333 189	61.25 1	17.979 175	53.54 18	19.113 247	63.70 21	41.637 219	37.02 41
16.7	51.147 186	60.94 31	17.807 172	53.83 29	18.867 246	63.47 23	41.419 218	37.21 19
	176	60	161	41	236	68	204	4
26.7	50.971	60.34	17.646	54.24	18.631	62.79	41.215	37.17
11 5.7	50.816 155	59.44 90	17.506 140	54.78 54	18.417 214	61.64 115	41.038 177	36.92 25
15.7	50.690 126	58.26 118	17.395 111	55.43 65	18.232 185	60.06 158	40.896 142	36.46 46
25.6	50.597 93	56.81 145	17.320 75	56.20 77	18.084 148	58.08 198	40.799 97	35.83 63
12 5.6	50.544 53	55.13 168	17.283 37	57.07 87	17.979 105	55.72 236	40.752 47	35.06 77
	12	189	6	97	58	266	7	87
15.6	50.532 30	53.24	17.289	58.04	17.921 9	53.06 289	40.759 60	34.19
25.5	50.562 72	51.21 203	17.336 47	59.08 104	17.912 41	50.17 304	40.819 112	33.25 94
35.5	50.634	49.09 212	17.425 89	60.15 107	17.953	47.13	40.931	32.28 97
平位	s 50.101	″ 43.80	s 16.580	″ 65.08	s 18.097	″ 40.79	s 39.862	″ 37.00
sec δ, tan δ	+ 1.030	+ 0.245	+ 1.004	− 0.087	+ 1.236	+ 0.727	+ 1.269	− 0.781
2 回正中	7 月 8 日		7 月 8 日		7 月 9 日		7 月 9 日	
a b	+ 0.1376	+ 0.0044	+ 0.1589	− 0.0016	+ 0.1068	+ 0.0136	+ 0.2033	− 0.0147
a′ b′	+ 0.2708	+ 0.9627	+ 0.2726	+ 0.9621	+ 0.2811	+ 0.9597	+ 0.2826	+ 0.9592
FK3番號	716		717		719		718	

星名 / 等級 / スペクトル型	π Sgtr 3.02 F2		† 60 G. Pavo m 5.57 A2		δ Drac 3.24 K0		43 Sgtr 5.03 K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 19 6	° ′ −21 6	h m 19 11	° ′ −66 45	h m 19 12	° ′ +67 33	h m 19 14	° ′ −19 3
	s	″	s	″	s	″	s	″
1 1.5	23.604	49.76	29.70	37.56	29.54	53.65	19.136	13.76
11.5	23.724 120	49.82 6	29.90 20	34.99 257	29.51 3	50.09 356	19.246 110	13.97 21
21.5	23.883 159	49.88 6	30.19 29	32.46 253	29.60 9	46.49 360	19.394 148	14.12 15
31.4	24.076 193	49.90 2	30.57 38	30.03 243	29.78 18	43.00 349	19.576 182	14.24 12
2 10.4	24.298 222	49.89 1	31.03 46	27.77 226	30.07 29	39.75 325	19.788 212	14.29 5
	247	8	53	204	38	290	237	2
20.4	24.545	49.81	31.56	25.73	30.45	36.85	20.025	14.27
3 1.4	24.813 268	49.65 16	32.15 59	23.94 179	30.91 46	34.42 243	20.284 259	14.14 13
11.3	25.098 285	49.40 25	32.77 62	22.44 150	31.43 52	32.54 188	20.560 276	13.91 23
21.3	25.396 298	49.04 36	33.44 67	21.26 118	32.00 57	31.28 126	20.851 291	13.55 36
31.3	25.703 307	48.60 44	34.12 68	20.42 84	32.59 59	30.67 61	21.152 301	13.08 47
	314	53	70	50	61	6	308	58
4 10.3	26.017	48.07	34.82	19.92	33.20	30.73	21.460	12.50
20.2	26.331 314	47.48 59	35.51 69	19.80 12	33.80 60	31.43 70	21.772 312	11.84 66
30.2	26.643 312	46.86 62	36.19 68	20.04 24	34.38 58	32.75 132	22.081 309	11.12 72
5 10.2	26.946 303	46.22 64	36.85 66	20.64 60	34.91 53	34.63 188	22.384 303	10.37 75
20.1	27.235 289	45.61 61	37.47 62	21.60 96	35.39 48	36.99 236	22.673 289	9.63 74
	270	56	57	130	41	276	271	69
30.1	27.505	45.05	38.04	22.90	35.80	39.75	22.944	8.94
6 9.1	27.748 243	44.56 49	38.55 51	24.51 161	36.13 33	42.82 307	23.190 246	8.31 63
19.1	27.959 211	44.18 38	38.98 43	26.39 188	36.36 23	46.10 328	23.406 216	7.77 54
29.0	28.134 175	43.90 28	39.33 35	28.50 211	36.50 14	49.52 342	23.585 179	7.35 42
7 9.0	28.267 133	43.75 15	39.58 25	30.78 228	36.55 5	52.96 344	23.723 138	7.05 30
	88	3	15	239	6	339	94	18
18.9	28.355 42	43.72 8	39.73 4	33.17	36.49	56.35	23.817	6.87
28.9	28.397 6	43.80 18	39.77 5	35.59 242	36.33 16	59.61 326	23.865 48	6.82 5
8 7.9	28.391	43.98 26	39.72 16	37.97 238	36.08 25	62.66 305	23.867 2	6.88 6
17.9	28.341 50	44.24 31	39.56 16	40.22 225	35.74 34	65.42 276	23.824 43	7.04 16
27.9	28.249 92	44.55 31	39.31 25	42.27 205	35.33 41	67.85 243	23.739 85	7.28 24
	127	35	34	176	49	203	121	29
9 6.8	28.122	44.90	38.97	44.03	34.84	69.88	23.618	7.57
16.8	27.967 155	45.25 35	38.57 40	45.45 142	34.31 53	71.47 159	23.469 149	7.88 31
26.8	27.793 174	45.59 34	38.13 44	46.46 101	33.73 58	72.58 111	23.299 170	8.21 33
10 6.8	27.610 183	45.89 30	37.65 48	47.02 56	33.13 60	73.17 59	23.120 179	8.52 31
16.7	27.428 182	46.15 26	37.18 47	47.09 7	32.52 61	73.23 6	22.941 179	8.82 30
	169	21	46	40	60	49	169	26
26.7	27.259 146	46.36	36.72	46.69	31.92	72.74	22.772	9.08
11 5.7	27.113 116	46.53 17	36.31 41	45.80 89	31.35 57	71.70 104	22.625 147	9.32 24
15.7	26.997 79	46.66 13	35.96 35	44.48 132	30.83 52	70.12 158	22.506 119	9.53 21
25.6	26.918 36	46.75 9	35.69 27	42.77 171	30.37 46	68.02 210	22.423 83	9.72 19
12 5.6	26.882 9	46.83 8	35.51 18	40.73 204	29.98 39	65.45 257	22.381 42	9.91 19
			7	229	29	296	1	18
15.6	26.891	46.91	35.44 3	38.44	29.69	62.49	22.382	10.09
25.5	26.945 54	46.98 7	35.47 14	35.98 246	29.49 20	59.20 329	22.428 46	10.28 19
35.5	27.043 98	47.05 7	35.61	33.43 255	29.39 10	55.70 350	22.516 88	10.46 18
平位	s 26.041	″ 51.91	s 35.003	″ 38.43	s 32.754	″ 47.02	s 21.531	″ 15.56
sec δ, tan δ	+ 1.072	− 0.386	+ 2.534	− 2.329	+ 2.620	+ 2.422	+ 1.058	− 0.345
2 回正中	7 月 9 日		7 月 10 日		7 月 10 日		7 月 11 日	
a b	+ 0.1780	− 0.0074	+ 0.3011	− 0.0477	− 0.0001	+ 0.0503	+ 0.1752	− 0.0073
a′ b′	+ 0.2858	+ 0.9583	+ 0.3073	+ 0.9516	+ 0.3113	+ 0.9503	+ 0.3188	+ 0.9478
FK3番號	720		721		723		722	

星名	ϑ Lyra		ω Aqil		ϰ Cygn		τ Drac	
等級	4.46		5.14		3.98		4.63	
スペクトル型	K0		A5		K0		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 19 14	° ′ +38 1	h m 19 15	° ′ +11 29	h m 19 15	° ′ +53 15	h m 19 16	° ′ +73 14
	s	″	s	″	s	″	s	″
1 1.5	23.212	63.66	9.112	38.55	46.049	58.07	34.49	74.89
	23.268 56	60.56 310	9.197 85	36.58 197	46.073 24	54.62 345	34.41 8	71.35 354
11.5	23.373 105	57.47 309	9.318 121	34.62 196	46.165 92	51.16 346	34.46 5	67.77 358
21.5	23.523 150	54.49 298	9.474 156	32.77 185	46.320 155	47.81 335	34.66 20	64.27 350
31.4	23.716 193	51.75 274	9.660 186	31.10 167	46.535 215	44.70 311	35.00 34	61.00 327
2 10.4	230	241	212	143	269	276	46	294
20.4	23.946	49.34	9.872	29.67	46.804	41.94	35.46	58.06
3 1.4	24.209 263	47.37 197	10.107 235	28.55 112	47.120 316	39.64 230	36.03 57	55.57 249
11.3	24.498 289	45.91 146	10.361 254	27.79 76	47.475 355	37.88 176	36.69 66	53.61 196
21.3	24.808 310	45.00 91	10.631 270	27.43 36	47.858 383	36.73 115	37.42 73	52.27 134
31.3	25.133 325	44.67 33	10.911 280	27.47 4	48.262 404	36.21 52	38.18 76	51.57 70
	332	26	287	45	413	14	79	4
4 10.3	25.465	44.93	11.198	27.92	48.675	36.35	38.97	51.53 61
20.2	25.797 332	45.77 84	11.488 290	28.75 83	49.086 411	37.11 76	39.74 77	52.14 123
30.2	26.123 326	47.13 136	11.775 287	29.93 118	49.486 400	38.47 136	40.48 74	53.37 179
5 10.2	26.435 312	48.97 184	12.054 279	31.40 147	49.863 377	40.36 189	41.17 69	55.16 227
20.1	26.725 290	51.21 224	12.318 264	33.11 171	50.209 346	42.71 235	41.77 60	57.43 269
	262	257	246	190	306	274	52	
30.1	26.987	53.78	12.564	35.01	50.515	45.45	42.29	60.12
6 9.1	27.214 227	56.58 280	12.784 220	37.01 200	50.772 257	48.48 303	42.69 40	63.14 302
19.1	27.400 186	59.55 297	12.972 188	39.07 206	50.973 201	51.70 322	42.98 29	66.38 324
29.0	27.541 141	62.58 303	13.126 154	41.11 204	51.115 142	55.04 334	43.14 16	69.76 338
7 9.0	27.633 92	65.61 303	13.239 113	43.10 199	51.193 78	58.40 336	43.17 3	73.20 344
	42	293	72	187	12	329	10	339
18.9	27.675 11	68.54	13.311	44.97	51.205 54	61.69	43.07	76.59
28.9	27.664 62	71.33 279	13.339 28	46.69 172	51.151 117	64.84 315	42.84 23	79.87 328
8 7.9	27.602 110	73.89 256	13.322 17	48.22 153	51.034 177	67.77 293	42.48 36	82.95 308
17.9	27.492 153	76.18 229	13.265 57	49.54 132	50.857 177	70.42 265	42.02 46	85.77 282
27.9	27.339 191	78.15 197	13.169 96	50.62 108	50.625 232	72.72 230	41.45 57	88.26 249
		161	130	84	278	193	66	211
9 6.8	27.148	79.76	13.039	51.46	50.347	74.65	40.79	90.37
16.8	26.927 221	80.97 121	12.884 155	52.02 56	50.032 315	76.13 148	40.06 73	92.04 167
26.8	26.684 243	81.75 78	12.710 174	52.33 31	49.689 343	77.15 102	39.28 78	93.25 121
10 6.8	26.430 254	82.09 34	12.527 183	52.35 2	49.331 358	77.67 52	38.47 81	93.95 70
16.7	26.175 255	81.96 13	12.343 184	52.10 25	48.969 362	77.67 0	37.64 83	94.12 17
	246	59	174	52	352	53	82	38
26.7	25.929	81.37	12.169	51.58	48.617	77.14	36.82	93.74
11 5.7	25.703 226	80.31 106	12.014 155	50.78 80	48.286 331	76.08 106	36.04 78	92.81 93
15.7	25.504 199	78.80 151	11.885 129	49.72 106	47.987 299	74.50 158	35.31 73	91.34 147
25.6	25.342 162	76.87 193	11.788 97	48.41 131	47.731 256	72.44 206	34.65 66	89.34 200
12 5.6	25.222 120	74.55 232	11.728 60	46.87 154	47.527 204	69.93 251	34.09 56	86.87 247
	73	265	19	172	146	290	44	289
15.6	25.149	71.90	11.709 22	45.15 187	47.381 83	67.03 319	33.65 32	83.98
25.5	25.125 24	69.00 290	11.731 62	43.28 196	47.298 16	63.84 338	33.33 18	80.76 322
35.5	25.152 27	65.94 306	11.793	41.32	47.282	60.46	33.15	77.30 346
平位	s 25.366	″ 58.54	s 11.201	″ 35.09	s 48.479	″ 52.00	s 38.402	″ 67.79
sec δ, tan δ	+ 1.270	+ 0.782	+ 1.020	+ 0.203	+ 1.672	+ 1.340	+ 3.470	+ 3.323
2 回正中	7月 11 日		7月 11 日		7月 11 日		7月 11 日	
a b	+ 0.1039	+ 0.0166	+ 0.1405	+ 0.0044	+ 0.0688	+ 0.0290	− 0.0559	+ 0.0727
a′ b′	+ 0.3191	+ 0.9477	+ 0.3222	+ 0.9467	+ 0.3248	+ 0.9458	+ 0.3282	+ 0.9446
FK3番號	724		725		726		729	

星名	υ Sgtr		α Sgtr		δ Aqil		186 G. Sgtr	
等級	4.58		4.11		3.44		5.68	
スペクトル型	B8p, F2p		B8		F0		B9	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 19 18	° ′ −16 3	h m 19 19	° ′ −40 43	h m 19 22	° ′ + 3 0	h m 19 23	° ′ −29 51
	s	″	s	″	s	″	s	″
1 1.5	28.869	40.64	57.561	23.00	38.322 85	8.74	21.626	19.87
	28.972 103	40.99 35	57.686 125	21.81 119	38.407 121	7.26 148	21.736 110	19.34 53
11.5	29.113 141	41.31 32	57.859 173	20.60 121	38.528 153	5.80 146	21.887 151	18.78 56
21.5	29.287 174	41.59 28	58.075 216	19.42 118	38.681 184	4.42 138	22.076 189	18.21 57
31.5	29.491 204	41.79 20	58.330 255	18.26 116	38.865 209	3.19 123	22.299 223	17.61 60
2 10.4	230	11	287	110		103	251	61
20.4	29.721	41.90 −	58.617	17.16	39.074 232	2.16	22.550	17.00
3 1.4	29.972 251	41.87 3	58.933 316	16.11 105	39.306 250	1.39 77	22.825 275	16.36 64
11.3	30.241 269	41.71 16	59.272 339	15.15 96	39.556 266	0.91 48	23.121 296	15.71 65
21.3	30.525 284	41.40 31	59.628 356	14.27 88	39.822 278	0.75 16	23.433 312	15.03 68
31.3	30.820 295	40.95 45	59.999 371	13.49 78	40.100 286	0.93 18	23.759 326	14.35 68
	302	60	380	66		50	334	68
4 10.3	31.122	40.35	60.379	12.83	40.386 290	1.43	24.093	13.67
20.2	31.428 306	39.64 71	60.762 383	12.31 52	40.676 289	2.24 81	24.432 339	13.02 65
30.2	31.733 305	38.85 79	61.144 382	11.95 36	40.965 282	3.32 108	24.770 338	12.43 59
5 10.2	32.032 299	38.00 85	61.517 373	11.75 20	41.247 271	4.63 131	25.101 331	11.91 52
20.2	32.319 287	37.13 87	61.875 358	11.75 0	41.518 253	6.12 149	25.421 320	11.48 43
	268	85	335	19		161	300	29
30.1	32.587	36.28	62.210	11.94	41.771 229	7.73 168	25.721	11.19
6 9.1	32.832 245	35.48 80	62.515 305	12.34 40	42.000 200	9.41 169	25.996 275	11.03 16
19.1	33.047 215	34.77 71	62.782 267	12.93 59	42.200 166	11.10 166	26.238 242	11.03 0
29.0	33.226 179	34.16 61	63.005 223	13.71 78	42.366 128	12.76 157	26.441 203	11.18 15
7 9.0	33.365 139	33.67 49	63.179 174	14.65 94	42.494 85	14.33 146	26.601 160	11.48 30
	96	36	119	107			112	44
18.9	33.461	33.31	63.298	15.72 118	42.579	15.79	26.713	11.92
28.9	33.512 51	33.08 23	63.361 63	16.90 123	42.622 43	17.10 131	26.776 63	12.48 56
8 7.9	33.516 4	32.97 11	63.366 5	18.13 123	42.620 2	18.24 114	26.787 11	13.14 66
17.9	33.477 39	32.98 1	63.316 50	19.36 123	42.577 43	19.19 95	26.749 38	13.85 71
27.9	33.396 81	33.09 11	63.213 103	20.56 120	42.494 83	19.95 76	26.664 85	14.58 73
	117	18	148	109	116	55	124	72
9 6.9	33.279	33.27	63.065	21.65	42.378 144	20.50	26.540 157	15.30 67
16.8	33.134 145	33.51 24	62.880 185	22.60 95	42.234 163	20.85 35	26.383 181	15.97 58
26.8	32.969 165	33.78 27	62.668 212	23.36 76	42.071 173	20.99 14	26.202 194	16.55 46
10 6.8	32.793 176	34.08 30	62.442 226	23.90 54	41.898 175	20.94 5	26.008 196	17.01 34
16.7	32.616 177	34.38 30	62.215 227	24.20 30	41.723 166	20.68 26	25.812 186	17.35 18
	166	31	217	3		45		
26.7	32.450	34.69	61.998	24.23 −	41.557 148	20.23 64	25.626 165	17.53
11 5.7	32.303 147	35.00 31	61.805 193	24.02 21	41.409 123	19.59 83	25.461 135	17.58 5
15.7	32.184 119	35.31 31	61.647 158	23.56 46	41.286 92	18.76 101	25.326 98	17.48 10
25.6	32.099 85	35.63 32	61.531 116	22.89 67	41.194 55	17.75 117	25.228 55	17.26 22
12 5.6	32.055 44	35.96 33	61.465 66	22.04 85	41.139 16	16.58 131	25.173 8	16.94 32
	3	35	12	99				41
15.6	32.052 −	36.31	61.453 −	21.05	41.123 −	15.27	25.165 −	16.53
25.6	32.092 40	36.66 35	61.496 43	19.95 110	41.146 23	13.85 142	25.204 39	16.07 46
35.5	32.174 82	37.02 36	61.593 97	18.79 116	41.212 66	12.38 147	25.290 86	15.56 51
平位	s 31.211	″ 42.32	s 60.546	″ 23.44	s 40.447	″ 6.01	s 24.250	″ 20.50
sec δ, tan δ	+ 1.041	− 0.288	+ 1.319	− 0.861	+ 1.001	+ 0.052	+ 1.153	− 0.574
2 回正中	7月 12 日		7月 12 日		7月 13 日		7月 13 日	
a b	+ 0.1714	− 0.0064	+ 0.2073	− 0.0196	+ 0.1501	+ 0.0012	+ 0.1891	− 0.0136
a′ b′	+ 0.3359	+ 0.9419	+ 0.3421	+ 0.9397	+ 0.3530	+ 0.9356	+ 0.3559	+ 0.9345
FK3番號	727		728		730		731	

星名 / 等級 / スペクトル型	Grb 2900 Drac 6.00 A2				ι Cygn 3.94 A2				β Cygn *pr* 3.24 K0, A0				ε Tele 5.02 K0			
世界時	赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月 日	h m 19 24		° ′ +79 29		h m 19 28		° ′ +51 36		h m 19 28		° ′ +27 50		h m 19 31		° ′ −48 13	
	s		″		s		″		s		″		s		″	
1 1.5	61.21	25	40.29		15.271		41.45		25.636	54	31.66	269	0.652	117	19.74	166
11.5	60.96	1	36.85	344	15.280	9	38.08	337	25.690	96	28.97	269	0.769	174	18.08	168
21.5	60.95	21	33.33	352	15.353	73	34.66	342	25.786	136	26.28	260	0.943	224	16.40	167
31.5	61.16	44	29.85	348	15.488	135	31.33	333	25.922	173	23.68	240	1.167	269	14.73	162
2 10.4	61.60	65	26.56	329 298	15.681	193 246	28.21	312 279	26.095	205	21.28	211	1.436	309	13.11	154
20.4	62.25	83	23.58		15.927	293	25.42	235	26.300	234	19.17	172	1.745	343	11.57	143
3 1.4	63.08	98	21.01	257	16.220	332	23.07	184	26.534	260	17.45	129	2.088	372	10.14	130
11.3	64.06	110	18.95	206	16.552	364	21.23	125	26.794	279	16.16	78	2.460	394	8.84	116
21.3	65.16	117	17.47	148	16.916	386	19.98	62	27.073	294	15.38	27	2.854	413	7.68	99
31.3	66.33	120	16.62	85 20	17.302	398	19.36	2	27.367	304	15.11	26	3.267	424	6.69	80
4 10.3	67.53	119	16.42	44	17.700	401	19.38	64	27.671	309	15.37	77	3.691	431	5.89	59
20.2	68.72	114	16.86	105	18.101	394	20.02	124	27.980	306	16.14	125	4.122	430	5.30	37
30.2	69.86	105	17.91	162	18.495	375	21.26	179	28.286	297	17.39	168	4.552	422	4.93	12
5 10.2	70.91	94	19.53	212	18.870	349	23.05	225	28.583	282	19.07	203	4.974	407	4.81	13
20.2	71.85	78	21.65	255	19.219	312	25.30	266	28.865	260	21.10	232	5.381	382	4.94	39
30.1	72.63	62	24.20	288	19.531	267	27.96	296	29.125	232	23.42	254	5.763	349	5.33	64
6 9.1	73.25	42	27.08	314	19.798	216	30.92	318	29.357	198	25.96	267	6.112	309	5.97	89
19.1	73.67	23	30.22	331	20.014	160	34.10	331	29.555	158	28.63	273	6.421	259	6.86	110
29.0	73.90	3	33.53	338	20.174	98	37.41	335	29.713	115	31.36	272	6.680	204	7.96	130
7 9.0	73.93	18	36.91	337	20.272	35	40.76	331	29.828	69	34.08	264	6.884	144	9.26	146
18.9	73.75		40.28		20.307	29	44.07	318	29.897	22	36.72	249	7.028	80	10.72	156
28.9	73.38	37	43.55	327	20.278	92	47.25	299	29.919	26	39.21	229	7.108	14	12.28	162
8 7.9	72.81	57	46.66	311	20.186	151	50.24	272	29.893	70	41.50	205	7.122	49	13.90	161
17.9	72.06	75	49.54	288	20.035	205	52.96	240	29.823	113	43.55	177	7.073	109	15.51	154
27.9	71.15	91 104	52.12	258 222	19.830	252	55.36	204	29.710	149	45.32	144	6.964	162	17.05	154 141
9 6.9	70.11	116	54.34	181	19.578	292	57.40	161	29.561	179	46.76	109	6.802	206	18.46	122
16.8	68.95	125	56.15	136	19.286	319	59.01	115	29.382	200	47.85	73	6.596	238	19.68	98
26.8	67.70	131	57.51	87	18.967	338	60.16	67	29.182	212	48.58	33	6.358	258	20.66	69
10 6.8	66.39	134	58.38	36	18.629	343	60.83	15	28.970	216	48.91	6	6.100	263	21.35	38
16.7	65.05	134	58.74	18	18.286	338	60.98	37	28.754	208	48.85	46	5.837	254	21.73	4
26.7	63.71	129	58.56	74	17.948	319	60.61	89	28.546	193	48.39	88	5.583	231	21.77	28
11 5.7	62.42	123	57.82	127	17.629	291	59.72	142	28.353	168	47.51	126	5.352	196	21.49	61
15.7	61.19	111	56.55	181	17.338	252	58.30	191	28.185	136	46.25	164	5.156	150	20.88	89
25.6	60.08	98	54.74	229	17.086	205	56.39	236	28.049	100	44.61	197	5.006	95	19.99	115
12 5.6	59.10	81	52.45	273	16.881	150	54.03	276	27.949	58	42.64	227	4.911	37	18.84	135
15.6	58.29	61	49.72	308	16.731	92	51.27	308	27.891	15	40.37	249	4.874	24	17.49	151
25.6	57.68	39	46.64	335	16.639	28	48.19	330	27.876	29	37.88	264	4.898	85	15.98	161
35.5	57.29		43.29		16.611		44.89		27.905		35.24		4.983		14.37	
平位	s 66.745		″ 32.49		s 17.612		″ 35.01		s 27.696		″ 27.03		s 3.995		″ 18.89	
sec δ, tan δ	+ 5.483		+ 5.391		+ 1.610		+ 1.262		+ 1.131		+ 0.528		+ 1.501		− 1.119	
2 回正中	7 月 14 日				7 月 14 日				7 月 14 日				7 月 15 日			
a ⊙ b	− 0.1816		+ 0.1304		+ 0.0754		+ 0.0316		+ 0.1207		+ 0.0133		+ 0.2221		− 0.0289	
a′ b′	+ 0.3629		+ 0.9318		+ 0.3758		+ 0.9267		+ 0.3765		+ 0.9264		+ 0.3870		+ 0.9221	
FK3番號	734				733				732				735			

星名 / 等級 / スペクトル型	52 Sgtr 4.66 B9				ϰ Aqil 5.04 B0				ϑ Cygn 4.64 F5				15 Cygn 5.02 K0			
世界時	赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月 日	h m 19 33		° ′ −25 0		h m 19 33		° ′ −7 9		h m 19 34		° ′ +50 5		h m 19 42		° ′ +37 12	
	s		″		s		″		s		″		s		″	
1 1.5	15.559	95	31.79	25	50.506	81	11.18	86	54.029	4	32.59		13.242	25	70.48	297
11.5	15.654	135	31.54	29	50.587	118	12.04	82	54.033	65	29.28	331	13.267	71	67.51	301
21.5	15.789	171	31.25	33	50.705	150	12.86	76	54.098	124	25.91	337	13.338	117	64.50	294
31.5	15.960	203	30.92	38	50.855	180	13.62	65	54.222	180	22.61	330	13.455	160	61.56	275
2 10.4	16.163	231	30.54	43	51.035	207	14.27	49	54.402	232	19.51	278	13.615	200	58.81	247
20.4	16.394	256	30.11	50	51.242	229	14.76	31	54.634	279	16.73	237	13.815	236	56.34	208
3 1.4	16.650	277	29.61	56	51.471	250	15.07	9	54.913	318	14.36	185	14.051	267	54.26	161
11.4	16.927	295	29.05	64	51.721	265	15.16	14	55.231	349	12.51	129	14.318	292	52.65	109
21.3	17.222	308	28.41	69	51.986	280	15.02	38	55.580	373	11.22	66	14.610	312	51.56	52
31.3	17.530	319	27.72	74	52.266	289	14.64	60	55.953	387	10.56	3	14.922	325	51.04	6
4 10.3	17.849	325	26.98	76	52.555	295	14.04	82	56.340	391	10.53	59	15.247	332	51.10	63
20.2	18.174	326	26.22	76	52.850	297	13.22	99	56.731	386	11.12	119	15.579	332	51.73	117
30.2	18.500	322	25.46	72	53.147	292	12.23	112	57.117	371	12.31	173	15.911	323	52.90	165
5 10.2	18.822	311	24.74	66	53.439	283	11.11	123	57.488	345	14.04	221	16.234	307	54.55	209
20.2	19.133	295	24.08	57	53.722	266	9.88	127	57.833	313	16.25	261	16.541	283	56.64	243
30.1	19.428	271	23.51	46	53.988	245	8.61	127	58.146	271	18.86	292	16.824	252	59.07	272
6 9.1	19.699	241	23.05	32	54.233	217	7.34	123	58.417	222	21.78	315	17.076	215	61.79	291
19.1	19.940	205	22.73	17	54.450	183	6.11	116	58.639	168	24.93	329	17.291	173	64.70	301
29.1	20.145	163	22.56	2	54.633	145	4.95	106	58.807	109	28.22	334	17.464	125	67.71	305
7 9.0	20.308	118	22.54	13	54.778	103	3.89	92	58.916	47	31.56	330	17.589	74	70.76	300
18.9	20.426	70	22.67	27	54.881	59	2.97	77	58.963	15	34.86	319	17.663	23	73.76	288
28.9	20.496	21	22.94	38	54.940	15	2.20	62	58.948	76	38.05	300	17.686	29	76.64	270
8 7.9	20.517	28	23.32	47	54.955	29	1.58	47	58.872	134	41.05	275	17.657	78	79.34	245
17.9	20.489	72	23.79	54	54.926	70	1.11	31	58.738	188	43.80	244	17.579	125	81.79	217
27.9	20.417	111	24.33	56	54.856	105	0.80	17	58.550	235	46.24	207	17.454	165	83.96	183
9 6.9	20.306	145	24.89	56	54.751	135	0.63	3	58.315	274	48.31	166	17.289	199	85.79	145
16.8	20.161	168	25.45	52	54.616	156	0.60	9	58.041	303	49.97	122	17.090	225	87.24	105
26.8	19.993	182	25.97	46	54.460	168	0.69	20	57.738	321	51.19	74	16.865	240	88.29	61
10 6.8	19.811	186	26.43	38	54.292	172	0.89	30	57.417	329	51.93	23	16.625	247	88.90	17
16.8	19.625	178	26.81	28	54.120	164	1.19	39	57.088	324	52.16	29	16.378	243	89.07	29
26.7	19.447	161	27.09	19	53.956	148	1.58	48	56.764	308	51.87	81	16.135	229	88.78	76
11 5.7	19.286	133	27.28	9	53.808	124	2.06	57	56.456	281	51.06	133	15.906	207	88.02	121
15.7	19.153	99	27.37	0	53.684	93	2.63	65	56.175	245	49.73	182	15.699	176	86.81	166
25.6	19.054	59	27.37	8	53.591	58	3.28	72	55.930	200	47.91	228	15.523	138	85.15	205
12 5.6	18.995	15	27.29	13	53.533	18	4.00	79	55.730	149	45.63	268	15.385	97	83.10	241
15.6	18.980	28	27.16	19	53.515	21	4.79	84	55.581	93	42.95	300	15.288	51	80.69	270
25.6	19.008	73	26.97	22	53.536	61	5.63	86	55.488	32	39.95	323	15.237	3	77.99	289
35.5	19.081		26.75		53.597		6.49		55.456		36.72		15.234		75.10	
平位	s 18.056		″ 31.99		s 52.710		″ 12.73		s 56.311		″ 26.03		s 15.319		″ 64.82	
sec δ, tan δ	+ 1.103		− 0.466		+ 1.008		− 0.125		+ 1.559		+ 1.196		+ 1.256		+ 0.760	
2 回正中	7 月 16 日				7 月 16 日				7 月 16 日				7 月 18 日			
a b	+ 0.1819		− 0.0123		+ 0.1610		− 0.0033		+ 0.0804		+ 0.0321		+ 0.1076		+ 0.0219	
a′ b′	+ 0.3960		+ 0.9183		+ 0.3983		+ 0.9173		+ 0.4025		+ 0.9154		+ 0.4315		+ 0.9021	
FK3番號	736				737				738				740			

