星名		o Taur		ξ Taur		2 H. Caml		σ Pers	
等級	スペクトル型	3.80	G5	3.75	B8	4.42	B9P	4.55	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 21	° ′ +8 49	h m 3 24	° ′ +9 31	h m 3 24	° ′ +59 44	h m 3 25	° ′ +47 47
		s	″	s	″	s	″	s	″
1	0.9	44.939	38.94	4.935	59.77	27.580	40.74	33.667	62.19
	10.8	44.829 80	38.38 56	4.887 78	59.24 53	27.369 211	42.24 150	33.530 137	63.23 104
	20.8	44.719 110	37.85 53	4.778 109	58.73 51	27.097 272	43.33 109	33.348 182	63.95 72
	30.8	44.584 135	37.34 51	4.643 135	58.24 49	26.778 319	43.98 65	33.123 220	64.32 37
2	9.8	44.430 154	36.87 47	4.489 154	57.78 46	26.424 354	44.16 18	32.879 249	64.33 1
		166	41	166	42	371	29	264	36
	19.7	44.264	36.46	4.323	57.36	26.053	43.87	32.615	63.97
3	1.7	44.096 168	36.11 35	4.155 168	57.01 35	25.682 371	43.13 74	32.349 266	63.27 70
	11.7	43.936 160	35.84 27	3.993 162	56.73 28	25.332 350	41.97 116	32.093 253	62.23 101
	21.6	43.792 144	35.68 16	3.848 145	56.55 18	25.017 315	40.45 152	31.869 224	60.98 128
	31.6	43.673 119	35.65 3	3.723 120	56.49 6	24.757 260	38.63 182	31.681 188	59.50 148
		84	11	87	7	193	203	138	161
4	10.6	43.539	35.76 28	3.641 46	56.56 24	24.564 116	36.60 215	31.543 79	57.89 168
	20.6	43.544 45	36.04 46	3.595 3	56.80 42	24.448 31	34.45 218	31.464 14	56.21 166
	30.5	43.543 1	36.50 65	3.592 44	57.22 61	24.417 56	32.27 214	31.450 52	54.55 157
5	10.5	43.539 46	37.15 84	3.636 91	57.83 79	24.473 143	30.13 200	31.502 119	52.98 142
	20.5	43.631 92	37.99 103	3.727 135	58.62 99	24.616 225	23.13 180	31.621 183	51.56 122
		137							
	30.5	43.818	39.02	3.862	59.61	24.841	25.33	31.804	50.34
6	9.4	43.993 178	40.21 119	4.039 177	60.76 115	25.142 301	24.79 154	32.045 241	49.37 97
	19.4	44.211 215	41.55 134	4.254 215	62.05 129	25.510 368	23.57 122	32.338 293	48.69 68
	29.4	44.455 245	43.00 145	4.493 244	63.47 142	25.935 425	22.69 88	32.674 336	48.31 38
7	9.3	44.725 269	44.52 152	4.767 269	64.95 148	26.405 470	22.18 51	33.045 371	48.24 7
		287	155	286	153	503	14	395	24
	19.3	45.012	46.07	5.053	66.48	26.908	22.04	33.440	48.48
	29.3	45.307 295	47.61 154	5.350 297	67.99 151	27.432 524	22.29 25	33.851 411	49.03 55
8	8.3	45.607 300	49.08 147	5.650 300	69.45 146	27.966 534	22.91 62	34.268 417	49.85 82
	18.2	45.903 296	50.44 136	5.947 297	70.81 136	28.493 532	23.88 97	34.683 415	50.94 109
	28.2	46.191 288	51.66 122	6.236 289	72.03 122	29.020 522	25.18 130	35.039 406	52.23 132
		275	105	277	105	503	161	391	153
9	7.2	46.466	52.71 85	6.513	73.08 86	29.523	26.79 187	35.430	53.79
	17.2	46.724 258	53.53 63	6.772 259	73.94 66	29.998 475	28.66 211	35.849 369	55.49 170
	27.1	46.961 237	54.19 42	7.012 240	74.60 44	30.439 441	30.77 230	36.192 343	57.32 183
10	7.1	47.177 216	54.61 21	7.230 218	75.04 24	30.839 400	33.07 246	36.504 312	59.23 194
	17.1	47.367 190	54.82 3	7.423 193	75.28 6	31.193 354	35.53 257	36.783 279	61.23 206
		164		167		303		241	
	27.0	47.531	54.85	7.590	75.34	31.496	38.10	37.024	63.34
11	6.0	47.668 137	54.70 15	7.729 139	75.23 11	31.742 246	40.73 263	37.224 200	65.40 206
	15.9	47.774 106	54.42 28	7.839 110	74.99 24	31.925 183	43.37 264	37.379 155	67.44 204