星名	† δ Cygn		ν Tele		γ Aqil		δ Sgte	
等級	2.97		5.52		2.80		3.78	
スペクトル型	A0		A5		K2		M0, A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 19 43	° ′ +44 59	h m 19 43	° ′ −56 29	h m 19 43	° ′ +10 28	h m 19 44	° ′ +18 23
	s	″	s	″	s	″	s	″
1 1.6	11.264 6	41.93 317	23.412 106	59.70 212	33.745 58	34.79 182	51.354 48	45.24 221
11.5	11.270 61	38.76 324	23.518 174	57.58 218	33.803 94	32.97 183	51.402 86	43.03 223
21.5	11.331 113	35.52 317	23.692 237	55.40 216	33.897 128	31.14 174	51.488 123	40.80 215
31.5	11.444 164	32.35 300	23.929 295	53.24 210	34.025 160	29.40 159	51.611 156	38.65 198
2 10.4	11.608 210	29.35 270	24.224 346	51.14 199	34.185 189	27.81 136	51.767 187	36.67 173
20.4	11.818	26.65	24.570	49.15	34.374	26.45	51.954	34.94
3 1.4	12.070 252	24.35 230	24.960 390	47.30 185	34.588 214	25.37 108	52.168 214	33.53 141
11.4	12.358 288	22.54 181	25.388 428	45.62 168	34.825 237	24.63 74	52.407 239	32.49 104
21.3	12.677 319	21.28 126	25.846 458	44.15 147	35.081 256	24.26 37	52.666 259	31.89 60
31.3	13.018 341	20.61 67	26.328 482	42.92 123	35.352 271	24.29 3	52.942 276	31.74 15
	356	5	500	97	283	41	288	31
4 10.3	13.374	20.56 —	26.828	41.95 69	35.635 290	24.70 80	53.230 295	32.05 75
20.3	13.737 363	21.11 55	27.337 509	41.26 39	35.925 292	25.50 113	53.525 297	32.80 115
30.2	14.098 361	22.24 113	27.848 511	40.87 8	36.217 289	26.63 144	53.822 293	33.95 153
5 10.2	14.449 351	23.90 166	28.352 504	40.79 24	36.506 279	28.07 168	54.115 282	35.48 183
20.2	14.779 330	26.03 213	28.838 486	41.03 57	36.785 262	29.75 187	54.397 265	37.31 207
	303	252	459					
30.1	15.082 267	28.55 282	29.297 421	41.60 87	37.047 241	31.62 199	54.662 241	39.38 226
6 9.1	15.349 225	31.37 305	29.718 374	42.47 117	37.288 212	33.61 206	54.903 211	41.64 235
19.1	15.574 176	34.42 319	30.092 317	43.64 144	37.500 179	35.67 206	55.114 177	43.99 240
29.1	15.750 122	37.61 325	30.409 252	45.08 166	37.679 141	37.73 200	55.291 137	46.39 237
7 9.0	15.872 67	40.86 321	30.661 181	46.74 184	37.820 98	39.73 191	55.428 94	48.76 228
19.0	15.939	44.07	30.842	48.58	37.918	41.64	55.522	51.04
28.9	15.949 10	47.17 310	30.947 105	50.54 196	37.973 55	43.40 176	55.571 49	53.19 215
8 7.9	15.901 48	50.10 293	30.974 27	52.56 202	37.984 11	44.98 158	55.574 3	55.16 197
17.9	15.799 102	52.79 269	30.925 49	54.57 201	37.951 33	46.36 138	55.534 40	56.91 175
27.9	15.647 152	55.17 238	30.803 122	56.48 191	37.878 73	47.51 115	55.452 82	58.41 150
	197	204	187	176	109	90	119	122
9 6.9	15.450	57.21	30.616	58.24	37.769	48.41	55.333	59.63
16.8	15.216 234	58.86 165	30.373 243	59.77 153	37.630 139	49.07 66	55.185 148	60.55 92
26.8	14.954 262	60.08 122	30.087 286	61.00 123	37.469 161	49.46 39	55.013 172	61.16 61
10 6.8	14.673 281	60.83 75	29.775 312	61.89 89	37.294 175	49.59 13	54.828 185	61.46 30
16.8	14.385 288	61.11 28	29.450 325	62.38 49	37.115 179	49.46 13	54.637 191	61.42 4
	286	23	318	9	174	39	186	37
26.7	14.099	60.88	29.132	62.47 —	36.941	49.07	54.451	61.05
11 5.7	13.828 271	60.15 73	28.836 296	62.15 32	36.781 160	48.41 66	54.278 173	60.35 70
15.7	13.580 248	58.92 123	28.578 258	61.43 72	36.642 139	47.50 91	54.126 152	59.33 102
25.6	13.364 216	57.21 171	28.370 208	60.34 109	36.531 111	46.35 115	54.003 123	58.01 132
12 5.6	13.189 175	55.06 215	28.224 146	58.92 142	36.454 77	44.98 137	53.913 90	56.40 161
	130	254	78	170	41	156	53	185
15.6	13.059	52.52	28.146	57.22	36.413	43.42	53.860	54.55
25.6	12.980 79	49.66 286	28.139 7	55.31 191	36.411 2	41.71 171	53.846 14	52.50 205
35.5	12.955 25	46.57 309	28.206 67	53.26 205	36.448 37	39.91 180	53.872 26	50.33 217
平位	s 13.425	″ 35.54	s 27.340	″ 57.30	s 35.793	″ 31.86	s 53.373	″ 41.48
sec δ, tan δ	+ 1.414	+ 1.000	+ 1.812	− 1.511	+ 1.017	+ 0.185	+ 1.054	+ 0.333
2 回正中	7月 18 日		7月 18 日		7月 18 日		7月 19 日	
a b	+ 0.0933	+ 0.0290	+ 0.2440	− 0.0439	+ 0.1422	+ 0.0054	+ 0.1334	+ 0.0098
a′ b′	+ 0.4353	+ 0.9003	+ 0.4362	+ 0.8998	+ 0.4368	+ 0.8996	+ 0.4419	+ 0.8971
FK3番號	742		739		741		743	

星名	51 Aqil		α Aqil		† ε Drac		η Aqil	
等級	5.55		0.89		3.99		3.7-4.4	
スペクトル型	F0		A5		K0		G0p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 19 47	° ′ −10 54	h m 19 48	° ′ + 8 43	h m 19 48	° ′ +70 7	h m 19 49	° ′ + 0 51
	s	″	s	″	s	″	s	″
1 1.6	39.740 70	25.02 59	0.973 58	11.30 171	19.05 14	40.15 341	35.089 60	39.68 129
11.5	39.810 107	25.61 55	1.031 95	9.59 169	18.91 2	36.74 353	35.149 96	38.39 126
21.5	39.917 140	26.16 48	1.126 128	7.90 162	18.89 9	33.21 353	35.245 129	37.13 118
31.5	40.057 171	26.64 39	1.254 160	6.28 147	18.98 22	29.68 339	35.374 159	35.95 106
2 10.4	40.228 198	27.03 24	1.414 188	4.81 125	19.20 32	26.29 312	35.533 187	34.89 87
20.4	40.426	27.27	1.602	3.56	19.52	23.17	35.720	34.02
3 1.4	40.648 222	27.35 8	1.816 214	2.59 97	19.95 43	20.43 274	35.932 212	33.38 64
11.4	40.892 244	27.24 11	2.052 236	1.94 65	20.46 51	18.18 225	36.166 234	33.02 36
21.3	41.155 263	26.94 30	2.307 255	1.65 29	21.05 59	16.49 169	36.420 254	32.95 7
31.3	41.433 278	26.43 51	2.578 271	1.74 9	21.68 63	15.42 107	36.689 269	33.20 25
	290	69	283	47	66	42	281	55
4 10.3	41.723	25.74	2.861	2.21	22.34	15.00 —	36.970	33.75
20.3	42.022 299	24.87 87	3.151 290	3.03 82	23.02 68	15.24 24	37.260 290	34.58 83
30.2	42.324 302	23.86 101	3.444 293	4.18 115	23.68 66	16.11 87	37.553 293	35.67 109
5 10.2	42.624 300	22.75 111	3.734 290	5.62 144	24.31 63	17.58 147	37.844 291	36.98 131
20.2	42.916 292	21.57 118	4.014 280	7.29 167	24.89 58	19.58 200	38.127 283	38.46 148
	278	118	265	184	52	246	269	158
30.1	43.194	20.39	4.279	9.13	25.41	22.04	38.396	40.04
6 9.1	43.452 258	19.22 117	4.523 244	11.09 196	25.84 43	24.89 285	38.645 249	41.69 165
19.1	43.683 231	18.11 111	4.738 215	13.09 200	26.18 34	28.03 314	38.867 222	43.35 166
29.1	43.882 199	17.10 101	4.921 183	15.09 200	26.42 24	31.38 335	39.056 189	44.97 162
7 9.0	44.042 160	16.21 89	5.065 144	17.03 194	26.55 13	34.85 347	39.209 153	46.51 154
	119	75	103	183	2	349	111	141
19.0	44.161	15.46	5.168	18.86	26.57 —	38.34	39.320	47.92
28.9	44.236 75	14.87 59	5.227 59	20.55 169	26.48 9	41.78 344	39.388 68	49.19 127
8 7.9	44.265 29	14.43 44	5.242 15	22.06 151	26.27 21	45.09 331	39.412 24	50.29 110
17.9	44.249 16	14.15 28	5.213 29	23.36 130	25.97 30	48.19 310	39.392 20	51.20 91
27.9	44.191 58	14.01 14	5.144 69	24.45 109	25.57 40	51.01 282	39.332 60	51.92 72
	95	1	105	84	48	248	98	53
9 6.9	44.096	14.00 10	5.039	25.29	25.09	53.49	39.234	52.45
16.8	43.969 127	14.10 19	4.905 134	25.89 60	24.53 56	55.58 209	39.107 127	52.78 33
26.8	43.818 151	14.29 28	4.747 158	26.25 36	23.92 61	57.23 165	38.956 151	52.92 14
10 6.8	43.653 165	14.57 34	4.577 170	26.36 11	23.27 65	58.39 116	38.791 165	52.88 4
16.8	43.483 170	14.91 39	4.401 176	26.21 15	22.59 68	59.03 64	38.621 170	52.66 22
	166		171	38	68	10	167	40
26.7	43.317	15.30	4.230	25.83	21.91	59.13 —	38.454	52.26
11 5.7	43.165 152	15.74 44	4.073 157	25.19 64	21.25 66	58.66 47	38.301 153	51.70 56
15.7	43.036 129	16.22 48	3.937 136	24.33 86	20.62 63	57.62 104	38.169 132	50.98 72
25.7	42.936 100	16.74 52	3.828 109	23.24 109	20.04 58	56.04 158	38.065 104	50.10 88
12 5.6	42.870 66	17.30 56	3.753 75	21.95 129	19.53 51	53.93 211	37.993 72	49.09 101
	28	58	39	147	42	257	36	113
15.6	42.842 —	17.88	3.714	20.48	19.11	51.36	37.957 —	47.96
25.6	42.853 11	18.48 60	3.713 1	18.88 160	18.78 33	48.38 298	37.960 3	46.74 122
35.5	42.903 50	19.09 61	3.750 37	17.20 168	18.56 22	45.11 327	37.999 39	45.47 127
平位	s 41.970	″ 25.58	s 3.024	″ 8.74	s 22.289	″ 31.63	s 37.188	″ 37.93
sec δ, tan δ	+ 1.018	− 0.193	+ 1.012	+ 0.153	+ 2.942	+ 2.766	+ 1.000	+ 0.015
2 回正中	7月 19 日		7月 19 日		7月 20 日		7月 20 日	
a b	+ 0.1648	− 0.0058	+ 0.1442	+ 0.0046	− 0.0109	+ 0.0840	+ 0.1524	+ 0.0005
a′ b′	+ 0.4528	+ 0.8916	+ 0.4542	+ 0.8909	+ 0.4554	+ 0.8903	+ 0.4603	+ 0.8878
FK3番號	744		745		747		746	

星名		β Aqil			ε Pavo			† ψ Cygn			ϑ¹ Sgtr		
等級	スペクトル型	3.90		K0	4.10		A0	4.80		A3	4.39		B3
世界時		赤経		赤緯	赤経		赤緯	赤経		赤緯	赤経		赤緯
月	日	h m 19 52		° ′ +6 15	h m 19 54		° ′ −73 3	h m 19 54		° ′ +52 17	h m 19 56		° ′ −35 25
		s		″	s		″	s		″	s		″
1	1.6	31.645	52	58.28 159	2.26	9	44.58 289	8.615	32	29.80 327	2.924	76	48.08 93
	11.5	31.697	89	56.69 158	2.35	23	41.69 295	8.583	32	26.53 336	3.000	119	47.15 101
	21.5	31.786	122	55.11 150	2.58	35	38.74 294	8.615	93	23.17 335	3.119	161	46.14 106
	31.5	31.908	154	53.61 136	2.93	47	35.80 284	8.708	155	19.82 319	3.280	199	45.08 109
2	10.4	32.062	182	52.25 116	3.40	57	32.96 267	8.863	211	16.63 292	3.479	232	43.99 112
	20.4	32.244	208	51.09 90	3.97	67	30.29 246	9.074	264	13.71 252	3.711	262	42.87 113
3	1.4	32.452	230	50.19 59	4.64	75	27.83 217	9.338	309	11.19 206	3.973	288	41.74 112
	11.4	32.682	251	49.60 25	5.39	81	25.66 187	9.647	347	9.13 150	4.261	311	40.62 111
	21.3	32.933	267	49.35 10	6.20	86	23.79 151	9.994	377	7.63 89	4.572	331	39.51 108
	31.3	33.200	280	49.45 46	7.06	90	22.28 112	10.371	397	6.74 26	4.903	345	38.43 102
4	10.3	33.480	289	49.91 79	7.96	91	21.16 73	10.768	406	6.48 37	5.248	357	37.41 93
	20.3	33.769	293	50.70 111	8.87	92	20.43 30	11.174	406	6.85 98	5.605	361	36.48 83
	30.2	34.062	291	51.81 137	9.79	90	20.13 12	11.580	395	7.83 154	5.966	360	35.65 69
5	10.2	34.353	282	53.18 158	10.69	87	20.25 56	11.975	373	9.37 205	6.326	353	34.96 54
	20.2	34.635	268	54.76 174	11.56	81	20.81 97	12.348	341	11.42 248	6.679	337	34.42 34
	30.1	34.903	249	56.50 184	12.37	75	21.78 136	12.689	300	13.90 283	7.016	315	34.08 15
6	9.1	35.152	220	58.34 188	13.12	66	23.14 173	12.989	252	16.73 311	7.331	284	33.93 6
	19.1	35.372	189	60.22 187	13.78	55	24.87 205	13.241	197	19.84 328	7.615	246	33.99 27
	29.1	35.561	151	62.09 181	14.33	44	26.92 232	13.438	136	23.12 337	7.861	203	34.26 48
7	9.0	35.712	111	63.90 170	14.77	30	29.24 252	13.574	73	26.49 338	8.064	154	34.74 66
	19.0	35.823	66	65.60 156	15.07	17	31.76 263	13.647	8	29.87 330	8.218	101	35.40 83
	28.9	35.889	23	67.16 138	15.24	3	34.39 268	13.655	58	33.17 315	8.319	46	36.23 95
8	7.9	35.912	21	68.54 119	15.27	11	37.07 264	13.597	119	36.32 293	8.365	7	37.18 104
	17.9	35.891	63	69.73 97	15.16	25	39.71 249	13.478	177	39.25 264	8.358	59	38.22 107
	27.9	35.828	98	70.70 75	14.91	37	42.20 226	13.301	228	41.89 230	8.299	106	39.29 106
	6.9	35.730		71.45	14.54		44.46	13.073		44.19	8.193		40.35
9	16.8	35.600	130	71.97 52	14.07	47	46.41 195	12.801	272	46.10 191	8.047	146	41.36 101
	26.8	35.448	152	72.27 30	13.50	57	47.97 156	12.494	307	47.58 148	7.871	176	42.25 89
10	6.8	35.281	167	72.33 6	12.88	62	49.06 109	12.165	329	48.59 101	7.675	196	43.00 75
	16.8	35.107	174	72.17 16	12.23	65	49.65 59	11.823	342	49.09 50	7.469	206	43.57 57
			169	39		66	5		342	2		202	36
	26.7	34.938		71.78	11.57		49.70	11.481		49.07	7.267		43.93
11	5.7	34.780	158	71.18 60	10.95	62	49.21 49	11.150	331	48.52 55	7.079	188	44.07 14
	15.7	34.644	136	70.36 82	10.38	57	48.20 101	10.842	308	47.44 108	6.917	162	44.00 7
	25.7	34.534	110	69.33 103	9.90	48	46.69 151	10.566	276	45.83 161	6.787	130	43.73 27
12	5.6	34.456	78	68.13 120	9.52	38	44.74 195	10.332	234	43.75 208	6.698	89	43.26 47
			43	136		26	232		184	252		44	63
	15.6	34.413		66.77	9.26		42.42	10.148		41.23	6.654		42.63
	25.6	34.408	5	65.28 149	9.14	12	39.82 260	10.018	130	38.35 288	6.658	4	41.86 77
	35.5	34.441	33	63.71 157	9.15	1	37.01 281	9.949	69	35.20 315	6.708	50	40.98 88
平位		s 33.698		″ 55.99	s 9.150		″ 40.62	s 10.872		″ 22.40	s 5.671		″ 45.77
sec δ, tan δ		+ 1.006		+ 0.110	+ 3.432		− 3.283	+ 1.635		+ 1.293	÷ 1.227		− 0.711
2 回正中		7 月 21 日			7 月 21 日			7 月 21 日			7 月 21 日		
a	b	+ 0.1469		+ 0.0035	+ 0.3456		− 0.1046	+ 0.0776		+ 0.0412	+ 0.1948		− 0.0230
a′	b′	+ 0.4716		+ 0.8818	+ 0.4778		+ 0.8785	+ 0.4779		+ 0.8784	+ 0.4852		+ 0.8744
FK3番號		749			748			750			751		

星名		γ Sgte			62 Sgtr			ξ Tele			δ Pavo		
等級	スペクトル型	3.71		K5	4.60		M3	4.86		M0	3.64		G5
世界時		赤経		赤緯	赤経		赤緯	赤経		赤緯	赤経		赤緯
月	日	h m 19 56		° ′ +19 20	h m 19 59		° ′ −27 51	h m 20 3		° ′ −53 2	h m 20 3		° ′ −66 19
		s		″	s		″	s		″	s		″
1	1.6	13.928	35	23.74 221	10.513	69	63.45 48	2.656	70	39.04 195	9.94	7	42.92 258
	11.5	13.963	74	21.53 224	10.582	109	62.97 55	2.726	132	37.09 204	10.01	18	40.34 267
	21.5	14.037	111	19.29 217	10.691	146	62.42 61	2.858	190	35.05 209	10.19	26	37.67 269
	31.5	14.148	145	17.12 202	10.837	181	61.81 67	3.048	244	32.96 207	10.45	35	34.98 263
2	10.5	14.293	176	15.10 178	11.018	212	61.14 74	3.292	292	30.89 202	10.80	42	32.35 251
	20.4	14.469	206	13.32 146	11.230	239	60.40 80	3.584	335	28.87 192	11.22	49	29.84 233
3	1.4	14.675	231	11.86 109	11.469	265	59.60 85	3.919	373	26.95 180	11.71	54	27.51 211
	11.4	14.906	253	10.77 66	11.734	286	58.75 91	4.292	404	25.15 164	12.25	60	25.40 185
	21.3	15.159	273	10.11 21	12.020	305	57.84 95	4.696	432	23.51 145	12.85	63	23.55 156
	31.3	15.432	286	9.90 25	12.325	319	56.89 97	5.128	452	22.06 123	13.48	66	21.99 122
4	10.3	15.718	296	10.15 70	12.644	330	55.92 97	5.580	466	20.83 98	14.14	68	20.77 86
	20.3	16.014	299	10.85 113	12.974	336	54.95 93	6.046	474	19.85 70	14.82	69	19.91 49
	30.2	16.313	297	11.98 150	13.310	335	54.02 87	6.520	471	19.15 42	15.51	68	19.42 9
5	10.2	16.610	288	13.48 182	13.645	329	53.15 78	6.991	461	18.73 11	16.19	66	19.33 30
	20.2	16.898	272	15.30 208	13.974	316	52.37 65	7.452	441	18.62 21	16.85	62	19.63 69
	30.2	17.170	250	17.38 227	14.290	295	51.72 50	7.893	410	18.83 53	17.47	58	20.32 108
6	9.1	17.420	220	19.65 239	14.585	267	51.22 34	8.303	371	19.36 83	18.05	52	21.40 143
	19.1	17.640	187	22.04 245	14.853	233	50.88 15	8.674	322	20.19 112	18.57	44	22.83 175
	29.1	17.827	147	24.49 243	15.085	192	50.73 3	8.996	264	21.31 138	19.01	36	24.58 203
7	9.0	17.974	105	26.92 235	15.277	147	50.76 22	9.260	200	22.69 159	19.37	27	26.61 225
	19.0	18.079	59	29.27 223	15.424	98	50.98 38	9.460	130	24.28 175	19.64	16	28.86 239
	28.9	18.138	13	31.50 206	15.522	48	51.36 52	9.590	59	26.03 186	19.80	6	31.25 247
8	7.9	18.151	31	33.56 184	15.570	3	51.88 63	9.649	13	27.89 190	19.86	5	33.72 246
	17.9	18.120	73	35.40 159	15.567	50	52.51 72	9.636	82	29.79 187	19.81	14	36.18 237
	27.9	18.047	111	36.99 132	15.517	94	53.23 75	9.554	145	31.66 177	19.67	24	38.55 219
	6.9	17.936		38.31	15.423		53.98	9.409		33.43	19.43		40.74
9	16.9	17.793	143	39.33 102	15.292	131	54.73 75	9.208	201	35.02 159	19.12	31	42.66 192
	26.8	17.626	167	40.03 70	15.133	159	55.44 71	8.965	243	36.37 135	18.73	39	44.25 159
10	6.8	17.443	183	40.41 38	14.954	179	56.07 63	8.691	274	37.41 104	18.31	42	45.43 118
	16.8	17.253	190	40.46 5	14.768	186	56.60 53	8.401	290	38.12 71	17.86	45	46.16 73
			187	29		184	41		289	33		46	24
	26.7	17.066		40.17	14.584		57.01	8.112		38.45	17.40		46.40
11	5.7	16.890	176	39.54 63	14.413	171	57.27 26	7.838	274	38.39 6	16.97	43	46.14 26
	15.7	16.733	157	38.59 95	14.265	148	57.40 13	7.593	245	37.94 45	16.57	40	45.39 75
	25.7	16.603	130	37.31 128	14.147	118	57.39 1	7.391	202	37.13 81	16.24	33	44.17 122
12	5.6	16.505	98	35.75 156	14.067	80	57.25 14	7.240	151	35.97 116	15.98	26	42.54 163
			63	182		40	24		92	144		17	200
	15.6	16.442	25	33.93 202	14.027	3	57.01 35	7.148	30	34.53 168	15.81	7	40.54 227
	25.6	16.417	14	31.91 216	14.030	46	56.66 43	7.118	36	32.85 186	15.74	2	38.27 250
	35.6	16.431		29.75	14.076		56.23	7.154		30.99	15.76		35.77
平位		s 15.919		″ 19.94	s 13.038		″ 61.59	s 6.259		″ 34.81	s 15.086		″ 38.20
sec δ, tan δ		+ 1.060		+ 0.351	+ 1.131		− 0.529	+ 1.663		− 1.329	+ 2.491		− 2.281
2 回正中		7 月 22 日			7 月 22 日			7 月 23 日			7 月 23 日		
a	b	+ 0.1329		+ 0.0114	+ 1.1839		− 0.0175	+ 0.2295		− 0.0453	+ 0.2839		− 0.0779
a′	b′	+ 0.4858		+ 0.8741	+ 0.4970		+ 0.8677	+ 0.5117		+ 0.8592	+ 0.5122		+ 0.8589
FK3番號		752			753			755			754		

星名 / 等級 スペクトル型	ϑ Aqil 3.37 A0				ϰ Ceph 4.40 B9				31 o^1 Cygn 3.95 K0, B8				33 Cygn 4.32 A3			
世界時	赤經		赤緯		赤經		赤緯		赤經		赤緯		赤經		赤緯	
月 日	h m 20 8		° ′ −0 59		h m 20 10		° ′ +77 32		h m 20 11		° ′ +46 33		h m 20 12		° ′ +56 23	
	s		″		s		″		s		″		s		″	
1 1.6	22.844		19.29		44.41		47.40		49.932	36	81.74		3.496		53.22	
11.5	22.888	44	20.41	112	44.02	39	44.18	322	49.896	19	78.68	306	3.418	78	50.01	321
21.5	22.966	78	21.51	110	43.82	20	40.77	341	49.915	72	75.50	318	3.409	9	46.65	336
31.5	23.078	112	22.53	102	43.82	0	37.28	349	49.987	125	72.31	319	3.469	60	43.26	339
2 10.5	23.221	143	23.43	90	44.00	18	33.86	342	50.112	176	69.25	306	3.598	129	39.97	329
		171		73		38		324				283		195		306
20.4	23.392		24.16	51	44.38		30.62	292	50.288	223	66.42	248	3.793	256	36.91	271
3 1.4	23.590	198	24.67	26	44.92	54	27.70	251	50.511	266	63.94	204	4.049	312	34.20	226
11.4	23.812	222	24.93	3	45.62	70	25.19	198	50.777	302	61.90	152	4.361	359	31.94	173
21.4	24.055	243	24.90	32	46.45	83	23.21	141	51.079	333	60.38	94	4.720	396	30.21	114
31.3	24.317	262	24.58	60	47.37	92	21.80	78	51.412	355	59.44	34	5.116	424	29.07	51
		277				99				332						
4 10.3	24.594	288	23.98	88	48.36	102	21.02	14	51.767	368	59.10	27	5.540	439	28.56	13
20.3	24.882	295	23.10	111	49.38	101	20.88	50	52.135	374	59.37	86	5.979	444	28.69	75
30.2	25.177	296	21.99	132	50.39	98	21.38	110	52.509	369	60.23	141	6.423	435	29.44	134
5 10.2	25.473	291	20.67	147	51.37	91	22.48	167	52.878	355	61.64	192	6.858	415	30.78	188
20.2	25.764	279	19.20	158	52.28	81	24.15	217	53.233	332	63.56	234	7.273	383	32.66	235
30.2	26.043	262	17.62	163	53.09	69	26.32	259	53.565	299	65.90	271	7.656	341	35.01	274
6 9.1	26.305	236	15.99	162	53.78	55	28.91	295	53.864	259	68.61	298	7.997	291	37.75	305
19.1	26.541	207	14.37	159	54.33	40	31.86	321	54.123	213	71.59	317	8.288	231	40.80	328
29.1	26.748	170	12.78	149	54.73	24	35.07	339	54.336	160	74.76	327	8.519	167	44.08	341
7 9.1	26.918	130	11.29	137	54.97	6	38.46	347	54.496	103	78.03	329	8.686	98	47.49	346
19.0	27.048	87	9.92	121	55.03	10	41.93	350	54.599	46	81.32	324	8.784	27	50.95	343
28.9	27.135	42	8.71	105	54.93	28	45.43	341	54.645	15	84.56	311	8.811	45	54.38	331
8 7.9	27.177	2	7.66	86	54.65	43	48.84	328	54.630	71	87.67	291	8.766	113	57.69	313
17.9	27.175	44	6.80	67	54.22	59	52.12	305	54.559	125	90.58	265	8.653	177	60.82	288
27.9	27.131	82	6.13	47	53.63	72	55.17	277	54.434	174	93.23	234	8.476	236	63.70	256
9 6.9	27.049		5.66	29	52.91		57.94	242	54.260	217	95.57	196	8.240	287	66.26	219
16.9	26.934	115	5.37	11	52.07	84	60.36	202	54.043	249	97.53	156	7.953	327	68.45	177
26.8	26.794	140	5.26	6	51.12	95	62.38	157	53.794	275	99.09	112	7.626	357	70.22	130
10 6.8	26.637	157	5.32	21	50.10	102	63.95	107	53.519	287	100.21	64	7.269	376	71.52	81
16.8	26.471	166	5.53	38	49.03	107	65.02	54	53.232	292	100.85	14	6.893	381	72.33	28
		164				110										
26.8	26.307		5.91		47.93		65.56	1	52.940	284	100.99	37	6.512		72.61	27
11 5.7	26.153	154	6.43	52	46.84	109	65.55		52.656	267	100.62	88	6.136	376	72.34	81
15.7	26.016	137	7.09	66	45.77	107	64.96	59	52.389	240	99.74	138	5.780	356	71.53	136
25.7	25.905	111	7.87	78	44.76	101	63.80	116	52.149	206	98.36	186	5.452	328	70.17	187
12 5.6	25.824	81	8.77	90	43.85	91	62.10	170	51.943	164	96.50	229	5.165	287	68.30	234
		48		100		81		222						238		
15.6	25.776		9.77	108	43.04	66	59.88	267	51.779	118	94.21	265	4.927	181	65.96	275
25.6	25.764	12	10.85	111	42.38	50	57.21	303	51.661	67	91.56	293	4.746	118	63.21	306
35.6	25.788	24	11.96		41.88		54.18		51.594		88.63		4.628		60.15	

平位	s 24.920	″ 20.17	s 48.656	″ 37.40	s 52.007	″ 74.43	s 5.776	″ 44.83
sec δ, tan δ	+ 1.000	− 0.017	+ 4.636	+ 4.527	+ 1.455	+ 1.056	+ 1.807	+ 1.505
2 同正中	7 月 25 日		7 日 25 日		7 月 26 日		7 月 26 日	
a b	+ 0.1543	− 0.0006	− 0.1006	+ 0.1631	+ 0.0942	+ 0.0383	+ 0.0692	+ 0.0547
a′ b′	+ 0.5315	+ 0.8471	+ 0.5403	+ 0.8415	+ 0.5442	+ 0.8390	+ 0.5450	+ 0.8384
FK3番號	756		759		757		758	

星名 / 等級 スペクトル型	24 Vulp 5.45 K0				α^2 Capr 3.77 G5				β Capr 3.25 G0, A0				$\varkappa^1$ Sgtr 5.64 A0			
世界時	赤經		赤緯		赤經		赤緯		赤經		赤緯		赤經		赤緯	
月 日	h m 20 14		° ′ +24 29		h m 20 14		° ′ −12 42		h m 20 17		° ′ −14 57		h m 20 18		° ′ −42 13	
	s		″		s		″		s		″		s		″	
1 1.6	21.281		55.43		54.707		72.45		49.748		36.29		36.770		44.56	
11.5	21.292	11	53.07	236	54.752	45	72.87	42	49.792	44	36.57	28	36.818	48	43.21	135
21.5	21.342	50	50.66	241	54.833	81	73.24	37	49.871	79	36.79	22	36.915	97	41.75	146
31.5	21.430	88	48.28	238	54.947	114	73.53	29	49.984	113	36.93	14	37.058	143	40.21	154
2 10.5	21.554	124	46.03	225	55.093	146	73.70	17	50.129	145	36.96	3	37.244	186	38.62	159
		159		202		175		5		175		9		224		161
20.4	21.713		44.01		55.268		73.75		50.304		36.87		37.468		37.01	
3 1.4	21.905	192	42.30	171	55.470	202	73.63	12	50.506	202	36.62	25	37.729	261	35.40	161
11.4	22.126	221	40.98	132	55.697	227	73.34	29	50.732	226	36.22	40	38.022	293	33.83	157
21.4	22.373	247	40.09	89	55.945	248	72.86	48	50.982	250	35.64	58	38.343	321	32.31	152
31.3	22.643	270	39.68	41	56.213	268	72.20	66	51.251	269	34.90	74	38.689	346	30.88	143
		287		7		285		85		286		90		367		132
4 10.3	22.930		39.75		56.498		71.35		51.537		34.00		39.056		29.56	
20.3	23.230	300	40.32	57	56.795	297	70.36	99	51.837	300	32.97	103	39.438	382	28.38	118
30.2	23.538	308	41.35	103	57.100	305	69.24	112	52.145	308	31.84	113	39.830	392	27.38	100
5 10.2	23.844	306	42.80	145	57.407	307	68.03	121	52.455	310	30.64	120	40.226	396	26.58	80
20.2	24.144	300	44.63	183	57.711	304	66.77	126	52.763	308	29.42	122	40.616	390	26.00	58
		286		213		294		125		298		120		378		32
30.2	24.430		46.76		58.005		65.52		53.061		28.22		40.994		25.68	
6 9.1	24.694	264	49.13	237	58.281	276	64.30	122	53.342	281	27.07	115	41.351	357	25.61	7
19.1	24.930	236	51.66	253	58.534	253	63.16	114	53.599	257	26.03	104	41.677	326	25.82	21
29.1	25.132	202	54.29	263	58.757	223	62.14	102	53.827	228	25.10	93	41.966	289	26.29	47
7 9.1	25.295	163	56.95	266	58.943	186	61.25	89	54.019	192	24.32	78	42.209	243	27.02	73
		119		261		146		72		150		60		192		95
19.0	25.414		59.56		59.089		60.53		54.169		23.72		42.401		27.97	
29.0	25.487	73	62.07	251	59.191	102	59.97	56	54.275	106	23.28	44	42.536	135	29.12	115
8 7.9	25.513	26	64.42	235	59.246	55	59.58	39	54.335	60	23.03	25	42.611	75	30.43	131
17.9	25.492	21	66.56	214	59.256	10	59.37	21	54.348	13	22.93	10	42.627	16	31.83	140
27.9	25.427	65	68.46	190	59.222	34	59.30	7	54.317	31	22.99	6	42.585	42	33.28	145
		105		162		75		8		72		18		95		144
9 6.9	25.322		70.08		59.147		59.38		54.245		23.17		42.490		34 72	
16.9	25.183	139	71.38	130	59.038	109	59.57	19	54.137	108	23.46	29	42.347	143	36.08	136
26.8	25.017	166	72.36	98	58.901	137	59.86	29	54.001	136	23.82	36	42.167	180	37.30	122
10 6.8	24.831	186	72.98	62	58.746	155	60.21	35	53.846	155	24.24	42	41.960	207	38.33	103
16.8	24.636	195	73.24	26	58.581	165	60.62	41	53.680	166	24.69	45	41.737	223	39.12	79
		196		12		165		44		166		46		225		53
26.8	24.440		73.12		58.416		61.06		53.514		25.15		41.512		39.65	
11 5.7	24.252	188	72.63	49	58.261	155	61.53	47	53.357	157	25.61	46	41.297	215	39.89	24
15.7	24.080	172	71.77	86	58.123	138	62.00	47	53.218	139	26.06	45	41.104	193	39.83	6
25.7	23.931	149	70.54	123	58.010	113	62.49	49	53.103	115	26.49	43	40.941	163	39.48	35
12 5.6	23.811	120	68.99	155	57.928	82	62.97	48	53.019	84	26.90	41	40.819	122	38.85	63
		86		186		48		49		50		38		77		87
15.6	23.725		67.13		57.880		63.46		52.969		27.28		40.742		37.98	
25.6	23.675	50	65.02	211	57.869	11	63.93	47	52.955	14	27.63	35	40.713	29	36.90	108
35.6	23.665	10	62.74	228	57.894	25	64.37	44	52.979	24	27.95	32	40.734	21	35.65	125

平位	s 23.219	″ 51.00	s 56.908	″ 71.42	s 51.976	″ 34.79	s 39.720	″ 39.70
sec δ, tan δ	+ 1.099	+ 0.456	+ 1.025	− 0.226	+ 1.035	− 0.267	+ 1.350	− 0.908
2 同正中	7 月 26 日		7 月 26 日		7 月 27 日		7 月 27 日	
a b	+ 0.1280	+ 0.0168	+ 0.1658	− 0.0084	+ 0.1680	− 0.0101	+ 0.2031	− 0.0344
a′ b′	+ 0.5533	+ 0.8330	+ 0.5554	+ 0.8316	+ 0.5659	+ 0.8245	+ 0.5688	+ 0.8225
FK3番號	760		761		762		763	

星名 / 等級 / スペクトル型	γ Cygn 2.32 F 8p				α Pavo 2.12 B 3				† ρ Capr 4.96 F 0				ϑ Ceph 4.28 A 5			
世界時	赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯	
月 日	h m 20 20		° ′ +40 4		h m 20 21		° ′ −56 54		h m 20 25		° ′ −17 59		h m 20 28		° ′ +62 48	
	s		″		s		″		s		″		s		″	
1 1.6	11.045	26	42.07	286	9.916	37	65.27	214	37.808	37	63.05	8	36.24	16	29.33	315
11.6	11.019	20	39.21	297	9.953	105	63.13	228	37.845	73	63.13	2	36.08	7	26.18	335
21.5	11.039	68	36.24	298	10.058	170	60.85	234	37.918	107	63.15	8	36.01	2	22.83	344
31.5	11.107	114	33.26	286	10.228	231	58.51	236	38.025	140	63.07	18	36.03	10	19.39	339
2 10.5	11.221	159	30.40	265	10.459	286	56.15	232	38.165	171	62.89	30	36.13	18	16.00	321
20.4	11.380	201	27.75	231	10.745	337	53.83	223	38.336	198	62.59	44	36.31	26	12.79	291
3 1.4	11.581	239	25.44	190	11.082	381	51.60	211	38.534	224	62.15	58	36.57	34	9.88	250
11.4	11.820	272	23.54	141	11.463	421	49.49	193	38.758	248	61.57	73	36.91	40	7.38	199
21.4	12.092	302	22.13	85	11.884	454	47.56	173	39.006	270	60.84	87	37.31	45	5.39	142
31.3	12.394	323	21.28	29	12.338	482	45.83	148	39.276	288	59.97	100	37.76	49	3.97	80
4 10.3	12.717		20.99	29	12.820	501	44.35	121	39.564	302	58.97	110	38.25	51	3.17	16
20.3	13.056	339	21.28	86	13.321	513	43.14	91	39.866	312	57.87	117	38.76	52	3.01	48
30.3	13.401	345	22.14	138	13.834	515	42.23	58	40.178	316	56.70	120	39.28	51	3.49	109
5 10.2	13.745	344	23.52	186	14.349	508	41.65	23	40.494	314	55.50	121	39.79	50	4.58	166
20.2	14.080	335	25.38	227	14.857	490	41.42	12	40.808	306	54.29	115	40.29	46	6.24	217
30.2	14.396	316	27.65	260	15.347	461	41.54		41.114	290	53.14	107	40.75	41	8.41	260
6 9.1	14.686	290	30.25	286	15.808	421	42.01	47	41.404	267	52.07	95	41.16	35	11.01	296
19.1	14.942	256	33.11	304	16.229	370	42.84	83	41.671	238	51.12	81	41.51	29	13.97	323
29.1	15.157	215	36.15	312	16.599	310	43.99	115	41.909	201	50.31	64	41.80	20	17.20	342
7 9.1	15.325	168	39.27	315	16.909	242	45.43	144	42.110	161	49.67	46	42.00	13	20.62	351
19.0	15.443	118	42.42		17.151		47.13	170	42.271		49.21		42.13		24.13	
29.0	15.507	64	45.51	309	17.319	168	49.03	190	42.387	116	48.93	28	42.17	4	27.66	353
8 7.9	15.518	11	48.47	296	17.408	89	51.06	203	42.456	69	48.84	9	42.13	4	31.13	347
17.9	15.475	43	51.24	277	17.418	10	53.17	211	42.478	22	48.91	7	42.01	12	34.45	332
27.9	15.382	93	53.75	251	17.352	66	55.26	209	42.453	25	49.13	22	41.81	20	37.55	310
		138		221		139		200		66		34		27		283
9 6.9	15.244	179	55.96	187	17.213	202	57.26	183	42.387	103	49.47	43	41.54	34	40.38	247
16.9	15.065	210	57.83	148	17.011	254	59.09	159	42.284	133	49.90	48	41.20	39	42.85	208
26.8	14.855	233	59.31	106	16.757	293	60.68	127	42.151	154	50.38	52	40.81	43	44.93	163
10 6.8	14.622	247	60.37	61	16.464	316	61.95	92	41.997	165	50.90	52	40.38	45	46.56	113
16.8	14.375	250	60.98	15	16.148	322	62.87	51	41.832	168	51.42	51	39.93	47	47.69	61
26.8	14.125		61.13	33	15.826	312	63.38	8	41.664	160	51.93	46	39.46	47	48.30	6
11 5.7	13.880	245	60.80	81	15.514	286	63.46	35	41.504	143	52.39	42	38.99	46	48.36	52
15.7	13.651	229	59.99	128	15.228	247	63.11	77	41.361	120	52.81	37	38.53	43	47.84	108
25.7	13.444	207	58.71	172	14.981	195	62.34	115	41.241	90	53.18	31	38.10	38	46.76	163
12 5.7	13.269	175	56.99	213	14.786	135	61.19	151	41.151	56	53.49	25	37.72	34	45.13	215
		139														
15.6	13.130	98	54.86	247	14.651	69	59.68	179	41.095	20	53.74	20	37.38	27	42.98	259
25.6	13.032	54	52.39	273	14.582	1	57.89	203	41.075	17	53.94	13	37.11	20	40.39	296
35.6	12.978		49.66		14.581		55.86		41.092		54.07		36.91		37.43	
平位	s 13.017		″ 35.40		s 13.777		″ 58.97		s 40.066		″ 60.66		s 38.649		″ 19.73	
sec δ, tan δ	+ 1.307		+ 0.841		+ 1.832		− 1.535		+ 1.051		− 0.325		+ 2.188		+ 1.946	
2 回正中	7 月 28 日				7 月 28 日				7 月 29 日				7 月 30 日			
a b	+ 0.1074		+ 0.0322		+ 0.2368		− 0.0591		+ 0.1708		− 0.0129		+ 0.0499		+ 0.0784	
a′ b′	+ 0.5744		+ 0.8186		+ 0.5780		+ 0.8161		+ 0.5937		+ 0.8047		+ 0.6041		+ 0.7969	
FK3番號	765				764				766				767			

星名 / 等級 / スペクトル型	ε Delf 3.98 B 5				73 Drac 5.18 A 2p				α Indi 3.21 K 0				† β Delf *m* 3.72 F 5			
世界時	赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯	
月 日	h m 20 30		° ′ +11 6		h m 20 32		° ′ +74 45		h m 20 33		° ′ −47 29		h m 20 34		° ′ +14 23	
	s		″		s		″		s		″		s		″	
1 1.6	30.269	13	44.63	169	12.72	37	57.80	308	35.029	26	24.71	163	53.422	6	59.88	183
11.6	30.282	47	42.94	171	12.35	22	54.72	334	35.055	79	23.08	179	53.428	40	58.05	187
21.5	30.329	81	41.23	167	12.13	6	51.38	346	35.134	129	21.29	189	53.468	74	56.18	182
31.5	30.410	114	39.56	154	12.07	9	47.92	345	35.263	178	19.40	194	53.542	108	54.36	171
2 10.5	30.524	144	38.02	135	12.16	25	44.47	331	35.441	221	17.46	198	53.650	140	52.65	153
20.4	30.668	175	36.67	109	12.41	39	41.16	304	35.662	263	15.48	196	53.790	170	51.12	125
3 1.4	30.843	202	35.58	79	12.80	52	38.12	267	35.925	301	13.52	190	53.960	199	49.87	94
11.4	31.045	228	34.79	43	13.32	64	35.45	218	36.226	333	11.62	183	54.159	226	48.93	56
21.4	31.273	250	34.36	5	13.96	73	33.27	163	36.559	364	9.79	170	54.385	249	48.37	17
31.3	31.523	269	34.31	34	14.69	80	31.64	102	36.923	389	8.09	155	54.634	270	48.20	24
4 10.3	31.792		34.65		15.49		30.62		37.312		6.54		54.904		48.44	
20.3	32.076	284	35.37	72	16.32	83	30.24	38	37.720	408	5.17	137	55.189	285	49.10	66
30.3	32.370	294	36.45	108	17.17	85	30.50	26	38.142	422	4.02	115	55.484	295	50.14	104
5 10.2	32.668	298	37.84	139	18.01	84	31.38	88	38.570	428	3.12	90	55.784	300	51.52	138
20.2	32.963	295	39.50	166	18.80	79	32.84	146	38.996	426	2.50	62	56.082	298	53.21	169
30.2	33.249	286	41.38	188	19.53	73	34.84	200	39.411	415	2.18	32	56.371	289	55.14	193
6 9.1	33.519	270	43.41	203	20.17	64	37.29	245	39.805	394	2.16	2	56.644	273	57.25	211
19.1	33.765	246	45.53	212	20.70	53	40.13	284	40.170	365	2.46	30	56.893	249	59.47	222
29.1	33.982	217	47.69	216	21.12	42	43.28	315	40.495	325	3.06	60	57.113	220	61.75	228
7 9.1	34.164	182	49.81	212	21.41	29	46.64	336	40.773	278	3.96	90	57.297	184	64.03	228
19.0	34.306	142	51.86	205	21.56	15	50.14	350	40.997	224	5.12	116	57.441	144	66.24	221
29.0	34.405	99	53.78	192	21.57	1	53.69	355	41.160	163	6.50	138	57.542	101	68.33	209
8 7.9	34.459	54	55.54	176	21.44	13	57.22	353	41.259	99	8.06	156	57.598	56	70.27	194
17.9	34.468	9	57.10	156	21.17	27	60.63	341	41.293	34	9.73	167	57.609	11	72.02	175
27.9	34.435	33	58.45	135	20.78	39	63.86	323	41.262	31	11.45	172	57.577	32	73.54	152
		73		110		52		298		89		171		73		127
9 6.9	34.362	108	59.55	86	20.26	62	66.84	266	41.173	143	13.16	162	57.504	107	74.81	102
16.9	34.254	135	60.41	59	19.64	71	69.50	228	41.030	188	14.78	146	57.397	136	75.83	73
26.8	34.119	155	61.00	34	18.93	78	71.78	185	40.842	220	16.24	124	57.261	156	76.56	45
10 6.8	33.964	167	61.34	7	18.15	84	73.63	136	40.622	242	17.48	97	57.105	169	77.01	17
16.8	33.797	169	61.41	20	17.31	87	74.99	84	40.380	248	18.45	66	56.936	172	77.18	13
26.8	33.628	164	61.21	45	16.44	87	75.83	29	40.132	242	19.11	31	56.764	168	77.05	41
11 5.7	33.464	150	60.76	71	15.57	87	76.12	29	39.890	223	19.42	4	56.596	154	76.64	70
15.7	33.314	129	60.05	95	14.70	87	75.83	87	39.667	194	19.38	39	56.442	136	75.94	97
25.7	33.185	104	59.10	117	13.88	82	74.96	145	89.473	153	18.99	72	56.306	109	74.97	123
12 5.7	33.081	73	57.93	138	13.11	77	73.51	198	39.320	107	18.27	103	56.197	81	73.74	145
15.6	33.008		56.55		12.43	58	71.53	247	39.213	56	17.24	129	56.116	48	72.29	163
25.6	32.967	41	55.02	153	11.85	45	69.06	287	39.157	3	15.95	152	56.068	14	70.66	177
35.6	32.961	6	53.38	164	11.40		66.19		39.154		14.43		56.054		68.89	
平位	s 32.198		″ 42.47		s 16.116		″ 47.06		s 38.182		″ 17.98		s 55.322		″ 57.23	
sec δ, tan δ	+ 1.019		+ 0.196		+ 3.805		+ 3.671		+ 1.480		− 1.091		+ 1.032		+ 0.257	
2 回正中	7 月 30 日				7 月 31 日				7 月 31 日				7 月 31 日			
a b	+ 0.1430		+ 0.0080		− 0.0394		+ 0.1509		+ 0.2103		− 0.0452		+ 0.1400		+ 0.0107	
a′ b′	+ 0.6106		+ 0.7919		+ 0.6166		+ 0.7873		+ 0.6213		+ 0.7836		+ 0.6257		+ 0.7801	
FK3番號	768				770				769				771			

本初子午線正中時

星名		ϰ Delf		υ Capr		α Delf		α Cygn	
等級		5.23		5.33		3.86		1.33	
スペクトル型		G5		M0		B8		A2p	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 20 36	° ′ + 9 53	h m 20 36	° ′ −18 20	h m 20 37	° ′ +15 42	h m 20 39	° ′ +45 4
		s	″	s	″	s	″	s	″
1	1.6	22.588	17.70	49.588	16.93	0.262	51.03	29.341	53.63
	11.6	22.597 9	16.09 161	49.615 27	16.98 −5	0.263 1	49.15 188	29.276 65	50.78 285
	21.5	22.640 43	14.46 163	49.676 61	16.95 −3	0.300 37	47.23 192	29.261 −15	47.76 302
	31.5	22.717 77	12.89 157	49.772 96	16.83 12	0.371 71	45.34 189	29.298 37	44.68 308
2	10.5	22.826 109 140	11.42 147 127	49.900 128 160	16.59 24 37	0.476 105 137	43.56 178 158	29.385 87 137	41.67 301 284
	20.5	22.966 170	10.15 103	50.060 188	16.22 50	0.613 168	41.98 132	29.522 186	38.83 254
3	1.4	23.136 198	9.12 72	50.248 215	15.72 65	0.781 198	40.66 100	29.708 231	36.29 214
	11.4	23.334 224	8.40 39	50.463 241	15.07 80	0.979 225	39.66 62	29.939 271	34.15 168
	21.4	23.558 247	8.01 −1	50.704 263	14.27 94	1.204 248	39.04 22	30.210 306	32.47 113
	31.3	23.805 267	8.00 −36	50.967 283	13.33 107	1.452 270	38.82 −21	30.516 335	31.34 55
4	10.3	24.072 283	8.36 74	51.250 299	12.26 117	1.722 285	39.03 63	30.851 355	30.79 −4
	20.3	24.355 293	9.10 107	51.549 312	11.09 123	2.007 297	39.66 102	31.206 366	30.83 63
	30.3	24.648 299	10.17 139	51.861 317	9.86 127	2.304 301	40.68 138	31.572 369	31.46 118
5	10.2	24.947 297	11.56 165	52.178 317	8.59 126	2.605 299	42.06 169	31.941 362	32.64 170
	20.2	25.244 288	13.21 185	52.495 311	7.33 121	2.904 290	43.75 195	32.303 345	34.34 215
	30.2	25.532 274	15.06 200	52.806 296	6.12 113	3.194 274	45.70 214	32.648 319	36.49 253
6	9.2	25.806 251	17.06 209	53.102 275	4.99 99	3.468 250	47.84 226	32.967 284	39.02 285
	19.1	26.057 222	19.15 211	53.377 246	4.00 85	3.718 222	50.10 233	33.251 243	41.87 307
	29.1	26.279 188	21.26 208	53.623 211	3.15 67	3.940 185	52.43 233	33.494 194	44.94 321
7	9.1	26.467 148	23.34 200	53.834 172	2.48 48	4.125 146	54.76 228	33.688 141	48.15 328
	19.0	26.615 106	25.34 188	54.006 127	2.00 29	4.271 102	57.04 216	33.829 85	51.43 326
	29.0	26.721 61	27.22 171	54.133 80	1.71 10	4.373 57	59.20 201	33.914 −28	54.69 317
8	7.9	26.782 −17	28.93 152	54.213 −32	1.61 −7	4.430 −12	61.21 182	33.942 −30	57.86 301
	17.9	26.799 −27	30.45 130	54.245 −13	1.68 24	4.442 −32	63.03 160	33.912 −85	60.87 279
	27.9	26.772 −66	31.75 107	54.232 −57	1.92 −36	4.410 −72	64.63 134	33.827 −134	63.66 251
9	6.9	26.706 −101	32.82 82	54.175 −95	2.28 −46	4.338 −108	65.97 108	33.693 −180	66.17 218
	16.9	26.605 −130	33.64 57	54.080 −126	2.74 −53	4.230 −136	67.05 −80	33.513 −216	68.35 −180
	26.9	26.475 −150	34.21 32	53.954 −148	3.27 −55	4.094 −157	67.85 −50	33.297 −244	70.15 −138
10	6.8	26.325 −163	34.53 −6	53.806 −162	3.82 −57	3.937 −170	68.35 −21	33.053 −263	71.53 −93
	16.8	26.162 −166	34.59 −18	53.644 −166	4.39 −54	3.767 −174	68.56 −9	32.790 −272	72.46 −45
	26.8	25.996 −161	34.41 −44	53.478 −160	4.93 −51	3.593 −169	68.47 −40	32.518 −270	72.91 −5
11	5.7	25.835 −149	33.97 −68	53.318 −146	5.44 −44	3.424 −157	68.07 −69	32.248 −260	72.86 −56
	15.7	25.686 −129	33.29 −90	53.172 −124	5.88 −39	3.267 −138	67.38 −97	31.988 −240	72.30 −106
	25.7	25.557 −104	32.39 −112	53.048 −96	6.27 −32	3.129 −113	66.41 −124	31.748 −212	71.24 −154
12	5.7	25.453 −74	31.27 −131	52.952 −64	6.59 −25	3.016 −83	65.17 −148	31.536 −178	69.70 −198
	15.6	25.379	29.96	52.888 −29	6.84 −18	2.933 −52	63.69 −167	31.358 −137	67.72 −239
	25.6	25.336 −43	28.50 −146	52.859 −7	7.02 −10	2.881 −17	62.02 −182	31.221 −93	65.33 −269
	35.6	25.326 −10	26.94 −156	52.866	7.12	2.864	60.20	31.128	62.64
平位		s 24.506	″ 15.88	s 51.821	″ 13.83	s 2.149	″ 48.19	s 31.275	″ 45.90
sec δ, tan δ		+ 1.015	+ 0.174	+ 1.053	− 0.331	+ 1.039	+ 0.281	+ 1.416	+ 1.003
2回正中		8月 1日		8月 1日		8月 1日		8月 2日	
a	b	+ 0.1443	+ 0.0073	+ 0.1704	− 0.0140	+ 0.1388	+ 0.0119	+ 0.1020	+ 0.0429
a′	b′	+ 0.6307	+ 0.7760	+ 0.6323	+ 0.7748	+ 0.6328	+ 0.7743	+ 0.6412	+ 0.7674
FK3番號		772		773		774		777	

本初子午線正中時

星名		β Pavo		η Indi		δ Delf		ψ Capr	
等級		3.60		4.70		4.53		4.26	
スペクトル型		A5		F0		A5		F8	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 20 39	° ′ −66 24	h m 20 39	° ′ −52 7	h m 20 40	° ′ +14 52	h m 20 42	° ′ −25 28
		s	″	s	″	s	″	s	″
1	1.6	51.26	31.59	52.839	29.34	48.725	23.92	44.619	29.29
	11.6	51.24 −2	29.04 255	52.852 13	27.47 187	48.725 0	22.10 182	44.640 21	28.93 36
	21.5	51.30 6	26.30 274	52.922 70	25.44 203	48.758 33	20.23 187	44.699 59	28.45 48
	31.5	51.46 16	23.47 283	53.049 127	23.29 215	48.826 68	18.39 184	44.794 95	27.87 58
2	10.5	51.71 25 32	20.60 287 283	53.229 180 230	21.07 222 223	48.927 101 134	16.67 172 155	44.923 129 162	27.17 70 81
	20.5	52.03 41	17.77 272	53.459 277	18.84 220	49.061 164	15.12 128	45.085 192	26.36 92
3	1.4	52.44 46	15.05 257	53.736 319	16.64 212	49.225 194	13.84 96	45.277 222	25.44 102
	11.4	52.90 53	12.48 235	54.055 357	14.52 202	49.419 222	12.88 59	45.499 248	24.42 111
	21.4	53.43 57	10.13 210	54.412 391	12.50 186	49.641 246	12.29 20	45.747 272	23.31 120
	31.3	54.00 57 62	8.03 179	54.803 391 419	10.64 168	49.887 267	12.09 −22	46.019 294	22.11 126
4	10.3	54.62 65	6.24 145	55.222 441	8.96 145	50.154 283	12.31 64	46.313 312	20.85 128
	20.3	55.27 67	4.79 108	55.663 458	7.51 119	50.437 295	12.95 101	46.625 325	19.57 129
	30.3	55.94 68	3.71 69	56.121 465	6.32 91	50.732 301	13.96 138	46.950 332	18.28 124
5	10.2	56.62 67	3.02 26	56.586 463	5.41 59	51.033 299	15.34 168	47.282 333	17.04 117
	20.2	57.29 65	2.76 15	57.049 453	4.82 25	51.332 291	17.02 192	47.615 327	15.87 106
	30.2	57.94 62	2.91 58	57.502 431	4.57 −8	51.623 276	18.94 212	47.942 314	14.81 90
6	9.2	58.56 57	3.49 98	57.933 400	4.65 44	51.899 253	21.06 224	48.256 291	13.91 72
	19.1	59.13 50	4.47 137	58.333 358	5.09 76	52.152 224	23.30 230	48.547 263	13.19 53
	29.1	59.63 43	5.84 171	58.691 307	5.85 108	52.376 189	25.60 230	48.810 227	12.66 32
7	9.1	60.06 34	7.55 201	58.998 249	6.93 137	52.565 149	27.90 224	49.037 186	12.34 9
	19.0	60.40	9.56	59.247	8.30	52.714	30.14	49.223	12.25 −12
	29.0	60.65 25	11.81 225	59.430 183	9.89 159	52.821 107	32.27 213	49.363 140	12.37 31
8	7.9	60.79 14	14.22 241	59.543 113	11.67 178	52.882 61	34.25 198	49.454 91	12.68 49
	17.9	60.83 −4	16.72 250	59.586 43	13.57 190	52.898 16	36.04 179	49.495 −41	13.17 62
	27.9	60.76 −7 17	19.20 248 239	59.558 −28 93	15.52 195 191	52.870 −28 68	37.60 156 132	49.487 −8 54	13.79 74
9	6.9	60.59 26	21.59 220	59 465 154	17.43 181	52.802 103	38.92 106	49.433 94	14.53 79
	16.9	60.33 33	23.79 193	59.311 203	19.24 164	52.699 133	39.98 78	49.339 128	15.32 81
	26.9	60.00 39	25.72 158	59.108 241	20.88 138	52.566 154	40.76 49	49.211 153	16.13 79
10	6.8	59.61 44	27.30 115	58.867 266	22.26 108	52.412 167	41.25 −20	49.058 169	16.92 73
	16.8	59.17 45	28.45 68	58.601 277	23.34 72	52.245 172	41.45 −8	48.889 174	17.65 64
	26.8	58.72 46	29.13 −18	58.324 272	24.06 −34	52.073 168	41.37 −39	48.715 170	18.29 52
11	5.7	58.26 42	29.31 −33	58.052 254	24.40 −6	51.905 156	40.98 −67	48.545 155	18.81 38
	15.7	57.84 39	28.98 −83	57.798 223	24.34 −46	51.749 137	40.31 −94	48.390 134	19.19 25
	25.7	57.45 32	28.15 −132	57.575 182	23.83 −83	51.612 114	39.37 −120	48.256 106	19.44 −10
12	5.7	57.13 25	26.83 −174	57.393 132	23.05 −118	51.498 84	38.17 −144	48.150 72	19.54 −3
	15.6	56.88	25.09	57.261	21.87	51.414	36.73	48.078 −36	19.51
	25.6	56.71 −17	22.98 −211	57.183 −78	20.39 −148	51.361 −53	35.11 −162	48.042 −1	19.34 −17
	35.6	56.63 −8	20.58 −240	57.163 −20	18.65 −174	51.341 −20	33.35 −176	48.043	19.05 −29
平位		s 56.222	″ 22.81	s 56.247	″ 21.58	s 50.604	″ 21.28	s 46.974	″ 24.68
sec δ, tan δ		+ 2.498	− 2.290	+ 1.629	− 1.286	+ 1.035	+ 0.266	+ 1.108	− 0.476
2回正中		8月 2日		8月 2日		8月 2日		8月 2日	
a	b	+ 0.2703	− 0.0981	+ 0.2190	− 0.0551	+ 0.1398	+ 0.0114	+ 0.1774	− 0.0207
a′	b′	+ 0.6426	+ 0.7662	+ 0.6426	+ 0.7662	+ 0.6456	+ 0.7637	+ 0.6520	+ 0.7582
FK3番號		775		776		778		779	