	25.9	47.850 76	54.03 39	7.918 79	74.64 35	32.042 117	45.93 259	37.486 107	69.41 197
12	5.9	47.894 44	53.57 46	7.934 46	74.22 42	32.089 47	48.43 247	37.542 56	71.27 186
		9	51	13	47	26	230	3	170
	15.9	47.903	53.06	7.977	73.75	32.063	50.73	37.545	72.97
	25.9	47.879 24	52.53 53	7.955 22	73.25 50	31.954 99	52.79 206	37.495 50	74.46 149
	35.9	47.821 58	51.99 54	7.898 57	72.74 51	31.795 169	54.53 174	37.391 104	75.71 125
平位		s 44.522	″ 46.66	s 4.564	″ 67.35	s 26.037	″ 37.14	s 32.670	″ 60.79
2回正中		11月12日		11月12日		11月12日		11月13日	
a	b	+0.1613	+0.0066	+0.1620	+0.0070	+0.2423	+0.0718	+0.2110	+0.0453
a′	b′	+0.6369	−0.7709	+0.6291	−0.7774	+0.6279	−0.7783	+0.6207	−0.7841
FK3番號		121		123		122		124	

星名		5 Taur		x Reti		ε Erid		45 G. Horo	
等級	スペクトル型	4.28	K0	4.80	F5	3.81	K0	5.60	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 27	° ′ +12 44	h m 3 28	° ′ −63 7	h m 3 30	° ′ −9 38	h m 3 30	° ′ −59 33
		s	″	s	″	s	″	s	″
1	0.9	43.753	27.03	23.784	99.22	14.932	72.88	53.336	97.68
	10.8	43.679 77	26.63 40	23.432 352	101.08 185	14.843 89	74.06 118	53.120 216	99.60 192
	20.8	43.571 108	26.21 42	23.030 402	102.41 133	14.724 119	75.04 98	52.867 253	101.03 143
	30.8	43.436 135	25.79 42	22.590 440	103.18 77	14.582 142	75.80 76	52.583 284	101.95 92
2	9.8	43.281 155	25.36 43	22.127 463	103.37 19	14.420 162	76.33 53	52.278 305	102.33 38
		169	42	472	39	173	27	316	16
	19.7	43.112	24.94	21.655	102.98	14.247	76.60	51.962	102.17
3	1.7	42.941 171	24.55 39	21.189 466	102.03 95	14.071 176	76.63 3	51.647 315	101.48 69
	11.7	42.776 165	24.20 35	20.742 447	100.56 147	13.902 169	76.39 24	51.344 303	100.28 120
	21.7	42.627 149	23.92 28	20.331 411	98.59 197	13.748 154	75.89 50	51.065 279	98.61 167
	31.6	42.504 123	23.73 19	19.937 364	96.19 240	13.619 129	75.14 75	50.820 245	96.50 211
		90	8	304	279	98	101	201	249
4	10.6	42.414	23.65	19.663	93.40	13.521	74.13	50.619	94.01
	20.6	42.364 50	23.72 7	19.430 233	90.29 311	13.462 59	72.87 126	50.469 150	91.17 284
	30.5	42.359 5	23.95 23	19.273 157	86.92 337	13.446 16	71.38 149	50.378 91	88.07 310
5	10.5	42.401 42	24.37 42	19.200 73	83.38 354	13.475 29	69.69 169	50.348 30	84.75 332
	20.5	42.490 89	24.96 59	19.213 13	79.73 365	13.559 75	67.81 188	50.383 35	81.31 344
		134	79	99	367	119	203	99	351
	30.5	42.624	25.75	19.312	76.06	13.669	65.78	50.482	77.80
6	9.4	42.801 177	26.71 96	19.496 184	72.46 360	13.831 162	63.65 213	50.643 161	74.33 347
	19.4	43.015 214	27.84 113	19.760 264	69.02 344	14.029 198	61.46 219	50.861 218	70.96 337
	29.4	43.261 246	29.09 125	20.095 335	65.81 321	14.260 231	59.28 218	51.131 270	67.79 317
7	9.4	43.531 270	30.45 136	20.495 400	62.92 289	14.516 256	57.15 213	51.445 314	64.89 290
		288	141	451	248	275	200	350	253
	19.3	43.819	31.86	20.946	60.44	14.791	55.15	51.795	62.36
	29.3	44.118 299	33.29 143	21.438 492	58.44 200	15.078 287	53.31 184	52.172 377	60.25 211
8	8.3	44.421 303	34.69 140	21.953 520	56.97 147	15.370 292	51.71 160	52.566 394	58.64 161
	18.2	44.722 301	36.03 134	22.489 531	55.08 89	15.661 291	50.38 133	52.966 400	57.57 107