星名	ε Cygn		6 H. Ceph		η Ceph		ε Aqar	
等級	2.64		4.63		3.59		3.83	
スペクトル型	K0		G0		K0		A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 20 43	° ′ +33 45	h m 20 43	° ′ +57 22	h m 20 44	° ′ +61 36	h m 20 44	° ′ − 9 41
	s	″	s	″	s	″	s	″
1 1.6	54.762	40.36	55.577	51.02	6.93	85.02	36.652	69.27
11.6	54.727 35	37.83 253	55.444 133	48.02 300	6.76 17	82.02 300	36.668 16	69.81 54
21.5	54.733 6	35.18 265	55.376 68	44.79 323	6.66 10	78.78 324	36.717 49	70.30 49
31.5	54.779 46	32.50 268	55.378 2	41.46 333	6.65 1	75.43 335	36.799 82	70.69 39
2 10.5	54.868 89	29.90 260	55.450 72	38.15 331	6.72 7	72.08 335	36.912 113	70.97 28
	129	242	142	316	15	320	144	12
20.5	54.997	27.48	55.592	34.99	6.87	68.88	37.056	71.09 —
3 1.4	55.166 169	25.34 214	55.802 210	32.10 289	7.10 23	65.94 294	37.228 172	71.04 5
11.4	55.371 205	23.57 177	56.074 272	29.60 250	7.40 30	63.38 256	37.427 199	70.79 25
21.4	55.610 239	22.25 132	56.402 328	27.58 202	7.76 36	61.30 208	37.651 224	70.32 47
31.3	55.880 270	21.43 82	56.778 376	26.11 147	8.18 42	59.76 154	37.900 249	69.64 68
	294	30	413	88	46	92	268	89
4 10.3	56.174	21.13 —	57.191	25.23	8.64	58.84	38.168	68.75
20.3	56.487 313	21.37 24	57.630 439	24.99 24	9.13 49	58.54 30	38.454 286	67.67 108
30.3	56.813 326	22.14 77	58.084 454	25.37 38	9.63 50	58.89 35	38.752 298	66.43 124
5 10.2	57.143 330	23.41 127	58.538 454	26.36 99	10.14 51	59.84 95	39.058 306	65.07 136
20.2	57.470 327	25.12 171	58.981 443	27.91 155	10.63 49	61.37 153	39.364 306	63.64 143
	315	211	419	206	46	205	301	147
30.2	57.785	27.23	59.400	29.97	11.09	63.42	39.665	62.17
6 9.2	58.081 296	29.66 243	59.784 384	32.47 250	11.51 42	65.93 251	39.953 288	60.72 145
19.1	58.349 268	32.35 269	60.121 337	35.34 287	11.87 36	68.81 288	40.220 267	59.33 139
29.1	58.582 233	35.21 286	60.404 283	38.49 315	12.18 31	72.00 319	40.461 241	58.04 129
7 9.1	58.775 193	38.17 296	60.624 220	41.84 335	12.41 23	75.39 339	40.669 208	56.88 116
	148	298	152	346	16	353	170	99
19.0	58.923	41.15	60.776 81	45.30	12.57 8	78.92	40.839	55.89
29.0	59.022 99	44.09 294	60.857 9	48.79 349	12.65 1	82.48 356	40.965 126	55.07 82
8 7.9	59.070 48	46.92 283	60.866 9	52.23 344	12.64 1	86.01 353	41.047 82	54.44 63
17.9	59.068 2	49.58 266	60.803 63	55.55 332	12.56 8	89.42 341	41.084 37	54.00 44
27.9	59.018 50	52.01 243	60.671 132	58.66 311	12.40 16	92.64 322	41.075 9	53.75 25
	95	216	195	286	23	297	50	9
9 6.9	58.923	54.17	60.476	61.52	12.17	95.61	41.025	53.66 —
16.9	58.789 134	56.01 184	60.224 252	64.04 252	11.88 29	98.24 263	40.939 86	53.73 7
26.9	58.622 167	57.51 150	59.925 299	66.19 215	11.53 35	100.51 227	40.822 117	53.93 20
10 6.8	58.430 192	58.63 112	59.588 337	67.90 171	11.14 39	102.33 182	40.682 140	54.24 31
16.8	58.222 208	59.34 71	59.224 364	69.13 123	10.72 42	103.68 135	40.529 153	54.64 40
	215	30	378	73	44	83	158	46
26.8	58.007	59.64 —	58.846	69.86	10.28	104.51	40.371	55.10
11 5.7	57.794 213	59.49 15	58.464 382	70.04 18	9.84 44	104.80 29	40.217 154	55.61 51
15.7	57.591 203	58.91 58	58.092 372	69.67 37	9.40 44	104.52 28	40.075 142	56.17 56
25.7	57.406 185	57.89 102	57.740 352	68.75 92	8.99 41	103.67 85	39.952 123	56.75 58
12 5.7	57.246 160	56.46 143	57.420 320	67.28 147	8.61 38	102.26 141	39.855 97	57.34 59
	130	180	280	198	33	193	67	60
15.6	57.116	54.66	57.140	65.30	8.28	100.33	39.788	57.94
25.6	57.020 96	52.52 214	56.911 229	62.86 244	8.00 28	97.92 241	39.752 36	58.53 59
35.6	56.963 57	50.12 240	56.739 172	60.05 281	7.79 21	95.11 281	39.750 2	59.10 57
平位	s 56.608	″ 34.36	s 57.699	″ 41.53	s 9.179	″ 75.03	s 38.730	″ 67.23
sec δ, tan δ	+ 1.203	+ 0.668	+ 1.855	+ 1.562	+ 2.104	+ 1.851	+ 1.015	− 0.171
2 回正中	8 月 3 日		8 月 3 日		8 月 3 日		8 月 3 日	
a b	+ 0.1197	+ 0.0292	+ 0.0747	+ 0.0683	+ 0.0602	+ 0.0810	+ 0.1619	− 0.0075
a′ b′	+ 0.6559	+ 0.7549	+ 0.6559	+ 0.7548	+ 0.6566	+ 0.7543	+ 0.6582	+ 0.7529
FK3番號	780		782		783		781	

星名	† λ Cygn *m*		β Indi		32 Vulp		ν Cygn	
等級	4.47		3.72		5.24		4.04	
スペクトル型	B5		K0		K5		A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 20 45	° ′ +36 16	h m 20 50	° ′ −58 39	h m 20 52	° ′ +27 50	h m 20 55	° ′ +40 56
	s	″	s	″	s	″	s	″
1 1.6	11.664	68.98	23.034	70.76	8.480	42.17	3.168	70.13
11.6	11.621 43	66.38 260	23.015 19	68.59 217	8.449 31	39.88 229	3.101 67	67.47 266
21.5	11.620 1	63.64 274	23.065 50	66.22 237	8.455 6	37.48 240	3.078 23	64.64 283
31.5	11.661 41	60.86 278	23.182 117	63.71 251	8.499 44	35.06 242	3.101 23	61.74 290
2 10.5	11.746 85	58.15 271	23.364 182	61.14 257	8.581 82	32.71 235	3.170 69	58.83 286
	127	252	243	258	119	217	116	271
20.5	11.873 169	55.63 225	23.607 300	58.56 254	8.700 156	30.54 190	3.286 161	56.17 244
3 1.4	12.042 207	53.38 188	23.907 351	56.02 245	8.856 190	28.64 157	3.447 204	53.73 208
11.4	12.249 242	51.50 142	24.258 399	53.57 230	9.046 223	27.07 114	3.651 244	51.65 164
21.4	12.491 273	50.08 92	24.657 440	51.27 210	9.269 252	25.93 68	3.895 280	50.01 112
31.4	12.764 300	49.16 38	25.097 476	49.17 188	9.521 277	25.25 19	4.175 308	48.89 58
10.3	13.064	48.78 —	25.573	47.29	9.798	25.06 —	4.483	48.31 1
4 20.3	13.383 319	48.95 17	26.077 504	45.69 160	10.094 296	25.37 31	4.815 332	48.30 56
30.3	13.715 332	49.66 71	26.602 525	44.40 129	10.405 311	26.17 80	5.162 347	48.86 110
5 10.2	14.052 337	50.89 123	27.137 535	43.45 95	10.722 317	27.43 126	5.515 353	49.96 160
20.2	14.385 333	52.58 169	27.673 536	42.87 58	11.038 316	29.10 167	5.866 351	51.56 204
	321	210	524	20	308	202	339	
30.2	14.706	54.68	28.197	42.67 —	11.346	31.12	6.205	53.60
6 9.2	15.006 300	57.12 244	28.699 502	42.86 19	11.637 291	33.44 232	6.523 318	56.02 242
19.1	15.278 272	59.83 271	29.167 468	43.44 58	11.904 267	35.98 254	6.812 289	58.75 273
29.1	15.514 236	62.73 290	29.587 420	44.39 95	12.140 236	38.68 270	7.064 252	61.71 296
7 9.1	15.709 195	65.75 302	29.951 364	45.69 130	12.338 198	41.45 277	7.273 209	64.81 310
	148	305	296	161	156	278	160	317
19.1	15.857 98	68.80	30.247	47.30	12.494	44.23	7.433	67.98
29.0	15.955 46	71.82 302	30.469 222	49.16 186	12.605 111	46.95 272	7.541 108	71.15 317
8 7.9	16.001 5	74.73 291	30.611 142	51.22 206	12.667 62	49.56 261	7.594 53	74.25 310
17.9	15.996 54	77.48 275	30.671 60	53.42 220	12.682 15	52.00 244	7.594 0	77.20 295
27.9	15.942 101	80.01 253	30.647 24	55.65 223	12.650 32	54.21 221	7.540 54	79.94 274
		225	101	220	76	196	102	248
6.9	15.841	82.26	30.546	57.85	12.574	56.17	7.438	82.42
9 16.9	15.700 141	84.20 194	30.373 173	59.92 207	12.461 113	57.83 166	7.293 145	84.59 217
26.9	15.526 174	85.78 158	30.139 234	61.79 187	12.315 146	59.17 134	7.110 183	86.40 181
10 6.8	15.326 200	86.97 119	29.856 283	63.37 158	12.144 171	60.16 99	6.900 210	87.82 142
16.8	15.108 218	87.75 78	29.539 317	64.61 124	11.958 186	60.78 62	6.669 231	88.82 100
	225	34	333	83	194	23	241	54
26.8	14.883	88.09 —	29.206	65.44	11.764	61.01 —	6.428	89.36 6
11 5.8	14.660 223	87.99 10	28.873 333	65.83 39	11.571 193	60.85 16	6.185 243	89.42 41
15.7	14.446 214	87.43 56	28.557 316	65.77 6	11.387 184	60.30 55	5.950 235	89.01 90
25.7	14.250 196	86.41 102	28.272 285	65.25 52	11.218 169	59.35 95	5.730 220	88.11 136
12 5.7	14.079 171	84.97 144	28.031 241	64.29 96	11.073 145	58.04 131	5.534 196	86.75 180
	141	184	185	137	117	165	166	
15.6	13.938	83.13	27.846	62.92	10.956	56.39	5.368	84.95
25.6	13.833 105	80.94 219	27.722 124	61.20 172	10.870 86	54.44 195	5.236 132	82.77 218
35.6	13.766 67	78.48 246	27.666 56	59.18 202	10.818 52	52.27 217	5.145 91	80.28 249
平位	s 13.514	″ 62.55	s 26.919	″ 61.41	s 10.287	″ 37.21	s 4.998	″ 62.80
sec δ, tan δ	+ 1.241	+ 0.734	+ 1.923	− 1.643	+ 1.131	+ 0.528	+ 1.324	+ 0.868
2 回正中	8 月 3 日		8 月 4 日		8 月 5 日		8 月 5 日	
a b	+ 0.1166	+ 0.0323	+ 0.2339	− 0.0741	+ 0.1276	+ 0.0240	+ 0.1116	+ 0.0400
a′ b′	+ 0.6601	+ 0.7512	+ 0.6770	+ 0.7360	+ 0.6825	+ 0.7309	+ 0.6918	+ 0.7221
FK3番號	784		785		786		788	

本初子午線正中時

星名		11 Aqar		α Octn		ζ Micr		ξ Cygn	
等級		6.26		5.24		5.35		3.92	
スペクトル型		G0		F2		F0		K5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
		h m	° ′	h m	° ′	h m	° ′	h m	° ′
月	日	20 57	− 4 56	20 57	−77 14	20 59	−38 50	21 2	+43 41
		s	″	s	″	s	″	s	″
1	1.6	34.939	53.42	52.21	34.45	20.940	73.18	51.694	81.07
	11.6	34.941 2	54.21 79	52.02 19	31.54 291	20.940 0	72.06 112	51.609 85	78.41 266
	21.5	34.975 34	54.95 74	51.99 3	28.40 314	20.982 42	70.77 129	51.569 40	75.55 286
	31.5	35.040 65	55.61 66	52.13 14	25.14 326	21.066 84	69.33 144	51.576 7	72.59 296
2	10.5	35.137 97	56.15 54	52.44 31	21.83 331	21.191 125	67.78 155	51.633 57	69.65 294
		127	38	46	327	163	165	106	280
	20.5	35.264	56.53 18	52.90 61	18.56 316	21.354 201	66.13 171	51.739 154	66.85 255
3	1.4	35.420 156	56.71 4	53.51 73	15.40 296	21.555 236	64.42 175	51.893 201	64.30 221
	11.4	35.605 185	56.67 29	54.24 85	12.44 272	21.791 268	62.67 176	52.094 243	62.09 177
	21.4	35.816 211	56.38 54	55.09 96	9.72 242	22.059 298	60.91 173	52.337 282	60.32 126
	31.4	36.052 236	55.84 79	56.05 103	7.30 206	22.357 325	59.18 167	52.619 315	59.06 71
		259							
4	10.3	36.311	55.05	57.08	5.24	22.682	57.51	52.934	58.35
	20.3	36.589 278	54.02 103	58.18 110	3.58 166	23.030 348	55.93 158	53.274 340	58.22 13
	30.3	36.881 292	52.79 123	59.32 114	2.35 123	23.395 365	54.48 145	53.631 357	58.66 44
5	10.2	37.182 301	51.39 140	60.48 116	1.58 77	23.771 376	53.19 129	53.996 365	59.65 99
	20.2	37.486 304	49.86 153	61.63 115	1.28 30	24.151 380	52.11 108	54.359 363	61.17 152
		300	161	113	19	376	84	353	198
	30.2	37.786	48.25	62.76	1.47	24.527	51.27	54.712	63.15
6	9.2	38.074 288	46.62 163	63.84 108	2.15 68	24.890 363	50.69 58	55.044 332	65.53 238
	19.1	38.345 271	45.01 161	64.83 99	3.28 113	25.232 342	50.39 30	55.347 303	68.24 271
	29.1	38.590 245	43.46 155	65.72 89	4.85 157	25.543 311	50.38 1	55.612 265	71.21 297
7	9.1	38.801 214	42.03 143	66.49 77	6.82 197	25.816 273	50.67 29	55.833 221	74.35 314
		176	130	61	229	228	56	170	323
	19.1	38.980	40.73	67.10	9.11	26.044	51.23	56.003	77.58
	29.0	39.115 135	39.61 112	67.55 45	11.68 257	26.220 176	52.04 81	56.120 117	80.83 325
8	8.0	39.206 91	38.68 93	67.83 28	14.44 276	26.341 121	53.08 104	56.181 61	84.02 319
	17.9	39.252 46	37.94 74	67.92 9	17.29 285	26.406 65	54.30 122	56.186 5	87.09 307
	27.9	39.254 2	37.40 54	67.82 10	20.14 285	26.413 7	55.65 135	56.136 50	89.96 287
		40	35	27	275	46	142	100	263
9	6.9	39.214	37.05 16	67.55 45	22.89 255	26.367 95	57.07 142	56.036 146	92.59 231
	16.9	39.137 77	36.89 0	67.10 59	25.44 225	26.272 138	58.49 136	55.890 186	94.90 197
	26.9	39.029 108	36.89 16	66.51 71	27.69 185	26.134 169	59.85 125	55.704 216	96.87 158
10	6.8	38.898 131	37.05 29	65.80 80	29.54 139	25.965 192	61.10 107	55.488 239	98.45 114
	16.8	38.751 147	37.34 40	65.00 86	30.93 86	25.773 204	62.17 86	55.249 252	99.59 69
		154							
	26.8	38.597	37.74	64.14	31.79 29	25.569	63.03	54.997	100.28
11	5.8	38.445 152	38.24 50	63.27 87	32.08 30	25.367 202	63.63 60	54.742 255	100.48 20
	15.7	38.303 142	38.82 58	62.41 86	31.78 88	25.176 191	63.96 33	54.492 250	100.18 30
	25.7	38.178 125	39.48 66	61.61 80	30.90 143	25.006 170	63.99 3	54.256 236	99.39 79
12	5.7	38.075 103	40.20 72	60.91 70	29.47 193	24.865 141	63.75 24	54.042 214	98.11 128
		76	77	59		105	52	185	173
	15.6	37.999 46	40.97	60.32	27.54 238	24.760	63.23	53.857	96.38
	25.6	37.953 46	41.76 79	59.88 44	25.16 273	24.694 66	62.47 76	53.707 150	94.24 214
	35.6	37.938 15	42.55 79	59.59 29	22.43	24.670 24	61.48 99	53.597 110	91.76 248
平位		s 36.916	″ 51.72	s 60.445	″ 23.36	s 23.611	″ 65.28	s 53.504	″ 73.17
sec δ, tan δ		+ 1.004	− 0.087	+ 4.528	− 4.415	+ 1.284	− 0.806	+ 1.383	+ 0.956
2回正中		8月6日		8月6日		8月7日		8月7日	
a	b	+ 0.1575	− 0.0040	+ 0.3633	− 0.2063	+ 0.1914	− 0.0379	+ 0.1088	+ 0.0456
a′	b′	+ 0.6997	+ 0.7144	+ 0.7009	+ 0.7132	+ 0.7052	+ 0.7090	+ 0.7160	+ 0.6981
FK3番號		789		787		790		792	

本初子午線正中時

星名		A Capr		61 Cygn *pr*		ν Aqar		Br 2777 Ceph	
等級		4.60		5.57		4.52		5.90	
スペクトル型		M0		K5		K0		B9	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
		h m	° ′	h m	° ′	h m	° ′	h m	° ′
月	日	21 3	−25 13	21 4	+38 28	21 6	−11 35	21 6	+77 53
		s	″	s	″	s	″	s	″
1	1.6	49.059	57.47	21.210	29.77	30.669	62.01	35.76	71.46
	11.6	49.059 0	57.13 34	21.155 55	27.32 245	30.666 3	62.42 41	35.15 61	68.72 274
	21.6	49.095 36	56.64 49	21.141 14	24.69 263	30.695 29	62.75 33	34.71 44	65.64 308
	31.5	49.166 71	56.02 62	21.170 29	22.00 269	30.756 61	62.98 23	34.45 26	62.33 331
2	10.5	49.271 105	55.28 74	21.243 73	19.34 266	30.848 92	63.08 10	34.38 7	58.92 341
		138	88	118	251	123	6	13	337
	20.5	49.403	54.40	21.361	16.83	30.971	63.02	34.51	55.55
3	1.4	49.580 171	53.39 101	21.522 161	14.58 225	31.123 152	62.79 23	34.84 33	52.34 321
	11.4	49.780 200	52.27 112	21.725 203	12.67 191	31.305 182	62.37 42	35.35 51	49.42 292
	21.4	50.010 230	51.03 124	21.968 243	11.20 147	31.514 209	61.74 63	36.02 67	46.91 251
	31.4	50.266 256	49.71 132	22.245 277	10.22 98	31.750 236	60.92 82	36.83 81	44.88 203
		282	140	306	45	259	103	92	147
4	10.3	50.548	48.31	22.551	9.77 12	32.009	59.89	37.75	43.41
	20.3	50.850 302	46.88 143	22.881 330	9.89 66	32.288 279	58.70 119	38.74 99	42.56 85
	30.3	51.169 319	45.43 145	23.228 347	10.55 118	32.584 296	57.36 134	39.78 104	42.33 23
5	10.3	51.499 330	44.03 140	23.582 354	11.73 168	32.891 307	55.92 144	40.82 104	42.72 39
	20.2	51.834 335	42.69 134	23.936 354	13.41 210	33.201 310	54.42 150	41.84 102	43.72 100
		332	121	343		309	152	96	157
	30.2	52.166	41.48	24.279	15.51	33.510	52.90	42.80	45.29
6	9.2	52.487 321	40.41 107	24.605 326	17.99 248	33.810 300	51.41 149	43.67 87	47.37 208
	19.1	52.790 303	39.53 88	24.903 298	20.76 277	34.091 281	50.00 141	44.43 76	49.89 252
	29.1	53.068 278	38.86 67	25.167 264	23.76 300	34.349 258	48.70 130	45.06 63	52.79 290
7	9.1	53.312 244	38.41 45	25.389 222	26.90 314	34.576 227	47.56 114	45.53 47	55.99 320
		205	20	176	320	190	97	32	341
	19.1	53.517	38.21 1	25.565	30.10	34.766	46.59	45.85 15	59.40
	29.0	53.677 160	38.23 2	25.691 126	33.30 320	34.915 149	45.81 78	46.00 3	62.95 355
8	8.0	53.789 112	38.47 24	25.764 73	36.41 311	35.019 104	45.24 57	45.97 19	66.55 360
	17.9	53.852 63	38.91 44	25.784 20	39.38 297	35.077 58	44.87 37	45.78 36	70.13 358
	27.9	53.865 13	39.52 61	25.754 30	42.15 277	35.090 13	44.70 17	45.42 51	73.60 347
		34	74	78	251	30	1		329
9	6.9	53.831	40.26	25.676	44.66	35.060	44.71	44.91	76.89
	16.9	53.755 76	41.09 83	25.555 121	46.87 221	34.991 69	44.87 16	44.25 66	79.93 304
	26.9	53.644 111	41.96 87	25.397 158	48.73 186	34.890 101	45.16 29	43.47 78	82.66 273
10	6.8	53.504 140	42.83 87	25.212 185	50.21 148	34.763 127	45.56 40	42.57 90	85.00 234
	16.8	53.346 158	43.65 82	25.005 206	51.27 106	34.619 144	46.04 48	41.59 98	86.91 191
		188	74	217	63	153	52	104	142
	26.8	53.178	44.39	24.789	51.90	34.466	46.56	40.55	88.33
11	5.8	53.011 167	45.01 62	24.570 219	52.07 17	34.314 152	47.12 56	39.47 108	89.21 88
	15.7	52.853 158	45.50 49	24.358 212	51.77 30	34.171 143	47.69 57	38.37 110	89.52 31
	25.7	52.713 140	45.84 34	24.160 198	51.01 76	34.042 129	48.26 57	37.30 107	89.23 29
12	5.7	52.597 116	46.03 19	23.984 176	49.81 120	33.936 106	48.82 56	36.27 103	88.36 87
		86	4	148	162	80	53	95	146
	15.7	52.511	46.07 12	23.836	48.19	33.856	49.35	35.32	86.90
	25.6	52.458 53	45.95 26	23.720 116	46.19 200	33.805 51	49.85 50	34.47 85	84.90 200
	35.6	52.440 18	45.69	23.642 78	43.90 229	33.786 19	50.29 44	33.75 72	82.42 248
平位		s 51.334	″ 51.49	s 22.997	″ 23.01	s 32.697	″ 58.53	s 39.207	″ 59.23
sec δ, tan δ		+ 1.105	− 0.471	+ 1.277	+ 0.795	+ 1.021	− 0.205	+ 4.771	+ 4.665
2回正中		8月8日		8月8日		8月8日		8月8日	
a	b	+ 0.1752	− 0.0226	+ 0.1166	+ 0.0382	+ 0.1627	− 0.0099	− 0.0601	+ 0.2262
a′	b′	+ 0.7189	+ 0.6951	+ 0.7205	+ 0.6935	+ 0.7270	+ 0.6866	+ 0.7273	+ 0.6863
FK3番號		791		793		794		795	

星名 / 等級 スペクトル型	† Grb 3415 Ceph *m* 5.65 B2				ζ Cygn 3.40 K0				23 G. Indi 5.84 A5				† τ Cygn 3.82 F0			
世界時	赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯	
月 日	h m 21 10		° ′ +59 45		h m 21 10		° ′ +29 59		h m 21 11		° ′ −53 29		h m 21 12		° ′ +37 48	
	s		″		s		″		s		″		s		″	
1 1.6	20.682	193	31.06	279	31.307	53	52.26	226	43.197	41	57.17	185	31.463	74	26.99	244
11.6	20.489	126	28.27	308	31.254	16	50.00	240	43.156	17	55.32	209	31.389	35	24.55	264
21.6	20.363	54	25.19	326	31.238	21	47.60	245	43.173	73	53.23	226	31.354	51	21.91	272
31.5	20.309	20	21.93	329	31.259	60	45.15	240	43.246	128	50.97	239	31.361	94	19.19	270
2 10.5	20.329	96	18.64	323	31.319	98	42.75	226	43.374	181	48.58	246	31.412		16.49	257
20.5	20.425	171	15.41	301	31.417	137	40.49	202	43.555	233	46.12	248	31.506	138	13.92	234
3 1.4	20.596	243	12.40	269	31.554	175	38.47	170	43.788	279	43.64	244	31.644	181	11.58	201
11.4	20.839	309	9.71	227	31.729	209	36.77	129	44.067	324	41.20	236	31.825	220	9.57	160
21.4	21.148	367	7.44	175	31.938	242	35.48	84	44.391	365	38.84	224	32.045	257	7.97	112
31.4	21.515	414	5.69	118	32.180	271	34.64	36	44.756	400	36.60	206	32.302	288	6.85	60
4 10.3	21.929	451	4.51	58	32.451	294	34.28	16	45.156	431	34.54	185	32.590	314	6.25	5
20.3	22.380	475	3.93	6	32.745	312	34.44	65	45.587	455	32.69	159	32.904	333	6.20	49
30.3	22.855	484	3.99	66	33.057	321	35.09	112	46.042	470	31.10	129	33.237	343	6.69	102
5 10.3	23.339	480	4.65	125	33.378	324	36.21	157	46.512	477	29.81	96	33.580	344	7.71	150
20.2	23.819	462	5.90	179	33.702	318	37.78	194	46.989	474	28.85	61	33.924	337	9.21	194
30.2	24.281	431	7.69	228	34.020	305	39.72	227	47.463	460	28.24	24	34.261	322	11.15	232
6 9.2	24.712	387	9.97	268	34.325	281	41.99	252	47.923	434	28.00	15	34.583	296	13.47	262
19.1	25.099	335	12.65	302	34.606	253	44.51	270	48.357	398	28.15	52	34.879	265	16.09	286
29.1	25.434	272	15.67	327	34.859	216	47.21	282	48.755	351	28.67	89	35.144	224	18.95	301
7 9.1	25.706	204	18.94	345	35.075	175	50.03	285	49.106	296	29.56	122	35.368	180	21.96	309
19.1	25.910	129	22.39	353	35.250	130	52.88	282	49.402	233	30.78	152	35.548	130	25.05	311
29.0	26.039	54	25.92	354	35.380	81	55.70	274	49.635	163	32.30	176	35.678	79	28.16	303
8 8.0	26.093	22	29.46	347	35.461	33	58.44	258	49.798	91	34.06	194	35.757	26	31.19	291
17.9	26.071	96	32.93	332	35.494	16	61.02	239	49.889	17	36.00	205	35.783	24	34.10	273
27.9	25.975	166	36.25	310	35.478	59	63.41	214	49.906	52	38.05	208	35.759	72	36.83	248
9 6.9	25.809	230	39.35	282	35.419	101	65.55	185	49.854	119	40.13	203	35.687	117	39.31	218
16.9	25.579	284	42.17	248	35.318	134	67.40	153	49.735	175	42.16	190	35.570	153	41.49	186
26.9	25.295	331	44.65	208	35.184	162	68.93	119	49.560	222	44.06	168	35.417	183	43.35	149
10 6.8	24.964	365	46.73	162	35.022	181	70.12	82	49.338	255	45.74	140	35.234	204	44.84	108
16.8	24.599	389	48.35	113	34.841	192	70.94	43	49.083	276	47.14	105	35.030	218	45.92	66
26.8	24.210	401	49.48	60	34.649	195	71.37	2	48.807	281	48.19	67	34.812	222	46.58	20
11 5.8	23.809	400	50.08	5	34.454	189	71.39	38	48.526	272	48.86	25	34.590	218	46.78	25
15.7	23.409	389	50.13	53	34.265	177	71.01	78	48.254	251	49.11	18	34.372	205	46.53	72
25.7	23.020	363	49.60	109	34.088	158	70.23	118	48.003	216	48.93	60	34.167	187	45.81	116
12 5.7	22.657	330	48.51	163	33.930	133	69.05	154	47.787	174	48.33	100	33.980	161	44.65	158
15.7	22.327	284	46.88	213	33.797	104	67.51	185	47.613	125	47.33	136	33.819	131	43.07	196
25.6	22.043	229	44.75	255	33.693	72	65.66	212	47.488	71	45.97	169	33.688	96	41.11	228
35.6	21.814		42.20		33.621		63.54		47.417		44.28		33.592		38.83	
平位	s 22.684		″ 20.56		s 33.038		″ 46.89		s 46.529		″ 46.29		s 33.196		″ 20.06	
sec δ, tan δ	+ 1.985		+ 1.715		+ 1.155		+ 0.577		+ 1.681		− 1.351		+ 1.266		+ 0.776	
2 回正中	8 月 9 日				8 月 9 日				8 月 10 日				8 月 10 日			
a b	+ 0.0762		+ 0.0844		+ 0.1274		+ 0.0284		+ 0.2137		− 0.0669		+ 0.1188		+ 0.0385	
a′ b′	+ 0.7384		+ 0.6744		+ 0.7389		+ 0.6738		+ 0.7425		+ 0.6699		+ 0.7448		+ 0.6673	
FK3番號	798				797				796				799			

星名 / 等級 スペクトル型	α Equl 4.14 F8, A3				ε Micr 4.79 A0				ϑ¹ Micr 4.92 A2p				α Ceph 2.60 A5			
世界時	赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯	
月 日	h m 21 12		° ′ + 5 0		h m 21 14		° ′ −32 24		h m 21 17		° ′ −41 2		h m 21 17		° ′ +62 20	
	s		″		s		″		s		″		s		″	
1 1.6	59.617	18	54.98	125	30.392	13	35.79	73	8.438	23	60.67	119	12.56	23	63.23	274
11.6	59.599	13	53.73	125	30.379	24	35.06	92	8.415	18	59.48	141	12.33	16	60.49	304
21.6	59.612	44	52.48	121	30.403	62	34.14	107	8.433	62	58.07	159	12.17	8	57.45	325
31.5	59.656	74	51.27	110	30.465	99	33.07	122	8.495	104	56.48	173	12.09	0	54.20	332
2 10.5	59.730	106	50.17	94	30.564	135	31.85	134	8.599	144	54.75	184	12.09	8	50.88	326
20.5	59.836	137	49.23	72	30.699	169	30.51	145	8.743	183	52.91	192	12.17	17	47.62	308
3 1.5	59.973	166	48.51	46	30.868	203	29.06	154	8.926	221	50.99	197	12.34	25	44.54	278
11.4	60.139	196	48.05	17	31.071	234	27.52	161	9.147	256	49.02	197	12.59	32	41.76	237
21.4	60.335	223	47.88	16	31.305	265	25.91	164	9.403	291	47.05	196	12.91	38	39.39	187
31.4	60.558	247	48.04	49	31.570	292	24.27	166	9.694	320	45.09	188	13.29	44	37.52	130
4 10.3	60.805	269	48.53	81	31.862	316	22.61	164	10.014	347	43.21	179	13.73	48	36.22	70
20.3	61.074	286	49.34	111	32.178	335	20.97	157	10.361	368	41.42	164	14.21	50	35.52	8
30.3	61.360	297	50.45	138	32.513	349	19.40	147	10.729	383	39.78	145	14.71	52	35.44	54
5 10.3	61.657	302	51.83	160	32.862	355	17.93	132	11.112	390	38.33	123	15.23	52	35.98	114
20.2	61.959	299	53.43	179	33.217	354	16.61	114	11.502	390	37.10	98	15.75	50	37.12	169
30.2	62.258	290	55.22	190	33.571	346	15.47	93	11.892	380	36.12	68	16.25	46	38.81	219
6 9.2	62.548	273	57.12	196	33.917	327	14.54	69	12.272	361	35.44	38	16.71	42	41.00	262
19.2	62.821	250	59.08	197	34.244	302	13.85	42	12.633	333	35.06	6	17.13	37	43.62	297
29.1	63.071	218	61.05	193	34.546	269	13.43	15	12.966	296	35.00	25	17.50	29	46.59	325
7 9.1	63.289	183	62.98	184	34.815	227	13.28	13	13.262	252	35.25	57	17.79	23	49.84	343
19.1	63.472	142	64.82	170	35.042	181	13.41	39	13.514	201	35.82	85	18.02	14	53.27	356
29.0	63.614	99	66.52	154	35.223	131	13.80	63	13.715	146	36.67	110	18.16	7	56.83	357
8 8.0	63.713	55	68.06	134	35.354	78	14.43	84	13.861	87	37.77	131	18.23	2	60.40	353
17.9	63.768	11	69.40	113	35.432	25	15.27	100	13.948	28	39.08	147	18.21	9	63.93	340
27.9	63.779	31	70.53	92	35.457	25	16.27	112	13.976	27	40.55	155	18.12	18	67.33	321
6.9	63.748	68	71.45	69	35.432	71	17.39	119	13.949	81	42.10	157	17.94	24	70.54	293
9 16.9	63.680	100	72.14	46	35.361	112	18.58	120	13.868	125	43.67	154	17.70	30	73.47	261
26.9	63.580	125	72.60	24	35.249	143	19.78	114	13.743	162	45.21	141	17.40	35	76.08	221
10 6.9	63.455	142	72.84	3	35.106	166	20.92	104	13.581	189	46.62	125	17.05	39	78.29	177
16.8	63.313	151	72.87	18	34.940	179	21.96	90	13.392	204	47.87	101	16.66	42	80.06	128
26.8	63.162	151	72.69	37	34.761	180	22.86	71	13.188	208	48.88	75	16.24	44	81.34	74
11 5.8	63.011	146	72.32	56	34.581	173	23.57	50	12.980	200	49.63	44	15.80	44	82.08	19
15.7	62.865	132	71.76	73	34.408	156	24.07	27	12.780	184	50.07	13	15.36	43	82.27	39
25.7	62.733	113	71.03	89	34.252	133	24.34	3	12.596	158	50.20	19	14.93	41	81.88	96
12 5.7	62.620	89	70.14	103	34.119	102	24.37	19	12.438	124	50.01	49	14.52	37	80.92	152
15.7	62.531	63	69.11	114	34.017	69	24.18	41	12.314	87	49.52	79	14.15	33	79.40	203
25.6	62.468	34	67.97	122	33.948	33	23.77	62	12.227	47	48.73	106	13.82	26	77.37	249
35.6	62.434		66.75		33.915		23.15		12.180		47.67		13.56		74.88	
平位	s 61.444		″ 55.10		s 32.796		″ 27.77		s 11.106		″ 51.01		s 14.582		″ 52.22	
sec δ, tan δ	+ 1.004		+ 0.088		+ 1.184		− 0.635		+ 1.326		− 0.871		+ 2.155		+ 1.909	
2 回正中	8 月 10 日				8 月 10 日				8 月 11 日				8 月 11 日			
a b	+ 0.1494		+ 0.0044		+ 0.1813		− 0.0318		+ 0.1912		+ 0.0440		+ 0.0704		+ 0.0965	
a′ b′	+ 0.7461		+ 0.6658		+ 0.7505		+ 0.6608		+ 0.7581		+ 0.6522		+ 0.7583		+ 0.6520	
FK3番號	800				801				802				803			

星名	1 Pegs				γ Pavo				ζ Capr				71 Cygn			
等級	4.24		K0		4.30		F8		3.86		G5p		5.34		K0	
世界時	赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯	
月 日	h m 21 19		° ′ +19 33		h m 21 21		° ′ −65 36		h m 21 23		° ′ −22 39		h m 21 27		° ′ +46 17	
	s		″		s		″		s		″		s		″	
1 1.6	27.984	40	53.47	183	45.92	12	89.19	240	26.244	18	24.65	19	21.105	121	43.38	250
11.6	27.944	8	51.64	194	45.80		86.79	224	26.226	16	24.46		20.984		40.88	
21.6	27.936	24	49.70	194	45.77	3	84.12	267	26.242	48	24.11	35	20.906	78	38.12	276
31.5	27.960	59	47.76	189	45.83	6	81.25	287	26.290	81	23.63	48	20.875	31	35.20	292
2 10.5	28.019	92	45.87	174	45.96	13	78.26	299	26.371	114	22.99	64	20.896	21	32.25	295
						22		304				79		71		287
20.5	28.111	127	44.13	150	46.18	30	75.22	302	26.485	146	22.20	93	20.967	125	29.38	268
3 1.5	28.238	161	42.63	122	46.48	36	72.20	294	26.631	177	21.27	108	21.092	175	26.70	238
11.4	28.399	193	41.41	86	46.84	43	69.26	279	26.808	207	20.19	122	21.267	224	24.32	198
21.4	28.592	223	40.55	46	47.27	49	66.47	259	27.015	237	18.97	134	21.491	269	22.34	151
31.4	28.815	251	40.09	3	47.76	54	63.88	234	27.252	263	17.63	145	21.760	307	20.83	97
10.3	29.066		40.06	40	48.30		61.54	204	27.515	287	16.18	151	22.067	340	19.86	41
4 20.3	29.341	275	40.46	82	48.89	59	59.50	169	27.802	307	14.67	155	22.407	363	19.45	17
30.3	29.634	293	41.28	123	49.51	62	57.81	130	28.109	321	13.12	155	22.770	377	19.62	74
5 10.3	29.938	304	42.51	158	50.15	64	56.51	89	28.430	328	11.57	150	23.147	381	20.36	127
20.2	30.248	310	44.09	188	50.81	66	55.62	45	28.758	330	10.07	141	23.528	375	21.63	177
		306				64										
30.2	30.554	297	45.97	214	51.45	63	55.17	0	29.088	323	8.66	128	23.903	358	23.40	221
6 9.2	30.851	278	48.11	231	52.08	60	55.17	45	29.411	307	7.38	111	24.261	332	25.61	258
19.2	31.129	254	50.42	244	52.68	55	55.62	88	29.718	285	6.27	91	24.593	296	28.19	288
29.1	31.383	221	52.86	249	53.23	48	56.50	129	30.003	255	5.36	68	24.889	254	31.07	310
7 9.1	31.604	183	55.35	248	53.71	41	57.79	167	30.258	218	4.68	45	25.143	204	34.17	325
19.1	31.787	142	57.83	242	54.12	32	59.46	198	30.476	175	4.23	20	25.347	150	37.42	330
29.0	31.929	97	60.25	229	54.44	23	61.44	224	30.651	129	4.03	3	25.497	94	40.72	330
8 8.0	32.026	52	62.54	214	54.67	13	63.68	242	30.780	81	4.06	25	25.591	76	44.02	322
17.9	32.078	6	64.68	193	54.80	2	66.10	252	30.861	33	4.31	45	25.626	35	47.24	306
27.9	32.084	37	66.61	169	54.82	7	68.62	251	30.894	14	4.76	61	25.605	21	50.30	286
														76		
9 6.9	32.047		68.30	143	54.75	18	71.13	242	30.880	56	5.37	74	25.529	125	53.16	257
16.9	31.973	74	69.73	115	54.57	25	73.55	223	30.824	94	6.11	81	25.404	168	55.73	226
26.9	31.864	109	70.88	85	54.32	33	75.78	195	30.730	123	6.92	84	25.236	205	57.99	188
10 6.9	31.730	134	71.73	54	53.99	38	77.73	158	30.607	144	7.76	84	25.031	232	59.87	147
16.8	31.576	154	72.27	22	53.61	41	79.31	115	30.463	157	8.60	78	24.799	250	61.34	102
		164														
26.8	31.412	168	72.49	10	53.20		80.46	68	30.306	159	9.38	71	24.549	260	62.36	
11 5.8	31.244	162	72.39	42	52.77	43	81.14	15	30.147	154	10.09	59	24.289	261	62.89	53
15.7	31.082	151	71.97	74	52.34	43	81.29	37	29.993	141	10.68	47	24.028	252	62.93	4
25.7	30.931	134	71.23	103	51.94	40	80.92	88	29.852	120	11.15	33	23.776	237	62.45	48
12 5.7	30.797	112	70.20	131	51.58	36	80.04	137	29.732	95	11.48	19	23.539	212	61.47	98
						30										147
15.7	30.685	86	68.89	155	51.28	24	78.67	182	29.637	66	11.67	4	23.327	182	60.00	191
25.6	30.599	57	67.34	175	51.04	16	76.85	219	29.571	34	11.71	12	23.145	146	58.09	229
35.6	30.542		65.59		50.88		74.66		29.537		11.59		22.999		55.80	
平位	s 29.701		″ 50.42		s 50.420		″ 76.28		s 28.386		″ 17.92		s 22.802		″ 34.71	
sec δ, tan δ	+ 1.061		+ 0.355		+ 2.423		− 2.207		+ 1.084		− 0.417		+ 1.447		+ 1.046	
2回正中	8月12日				8月12日				8月13日				8月14日			
a b	+ 0.1381		+ 0.0181		+ 0.2470		− 0.1134		+ 0.1709		− 0.0216		+ 0.1102		+ 0.0548	
a′ b′	+ 0.7646		+ 0.6445		+ 0.7712		+ 0.6366		+ 0.7757		+ 0.6311		+ 0.7863		+ 0.6178	
FK3番號	804				805				806				807			

星名	β Ceph				β Aqar				74 Cygn				ν Octn			
等級	3.32		B1		3.07		G0		5.09		A5		3.74		K0	
世界時	赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯		赤 經		赤 緯	
月 日	h m 21 27		° ′ +70 18		h m 21 28		° ′ − 5 48		h m 21 34		° ′ +40 9		h m 21 35		° ′ −77 38	
	s		″		s		″		s		″		s		″	
1 1.6	54.44	39	65.27	260	34.830	24	69.86	68	40.451	104	48.17	234	12.04	37	40.89	274
11.6	54.05	29	62.67	297	34.806	6	70.54	62	40.347	65	45.83	257	11.67	20	38.15	304
21.6	53.76	18	59.70	323	34.812		71.16	53	40.282	24	43.26	271	11.47	4	35.11	327
31.5	53.58	6	56.47	335	34.847	35	71.69	41	40.258	20	40.55	274	11.43	13	31.84	341
2 10.5	53.52	5	53.12	335	34.913	66	72.10	25	40.278	65	37.81	265	11.56	29	28.43	344
						96										
20.5	53.57	17	49.77		35.009	127	72.35	6	40.343		35.16		11.85	45	24.99	
3 1.5	53.74	28	46.55	322	35.136	157	72.41	17	40.455	112	32.69	247	12.30	59	21.58	341
11.4	54.02	40	43.59	296	35.293	186	72.24	40	40.612	157	30.52	217	12.89	73	18.28	330
21.4	54.42	48	41.00	259	35.479	215	71.84	64	40.814	202	28.72	180	13.62	84	15.17	311
31.4	54.90	56	38.88	212	35.694	241	71.20	89	41.057	243	27.38	134	14.46	95	12.30	287
				158						279		83				255
10.4	55.46	62	37.30		35.935	265	70.31	112	41.336		26.55		15.41	104	9.75	
4 20.3	56.08	67	36.31	99	36.200	284	69.19	133	41.646	310	26.26	29	16.45	111	7.56	219
30.3	56.75	68	35.95	36	36.484	298	67.86	148	41.980	334	26.51	25	17.56	115	5.79	177
5 10.3	57.43	68	36.21	26	36.782	306	66.38	161	42.329	349	27.29	78	18.71	117	4.45	134
20.2	58.11	65	37.09	88	37.088	307	64.77	168	42.684	355	28.59	130	19.88	118	3.60	85
				145						352		176				35
30.2	58.76	62	38.54	198	37.395	300	63.09	172	43.036	340	30.35		21.06	114	3.25	15
6 9.2	59.38	55	40.52	244	37.695	287	61.37	168	43.376	318	32.52	217	22.20	109	3.40	66
19.2	59.93	48	42.96	284	37.982	265	59.69	161	43.694	287	35.03	251	23.29	100	4.06	114
29.1	60.41	39	45.80	316	38.247	237	58.08	150	43.981	250	37.81	278	24.29	89	5.20	159
7 9.1	60.80	30	48.96	340	38.484	203	56.58	134	44.231	206	40.80	299	25.18	76	6.79	200
												310				
19.1	61.10	19	52.36	356	38.687	163	55.24	117	44.437		43.90		25.94	61	8.79	234
29.1	61.29	8	55.92	363	38.850	120	54.07	96	44.594	157	47.05	315	26.55	43	11.13	262
8 8.0	61.37	2	59.55	363	38.970	76	53.11	76	44.699	105	50.18	313	26.98	24	13.75	281
17.9	61.35	13	63.18	363	39.046	32	52.35	54	44.751	52	53.21	303	27.22	6	16.56	290
27.9	61.22	24	66.72	354	39.078	12	51.81	34	44.751	0	56.09	288	27.28	13	19.46	290
				339						51		267				
6.9	60.98		70.11	316	39.066	50	51.47	15	44.700		58.76		27.15	32	22.36	277
9 16.9	60.66	32	73.27	285	39.016	84	51.32	3	44.603	97	61.16	240	26.83	48	25.13	255
26.9	60.24	42	76.12	249	38.932	111	51.35	19	44.466	137	63.25	209	26.35	64	27.68	223
10 6.9	59.76	48	78.61	207	38.821	131	51.54	32	44.296	170	64.98	173	25.71	75	29.91	182
16.8	59.21	55	80.68	159	38.690	142	51.86	42	44.099	197	66.33	135	24.96	83	31.73	132
		59								214		92				
26.8	58.62	62	82.27	106	38.548	146	52.28	52	43.885	223	67.25	46	24.13	89	33.05	78
11 5.8	58.00	64	83.33	49	38.402	141	52.80	59	43.662	223	67.71	1	23.24	90	33.83	19
15.8	57.36	63	83.82	9	38.261	130	53.39	64	43.439	218	67.72	47	22.34	87	34.02	42
25.7	56.73	60	83.73	69	38.131	113	54.03	69	43.221	202	67.25	94	21.47	81	33.60	100
12 5.7	56.13	57	83.04	128	38.018	91	54.72	71	43.019	182	66.31	138	20.66	71	32.60	156
15.7	55.56	51	81.76	183	37.927	66	55.43	71	42.837		64.93		19.95	59	31.04	207
25.6	55.05	44	79.93	232	37.861	38	56.14	69	42.682	155	63.14	179	19.36	46	28.97	251
35.6	54.61		77.61		37.823		56.83		42.559	123	60.99	215	18.90		26.46	
平位	s 56.701		″ 53.06		s 36.701		″ 66.66		s 42.079		″ 40.63		s 19.857		″ 25.98	
sec δ, tan δ	+ 2.969		+ 2.795		+ 1.005		− 0.102		+ 1.309		+ 0.844		+ 4.672		− 4.564	
2回正中	8月14日				8月14日				8月16日				8月16日			
a b	+ 0.0386		+ 0.1468		+ 0.1575		− 0.0054		+ 0.1200		+ 0.0453		+ 0.3329		− 0.2456	
a′ b′	+ 0.7879		+ 0.6159		+ 0.7897		+ 0.6136		+ 0.8057		+ 0.5924		+ 0.8073		+ 0.5901	
FK3番號	809				808				811				810			

星名	γ Capr		13 H. Ceph		11 Ceph		ε Pegs	
等級	3.80		5.64		4.85		2.54	
スペクトル型	F 0p		Oe 5		K 0		K 0	
世界時	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月 日	h m 21 36	° ′ −16 54	h m 21 37	° ′ +57 13	h m 21 41	° ′ +71 2	h m 21 41	° ′ + 9 36
	s	″	s	″	s	″	s	″
1 1.6	57.445	64.88	11.477	77.64	4.30	84.90	24.397	62.86
11.6	57.417 28	64.99 11	11.272 205	75.11 253	3.88 42	82.44 246	24.352 45	61.51 135
21.6	57.419 2	64.98 1	11.123 149	72.26 285	3.54 34	79.59 285	24.336 16	60.12 139
31.6	57.451 32	64.83 15	11.035 88	69.18 308	3.32 22	76.45 314	24.348 12	58.75 137
2 10.5	57.515 64	64.53 30	11.014 21	66.00 318	3.21 11	73.15 330	24.391 43	57.46 129
	95	46	48	315	1	335	75	116
20.5	57.610 126	64.07 64	11.062	62.85	3.22	69.80	24.466	56.30
3 1.5	57.736 157	63.43 81	11.181 119	59.84 301	3.36 14	66.56 324	24.573 107	55.36 94
11.4	57.893 188	62.62 99	11.368 187	57.09 275	3.61 25	63.53 303	24.712 139	54.66 70
21.4	58.081 218	61.63 117	11.620 252	54.72 237	3.99 38	60.85 268	24.883 171	54.27 39
31.4	58.299 246	60.46 131	11.933 313	52.82 190	4.46 47	58.60 225	25.086 203	54.22 5
			364	138	56	172	231	30
4 10.4	58.545 271	59.15 145	12.297 406	51.44	5.02 63	56.88 115	25.317 256	54.52 65
20.3	58.816 292	57.70 154	12.703 437	50.65 79	5.65 67	55.73 53	25.573 279	55.17 100
30.3	59.108 308	56.16 161	13.140 455	50.46 19	6.32 70	55.20 9	25.852 293	56.17 130
5 10.3	59.416 318	54.55 161	13.595 460	50.88 42	7.02 71	55.29 70	26.145 303	57.47 158
20.2	59.734 321	52.94 158	14.055 453	51.88 100	7.73 69	55.99 129	26.448 305	59.05 181
30.2	60.055	51.36	14.508	53.43	8.42	57.28	26.753	60.86
6 9.2	60.371 316	49.86 150	14.939 431	55.48 205	9.07 65	59.11 183	27.053 300	62.84 198
19.2	60.675 304	48.48 138	15.338 399	57.96 248	9.66 59	61.42 231	27.339 286	64.93 209
29.1	60.957 282	47.26 122	15.694 356	60.81 285	10.19 53	64.15 273	27.605 266	67.07 214
7 9.1	61.213 256	46.24 102	15.996 302	63.95 314	10.62 43	67.23 308	27.843 238	69.22 215
	221	81	242	334	34	334	204	209
19.1	61.434 181	45.43 58	16.238 176	67.29 348	10.96 24	70.57 353	28.047 165	71.31 198
29.1	61.615 137	44.85 35	16.414 107	70.77 352	11.20 12	74.10 363	28.212 124	73.29 185
8 8.0	61.752 91	44.50 11	16.521 36	74.29 349	11.32 1	77.73 366	28.336 79	75.14 166
18.0	61.843 45	44.39 10	16.557 34	77.78 339	11.33 9	81.39 361	28.415 36	76.80 146
27.9	61.888 1	44.49 29	16.523 101	81.17 321	11.24 21	85.00 347	28.451 7	78.26 123
9 6.9	61.887	44.78	16.422	84.38	11.03	88.47	28.444	79.49
16.9	61.846 41	45.23 45	16.259 163	87.35 297	10.73 30	91.74 327	28.399 45	80.48 99
26.9	61.767 79	45.80 57	16.041 218	90.01 266	10.34 39	94.74 300	28.319 80	81.24 76
10 6.9	61.659 108	46.46 66	15.775 266	92.31 230	9.86 48	97.39 265	28.212 107	81.75 51
16.8	61.528 131	47.16 70	15.472 303	94.18 187	9.32 54	99.63 224	28.083 129	82.01 26
	144	72	331	141	59	179	141	3
26.8	61.384 148	47.88 69	15.141	95.59 91	8.73 63	101.42 126	27.942	82.04 21
11 5.8	61.236 146	48.57 65	14.792 349	96.50 36	8.10 65	102.68 71	27.795 147	81.83
15.8	61.090 135	49.22 58	14.437 355	96.86 19	7.45 65	103.39 12	27.649 146	81.40 43
25.7	60.955 119	49.80 49	14.085 352	96.67 75	6.80 64	103.51 48	27.512 137	80.75 65
12 5.7	60.836 96	50.29 41	13.748 337	95.92 130	6.16 60	103.03 107	27.388 124	79.90 85
			312				105	102
15.7	60.740	50.70	13.436	94.62	5.56	101.96	27.283	78.88
25.6	60.668 72	50.99 29	13.158 278	92.80 182	5.01 55	100.32 164	27.199 84	77.70 118
35.6	60.625 43	51.17 18	12.923 235	90.54 226	4.53 48	98.16 216	27.141 58	76.41 129
平位	s 59.429	″ 58.64	s 13.227	″ 66.94	s 6.456	″ 72.29	s 26.076	″ 62.64
sec δ, tan δ	+ 1.045	− 0.304	+ 1.848	+ 1.554	+ 3.080	+ 2.913	+ 1.014	+ 0.169
2 回正中	8 月 16 日		8 月 16 日		8 月 17 日		8 月 17 日	
a b	+ 0.1652	− 0.0165	+ 0.0929	+ 0.0841	+ 0.0427	+ 0.1596	+ 0.1469	+ 0.0093
a′ b′	+ 0.8116	+ 0.5843	+ 0.8121	+ 0.5835	+ 0.8219	+ 0.5696	+ 0.8227	+ 0.5684
FK3番號	812		813		817		815	

星名	ι PscA		† χ Pegs m		λ Capr		δ Capr	
等級	4.35		4.27		5.43		2.98	
スペクトル型	A 0		F 5		A 0		A 5	
世界時	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯	赤 経	赤 緯
月 日	h m 21 41	° ′ −33 16	h m 21 42	° ′ +25 23	h m 21 43	° ′ −11 37	h m 21 43	° ′ −16 22
	s	″	s	″	s	″	s	″
1 1.6	34.690	66.48	4.814	16.88	29.432	35.67	55.181	62.91
11.6	34.648 42	65.76 72	4.746 68	14.97 191	29.398 34	36.05 38	55.147 34	63.06 15
21.6	34.642 6	64.82 94	4.708 38	12.91 206	29.392 6	36.33 28	55.142 5	63.09 3
31.6	34.672 30	63.68 114	4.702 6	10.78 213	29.416 24	36.49 16	55.168 26	62.97 12
2 10.5	34.738 66	62.37 131	4.732 30	8.68 210	29.470 54	36.50 1	55.224 56	62.70 27
	102	147	65	200	84	14	87	44
20.5	34.840	60.90	4.797	6.68	29.554	36.36	55.311	62.26
3 1.5	34.978 138	59.29 161	4.900 103	4.88 180	29.669 115	36.02 34	55.429 118	61.64 62
11.4	35.151 173	57.57 172	5.039 139	3.35 153	29.815 146	35.50 52	55.579 150	60.84 80
21.4	35.359 208	55.77 180	5.216 177	2.17 118	29.992 177	34.75 75	55.760 181	59.86 98
31.4	35.600 241	53.91 186	5.427 211	1.40 77	30.199 207	33.81 94	55.972 212	58.70 116
	273	188	243	34	235	115	240	131
4 10.4	35.873	52.03	5.670	1.06	30.434	32.66	56.212	57.39
20.3	36.175 302	50.16 187	5.940 270	1.19 13	30.695 261	31.34 132	56.479 267	55.93 146
30.3	36.500 325	48.36 180	6.234 294	1.77 58	30.978 283	29.86 148	56.767 288	54.37 156
5 10.3	36.844 344	46.66 170	6.544 310	2.80 103	31.278 300	28.27 159	57.072 305	52.75 162
20.3	37.199 355	45.10 156	6.862 318	4.24 144	31.588 310	26.62 165	57.389 317	51.10 165
	360	136	319	179	314	167	321	161
30.2	37.559	43.74	7.181	6.03	31.902	24.95	57.710	49.49
6 9.2	37.915 356	42.60 114	7.492 311	8.14 211	32.212 310	23.30 165	58.027 317	47.94 155
19.2	38.257 342	41.73 87	7.787 295	10.49 235	32.511 299	21.73 157	58.333 306	46.52 142
29.1	38.578 321	41.14 59	8.059 272	13.02 253	32.790 279	20.28 145	58.619 286	45.25 127
7 9.1	38.869 291	40.85 29	8.301 242	15.66 264	33.043 253	18.99 129	58.878 259	44.18 107
	254	1	204	268	219	110	226	86
19.1	39.123	40.86	8.505	18.34	33.262	17.89	59.104	43.32
29.1	39.332 209	41.17 31	8.668 163	21.01 267	33.443 181	17.00 89	59.291 187	42.69 63
8 8.0	39.492 160	41.76 59	8.786 118	23.59 258	33.582 139	16.33 67	59.434 143	42.30 39
18.0	39.601 109	42.59 83	8.857 71	26.05 246	33.676 94	15.88 45	59.532 98	42.15 15
27.9	39.656 55	43.63 104	8.882 25	28.33 228	33.724 48	15.65 23	59.583 51	42.21 6
	4	119	19	205	5	2	6	26
9 6.9	39.660	44.82	8.863	30.38	33.729	15.63	59.589	42.47
16.9	39.615 45	46.11 129	8.803 60	32.18 180	33.692 37	15.80 17	59.554 35	42.91 44
26.9	39.527 88	47.45 134	8.707 96	33.70 152	33.621 71	16.11 31	59.482 72	43.47 56
10 6.9	39.404 123	48.76 131	8.581 126	34.90 120	33.519 102	16.56 45	59.379 103	44.12 65
16.8	39.253 151	49.98 122	8.432 149	35.77 87	33.396 123	17.09 53	59.254 125	44.84 72
	169	109	163	53	138	60	140	73
26.8	39.084	51.07	8.269	36.30	33.258	17.69	59.114	45.57
11 5.8	38.908 176	51.97 90	8.098 171	36.47 17	33.115 143	18.32 63	58.968 146	46.29 72
15.8	38.734 174	52.66 69	7.927 171	36.28 19	32.974 141	18.96 64	58.824 144	46.96 67
25.7	38.570 164	53.10 44	7.764 163	35.72 56	32.842 132	19.59 63	58.688 136	47.57 61
12 5.7	38.425 145	53.28 18	7.613 151	34.82 90	32.725 117	20.19 60	58.569 119	48.11 54
	120	8	133	123	98	55	100	43
15.7	38.305	53.20	7.480	33.59	32.627	20.74	58.469	48.54
25.7	38.213 92	52.86 34	7.370 110	32.06 153	32.553 74	21.24 50	58.394 75	48.88 34
35.6	38.154 59	52.27 59	7.285 85	30.28 178	32.505 48	21.67 43	58.346 48	49.10 22
平位	s 36.985	″ 56.37	s 6.413	″ 12.70	s 31.310	″ 30.38	s 57.125	″ 56.43
sec δ, tan δ	+ 1.196	− 0.656	+ 1.107	+ 0.475	+ 1.021	− 0.206	+ 1.042	− 0.294
2 回正中	8 月 17 日		8 月 17 日		8 月 18 日		8 月 18 日	
a b	+ 0.1782	− 0.0360	+ 0.1354	+ 0.0261	+ 0.1610	− 0.0114	+ 0.1643	− 0.0162
a′ b′	+ 0.8232	+ 0.5678	+ 0.8244	+ 0.5660	+ 0.8279	+ 0.5609	+ 0.8289	+ 0.5594
FK3番號	814		816		818		819	