	28.2	45.015 293	37.27 124	23.017 528	55.81 27	15.945 284	49.37 101	53.362 396	57.08 49
		280	109	513	35	272	65	384	12
9	7.2	45.295	38.36	23.530	56.16	16.217	48.72	53.746	57.20
	17.2	45.560 265	39.30 94	24.011 481	57.12 96	16.472 255	48.42 30	54.106 360	57.91 71
	27.1	45.805 245	40.06 76	24.448 437	58.67 155	16.707 235	48.49 7	54.436 330	59.19 128
10	7.1	46.028 223	40.63 57	24.830 382	60.75 208	16.919 212	48.91 42	54.727 291	61.00 181
	17.1	46.227 199	41.02 39	25.146 316	63.29 254	17.105 186	49.64 73	54.974 247	63.27 227
		173	23	241	289	160	102	197	264
	27.1	46.400	41.25	25.387	66.18	17.265	50.66	55.171	65.91
11	6.0	46.545 145	41.33 8	25.548 161	69.32 314	17.395 130	51.90 124	55.315 144	68.82 291
	15.9	46.661 116	41.27 6	25.626 78	72.59 327	17.495 100	53.30 140	55.402 87	71.88 306
	25.9	46.746 85	41.11 16	25.617 9	75.86 327	17.562 67	54.80 150	55.432 30	74.99 311
12	5.9	46.797 51	40.88 23	25.525 92	79.02 316	17.596 34	56.32 152	55.405 27	78.01 302
		16	30	172	291	1	149	83	284
	15.9	46.813	40.58	25.353	81.93	17.597	57.81	55.322	80.85
	25.9	46.794 19	40.25 33	25.107 246	84.49 256	17.563 34	59.21 140	55.185 137	83.39 254
	35.9	46.741 53	39.88 37	24.793 314	86.64 215	17.496 67	60.47 126	55.000 185	85.55 216
平位		s 43.321	″ 33.86	s 22.572	″ 76.55	s 14.569	″ 60.11	s 52.580	″ 76.63
2回正中		11月13日		11月13日		11月14日		11月14日	
a	b	+0.1652	+0.0093	+0.0495	−0.0309	+0.1443	−0.0939	+0.0888	−0.0491
a′	b′	+0.6166	−0.7873	+0.6144	−0.7890	+0.6079	−0.7940	+0.6057	−0.7957
FK3番號		125		126		127		128	

星名	110 G. Erid		Grb 716 Caml		δ Pers		δ Forn	
等級	4.58		5.32		3.10		4.93	
スペクトル型	K0		M0		B5		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 35	° ′ −40 27	h m 3 37	° ′ +63 1	h m 3 38	° ′ +47 36	h m 3 39	° ′ −32 6
1 0.9	s 3.433	″ 57.63	s 13.067	″ 66.15	s 52.377	″ 26.32	s 59.305	″ 87.34
10.9	3.277 156	59.51 188	12.842 225	67.87 172	52.254 123	27.43 111	59.183 122	89.15 181
20.8	3.087 190	60.98 147	12.547 295	69.20 133	52.083 171	28.24 81	59.028 155	90.59 144
30.8	2.868 219	61.98 100	12.195 352	70.07 87	51.870 213	28.72 48	58.844 184	91.62 103
2 9.8	2.628 240	62.50 52	11.800 395	70.47 40	51.626 244	28.84 12	58.639 205	92.23 61
	251	3	418	10	262	23	217	16
19.7	2.377	62.53	11.382	70.37	51.364	28.61	58.422	92.39
3 1.7	2.124 253	62.07 46	10.960 422	69.80 57	51.097 267	28.04 57	58.200 222	92.12 27
11.7	1.879 245	61.13 94	10.556 404	68.76 104	50.838 259	27.15 89	57.985 215	91.42 70
21.7	1.653 226	59.75 138	10.188 368	67.33 143	50.603 235	25.98 117	57.785 200	90.31 111
31.6	1.455 198	57.96 179	9.876 312	65.56 177	50.404 199	24.59 139	57.611 174	88.81 150
	161	218	240	203	150	153	141	186
4 10.6	1.294	55.78	9.636	63.53	50.254	23.06	57.470	86.95
20.6	1.179 115	53.28 250	9.480 156	61.33 220	50.160 94	21.44 162	57.370 100	84.76 219
30.6	1.112 67	50.49 279	9.415 65	59.05 228	50.130 30	19.81 163	57.316 54	82.30 246
5 10.5	1.099 13	47.47 302	9.445 30	56.78 227	50.165 35	18.25 156	57.311 5	79.60 270
20.5	1.142 43	44.31 316	9.572 127	54.61 217	50.268 103	16.81 144	57.357 46	76.73 287
	98	326	218	200	167	125	96	299
30.5	1.240	41.05	9.790	52.61	50.435	15.56	57.453	73.74