本初子午線正中時

星名		π^2 Cygn		o Indi		16 Pegs		γ Grus	
等級	スペクトル型	4.26	B3	5.50	K2	5.05	B3	3.16	B8
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 21 44	° ′ +49 2	h m 21 45	° ′ −69 53	h m 21 50	° ′ +25 39	h m 21 50	° ′ −37 37
1	1.6	s 41.662	″ 68.72	s 60.09	″ 44.53	s 29.137	″ 43.46	s 30.270	″ 56.46
	11.6	41.508 154	66.33 239	59.87 22	42.14 239	29.061 76	41.59 187	30.214 56	55.54 92
	21.6	41.398 110	63.64 269	59.74 13	39.41 273	29.015 46	39.57 202	30.195 19	54.38 116
	31.6	41.336 62	60.75 289	59.71 3	36.43 298	29.001 14	37.46 211	30.213 18	52.99 139
2	10.5	41.326 10	57.78 297	59.79 8	33.27 316	29.021 20	35.37 209	30.269 56	51.41 158
		44	294	17	324	56	200	95	174
	20.5	41.370	54.84	59.96	30.03	29.077	33.37	30.364	49.67
3	1.5	41.471 101	52.05 279	60.22 26	26.76 327	29.170 93	31.56 181	30.496 132	47.79 188
	11.4	41.628 157	49.53 252	60.57 35	23.55 321	29.301 131	30.01 155	30.667 171	45.81 198
	21.4	41.838 210	47.37 216	61.01 44	20.47 308	29.469 168	28.80 121	30.875 208	43.75 206
	31.4	42.099 261	45.66 171	61.53 52	17.53 289	29.674 205	27.99 81	31.119 244	41.67 208
		305	120	59	265	237	38	277	208
4	10.4	42.404	44.46 64	62.12	14.93	29.911	27.61 8	31.396	39.59
	20.3	42.747 343	43.82 6	62.77 65	12.59 234	30.178 267	27.69 53	31.705 309	37.57 202
	30.3	43.119 372	43.76 51	63.47 70	10.60 199	30.469 291	28.22 98	32.040 335	35.63 194
5	10.3	43.509 390	44.27 107	64.20 73	9.02 158	30.777 308	29.20 139	32.396 356	33.84 179
	20.3	43.907 398	45.34 158	64.96 76	7.86 116	31.095 318	30.59 175	32.766 370	32.24 160
		395		76	69	321		376	138
	30.2	44.302	46.92	65.72	7.17	31.416	32.34	33.142	30.86
6	9.2	44.683 381	48.98 206	66.47 75	6.97 20	31.731 315	34.41 207	33.516 374	29.75 111
	19.2	45.040 357	51.43 245	67.19 72	7.24 27	32.031 300	36.74 233	33.877 361	28.94 81
	29.1	45.363 323	54.22 279	67.86 67	8.00 76	32.308 277	39.25 251	34.218 341	28.45 49
7	9.1	45.644 281	57.28 306	68.47 61	9.21 121	32.557 249	41.88 263	34.528 310	28.29 16
		231	323	52	163	212	268	273	17
	19.1	45.875	60.51	68.99	10.84	32.769	44.56	34.801	28.46
	29.1	46.052 177	63.85 334	69.42 43	12.83 199	32.940 171	47.24 268	35.029 228	28.95 49
8	8.0	46.170 118	67.22 337	69.74 32	15.14 231	33.066 126	49.84 260	35.206 177	29.73 78
	18.0	46.228 58	70.54 332	69.95 21	17.68 254	33.147 81	52.33 249	35.330 124	30.78 105
	27.9	46.227 1	73.74 320	70.03 8	20.35 267	33.181 34	54.63 230	35.397 67	32.05 127
		58	302	3	272	11	210	13	142
	6.9	46.169	76.76	70.00	23.07	33.170	56.73	35.410 38	33.47
9	16.9	46.058 111	79.54 278	69.84 16	25.74 267	33.118 52	58.58 185	35.372 85	34.99 152
	26.9	45.900 158	82.02 248	69.58 26	28.25 251	33.030 88	60.14 156	35.287 125	36.53 154
10	6.9	45.701 199	84.14 212	69.23 35	30.49 224	32.911 119	61.40 126	35.162 154	38.04 151
	16.8	45.471 230	85.86 172	68.80 43	32.39 190	32.768 143	62.33 93	35.008 154	39.43 139
		254	127	49	147	158	59	176	123
	26.8	45.217	87.13	68.31	33.86	32.610	62.92 24	34.832	40.66
11	5.8	44.949 268	87.93 80	67.80 51	34.84 98	32.442 168	63.16 13	34.646 186	41.66 100
	15.8	44.675 274	88.22 29	67.27 53	35.27 43	32.273 169	63.03 49	34.460 186	42.40 74
	25.7	44.405 270	87.99 23	66.75 52	35.16 11	32.109 164	62.54 84	34.283 177	42.85 45
12	5.7	44.147 258	87.24 75	66.27 48	34.47 69	31.957 152	61.70 117	34.123 160	43.00 15
		238	126	42	121	136		136	17
	15.7	43.909	85.98	65.85	33.26	31.821	60.53	33.987	42.83
	25.7	43.698 211	84.24 174	65.50 35	31.54 172	31.705 116	59.06 147	33.880 107	42.37 46
	35.6	43.521 177	82.09 215	65.23 27	29.38 216	31.615 90	57.33 173	33.806 74	41.61 76
平位		s 43.272	″ 59.34	s 65.060	″ 28.97	s 30.695	″ 39.29	s 32.639	″ 44.86
sec δ, tan δ		+ 1.526	+ 1.152	+ 2.909	− 2.731	+ 1.109	+ 0.480	+ 1.263	− 0.771
2 回正中		8 月 18 日		8 月 18 日		8 月 20 日		8 月 20 日	
a	b	+ 0.1106	+ 0.0638	+ 0.2538	− 0.1519	+ 0.1362	+ 0.0271	+ 0.1808	− 0.0434
a′	b′	+ 0.8308	+ 0.5566	+ 0.8341	+ 0.5516	+ 0.8446	+ 0.5354	+ 0.8447	+ 0.5353
FK3番號		821		820		823		822	

本初子午線正中時

星名		δ Indi		20 Pegs		ε Indi		α Aqar	
等級	スペクトル型	4.56	F0	5.66	F2	4.74	K5	3.19	G0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 21 54	° ′ −55 15	h m 21 58	° ′ +12 50	h m 21 59	° ′ −57 0	h m 22 2	° ′ − 0 35
1	1.6	s 4.120	″ 50.30	s 19.970	″ 64.18	s 2.230	″ 77.40	s 52.793	″ 36.69
	11.6	4.009 111	48.57 173	19.910 60	62.77 141	2.120 110	75.66 174	52.741 52	37.56 87
	21.6	3.952 57	46.51 206	19.876 34	61.30 147	2.065 55	73.58 208	52.715 26	38.39 83
	31.6	3.949 3	44.19 232	19.870 6	59.82 148	2.068 3	71.23 235	52.715 0	39.15 76
2	10.5	4.002 53	41.67 252	19.894 24	58.39 143	2.130 62	68.67 256	52.743 28	39.80 65
		109	267	55	131	120	270	58	50
	20.5	4.111 163	39.00 276	19.949 89	57.08 111	2.250 178	65.97	52.801	40.30
3	1.5	4.274 217	36.24 279	20.038 122	55.97 87	2.428 234	63.18 279	52.891 90	40.61 31
	11.5	4.491 269	33.45 276	20.160 156	55.10 57	2.662 289	60.37 281	53.012 121	40.69 8
	21.4	4.760 318	30.69 276	20.316 190	54.53 22	2.951 340	57.59 278	53.165 153	40.51 18
	31.4	5.078 364	28.02 267	20.506 220	54.31 14	3.291 388	54.91 268	53.350 185	40.06 45
			253				252	216	72
4	10.4	5.442	25.49	20.726	54.45	3.679	52.39	53.566	39.34
	20.3	5.846 404	23.14 235	20.975 249	54.96 51	4.110 431	50.06 233	53.810 244	38.34 100
	30.3	6.285 439	21.04 210	21.249 274	55.83 87	4.577 467	48.00 206	54.078 268	37.08 126
5	10.3	6.752 467	19.24 180	21.540 291	57.04 121	5.072 495	46.24 176	54.366 288	35.61 147
	20.3	7.236 484	17.77 147	21.844 304	58.56 152	5.586 514	44.83 141	54.666 300	33.96 165
		492	110	308	178	523	103	397	179
	30.2	7.728 488	16.67 70	22.152 305	60.34 199	6.109 520	43.80 61	54.973 305	32.17 187
6	9.2	8.216 474	15.97 29	22.457 294	62.33 214	6.629 504	43.19 18	55.278 297	30.30 190
	19.2	8.690 446	15.68 15	22.751 276	64.47 222	7.133 476	43.01 26	55.575 280	28.40 187
	29.2	9.136 408	15.83 57	23.027 249	66.69 222	7.609 437	43.27 69	55.855 255	26.53 180
7	9.1	9.544 357	16.40 96	23.276 217	68.95 223	8.046 385	43.96 110	56.110 225	24.73 168
	19.1	9.901	17.36	23.493	71.18	8.431	45.06	56.335	23.05
	29.1	10.200 299	18.70 134	23.672 179	73.33 215	8.756 325	46.53 147	56.524 189	21.52 153
8	8.0	10.432 232	20.36 166	23.810 138	75.36 203	9.011 255	48.34 181	56.672 148	20.18 134
	18.0	10.592 160	22.29 193	23.905 95	77.23 187	9.191 180	50.41 207	56.778 106	19.05 113
	27.9	10.676 84	24.41 212	23.956 51	78.89 166	9.293 102	52.68 227	56.840 62	18.13 92
		10	223	8	145	24	238	20	69
	6.9	10.686 62	26.64	23.964 31	80.34 121	9.317 51	55.06	56.860 21	17.44
9	16.9	10.624 127	28.90 226	23.933 67	81.55 96	9.266 120	57.47 241	56.839 56	16.97 47
	26.9	10.497 185	31.10 220	23.866 96	82.51 71	9.146 181	59.81 234	56.783 85	16.71 26
10	6.9	10.312 230	33.15 205	23.770 119	83.22 44	8.965 228	61.98 217	56.698 110	16.65 6
	16.9	10.082 264	34.96 181	23.651 135	83.66 19	8.737 264	63.91 193	56.588 125	16.76 11
			149				161		27
	26.8	9.818	36.45	23.516	83.85 7	8.473	65.52	56.463	17.03
11	5.8	9.537 281	37.57 112	23.372 144	83.78 7	8.189 284	66.73 121	56.330 133	17.44 41
	15.8	9.250 287	38.26 69	23.227 145	83.46 32	7.898 291	67.50 77	56.194 136	17.98 54
	25.7	8.972 278	38.50 24	23.087 140	82.89 57	7.615 283	67.80 30	56.064 130	18.62 64
12	5.7	8.716 256	38.28 22	22.958 129	82.10 79	7.354 261	67.62 18	55.944 120	19.34 72
		225	69	114	100	228	65	104	79
	15.7	8.491	37.59	22.844	81.10	7.126	66.97	55.840	20.13
	25.7	8.307 184	36.47 112	22.748 96	79.91 119	6.939 187	65.86 111	55.754 86	20.97 84
	35.6	8.169 138	34.96 151	22.676 72	78.58 133	6.800 139	64.34 152	55.690 64	21.82 85
平位		s 7.266	″ 35.51	s 21.552	″ 63.50	s 5.481	″ 62.04	s 54.460	″ 33.52
sec δ, tan δ		+ 1.755	− 1.442	+ 1.026	+ 0.228	+ 1.837	− 1.541	+ 1.000	− 0.010
2 回正中		8 月 20 日		8 月 22 日		8 月 22 日		8 月 23 日	
a	b	+ 0.2035	− 0.0820	+ 0.1456	+ 0.0131	+ 0.2050	− 0.0888	+ 0.1537	− 0.0006
a′	b	+ 0.8529	+ 0.5220	+ 0.8624	+ 0.5062	+ 0.8640	+ 0.5034	+ 0.8723	+ 0.4890
FK3番號		824		826		825		827	

星名	20 Ceph		ε Aqar		ε Pegs		α Grus	
等級	5.39		4.35		3.96		2.16	
スペクトル型	K5		B8		F5		B5	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 22 3	° +62 30	h m 22 3	° −14 8	h m 22 4	° +25 4	h m 22 4	° −47 13
	s	″	s	″	s	″	s	″
1 1.6	16.59	55.24	23.046	38.68	22.577	19.14	40.143	73.38
11.6	16.30 29	52.99 225	22.997 49	38.94 26	22.493 84	17.38 176	40.050 93	72.07 131
21.6	16.06 24	50.33 266	22.974 23	39.07 13	22.437 56	15.45 193	39.998 52	70.45 162
31.6	15.89 17	47.37 296	22.979 5	39.06 1	22.411 26	13.44 201	39.990 8	68.56 189
2 10.5	15.80 9	44.23 314	23.013 34	38.89 17	22.418 7	11.42 202	40.027 37	66.45 211
	1	321	65	34	42	194	82	229
20.5	15.79 —	41.02	23.078	38.55	22.460	9.48	40.109	64.16
3 1.5	15.86 7	37.89 313	23.173 95	38.02 53	22.538 78	7.71 177	40.236 127	61.74 242
11.5	16.01 15	34.94 295	23.301 128	37.29 73	22.655 117	6.18 153	40.408 172	59.24 250
21.4	16.25 24	32.30 264	23.461 160	36.36 93	22.810 155	4.98 120	40.625 217	56.71 253
31.4	16.57 32	30.07 223	23.653 192	35.24 112	23.002 192	4.15 83	40.885 260	54.19 252
	38	174	223	131	227	41	300	244
4 10.4	16.95	28.33 118	23.876	33.93	23.229	3.74 —	41.185	51.75
20.3	17.39 44	27.15 60	24.127 251	32.46 147	23.487 258	3.78 4	41.523 338	49.42 233
30.3	17.87 48	26.55 —	24.404 277	30.86 160	23.771 284	4.27 49	41.894 371	47.26 216
5 10.3	18.38 51	26.56 1	24.700 296	29.17 169	24.076 305	5.18 91	42.290 396	45.32 194
20.3	18.90 52	27.17 61	25.010 310	27.43 174	24.393 317	6.51 133	42.705 415	43.64 168
	53	118	318	173	322	170	424	136
30.2	19.43	28.35 172	25.328	25.70 169	24.715	8.21 201	43.129	42.28 102
6 9.2	19.94 51	30.07 221	25.645 317	24.01 159	25.034 319	10.22 226	43.554 425	41.26 65
19.2	20.41 47	32.28 263	25.953 308	22.42 145	25.340 306	12.48 246	43.968 414	40.61 26
29.2	20.85 44	34.91 297	26.245 292	20.97 126	25.627 287	14.94 259	44.362 394	40.35 13
7 9.1	21.22 37	37.88 325	26.513 268	19.71 106	25.885 258	17.53 264	44.724 362	40.48 52
	32		237		225		322	
19.1	21.54	41.13	26.750	18.65	26.110	20.17	45.046	41.00
29.1	21.78 24	44.58 345	26.950 200	17.82 83	26.295 185	22.82 265	45.319 273	41.89 89
8 8.0	21.94 16	48.14 356	27.109 159	17.24 58	26.437 142	25.41 259	45.535 216	43.12 123
18.0	22.02 8	51.75 361	27.224 115	16.89 35	26.533 96	27.89 248	45.691 156	44.63 151
27.9	22.03 1	55.31 356	27.293 69	16.79 10	26.584 51	30.20 231	45.784 93	46.37 174
	7	345	25	11	6	210	29	190
9 6.9	21.96	58.76	27.318	16.90	26.590	32.30	45.813	48.27
16.9	21.81 15	62.02 326	27.300 18	17.20 30	26.554 36	34.17 187	45.781 32	50.25 198
26.9	21.59 22	65.02 300	27.246 54	17.66 46	26.481 73	35.77 160	45.693 88	52.23 198
10 6.9	21.32 27	67.71 269	27.159 87	18.24 58	26.377 104	37.07 130	45.557 136	54.13 190
16.9	21.00 32	70.00 229	27.048 111	18.91 67	26.247 130	38.06 99	45.382 175	55.87 174
	37	186	129	71	148	65	204	150
26.8	20.63	71.86	26.919	19.62	26.099	38.71	45.178	57.37
11 5.8	20.23 40	73.23 137	26.782 137	20.35 73	25.940 159	39.02 31	44.957 221	58.57 120
15.8	19.82 41	74.07 84	26.642 140	21.06 71	25.778 162	38.98 4	44.731 226	59.42 85
25.7	19.40 42	74.34 27	26.508 134	21.73 67	25.618 160	38.59 39	44.510 221	59.89 47
12 5.7	18.99 41	74.03 31	26.386 122	22.34 61	25.467 151	37.85 74	44.305 205	59.95 6
	40	89	105	52	138	106	181	34
15.7	18.59	73.14	26.281	22.86	25.329	36.79	44.124	59.61
25.7	18.22 37	71.69 145	26.195 86	23.29 43	25.210 119	35.42 137	43.974 150	58.88 73
35.6	17.89 33	69.73 196	26.133 62	23.62 33	25.113 97	33.80 162	43.860 114	57.78 110
平位	s 18.218	″ 43.31	s 24.866	″ 31.78	s 24.070	″ 15.26	s 42.768	″ 58.97
sec δ, tan δ	+ 2.166	+ 1.922	+ 1.031	− 0.252	+ 1.104	+ 0.468	+ 1.473	− 1.081
2 回正中	8 月 23 日		8 月 23 日		8 月 23 日		8 月 23 日	
a b	+ 0.0909	+ 0.1119	+ 0.1615	− 0.0147	+ 0.1383	+ 0.0273	+ 0.1881	− 0.0632
a′ b′	+ 0.8731	+ 0.4875	+ 0.8734	+ 0.4871	+ 0.8755	+ 0.4833	+ 0.8761	+ 0.4821
FK3番號	830		828		831		829	

星名	μ PscA		27 Pegs		ϑ Pegs		π Pegs	
等級	4.62		5.65		3.70		4.38	
スペクトル型	A2		K0		A2		F5	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 22 5	° −33 15	h m 22 6	° +32 53	h m 22 7	° + 5 55	h m 22 7	° +32 53
	s	″	s	″	s	″	s	″
1 1.7	5.126	57.38	43.086	59.11	20.849	16.64	28.358	75.90
11.6	5.062 64	56.74 64	42.981 105	57.17 194	20.790 59	15.53 111	28.252 106	73.97 193
21.6	5.031 31	55.84 90	42.905 76	55.01 216	20.756 34	14.40 113	28.175 77	71.81 216
31.6	5.033 2	54.72 112	42.862 43	52.70 231	20.748 8	13.30 110	28.132 43	69.52 229
2 10.5	5.070 37	53.39 133	42.855 7	50.36 234	20.769 21	12.28 102	28.124 8	67.17 235
	72	152	32	230	50	88	31	230
20.5	5.142 108	51.87 168	42.887	48.06	20.819	11.40	28.155	64.87
3 1.5	5.250 145	50.19 181	42.960 73	45.91 215	20.902 83	10.70 70	28.228 73	62.72 215
11.5	5.395 182	48.38 193	43.075 115	43.99 192	21.017 115	10.24 46	28.342 114	60.81 191
21.4	5.577 217	46.45 200	43.232 157	42.40 159	21.165 148	10.06 18	28.498 156	59.22 159
31.4	5.794 252	44.45 204	43.431 199	41.21 119	21.346 181	10.18 12	28.696 198	58.02 120
			236	75	213	44	236	75
4 10.4	6.046 284	42.41 204	43.667	40.46 27	21.559 241	10.62 76	28.932 269	57.27 27
20.4	6.330 311	40.37 199	43.937 270	40.19 22	21.800 267	11.38 107	29.201 298	57.00 22
30.3	6.641 311	38.38 199	44.235 298	40.41 71	22.067 286	12.45 134	29.499 320	57.22 70
5 10.3	6.975 334	36.48 176	44.555 320	41.12 117	22.353 301	13.79 159	29.819 332	57.92 117
20.3	7.325 350	34.72 157	44.887 332	42.29 160	22.654 306	15.38 179	30.151 338	59.09 160
	359		337					
30.2	7.684	33.15	45.224	43.89	22.960	17.17	30.489	60.69
6 9.2	8.043 359	31.81 134	45.557 333	45.87 198	23.266 306	19.10 193	30.822 333	62.67 198
19.2	8.394 351	30.74 107	45.877 320	48.17 230	23.563 297	21.12 202	31.142 320	64.96 229
29.2	8.727 333	29.95 79	46.175 298	50.72 255	23.843 280	23.18 206	31.440 298	67.51 255
7 9.1	9.034 307	29.49 46	46.443 268	53.46 274	24.099 256	25.22 204	31.709 269	70.24 273
	272	14	231	285	226	196	233	286
19.1	9.306	29.35 —	46.674	56.31	24.325	27.18	31.942	73.10
29.1	9.538 232	29.52 17	46.864 190	59.22 291	24.514 189	29.03 185	32.132 190	76.00 290
8 8.0	9.722 184	30.01 49	47.008 144	62.10 288	24.664 150	30.73 170	32.277 145	78.89 289
18.0	9.856 134	30.77 76	47.104 96	64.91 281	24.771 107	32.24 151	32.374 97	81.70 281
27.9	9.938 82	31.78 101	47.151 47	67.58 267	24.835 64	33.54 130	32.422 48	84.37 267
	30	119	0	248	21	107	2	248
9 6.9	9.968 —	32.97	47.151 —	70.06	24.856 —	34.61	32.424 —	86.85
16.9	9.948 20	34.30 133	47.108 43	72.31 225	24.838 18	35.46 85	32.381 43	89.11 226
26.9	9.884 64	35.71 141	47.024 84	74.28 197	24.784 54	36.08 62	32.298 83	91.08 197
10 6.9	9.781 103	37.12 141	46.907 117	75.94 166	24.700 84	36.47 39	32.182 116	92.75 167
16.9	9.647 134	38.47 135	46.762 145	77.26 132	24.593 107	36.65 18	32.038 144	94.08 133
	155	124	165	95	124	4	164	95
26.8	9.492	39.71	46.597	78.21	24.469	36.61	31.874	95.03
11 5.8	9.325 167	40.77 106	46.420 177	78.77 56	24.335 134	36.38 23	31.697 177	95.60 57
15.8	9.155 170	41.62 85	46.236 184	78.92 15	24.199 136	35.96 42	31.514 183	95.76 16
25.7	8.990 165	42.22 60	46.054 182	78.66 26	24.067 132	35.37 59	31.332 182	95.51 25
12 5.7	8.838 152	42.56 34	45.879 175	77.99 67	23.944 123	34.63 74	31.157 175	94.85 66
	132	5	161	106	109	88	161	106
15.7	8.706	42.61 —	45.718	76.93	23.835	33.75	30.996	93.79
25.7	8.599 107	42.39 22	45.575 143	75.50 143	23.744 91	32.76 99	30.852 144	92.37 142
35.6	8.520 79	41.90 49	45.455 120	73.74 176	23.674 70	31.69 107	30.732 120	90.62 175
平位	s 7.290	″ 45.71	s 44.545	″ 53.24	s 22.439	″ 18.13	s 29.812	″ 70.03
sec δ, tan δ	+ 1.196	− 0.656	+ 1.191	+ 0.647	+ 1.005	+ 0.104	+ 1.191	+ 0.647
2 回正中	8 月 23 日		8 月 24 日		8 月 24 日		8 月 24 日	
a b	+ 0.1743	− 0.0384	+ 0.1329	+ 0.0380	+ 0.1501	+ 0.0061	+ 0.1330	+ 0.0380
a′ b′	+ 0.8770	+ 0.4805	+ 0.8804	+ 0.4743	+ 0.8817	+ 0.4719	+ 0.8819	+ 0.4714
FK3番號	832		833		834		835	

星名		24 Ceph		ζ Ceph		λ PscA		ε Octn	
等級	スペクトル型	4.99	G5	3.62	K0	5.40	B9	5.11	M3
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 22 8	° ′ +72 3	h m 22 8	° ′ +57 55	h m 22 11	° ′ −28 2	h m 22 13	° ′ −80 42
		s	″	s	″	s	″	s	″
1	1.7	42.24	68.04	52.931	40.29	6.546	54.05	43.53	90.05
	11.6	41.73 51	65.90 214	52.684 247	38.09 220	6.483 63	53.67 38	42.80 73	87.50 255
	21.6	41.30 43	63.32 258	52.486 198	35.50 259	6.449 34	53.06 61	42.27 53	84.55 295
	31.6	40.98 32	60.38 294	52.344 142	32.63 287	6.446 3	52.25 81	41.95 32	81.30 325
2	10.5	40.78 20	57.20 318	52.266 78	29.58 305	6.475 29	51.22 103	41.84 11	77.82 348
		7	329	10	311	62	121	11	360
	20.5	40.71 —	53.91	52.256 —	26.47	6.537	50.01	41.95	74.22
3	1.5	40.76 5	50.64 327	52.319 63	23.43 304	6.634 97	48.61 140	42.27 32	70.58 364
	11.5	40.95 19	47.51 313	52.453 134	20.59 284	6.765 131	47.06 155	42.79 52	66.99 359
	21.4	41.26 31	44.66 285	52.659 206	18.04 255	6.932 167	45.37 169	43.50 71	63.52 347
	31.4	41.69 43	42.18 248	52.931 272	15.90 214	7.133 201	43.56 181	44.39 89	60.25 327
		53	201	333	166	235	189	106	300
4	10.4	42.22	40.17	53.264	14.24 112	7.368	41.67	45.45	57.25
	20.4	42.83 61	38.70 147	53.649 385	13.12 53	7.635 267	39.73 194	46.64 119	54.59 266
	30.3	43.51 68	37.81 89	54.074 425	12.59 5	7.929 294	37.79 194	47.95 131	52.30 229
5	10.3	44.24 73	37.53 28	54.528 454	12.64 64	8.246 317	35.88 191	49.36 141	50.46 184
	20.3	44.98 74	37.87 34	54.996 468	13.28 121	8.579 333	34.07 181	50.83 147	49.09 137
		74	94	471		343	167	150	86
	30.2	45.72	38.81	55.467	14.49 173	8.922	32.40	52.33	48.23
6	9.2	46.43 71	40.31 150	55.926 459	16.22 220	9.266 344	30.90 150	53.83 150	47.90 33
	19.2	47.10 67	42.32 201	56.360 434	18.42 261	9.603 337	29.63 127	55.29 146	48.10 20
	29.2	47.70 60	44.79 247	56.759 399	21.03 294	9.924 321	28.61 102	56.67 138	48.82 72
7	9.1	48.22 52	47.66 287	57.110 351	23.97 321	10.221 297	27.88 73	57.94 127	50.05 123
		43	318	295		265	43	113	171
	19.1	48.65	50.84	57.405	27.18	10.486	27.45	59.07	51.76
	29.1	48.98 33	54.27 343	57.638 233	30.57 339	10.712 226	27.32 13	60.02 95	53.87 211
8	8.1	49.19 21	57.86 359	57.804 166	34.08 351	10.894 182	27.49 17	60.76 74	56.35 248
	18.0	49.29 10	61.54 368	57.900 96	37.61 353	11.028 134	27.94 45	61.28 52	59.10 275
	27.9	49.28 1	65.22 368	57.925 25	41.09 348	11.113 85	28.63 69	61.55 27	62.02 292
		13	361	43	337	36	91	2	300
9	6.9	49.15	68.83	57.882	44.46 318	11.149 —	29.54 107	61.57 —	65.02
	16.9	48.92 23	72.29 346	57.773 109	47.64 292	11.137 12	30.61 117	61.34 23	67.99 297
	26.9	48.58 34	75.53 324	57.605 168	50.56 260	11.084 53	31.78 122	60.87 47	70.82 283
10	6.9	48.16 42	78.47 294	57.384 221	53.16 223	10.993 91	33.00 121	60.18 69	73.39 257
	16.9	47.65 51	81.05 258	57.119 265	55.39 179	10.873 120	34.21 114	59.30 88	75.60 221
		57	216	301		140		103	176
	26.8	47.08	83.21	56.818	57.18 132	10.733	35.35 102	58.27	77.36
11	5.8	46.46 62	84.88 167	56.491 327	58.50 79	10.580 153	36.37 86	57.13 114	78.59 123
	15.8	45.81 65	86.01 113	56.147 344	59.29 25	10.423 157	37.23 67	55.93 120	79.24 65
	25.8	45.13 68	86.56 55	55.798 349	59.54 31	10.271 152	37.90 46	54.72 121	79.27 3
12	5.7	44.45 68	86.52 4	55.453 345	59.23 88	10.129 142	38.36 22	53.54 118	78.68 59
		65	66	331		123		110	119
	15.7	43.80	85.86	55.122	58.35 141	10.006	38.58 —	52.44	77.49
	25.7	43.18 62	84.61 125	54.815 307	56.94 191	9.903 103	38.57 1	51.47 97	75.72 177
	35.6	42.62 56	82.81 180	54.543 272	55.03	9.827 76	38.33 24	50.65 82	73.44 228
平位		s 44.080	″ 54.77	s 54.444	″ 29.03	s 8.558	″ 43.21	s 52.506	″ 71.53
sec δ, tan δ		+ 3.247	+ 3.090	+ 1.883	+ 1.596	+ 1.133	− 0.533	+ 6.201	− 6.120
2回正中		8月24日		8月24日		8月25日		8月25日	
a	b	+ 0.0572	+ 0.1822	+ 0.1038	+ 0.0941	+ 0.1696	− 0.0316	+ 0.3356	− 0.3650
a′	b′	+ 0.8845	+ 0.4666	+ 0.8848	+ 0.4660	+ 0.8893	+ 0.4573	+ 0.8947	+ 0.4467
FK3番號		837		836		838		839	

星名		ϑ Aqar		α Tucn		31 Pegs		γ Aqar	
等級	スペクトル型	4.32	K0	2.91	K2	4.93	B3p	3.97	A0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 22 13	° ′ −8 3	h m 22 14	° ′ −60 32	h m 22 18	° ′ +11 55	h m 22 18	° ′ −1 39
		s	″	s	″	s	″	s	″
1	1.7	51.080	52.00	37.67	39.54	44.094	21.00	44.231	76.68
	11.6	51.024 56	52.53 53	37.49 18	37.72 182	44.021 73	19.72 128	44.169 62	77.47 79
	21.6	50.991 33	52.97 44	37.37 12	35.52 220	43.972 49	18.37 135	44.130 39	78.21 74
	31.6	50.985 6	53.30 33	37.32 5	33.01 251	43.948 24	17.00 137	44.116 14	78.88 67
2	10.5	51.006 21	53.48 18	37.32 0	30.26 275	43.953 5	15.68 132	44.130 14	79.44 56
		51	3	8	293	35	121	43	40
	20.5	51.057 82	53.51 18	37.40	27.33	43.988	14.47	44.173	79.84
3	1.5	51.139 113	53.33 39	37.53 13	24.29 304	44.056 68	13.44 103	44.247 74	80.06 22
	11.5	51.252 146	52.94 61	37.73 20	21.21 308	44.158 102	12.64 80	44.353 106	80.05 1
	21.4	51.398 179	52.33 85	38.00 27	18.15 306	44.295 137	12.12 52	44.491 138	79.79 26
	31.4	51.577 210	51.48 107	38.32 32	15.18 297	44.466 171	11.92 20	44.664 173	79.27 52
				38	283	205	15	204	79
4	10.4	51.787 240	50.41 129	38.70	12.35 261	44.671	12.07	44.868 234	78.48
	20.4	52.027 267	49.12 148	39.13 43	9.74 235	44.907 236	12.58 51	45.102 261	77.42 106
	30.3	52.294 287	47.64 163	39.60 47	7.39 204	45.170 263	13.44 86	45.363 282	76.13 129
5	10.3	52.581 302	46.01 173	40.11 51	5.35 167	45.455 285	14.63 119	45.645 298	74.62 151
	20.3	52.883 311	44.28 180	40.65 54	3.68 126	45.755 300	16.12 149	45.943 308	72.94 168
				55		309	175		181
	30.2	53.194	42.48	41.20	2.42	46.064	17.87	46.251	71.13
6	9.2	53.506 312	40.67 181	41.75 55	1.59 83	46.372 308	19.82 195	46.559 308	69.25 188
	19.2	53.811 305	38.90 177	42.29 54	1.22 37	46.673 301	21.92 210	46.861 302	67.34 191
	29.2	54.101 290	37.22 168	42.81 52	1.31 9	46.959 286	24.11 219	47.149 288	65.47 187
7	9.1	54.369 268	35.67 155	43.29 48	1.87 56	47.221 262	26.34 223	47.414 265	63.67 180
		238	138	43	100	232	219	237	167
	19.1	54.607	34.29	43.72	2.87	47.453	28.53	47.651	62.00
	29.1	54.810 203	33.11 118	44.08 36	4.28 141	47.650 197	30.66 213	47.853 202	60.49 151
8	8.1	54.973 163	32.15 96	44.38 30	6.05 177	47.808 158	32.67 201	48.016 163	59.18 131
	18.0	55.094 121	31.43 72	44.59 21	8.13 208	47.923 115	34.52 185	48.138 122	58.07 111
	28.0	55.170 76	30.94 49	44.72 13	10.43 230	47.995 72	36.17 165	48.216 78	57.19 88
		33	27	4	245	29	144	36	65
9	6.9	55.203 —	30.67 —	44.76 —	12.88	48.024 —	37.61	48.252 —	56.54
	16.9	55.195 8	30.62 5	44.72 4	15.38 250	48.013 11	38.82 121	48.247 5	56.12 42
	26.9	55.151 44	30.76 14	44.60 12	17.84 246	47.966 47	39.79 97	48.206 41	55.90 22
10	6.9	55.074 77	31.06 30	44.40 20	20.14 230	47.888 78	40.50 71	48.134 72	55.88 2
	16.9	54.973 101	31.50 44	44.15 25	22.21 207	47.785 103	40.97 47	48.037 97	56.03 15
		119	53	29	175	121	22	116	31
	26.8	54.854	32.03	43.86	23.96	47.664	41.19 —	47.921	56.34
11	5.8	54.724 130	32.64 61	43.53 33	25.31 135	47.531 133	41.16 3	47.795 126	56.77 43
	15.8	54.591 133	33.29 65	43.20 33	26.19 88	47.394 137	40.90 26	47.665 130	57.32 55
	25.8	54.461 130	33.96 67	42.86 34	26.59 40	47.258 136	40.41 49	47.536 129	57.96 64
12	5.7	54.341 120	34.64 68	42.53 33	26.47 12	47.128 130	39.70 71	47.416 120	58.66 70
		106	66	29	62	117	90	108	76
	15.7	54.235	35.30	42.24	25.85	47.011	38.80	47.308	59.42
	25.7	54.146 89	35.92 62	41.99 25	24.73 112	46.908 103	37.73 107	47.216 92	60.20 78
	35.6	54.078 68	36.48 56	41.78 21	23.16 157	46.825 83	36.52 121	47.144 72	60.99 79
平位		s 52.772	″ 46.30	s 41.024	″ 22.39	s 45.586	″ 21.06	s 45.832	″ 72.63
sec δ, tan δ		+ 1.010	− 0.142	+ 2.033	− 1.770	+ 1.022	+ 0.211	+ 1.000	− 0.029
2回正中		8月25日		8月26日		8月27日		8月27日	
a	b	+ 0.1575	− 0.0084	+ 0.2057	− 0.1058	+ 0.1473	+ 0.0127	+ 0.1542	− 0.0018
a′	b′	+ 0.8947	+ 0.4467	+ 0.8963	+ 0.4435	+ 0.9040	+ 0.4275	+ 0.9040	+ 0.4275
FK3番號		840		841		843		842	

星名	β Lacr		ν Grus		δ¹ Grus		δ Ceph	
等級	4.58		5.48		4.02		3.7–4.4	
スペクトル型	K0		K0		G5		F5–G0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 22 21	° ′ ″ +51 56	h m s 22 25	° ′ ″ −39 24	h m s 22 25	° ′ ″ −43 46	h m s 22 27	° ′ ″ +58 7
1 1.7	19.783 206	62.90 205	20.448 94	71.14 84	53.482 106	71.76 104	3.790 266	52.52 200
11.6	19.577 168	60.85 243	20.354 61	70.30 115	53.376 71	70.72 136	3.524 223	50.52 241
21.6	19.409 123	58.42 270	20.293 27	69.15 142	53.305 33	69.36 166	3.301 171	48.11 274
31.6	19.286 71	55.72 287	20.266 10	67.73 167	53.272 7	67.70 192	3.130 109	45.37 295
2 10.6	19.215 15	52.85 294	20.276 47	66.06 189	53.279 47	65.78 212	3.021 42	42.42 305
20.5	19.200 45	49.91 287	20.323 88	64.17 206	53.326 91	63.66 230	2.979 29	39.37 302
3 1.5	19.245 106	47.04 270	20.411 127	62.11 220	53.417 133	61.36 243	3.008 102	36.35 288
11.5	19.351 168	44.34 240	20.538 168	59.91 231	53.550 176	58.93 250	3.110 176	33.47 262
21.4	19.519 227	41.94 203	20.706 208	57.60 236	53.726 219	56.43 250	3.286 246	30.85 226
31.4	19.746 281	39.91 157	20.914 247	55.24 237	53.945 260	53.89 254	3.532 311	28.59 180
10.4	20.027	38.34 105	21.161 284	52.87 233	54.205 300	51.38 245	3.843 367	26.79 129
4 20.4	20.357 330	37.29 49	21.445 317	50.54 225	54.505 334	48.93 233	4.210 413	25.50 73
30.3	20.725 368	36.80 7	21.762 344	48.29 211	54.839 363	46.60 215	4.623 448	24.77 15
5 10.3	21.123 398	36.87 65	22.106 365	46.18 193	55.202 385	44.45 192	5.071 468	24.62 44
20.3	21.539 416 422	37.52 118	22.471 379	44.25 168	55.587 400	42.53 165	5.539 477	25.06 101
30.3	21.961	38.70	22.850	42.57	55.987	40.88	6.016	26.07
6 9.2	22.377 416	40.38 168	23.233 383	41.17 140	56.391 404	39.55 133	6.486 470	27.60 153
19.2	22.776 399	42.52 214	23.612 379	40.08 109	56.790 399	38.58 97	6.937 451	29.63 203
29.2	23.147 371	45.05 253	23.975 363	39.34 74	57.174 384	37.98 60	7.356 419	32.08 245
7 9.1	23.480 333 288	47.90 285 310	24.314 339 307	38.97 37 0	57.533 359 323	37.77 21 19	7.732 376 324	34.89 281 311
19.1	23.768	51.00	24.621	38.97	57.856	37.96	8.056	38.00
29.1	24.002 234	54.28 328	24.886 265	39.34 37	58.137 281	38.52 56	8.321 265	41.32 332
8 8.1	24.178 176	57.65 337	25.104 218	40.05 71	58.367 230	39.46 94	8.520 199	44.78 346
18.0	24.294 116	61.06 341	25.270 166	41.08 103	58.542 175	40.71 125	8.651 131	48.31 353
28.0	24.349 55 6	64.41 335 324	25.380 110 54	42.38 130 152	58.658 116 57	42.22 151 173	8.712 61 8	51.82 351 342
6.9	24.343	67.65	25.434	43.90	58.715	43.95	8.704	55.24
9 16.9	24.280 63	70.70 305	25.434 0	45.56 166	58.713 2	45.82 187	8.630 74	58.51 327
26.9	24.164 116	73.51 281	25.385 49	47.30 174	58.658 55	47.74 192	8.495 135	61.55 304
10 6.9	24.001 163	76.01 250	25.291 94	49.03 173	58.555 103	49.63 189	8.304 191	64.30 275
16.9	23.798 203 235	78.15 214 174	25.160 131 158	50.70 167 151	58.412 143 173	51.42 179 161	8.066 238 278	66.70 240 200
26.8	23.563	79.89	25.002	52.21	58.239	53.03	7.788	68.70
11 5.8	23.304 259	81.17 128	24.825 177	53.51 130	58.046 193	54.38 135	7.479 309	70.23 153
15.8	23.029 275	81.96 79	24.641 184	54.54 103	57.843 203	55.43 105	7.149 330	71.26 103
25.8	22.748 281	82.23 27	24.456 185	55.27 73	57.640 203	56.14 71	6.807 342	71.75 49
12 5.7	22.468 280 270	81.96 27 79	24.282 174 159	55.66 39 4	57.447 193 176	56.46 32 7	6.463 344 336	71.68 7 63
15.7	22.198	81.17	24.123	55.70	57.271	56.39	6.127	71.05
25.7	21.946 252	79.86 131	23.987 136	55.39 31	57.119 152	55.94 45	5.810 317	69.87 118
35.7	21.721 225	78.09 177	23.879 108	54.75 64	56.997 122	55.11 83	5.521 289	68.18 169
平位	s 21.163	″ 52.67	s 22.646	″ 56.80	s 55.814	″ 56.48	s 5.156	″ 41.07
sec δ, tan δ	+ 1.622	+ 1.278	+ 1.294	− 0.822	+ 1.385	− 0.958	+ 1.894	+ 1.608
2 回正中	8 月 27 日		8 月 28 日		8 月 29 日		8 月 29 日	
a b	+ 0.1178	+ 0.0774	+ 0.1753	− 0.0502	+ 0.1788	− 0.0586	+ 0.1110	+ 0.0985
a′ b′	+ 0.9088	+ 0.4173	+ 0.9160	+ 0.4012	+ 0.9169	+ 0.3990	+ 0.9189	+ 0.3944
FK3番號	844		845		846		847	

星名	α Lacr		υ Aqar		η Aqar		31 Ceph	
等級	3.85		5.29		4.13		5.22	
スペクトル型	A0		F5		B8		F0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 22 28	° ′ ″ +49 59	h m s 22 31	° ′ ″ −20 59	h m s 22 32	° ′ ″ − 0 24	h m s 22 34	° ′ ″ +73 20
1 1.7	57.411 198	48.75 196	36.216 72	54.78 0	27.194 71	28.23 81	21.55 60	82.00 180
11.6	57.213 163	46.79 232	36.144 48	54.78 21	27.123 50	29.04 78	20.95 51	80.20 231
21.6	57.050 122	44.47 261	36.096 22	54.57 40	27.073 27	29.82 72	20.44 42	77.89 271
31.6	56.928 75	41.86 278	36.074 7	54.17 60	27.046 1	30.54 60	20.02 30	75.18 301
2 10.6	56.853 21	39.08 285	36.081 36	53.57 80	27.047 28	31.14 46	19.72 17	72.17 321
20.5	56.832 36	36.23 280	36.117 69	52.77 101	27.075 59	31.60 27	19.55 3	68.96
3 1.5	56.868 94	33.43 263	36.186 102	51.76 120	27.134 91	31.87 6	19.52 11	65.71 325
11.5	56.962 153	30.80 235	36.288 137	50.56 138	27.225 125	31.93 20	19.63 25	62.52 319
21.4	57.115 211	28.45 200	36.425 172	49.18 155	27.350 160	31.73 46	19.88 39	59.54 298
31.4	57.326 264	26.45 154	36.597 207	47.63 169	27.510 193	31.27 74	20.27 50	56.87 267 225
10.4	57.590	24.91 104	36.804	45.94 181	27.703	30.53	20.77	54.62
4 20.4	57.902 312	23.87 50	37.043 239	44.13 189	27.927 224	29.52 101	21.38 61	52.86 176
30.3	58.254 352	23.37 7	37.312 269	42.24 193	28.180 253	28.25 127	22.07 69	51.66 120
5 10.3	58.635 381	23.44 61	37.605 293	40.31 191	28.457 277	26.77 148	22.82 75	51.04 62
20.3	59.037 402 410	24.05 115	37.919 314 325	38.40 185	28.752 295 305	25.09 181	23.61 79 80	51.03 1 59
30.3	59.447	25.20	38.244	36.55	29.057	23.28	24.41	51.62
6 9.2	59.854 407	26.85 165	38.574 330	34.82 173	29.367 310	21.37 191	25.19 78	52.79 117
19.2	60.246 392	28.94 209	38.900 326	33.24 158	29.671 304	19.43 194	25.94 75	54.49 170
29.2	60.614 368	31.42 248	39.214 314	31.86 138	29.964 293	17.50 193	26.63 69	56.70 221
7 9.1	60.947 333 290	34.22 280 305	39.508 294 266	30.73 113 88	30.236 272 245	15.64 186 175	27.25 62 52	59.33 263 300
19.1	61.237	37.27	39.774	29.85	30.481	13.89	27.77	62.33
29.1	61.477 240	40.50 323	40.006 232	29.26 59	30.693 212	12.29 160	28.20 43	65.62 329
8 8.1	61.663 186	43.82 332	40.197 191	28.96 30	30.868 175	10.88 141	28.51 31	69.13 351
18.0	61.790 127	47.18 336	40.345 148	28.94 2	31.001 133	9.68 120	28.71 20	72.78 365
28.0	61.859 69 10	50.49 331 320	40.446 101 56	29.19 25 49	31.092 91 49	8.71 97 74	28.78 7 4	76.49 371 369
6.9	61.869	53.69	40.502	29.68	31.141	7.97	28.74	80.18
9 16.9	61.824 45	56.72 303	40.513 11	30.37 69	31.149 8	7.45 52	28.57 17	83.79 361
26.9	61.728 96	59.51 279	40.483 30	31.22 85	31.120 29	7.15 30	28.30 27	87.22 343
10 6.9	61.586 142	62.00 249	40.417 66	32.18 96	31.059 61	7.06 9	27.92 38	90.40 318
16.9	61.405 181 214	64.14 214 175	40.322 95 117	33.20 102 103	30.972 87 106	7.15 9 26	27.46 46 55	93.28 288 248
26.8	61.191	65.89	40.205	34.23	30.866	7.41	26.91	95.76
11 5.8	60.954 237	67.19 130	40.074 131	35.21 98	30.746 120	7.80 39	26.29 62	97.79 203
15.8	60.701 253	68.02 83	39.935 139	36.11 90	30.621 125	8.32 52	25.62 67	99.31 152
25.8	60.439 262	68.34 32	39.797 138	36.89 78	30.494 127	8.94 62	24.92 70	100.27 96
12 5.7	60.178 261 254	68.14 20 72	39.666 131 120	37.53 64 47	30.374 120 111	9.64 70 76	24.20 72 72	100.63 36 25
15.7	59.924	67.42	39.546	38.00	30.263	10.40	23.48	100.38
25.7	59.686 238	66.20 122	39.443 103	38.30 30	30.165 98	11.20 80	22.79 69	99.52 86
35.7	59.471 215	64.52 168	39.360 83	38.39 9	30.085 80	12.00 80	22.15 64	98.08 144
平位	s 58.731	″ 38.89	s 37.986	″ 44.63	s 28.715	″ 24.07	s 23.078	″ 68.25
sec δ, tan δ	+ 1.556	+ 1.192	+ 1.071	− 0.384	+ 1.000	− 0.007	+ 3.491	+ 3.344
2 回正中	8 月 29 日		8 月 30 日		8 月 30 日		8 月 31 日	
a b	+ 0.1226	+ 0.0733	+ 0.1630	− 0.0237	+ 0.1535	− 0.0004	+ 0.0720	+ 0.2076
a′ b′	+ 0.9222	+ 0.3868	+ 0.9266	+ 0.3761	+ 0.9280	+ 0.3727	+ 0.9310	+ 0.3649
FK3番號	848		849		850		851	

星名 / 等級 / スペクトル型	30 Ceph 5.21 A2		10 Lacr 4.91 Oe5		ε PscA 4.22 B8		ζ Pegs 3.61 B8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 22 36	° ′ +63 17	h m 22 36	° ′ +38 45	h m 22 37	° ′ −27 19	h m 22 38	° ′ +10 32
	s	″	s	″	s	″	s	″
1 1.7	38.15	47.20 187	43.349 146	37.11 179	31.883 83	82.54 26	38.645 83	17.70 116
11.6	37.80 35	45.33 233	43.203 119	35.32 208	31.800 58	82.28 51	38.562 63	16.54 122
21.6	37.51 29	43.00 269	43.084 87	33.24 230	31.742 30	81.77 75	38.499 39	15.32 124
31.6	37.27 24	40.31 296	42.997 51	30.94 242	31.712 1	81.02 98	38.460 13	14.08 118
2 10.6	37.11 16	37.35 310	42.946 11	28.52 245	31.711 31	80.04 119	38.447 16	12.90 109
	8							
20.5	37.03	34.25	42.935	26.07	31.742	78.85	38.463	11.81
3 1.5	37.03 0	31.13 312	42.969 34	23.70 237	31.806 64	77.45 140	38.512 49	10.89 92
11.5	37.12 9	28.12 301	43.050 81	21.51 219	31.906 100	75.87 158	38.594 82	10.19 70
21.5	37.29 17	25.33 279	43.179 129	19.59 192	32.041 135	74.12 175	38.711 117	9.75 44
31.4	37.55 26	22.87 246	43.355 176	18.03 156	32.214 173	72.23 189	38.864 153	9.61 14
	34	203	221	115	209	199	189	19
4 10.4	37.89	20.84	43.576	16.88 67	32.423	70.24	39.053	9.80
20.4	38.30 41	19.32 152	43.839 263	16.21 18	32.666 243	68.18 206	39.275 222	10.34 54
30.3	38.76 46	18.34 98	44.137 298	16.03 33	32.941 275	66.09 209	39.527 252	11.20 86
5 10.3	39.27 51	17.95 39	44.463 326	16.36 83	33.243 302	64.02 207	39.804 277	12.39 119
20.3	39.80 53	18.15 20	44.809 346	17.19 129	33.565 322	62.03 199	40.099 295	13.86 147
	54	79	356		337	187	306	172
30.3	40.34	18.94	45.165	18.48	33.902	60.16	40.405	15.58
6 9.2	40.88 54	20.28 134	45.522 357	20.21 173	34.245 343	58.46 170	40.716 311	17.50 192
19.2	41.40 52	22.13 185	45.870 348	22.31 210	34.585 340	56.97 149	41.022 306	19.56 206
29.2	41.88 48	24.45 232	46.200 330	24.74 243	34.914 329	55.74 123	41.316 294	21.71 215
7 9.2	42.32 44	27.16 271	46.503 303	27.42 268	35.224 310	54.80 94	41.589 273	23.89 218
	38	304	268	287	281	63	247	215
19.1	42.70	30.20	46.771	30.29	35.505	54.17	41.836	26.04
29.1	43.01 31	33.50 330	46.998 227	33.28 299	35.751 246	53.86 31	42.049 213	28.12 208
8 8.1	43.24 23	36.98 348	47.180 182	36.32 304	35.956 205	53.87 1	42.225 176	30.07 195
18.0	43.40 16	40.56 358	47.313 133	39.34 302	36.116 160	54.19 32	42.360 135	31.87 180
28.0	43.48 8	44.17 361	47.395 82	42.29 295	36.228 112	54.79 60	42.452 92	33.48 161
	1	355	33	285	64	84	51	139
9 6.9	43.49	47.72	47.428	45.09	36.292	55.63	42.503	34.87
16.9	43.41 8	51.15 343	47.414 14	47.70 261	36.309 17	56.67 104	42.513 10	36.04 117
26.9	43.26 15	54.39 324	47.356 58	50.07 237	36.282 27	57.86 119	42.486 27	36.96 92
10 6.9	43.05 21	57.36 297	47.260 96	52.16 209	36.217 65	59.13 127	42.427 59	37.65 69
16.9	42.77 28	60.00 264	47.130 130	53.91 175	36.119 98	60.41 128	42.342 85	38.10 45
	32	225	156	140	122	126	106	21
26.9	42.45	62.25	46.974	55.31	35.997	61.67	42.236	38.31
11 5.8	42.09 36	64.04 179	46.799 175	56.30 99	35.859 138	62.82 115	42.115 121	38.29 2
15.8	41.70 39	65.33 129	46.611 188	56.88 58	35.711 148	63.83 101	41.987 128	38.06 23
25.8	41.29 41	66.07 74	46.416 195	57.02 14	35.563 148	64.67 84	41.857 130	37.62 44
12 5.7	40.87 42	66.24 17	46.222 194	56.71 31	35.420 143	65.28 61	41.730 127	36.98 64
	42	42	187	75	130	38	119	82
15.7	40.45	65.82	46.035	55.96	35.290	65.66	41.611	36.16
25.7	40.05 40	64.83 99	45.859 176	54.79 117	35.175 115	65.79 13	41.504 107	35.20 96
35.7	39.68 37	63.29 154	45.702 157	53.23 156	35.081 94	65.68 11	41.413 91	34.11 109
平位	s 39.465	″ 34.81	s 44.627	″ 29.91	s 33.724	″ 70.38	s 40.047	″ 18.67
sec δ, tan δ	+ 2.225	+ 1.988	+ 1.282	+ 0.803	+ 1.126	− 0.517	+ 1.017	+ 0.186
2 回正中	8 月 31 日		8 月 31 日		9 月 1 日		9 月 1 日	
a b	+ 0.1062	+ 0.1238	+ 0.1343	+ 0.0500	+ 0.1655	− 0.0323	+ 0.1490	+ 0.0116
a′ b′	+ 0.9346	+ 0.3557	+ 0.9347	+ 0.3553	+ 0.9360	+ 0.3520	+ 0.9377	+ 0.3475
FK3番號	853		852		854		855	

星名 / 等級 / スペクトル型	β Grus 2.24 M3		η Pegs 3.10 G0		13 Lacr 5.24 K0		λ Pegs 4.14 K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 22 39	° ′ −47 10	h m 22 40	° ′ +29 55	h m 22 41	° ′ +41 31	h m 22 43	° ′ +23 16
	s	″	s	″	s	″	s	″
1 1.7	17.587 131	57.75 109	21.107 119	45.20 162	34.075 160	37.77 177	48.529 105	16.53 146
11.6	17.456 96	56.66 146	20.988 96	43.58 184	33.915 133	36.00 209	48.424 84	15.07 164
21.6	17.360 57	55.20 179	20.892 69	41.74 201	33.782 102	33.91 234	48.340 59	13.43 175
31.6	17.303 16	53.41 206	20.823 37	39.73 208	33.680 63	31.57 248	48.281 31	11.68 179
2 10.6	17.287 27	51.35 231	20.786 3	37.65 207	33.617 21	29.09 253	48.250 1	9.89 174
20.5	17.314	49.04	20.783	35.58	33.596	26.56	48.251	8.15
3 1.5	17.386 72	46.55 249	20.819 36	33.61 197	33.622 26	24.09 247	48.287 36	6.52 163
11.5	17.504 118	43.93 262	20.896 77	31.84 177	33.696 74	21.78 231	48.361 74	5.10 142
21.5	17.669 165	41.23 270	21.015 119	30.33 151	33.821 125	19.73 205	48.475 114	3.94 116
31.4	17.880 211	38.49 274	21.177 162	29.17 116	33.997 176	18.02 171	48.628 153	3.11 83
	256	271	202	76	222	128	192	45
4 10.4	18.136	35.78	21.379	28.41	34.219	16.74	48.820	2.66
20.4	18.436 300	33.15 263	21.620 241	28.08 33	34.486 267	15.93 81	49.048 228	2.61 5
30.3	18.774 338	30.66 249	21.893 273	28.20 12	34.790 304	15.61 32	49.309 261	2.97 36
5 10.3	19.145 371	28.36 230	22.194 301	28.79 59	35.124 334	15.82 21	49.596 287	3.75 78
20.3	19.542 397	26.31 205	22.514 320	29.81 102	35.479 355	16.53 71	49.903 307	4.91 116
	415	175	331	143	366	120	318	153
30.3	19.957	24.56	22.845	31.24	35.845	17.73	50.221	6.44
6 9.2	20.380 423	23.15 141	23.179 334	33.03 179	36.214 369	19.39 166	50.544 323	8.28 184
19.2	20.801 421	22.12 103	23.507 328	35.14 211	36.573 359	21.44 205	50.862 318	10.37 209
29.2	21.209 408	21.49 63	23.819 312	37.51 237	36.914 341	23.84 240	51.166 304	12.68 231
7 9.2	21.594 385	21.29 20	24.108 289	40.07 256	37.228 314	26.52 268	51.449 283	15.12 244
	350	21	258	269	279	289	255	252
19.1	21.944	21.50	24.366	42.76	37.507	29.41	51.704	17.64
29.1	22.252 308	22.13 63	24.587 221	45.51 275	37.744 237	32.44 303	51.924 220	20.18 254
8 8.1	22.509 257	23.14 101	24.766 179	48.27 276	37.934 190	35.54 310	52.104 180	22.69 251
18.0	22.709 200	24.50 136	24.901 135	50.96 269	38.074 140	38.65 311	52.243 139	25.10 241
28.0	22.847 138	26.15 165	24.990 89	53.54 258	38.163 89	41.69 304	52.337 94	27.37 227
	77	188	44	242	38	293	51	210
9 6.9	22.924	28.03	25.034	55.96	38.201	44.62	52.388	29.47
16.9	22.938 14	30.06 203	25.033 1	58.17 221	38.189 12	47.36 274	52.396 8	31.35 188
26.9	22.895 43	32.15 209	24.993 40	60.14 197	38.133 56	49.87 251	52.366 30	32.98 163
10 6.9	22.799 96	34.23 208	24.917 76	61.83 169	38.036 97	52.10 223	52.302 64	34.35 137
16.9	22.659 140	36.19 196	24.811 106	63.21 138	37.903 133	54.00 190	52.210 92	35.44 109
	176	178	130	106	160	154	116	78
26.9	22.483	37.97	24.681	64.27	37.743	55.54	52.094	36.22
11 5.8	22.282 201	39.48 151	24.534 147	64.97 70	37.561 182	56.68 114	51.963 131	36.70 48
15.8	22.067 215	40.67 119	24.376 158	65.31 34	37.365 196	57.38 70	51.821 142	36.86 16
25.8	21.848 219	41.48 81	24.213 163	65.27 4	37.160 205	57.63 25	51.675 146	36.69 17
12 5.7	21.636 212	41.87 39	24.051 162	64.85 42	36.954 206	57.42 21	51.530 145	36.21 48
	198	2	155	78	201	67	139	78
15.7	21.438	41.85	23.896	64.07	36.753	56.75	51.391	35.43
25.7	21.262 176	41.40 45	23.751 145	62.95 112	36.564 189	55.63 112	51.263 128	34.36 107
35.7	21.115 147	40.53 87	23.622 129	61.51 144	36.391 173	54.11 152	51.149 114	33.04 132
平位	s 19.934	″ 40.92	s 22.393	″ 40.42	s 35.318	″ 29.90	s 49.828	″ 13.72
sec δ, tan δ	+ 1.471	− 1.079	+ 1.154	+ 0.576	+ 1.336	+ 0.886	+ 1.089	+ 0.430
2 回正中	9 月 1 日		9 月 1 日		9 月 2 日		9 月 2 日	
a b	+ 0.1781	− 0.0675	+ 0.1403	+ 0.0361	+ 0.1335	+ 0.0556	+ 0.1440	+ 0.0271
a′ b′	+ 0.9387	+ 0.3448	+ 0.9403	+ 0.3405	+ 0.9420	+ 0.3355	+ 0.9453	+ 0.3263
FK3番號	856		857		858		859	

星名	ε Grus		τ Aqar		μ Pegs		ι Ceph	
等級	3.69		4.21		3.67		3.68	
スペクトル型	A2		K5		K0		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 22 45	° ′ −51 36	h m 22 46	° ′ −13 53	h m 22 47	° ′ +24 18	h m 22 47	° ′ +65 54
	s	″	s	″	s	″	s	″
1 1.7	8.456 158	60.59 123	36.107 79	27.89 30	16.545 109	22.76 146	39.55 40	33.08 171
11.7	8.298 120	59.36 163	36.028 58	28.19 16	16.436 88	21.30 165	39.15 35	31.37 221
21.6	8.178 77	57.73 197	35.970 36	28.35 1	16.348 64	19.65 177	38.80 29	29.16 260
31.6	8.101 32	55.76 227	35.934 9	28.34 19	16.284 35	17.88 182	38.51 21	26.56 290
2 10.6	8.069 15	53.49 252	35.925 18	28.15 39	16.249 4	16.06 178	38.30 13	23.66 309
20.5	8.084 64	50.97 270	35.943 49	27.76 58	16.245 32	14.28 168	38.17 3	20.57 314
3 1.5	8.148 116	48.27 284	35.992 82	27.18 80	16.277 71	12.60 148	38.14 7	17.43 308
11.5	8.264 166	45.43 290	36.074 116	26.38 101	16.348 110	11.12 121	38.21 16	14.35 289
21.5	8.430 217	42.53 292	36.190 151	25.37 122	16.458 150	9.91 89	38.37 26	11.46 258
31.4	8.647 268	39.61 288	36.341 186	24.15 142	16.608 190	9.02 52	38.63 35	8.88 218
4 10.4	8.915	36.73 276	36.527 220	22.73 160	16.798 227	8.50 11	38.98 42	6.70 170
20.4	9.229 314	33.97 260	36.747 251	21.13 174	17.025 261	8.39 31	39.40 49	5.00 116
30.4	9.586 357	31.37 238	36.998 276	19.39 184	17.286 287	8.70 72	39.89 54	3.84 59
5 10.3	9.980 394	28.99 209	37.274 298	17.55 191	17.573 308	9.42 112	40.43 57	3.25 1
20.3	10.403 423 443	26.90 177	37.572 312	15.64 191	17.881 320	10.54 149	41.00 59	3.26 59
30.3	10.846	25.13	37.884	13.73 188	18.201 325	12.03 181	41.59 59	3.85 116
6 9.2	11.300 454	23.74 139	38.203 319	11.85 179	18.526 320	13.84 209	42.18 57	5.01 169
19.2	11.753 453	22.75 99	38.520 317	10.06 165	18.846 307	15.93 229	42.75 53	6.70 217
29.2	12.193 440	22.20 55	38.828 308	8.41 147	19.153 287	18.22 245	43.28 49	8.87 259
7 9.2	12.610 417 381	22.10 10 34	39.118 290 265	6.94 124	19.440 258	20.67 254	43.77 42	11.46 295
19.1	12.991	22.44	39.383	5.70 101	19.698 223	23.21 257	44.19 36	14.41 323
29.1	13.327 336	23.22 78	39.616 233	4.69 74	19.921 185	25.78 254	44.55 27	17.64 344
8 8.1	13.610 283	24.40 118	39.812 196	3.95 47	20.106 142	28.32 246	44.82 20	21.08 358
18.1	13.832 222	25.94 154	39.967 155	3.48 21	20.248 98	30.78 232	45.02 10	24.66 364
28.0	13.987 155 89	27.78 184 207	40.078 111 67	3.27 4	20.346 54	33.10 215	45.12 3	28.30 361
9 6.9	14.076 21	29.85 222	40.145 25	3.31 28	20.400 12	35.25 194	45.15 6	31.91 353
16.9	14.097 44	32.07 228	40.170 14	3.59 46	20.412 26	37.19 170	45.09 15	35.44 335
26.9	14.053 101	34.35 225	40.156 49	4.05 62	20.386 62	38.89 144	44.94 21	38.79 311
10 6.9	13.952 152	36.60 212	40.107 79	4.67 74	20.324 90	40.33 115	44.73 28	41.90 281
16.9	13.800 193	38.72 191	40.028 101	5.41 81	20.234 114	41.48 84	44.45 34	44.71 243
26.9	13.607 223	40.63 162	39.927 116	6.22 84	20.120 131	42.32 53	44.11 39	47.14 199
11 5.8	13.384 240	42.25 125	39.811 125	7.06 83	19.989 141	42.85 21	43.72 43	49.13 149
15.8	13.144 247	43.50 84	39.686 128	7.89 78	19.848 147	43.06 12	43.29 45	50.62 95
25.8	12.897 242	44.34 39	39.558 125	8.67 72	19.701 146	42.94 45	42.84 47	51.57 38
12 5.7	12.655 227	44.73 7	39.433 116	9.39 62	19.555 141	42.49 75	42.37 46	51.95 21
15.7	12.428 206	44.66 53	39.317 103	10.01 52	19.414 132	41.74 104	41.91 46	51.74 80
25.7	12.222 175	44.13 98	39.214 88	10.53 38	19.282 117	40.70 132	41.45 42	50.94 138
35.7	12.047	43.15	39.126	10.91	19.165	39.38	41.03	49.56
平位	s 10.935	″ 42.55	s 37.695	″ 19.09	s 17.820	″ 19.70	s 40.779	″ 20.22
sec δ, tan δ	+ 1.610	− 1.262	+ 1.030	− 0.247	+ 1.097	+ 0.452	+ 2.450	+ 2.236
2回正中	9月2日		9月3日		9月3日		9月3日	
a b	+ 0.1803	+ 0.0797	+ 0.1585	− 0.0156	+ 0.1439	+ 0.0286	+ 0.1071	+ 0.1417
a′ b′	+ 0.9472	+ 0.3207	+ 0.9492	+ 0.3147	+ 0.9501	+ 0.3119	+ 0.9506	+ 0.3104
FK3番號	860		861		862		863	

星名	λ Aqar		ρ Indi		δ Aqar		α PscA	
等級	3.84		6.14		3.51		1.29	
スペクトル型	M0		G0		A2		A3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 22 49	° ′ − 7 52	h m 22 50	° ′ −70 22	h m 22 51	° ′ −16 6	h m 22 54	° ′ −29 54
	s	″	s	″	s	″	s	″
1 1.7	40.100 80	48.17 53	43.58 38	45.19 188	39.217 83	78.44 23	31.854 98	83.91 31
11.7	40.020 60	48.70 42	43.20 31	43.31 234	39.134 63	78.67 6	31.756 74	83.60 58
21.6	39.960 39	49.12 31	42.89 22	40.97 273	39.071 40	78.73 13	31.682 47	83.02 86
31.6	39.921 13	49.43 15	42.67 13	38.24 304	39.031 14	78.60 32	31.635 19	82.16 112
2 10.6	39.908 14	49.58 2	42.54 4	35.20 328	39.017 14	78.28 52	31.616 13	81.04 135
20.5	39.922	49.56 22	42.50 6	31.92 344	39.031 44	77.76 73	31.629 47	79.69 157
3 1.5	39.966 44	49.34 44	42.56 15	28.48 350	39.075 77	77.03 95	31.676 83	78.12 176
11.5	40.042 76	48.90 66	42.71 26	24.98 351	39.152 112	76.08 115	31.759 120	76.36 194
21.5	40.152 110	48.24 90	42.97 34	21.47 343	39.264 147	74.93 135	31.879 159	74.42 207
31.4	40.297 145 180	47.34 113	43.31 43	18.04 328	39.411 183	73.58 154	32.038 197	72.35 217
4 10.4	40.477	46.21	43.74	14.76	39.594	72.04	32.235	70.18
20.4	40.691 214	44.86 135	44.26 52	11.71 305	39.811 217	70.34 170	32.470 235	67.95 223
30.4	40.936 245	43.32 154	44.85 59	8.94 277	40.060 249	68.51 183	32.738 268	65.70 225
5 10.3	41.207 271	41.61 171	45.50 65	6.51 243	40.337 277	66.60 191	33.037 299	63.50 220
20.3	41.499 292 306	39.79 182 190	46.20 70 74	4.48 203 157	40.635 298 313	64.64 196 195	33.359 322 339	61.38 212 198
30.3	41.805	37.89	46.94	2.91	40.948	62.69	33.698	59.40
6 9.2	42.118 313	35.98 191	47.70 76	1.81 110	41.270 322	60.81 188	34.047 349	57.61 179
19.2	42.430 312	34.10 188	48.45 75	1.22 59	41.590 320	59.03 178	34.396 349	56.07 154
29.2	42.733 303	32.29 181	49.19 74	1.16 6	41.902 312	57.41 162	34.736 340	54.81 126
7 9.2	43.018 285 261	30.62 167 150	49.89 70 64	1.62 46 97	42.197 295 271	56.00 141 119	35.059 323 297	53.86 95 62
19.1	43.279	29.12 130	50.53	2.59	42.468	54.81	35.356	53.24
29.1	43.508 229	27.82 107	51.10 57	4.03 144	42.707 239	53.89 92	35.620 264	52.97 27
8 8.1	43.701 193	26.75 82	51.58 48	5.91 188	42.909 202	53.25 64	35.844 224	53.05 8
18.1	43.854 153	25.93 56	51.95 37	8.15 224	43.070 161	52.89 36	36.023 179	53.45 40
28.0	43.965 111 68	25.37 33	52.21 26 13	10.69 254 273	43.188 118 73	52.80 9 17	36.154 131 83	54.17 72 97
9 6.9	44.033 27	25.04 9	52.34 2	13.42 284	43.261 30	52.97	36.237 34	55.14 120
16.9	44.060 11	24.95 12	52.36 11	16.26 283	43.291 9	53.37 40	36.271 11	56.34 134
26.9	44.049 46	25.07 31	52.25 22	19.09 271	43.282 46	53.97 60	36.260 52	57.68 145
10 6.9	44.003 73	25.38 45	52.03 31	21.80 249	43.236 75	54.71 74	36.208 87	59.13 146
16.9	43.930 96	25.83 57	51.72 40	24.29 215	43.161 99	55.56 85 91	36.121 114	60.59 142
26.9	43.834 111	26.40 65	51.32	26.44	43.062	56.47	36.007	62.01
11 5.8	43.723 120	27.05 70	50.85 47	28.18 174	42.946 116	57.39 92	35.873 134	63.33 132
15.8	43.603 124	27.75 72	50.34 51	29.43 125	42.821 125	58.28 89	35.728 145	64.48 115
25.8	43.479 120	28.47 72	49.81 53	30.13 70	42.692 129	59.11 83	35.577 151	65.42 94
12 5.8	43.359 114	29.19 68	49.28 53 51	30.25 12 46	42.566 126 118	59.84 73 61	35.429 148 139	66.12 70 43
15.7	43.245 102	29.87 64	48.77 48	29.79 104	42.448 107	60.45 47	35.290 125	66.55 15
25.7	43.143 87	30.51 64	48.29 41	28.75 158	42.341 91	60.92 32	35.165 107	66.70 14
35.7	43.056	31.08 57	47.88	27.17	42.250	61.24	35.058	66.56
平位	s 41.603	″ 41.09	s 47.604	″ 24.31	s 40.804	″ 68.76	s 33.640	″ 70.15
sec δ, tan δ	+ 1.010	− 0.138	+ 2.977	− 2.804	+ 1.041	− 0.289	+ 1.154	− 0.575
2回正中	9月4日		9月4日		9月4日		9月5日	
a b	+ 0.1561	− 0.0088	+ 0.2089	− 0.1785	+ 0.1590	− 0.0184	+ 0.1641	− 0.0368
a′ b′	+ 0.9533	+ 0.3020	+ 0.9548	+ 0.2974	+ 0.9559	+ 0.2937	+ 0.9595	+ 0.2817
FK3番號	864		865		866		867	

星名 / 等級 スペクトル型		ζ Grus 4.18 G5		o Andr 3.63 R5, A2p		β Pegs 2.61 M0		α Pegs 2.57 A0	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 22 57	° ′ −53 2	h m 22 59	° ′ +42 1	h m 23 1	° ′ +27 46	h m 23 1	° ′ +14 54
		s	″	s	″	s	″	s	″
1	1.7	32.641 180	96.54 119	19.189 173	37.07 161	2.142 123	47.24 142	56.881 100	12.79 118
	11.7	32.461 144	95.35 161	19.016 149	35.46 194	2.019 105	45.82 165	56.781 84	11.61 128
	21.6	32.317 102	93.74 198	18.867 121	33.52 222	1.914 82	44.17 181	56.697 62	10.33 134
	31.6	32.215 56	91.76 230	18.746 84	31.30 239	1.832 53	42.36 189	56.635 38	8.99 133
2	10.6	32.159 9	89.46 257	18.662 44	28.91 247	1.779 22	40.47 190	56.597 10	7.66 127
	20.6	32.150 −43	86.89 277	18.618 −3	26.44 245	1.757 −15	38.57 181	56.587 −22	6.39 113
3	1.5	32.193 94	84.12 292	18.621 51	23.99 233	1.772 54	36.76 165	56.609 57	5.26 94
	11.5	32.287 148	81.20 304	18.672 103	21.66 210	1.826 97	35.11 141	56.666 94	4.32 69
	21.5	32.435 202	78.19 304	18.775 155	19.56 178	1.923 139	33.70 109	56.760 132	3.63 40
	31.4	32.637 254	75.15 299	18.930 205	17.78 140	2.062 181	32.61 73	56.892 170	3.23 7
4	10.4	32.891	72.16 289	19.135	16.38 94	2.243	31.88 32	57.062 208	3.16 −29
	20.4	33.196 305	69.27 274	19.387 252	15.44 46	2.464 221	31.56 11	57.270 240	3.45 64
	30.4	33.547 351	66.53 251	19.680 293	14.98 −4	2.720 256	31.67 54	57.510 269	4.09 98
5	10.3	33.938 391	64.02 222	20.007 327	15.02 55	3.007 287	32.21 96	57.779 291	5.07 131
	20.3	34.362 424 449	61.80 189	20.359 352 368	15.57 104	3.317 310 325	33.17 135	58.070 306	6.38 160
	30.3	34.811	59.91	20.727	16.61	3.642	34.52	58.376	7.98
6	9.3	35.273 462	58.39 152	21.100 373	18.11 150	3.974 332	36.22 170	58.690 314	9.82 184
	19.2	35.737 464	57.30 109	21.468 368	20.02 191	4.303 329	38.23 201	59.003 313	11.85 203
	29.2	36.192 455	56.65 65	21.821 358	22.29 227	4.622 319	40.50 227	59.307 304	14.02 217
7	9.2	36.626 434 400	56.46 19 28	22.150 329 297	24.85 256 281	4.920 298 272	42.95 245 258	59.594 287 263	16.27 225 227
	19.1	37.026	56.74	22.447	27.66	5.192	45.53	59.857	18.54
	29.1	37.383 357	57.46 72	22.704 257	30.62 296	5.430 238	48.17 264	60.088 231	20.77 223
8	8.1	37.687 304	58.61 115	22.916 212	33.69 307	5.630 200	50.82 265	60.284 196	22.93 216
	18.1	37.931 244	60.15 154	23.080 164	36.78 309	5.787 157	53.41 259	60.440 156	24.95 202
	28.0	38.108 177 108	62.00 185 212	23.193 113 63	39.84 306 296	5.900 113 69	55.91 250 234	60.555 115 73	26.81 186 167
9	7.0	38.216 39	64.12 228	23.256 13	42.80 280	5.969 26	58.25 215	60.628 32	28.48 145
	16.9	38.255 29	66.40 236	23.269 32	45.60 260	5.995 14	60.40 192	60.660 −5	29.93 121
	26.9	38.226 89	68.76 235	23.237 76	48.20 234	5.981 50	62.32 166	60.655 39	31.14 97
10	6.9	38.137 144	71.11 224	23.161 111	50.54 203	5.931 82	63.98 138	60.616 68	32.11 72
	16.9	37.993 189	73.35 203	23.050 143	52.57 169	5.849 106	65.36 107	60.548 91	32.83 47
	26.9	37.804 223	75.38 174	22.907 167	54.26 130	5.743 127	66.43 75	60.457 109	33.30 22
11	5.8	37.581 244	77.12 138	22.740 186	55.56 88	5.616 140	67.18 41	60.348 120	33.52 −3
	15.8	37.337 256	78.50 97	22.554 197	56.44 44	5.476 148	67.59 6	60.228 127	33.49 27
	25.8	37.081 255	79.47 50	22.357 203	56.88 −2	5.328 151	67.65 28	60.101 128	33.22 51
12	5.8	36.826 244	79.97 3	22.154 202	56.86 48	5.177 149	67.37 64	59.973 125	32.71 71
	15.7	36.582	80.00 −46	21.952	56.38	5.028	66.73	59.848	32.00
	25.7	36.358 224	79.54 92	21.756 196	55.45 93	4.885 143	65.78 95	59.730 118	31.08 92
	35.7	36.161 197	78.62	21.574 182	54.10 135	4.755 130	64.53 125	59.624 106	30.01 107
平位		s 35.063	″ 77.46	s 20.319	″ 29.17	s 3.324	″ 43.36	s 58.132	″ 12.94
sec δ, tan δ		+ 1.664	− 1.330	+ 1.346	+ 0.901	+ 1.130	+ 0.527	+ 1.035	+ 0.266
2回正中		9月 6日		9月 6日		9月 6日		9月 7日	
a b		+ 0.1772	− 0.0854	+ 0.1376	+ 0.0580	+ 0.1444	+ 0.0340	+ 0.1489	+ 0.0172
a′ b′		+ 0.9631	+ 0.2690	+ 0.9652	+ 0.2616	+ 0.9671	+ 0.2544	+ 0.9681	+ 0.2505
FK3番號		868		869		870		871	

星名 / 等級 スペクトル型		† ϑ Grus 4.35 F5		† π Ceph 4.56 G5		88 Aqar 3.80 K0		Br 3077 Cass 5.65 K2	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 23 3	° ′ −43 49	h m 23 6	° ′ +75 4	h m 23 6	° ′ −21 28	h m 23 10	° ′ +56 51
		s	″	s	″	s	″	s	″
1	1.7	41.873 142	41.23 79	5.47 72	78.93 136	26.223 97	47.98 −7	33.514 277	43.35 151
	11.7	41.731 113	40.44 117	4.75 66	77.57 191	26.126 77	48.05 16	33.237 248	41.84 195
	21.6	41.618 82	39.27 151	4.09 56	75.66 238	26.049 55	47.89 39	32.989 208	39.89 234
	31.6	41.536 46	37.76 183	3.53 45	73.28 277	25.994 29	47.50 62	32.781 158	37.55 263
2	10.6	41.490 8	35.93 211	3.08 30	70.51 304	25.965 2	46.88 85	32.623 100	34.92 282
	20.6	41.482 −33	33.82 233	2.78 16	67.47 318	25.963 −29	46.03 107	32.523 −34	32.10 287
3	1.5	41.515 76	31.49 251	2.62 0	64.29 321	25.992 63	44.96 129	32.489 35	29.23 283
	11.5	41.591 121	28.98 264	2.62 −16	61.08 309	26.055 98	43.67 149	32.524 108	26.40 267
	21.5	41.712 167	26.34 272	2.78 32	57.99 286	26.153 136	42.18 167	32.632 181	23.73 238
	31.4	41.879 212	23.62 275	3.10 46	55.13 252	26.289 173	40.51 184	32.813 250	21.35 202
4	10.4	42.091	20.87	3.56	52.61	26.462	38.67	33.063	19.33
	20.4	42.348 257	18.14 273	4.15 59	50.52 209	26.672 210	36.70 197	33.377 314	17.76 157
	30.4	42.646 298	15.51 263	4.85 70	48.93 159	26.916 244	34.65 205	33.747 370	16.69 107
5	10.3	42.979 333	13.02 249	5.63 78	47.90 103	27.190 274	32.54 211	34.162 415	16.17 52
	20.3	43.342 363 385	10.74 228 203	6.47 84 88	47.45 45 15	27.489 299 318	30.44 210 205	34.611 449 470	16.20 3 59
	30.3	43.727	8.71	7.35	47.60	27.807	28.39	35.081	16.79
6	9.3	44.126 399	6.99 172	8.23 88	48.34 74	28.135 328	26.46 193	35.558 477	17.91 112
	19.2	44.528 402	5.63 136	9.09 86	49.64 130	28.465 330	24.68 178	36.028 470	19.54 163
	29.2	44.923 395	4.65 98	9.91 82	51.46 182	28.789 324	23.11 157	36.480 452	21.62 208
7	9.2	45.300 377 350	4.08 57 14	10.66 75 66	53.75 229 272	29.098 309 287	21.78 133 104	36.902 422 380	24.10 248 283
	19.1	45.650	3.94 −28	11.32	56.47	29.385	20.74	37.282	26.93
	29.1	45.964 314	4.22 69	11.89 57	59.53 306	29.642 257	19.99 75	37.613 331	30.02 309
8	8.1	46.234 270	4.91 107	12.34 45	62.87 334	29.863 221	19.56 43	37.887 274	33.30 328
	18.1	46.452 218	5.98 140	12.67 33	66.43 356	30.043 180	19.45 11	38.100 213	36.72 342
	28.0	46.614 162 105	7.38 168	12.87 20 8	70.11 368 374	30.179 136 91	19.63 −18 46	38.249 149 84	40.18 346 345
9	7.0	46.719 −48	9.06 188	12.95 −6	73.85 371	30.270 47	20.09 71	38.333 19	43.63 335
	16.9	46.767 9	10.94 201	12.89 18	77.56 362	30.317 −4	20.80 89	38.352 −41	46.98 320
	26.9	46.758 59	12.95 206	12.71 30	81.18 343	30.321 33	21.69 105	38.311 99	50.18 297
10	6.9	46.699 104	15.01 201	12.41 41	84.61 318	30.288 66	22.74 113	38.212 150	53.15 268
	16.9	46.595 141	17.02 187	12.00 52	87.79 285	30.222 93	23.87 116	38.062 195	55.83 234
	26.9	46.454 168	18.89 167	11.48 61	90.64 244	30.129 112	25.03 114	37.867 234	58.17 193
11	5.8	46.286 187	20.56 139	10.87 68	93.08 197	30.017 125	26.17 106	37.633 264	60.10 148
	15.8	46.099 197	21.95 106	10.19 74	95.05 145	29.892 131	27.23 95	37.369 288	61.58 98
	25.8	45.902 196	23.01 67	9.45 78	96.50 87	29.761 131	28.18 79	37.081 302	62.56 45
12	5.8	45.706 189	23.68 27	8.67 79	97.37 26	29.630 127	28.97 61	36.779 307	63.01 10
	15.7	45.517	23.95 −14	7.88	97.63 −37	29.503	29.58	36.472	62.91
	25.7	45.343 174	23.81 55	7.09 79	97.26 98	29.387 116	29.98 40	36.168 304	62.26 65
	35.7	45.190 153	23.26	6.32 77	96.28	29.284 103	30.17 19	35.878 290	61.09 117
平位		s 43.901	″ 23.60	s 6.520	″ 64.81	s 27.789	″ 36.05	s 34.527	″ 32.15
sec δ, tan δ		+ 1.386	− 0.960	+ 3.885	+ 3.754	+ 1.075	− 0.393	+ 1.829	+ 1.532
2回正中		9月 7日		9月 8日		9月 8日		9月 9日	
a b		+ 0.1689	− 0.0621	+ 0.0950	+ 0.2434	+ 0.1594	− 0.0255	+ 0.1315	+ 0.0997
a′ b′		+ 0.9700	+ 0.2431	+ 0.9725	+ 0.2330	+ 0.9728	+ 0.2315	+ 0.9768	+ 0.2140
FK3番號		872		874		873		875	

星名 / 等級 スペクトル型	25 G. Tucn 5.69 G0				γ Tucn 4.10 F2				γ Pisc 3.85 K0				γ Scul 4.51 K0			
世界時	赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月 日	h m 23 13		° ′ −62 18		h m 23 14		° ′ −58 32		h m 23 14		° ′ +2 58		h m 23 15		° ′ −32 49	
	s		″		s		″		s		″		s		″	
1 1.7	33.84	28	45.91	138	7.923	241	55.61	124	14.400	93	29.35	84	46.586	119	89.89	29
11.7	33.56	23	44.53	185	7.682	203	54.37	171	14.307	79	28.51	83	46.467	98	89.60	63
21.6	33.33	19	42.68	227	7.479	156	52.66	212	14.228	60	27.68	79	46.369	75	88.97	93
31.6	33.14	12	40.41	263	7.323	106	50.54	247	14.168	39	26.89	71	46.294	46	88.04	122
2 10.6	33.02	6	37.78	292	7.217	51	48.07	277	14.129	13	26.18	58	46.248	16	86.82	148
20.6	32.96	0	34.86		7.166	7	45.30		14.116	17	25.60	42	46.232	18	85.34	
3 1.5	32.96	7	31.71	315	7.173	67	42.29	301	14.133	49	25.18	21	46.250	55	83.60	174
11.5	33.03	14	28.42	329	7.240	130	39.13	316	14.182	84	24.97	3	46.305	94	81.65	195
21.5	33.17	21	25.05	337	7.370	192	35.83	325	14.266	120	25.00	29	46.399	135	79.52	213
31.5	33.38	28	21.67	338	7.562	253	32.60	324	14.386	158	25.29	58	46.534	176	77.24	228
				331												238
4 10.4	33.66	35	18.36	317	7.815	314	29.36	312	14.544	194	25.87	85	46.710	216	74.86	243
20.4	34.01	41	15.19	297	8.129	369	26.24	295	14.738	228	26.72	113	46.926	255	72.43	245
30.4	34.42	46	12.22	270	8.498	417	23.29	269	14.966	258	27.85	139	47.181	288	69.98	241
5 10.3	34.88	51	9.52	236	8.915	459	20.60	240	15.224	281	29.24	160	47.469	316	67.57	230
20.3	35.39	54	7.16	199	9.374	491	18.20	203	15.505	300	30.84	179	47.785	339	65.27	214
30.3	35.93	56	5.17	154	9.865	511	16.17	162	15.805	309	32.63	192	48.124	352	63.13	194
6 9.3	36.49	57	3.63	108	10.376	519	14.55	117	16.114	312	34.55	200	48.476	357	61.19	167
19.2	37.06	57	2.55	59	10.895	513	13.38	70	16.426	305	36.55	203	48.833	353	59.52	137
29.2	37.63	54	1.96	7	11.408	495	12.68	20	16.731	291	38.58	200	49.186	339	58.15	104
7 9.2	38.17	51	1.89	44	11.903	462	12.48	30	17.022	270	40.58	193	49.525	317	57.11	66
19.2	38.68	46	2.33	94	12.365	418	12.78	79	17.292	242	42.51	180	49.842	286	56.45	29
29.1	39.14	40	3.27	139	12.783	362	13.57	124	17.534	208	44.31	164	50.128	248	56.16	8
8 8.1	39.54	32	4.66	181	13.145	296	14.81	166	17.742	171	45.95	145	50.376	206	56.24	45
18.1	39.86	25	6.47	216	13.441	224	16.47	200	17.913	131	47.40	123	50.582	158	56.69	79
28.0	40.11	16	8.63	243	13.665	146	18.47	230	18.044	90	48.63	100	50.740	108	57.48	109
9 7.0	40.27	7	11.06	262	13.811	67	20.77	248	18.134	50	49.63	76	50.848	59	58.57	133
16.9	40.34	2	13.68	269	13.878	10	23.25	258	18.184	13	50.39	53	50.907	13	59.90	151
26.9	40.32	10	16.37	267	13.868	84	25.83	257	18.197	22	50.92	31	50.920	32	61.41	162
10 6.9	40.22	18	19.04	253	13.784	149	28.40	246	18.175	51	51.23	11	50.888	70	63.03	166
16.9	40.04	24	21.57	231	13.635	206	30.86	225	18.124	75	51.34	9	50.818	101	64.69	163
26.9	39.80	29	23.88	197	13.429	250	33.11	195	18.049	93	51.25	25	50.717	126	66.32	151
11 5.9	39.51	32	25.85	155	13.179	283	35.06	156	17.956	106	51.00	40	50.591	142	67.83	134
15.8	39.19	35	27.40	108	12.896	302	36.62	111	17.850	113	50.60	53	50.449	152	69.17	112
25.8	38.84	36	28.48	56	12.594	308	37.73	62	17.737	115	50.07	63	50.297	155	70.29	84
12 5.8	38.48	35	29.04	1	12.286	302	38.35	9	17.622	114	49.44	72	50.142	150	71.13	54
15.7	38.13	33	29.05	54	11.984	285	38.44	43	17.508	108	48.72	78	49.992	141	71.67	22
25.7	37.80	30	28.51	107	11.699	258	38.01	95	17.400	98	47.94	82	49.851	126	71.89	11
35.7	37.50		27.44		11.441		37.06		17.302		47.12		49.725		71.78	
平位 sec δ, tan δ 2回正中	s 36.606 + 2.152 9月10日		″ 24.43 − 1.905		s 10.437 + 1.916 9月10日		″ 34.64 − 1.635		s 15.671 + 1.001 9月10日		″ 33.75 + 0.052		s 48.268 + 1.190 9月10日		″ 74.31 − 0.645	
a b	+ 0.1789		− 0.1244		+ 0.1750		− 0.1068		+ 0.1526		+ 0.0034		+ 0.1616		− 0.0422	
a′ b′	+ 0.9796		+ 0.2010		+ 0.9801		+ 0.1986		+ 0.9802		+ 0.1983		+ 0.9815		+ 0.1917	
FK3番號	876				877				878				879			

星名 / 等級 スペクトル型	τ Pegs 4.65 A5				4 Cass 5.20 K5				υ Pegs 4.57 G0				o Grus 5.54 F0			
世界時	赤経		赤緯		赤経		赤緯		赤経		赤緯		赤経		赤緯	
月 日	h m 23 17		° ′ +23 25		h m 23 22		° ′ +61 58		h m 23 22		° ′ +23 5		h m 23 23		° ′ −53 1	
	s		″		s		″		s		″		s		″	
1 1.7	50.573	121	63.20	125	19.46	36	42.97	131	33.736	122	46.26	122	26.901	206	75.04	96
11.7	50.452	107	61.95	144	19.10	33	41.66	181	33.614	108	45.04	140	26.695	176	74.08	142
21.6	50.345	87	60.51	158	18.77	28	39.85	225	33.506	90	43.64	154	26.519	140	72.66	182
31.6	50.258	63	58.93	164	18.49	23	37.60	259	33.416	66	42.10	160	26.379	98	70.84	220
2 10.6	50.195	33	57.29	164	18.26	16	35.01	283	33.350	37	40.50	160	26.281	53	68.64	250
20.6	50.162	0	55.65		18.10	9	32.18	295	33.313	4	38.90		26.228	5	66.14	276
3 1.5	50.162	37	54.10	155	18.01	0	29.23	296	33.309	32	37.37	153	26.223	48	63.38	295
11.5	50.199	77	52.69	141	18.01	8	26.27	284	33.341	73	35.99	138	26.271	101	60.43	307
21.5	50.276	119	51.51	118	18.09	16	23.43	261	33.414	114	34.83	116	26.372	157	57.36	315
31.5	50.395	161	50.62	89	18.25	26	20.82	228	33.528	156	33.96	87	26.529	212	54.21	314
4 10.4	50.556	201	50.07	55	18.51	32	18.54	185	33.684	198	33.41	55	26.741	266	51.07	308
20.4	50.757	239	49.89	18	18.83	40	16.69	137	33.882	234	33.24	17	27.007	316	47.99	295
30.4	50.996	279	50.11	22	19.23	45	15.32	84	34.116	268	33.45	21	27.323	363	45.04	276
5 10.3	51.266	295	50.72	61	19.68	49	14.48	28	34.384	293	34.06	61	27.686	401	42.28	250
20.3	51.561	314	51.71	99	20.17	52	14.20	29	34.677	312	35.04	98	28.087	431	39.78	218
30.3	51.875		53.07	136	20.69		14.49		34.989		36.38	134	28.518		37.60	
6 9.3	52.199	324	54.74	167	21.22	53	15.34	85	35.313	324	38.03	165	28.970	452	35.79	181
19.2	52.524	325	56.69	195	21.74	52	16.71	137	35.638	325	39.96	193	29.431	461	34.39	140
29.2	52.841	317	58.86	217	22.25	51	18.57	186	35.956	318	42.11	215	29.890	459	33.44	95
7 9.2	53.143	302	61.19	233	22.73	48	20.88	231	36.260	304	44.42	231	30.334	444	32.97	47
19.2	53.421	278	63.62	243	23.17	44	23.56	268	36.541	281	46.83	241	30.753	419	32.97	0
29.1	53.668	247	66.10	248	23.55	38	26.56	300	36.792	251	49.29	246	31.133	380	33.45	48
8 8.1	53.881	213	68.56	246	23.87	32	29.80	324	37.009	217	51.74	245	31.466	333	34.39	94
18.1	54.053	172	70.96	240	24.12	25	33.22	342	37.186	177	54.12	238	31.743	277	35.75	136
28.0	54.184	131	73.24	228	24.30	18	36.74	352	37.322	136	56.39	227	31.957	214	37.49	174
9 7.0	54.273	89	75.37	213	24.41	11	40.29	355	37.417	95	58.50	211	32.104	147	39.53	204
16.9	54.320	47	77.31	194	24.45	4	43.79	350	37.469	52	60.43	193	32.183	79	41.80	227
26.9	54.327	7	79.03	172	24.41	4	47.18	339	37.482	13	62.14	171	32.194	11	44.20	240
10 6.9	54.299	28	80.51	148	24.31	10	50.38	320	37.460	22	63.61	147	32.142	52	46.64	244
16.9	54.240	59	81.72	121	24.14	17	53.32	294	37.406	54	64.81	120	32.033	109	49.02	238
26.9	54.154	86	82.65	93	23.92	22	55.93	261	37.326	80	65.75	94	31.874	159	51.24	222
11 5.9	54.048	106	83.29	64	23.65	27	58.16	223	37.225	101	66.39	64	31.676	198	53.22	198
15.8	53.927	121	83.63	34	23.34	31	59.94	178	37.107	118	66.75	36	31.448	228	54.85	163
25.8	53.795	132	83.67	4	23.00	34	61.23	129	36.978	129	66.80	5	31.202	246	56.09	124
12 5.8	53.658	137	83.40	27	22.63	37	61.98	75	36.844	134	66.55	25	30.949	253	56.88	79
15.7	53.520	138	82.84	56	22.25	38	62.16	18	36.707	137	66.02	53	30.699	250	57.18	30
25.7	53.385	135	82.00	84	21.87	38	61.76	40	36.574	133	65.21	81	30.461	238	56.99	19
35.7	53.259	126	80.91	109	21.50	37	60.81	95	36.447	127	64.15	106	30.242	219	56.31	68
平位 sec δ, tan δ 2回正中	s 51.685 + 1.090 9月11日		″ 60.94 + 0.433		s 20.328 + 2.128 9月12日		″ 30.78 + 1.879		s 34.824 + 1.087 9月12日		″ 44.20 + 0.426		s 29.046 + 1.663 9月12日		″ 54.48 − 1.329	
a b	+ 0.1480		+ 0.0284		+ 0.1328		+ 0.1236		+ 0.1487		+ 0.0281		+ 0.1674		− 0.0874	
a′ b′	+ 0.9831		+ 0.1828		+ 0.9865		+ 0.1636		+ 0.9867		+ 0.1626		+ 0.9873		+ 0.1587	
FK3番號	880				882				881				883			