6 9.4	1.390 150	37.78 327	10.094 304	50.85 176	50.661 226	14.53 103	57.598 145	70.71 303
19.4	1.590 200	34.57 321	10.475 381	49.38 147	50.940 279	13.77 76	57.787 189	67.71 300
29.4	1.832 242	31.51 306	10.921 446	48.24 114	51.264 324	13.29 48	58.015 228	64.81 290
7 9.4	2.112 280	28.68 283	11.421 500	47.47 77	51.625 361	13.11 18	58.276 261	62.09 272
	309	252	540	39	388	12	288	247
19.3	2.421	26.16	11.961	47.08 1	52.013	13.23	58.564	59.62
29.3	2.751 330	24.02 214	12.530 569	47.07 1	52.419 406	13.64 41	58.870 306	57.49 213
8 8.3	3.094 343	22.32 170	13.115 585	47.45 38	52.834 415	14.33 69	59.187 317	55.74 175
18.3	3.441 347	21.11 121	13.702 587	48.21 76	53.249 415	15.28 95	59.508 321	54.44 130
28.2	3.785 344	20.44 67	14.283 581	49.31 110	53.658 409	16.45 117	59.826 318	53.62 82
	332	10	564	145	396	139	307	30
9 7.2	4.117	20.34	14.847	50.76	54.054	17.84	60.133	53.32
17.2	4.431 314	20.79 45	15.385 538	52.50 174	54.431 377	19.40 156	60.424 291	53.54 22
27.1	4.719 288	21.79 100	15.888 503	54.51 201	54.785 354	21.10 170	60.694 270	54.28 74
10 7.1	4.978 259	23.30 151	16.351 463	56.75 224	55.110 325	22.92 182	60.937 243	55.50 122
17.1	5.200 222	25.25 195	16.763 412	59.19 244	55.403 293	24.82 190	61.151 214	57.15 165
	184	233	358	259	258	197	180	201
27.1	5.384	27.58	17.121	61.78	55.661	26.79	61.331	59.16
11 6.0	5.525 141	30.19 261	17.415 294	64.47 269	55.878 217	28.78 199	61.474 143	61.46 230
16.0	5.622 97	32.98 279	17.641 226	67.21 274	56.052 174	30.76 198	61.580 106	63.94 248
25.9	5.673 51	35.84 286	17.793 152	69.93 272	56.178 126	32.69 193	61.645 65	66.52 258
12 5.9	5.677 4	38.65 281	17.865 72	72.57 264	56.253 75	34.54 185	61.669 24	69.08 256
	42	266	11	249	21	171	17	245
15.9	5.635	41.31	17.854	75.06	56.274	36.25	61.652	71.53
25.9	5.548 87	43.74 243	17.760 94	77.33 227	56.240 34	37.78 153	61.594 58	73.78 225
35.9	5.419 129	45.83 209	17.584 176	79.30 197	56.152 88	39.08 130	61.497 97	75.77 199
平位	s 2.837	″ 38.36	s 11.224	″ 62.88	s 51.343	″ 25.64	s 58.776	″ 69.78
2回正中	11月15日		11月15日		11月16日		11月16日	
a b	+ 0.1075	− 0.0336	+ 0.2597	+ 0.0765	+ 0.2129	+ 0.0422	+ 0.1190	− 0.0240
a′ b′	+ 0.5911	− 0.8066	+ 0.5836	− 0.8121	+ 0.5777	− 0.8163	+ 0.5737	− 0.8191
FK3番號	130		129		131		133	

星名	δ Erid		† o Pers		ν Pers		17 Taur	
等級	3.72		3.94		3.93		3.81	
スペクトル型	K0		B1		F5		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 40	° ′ − 9 57	h m 3 40	° ′ +32 6	h m 3 41	° ′ +42 23	h m 3 41	° ′ +23 55
1 0.9	s 31.347	″ 31.19	s 44.945	″ 30.95	s 19.650	″ 60.47	s 29.698	″ 64.03
10.9	31.266 81	32.41 122	44.862 83	31.39 44	19.546 104	61.37 90	29.624 74	64.11 8
20.8	31.155 111	33.43 102	44.740 122	31.65 26	19.398 148	62.01 64	29.515 109	64.09 2
30.8	31.016 139	34.23 80	44.584 156	31.73 8	19.211 187	62.37 36	29.374 141	63.96 13
2 9.8	30.857 159	34.78 55	44.402 182	31.60 13	18.994 217	62.42 5	29.209 165	63.71 25
	173	31	199	32	235	25	182	36
19.7	30.684	35.09	44.203	31.28	18.759	62.17	29.027	63.35
3 1.7	30.507 177	35.14 5	43.999 204	30.77 51	18.518 241	61.63 54	28.840 187	62.90 45
11.7	30.334 173	34.93 21	43.799 200	30.10 67	18.285 233	60.82 81	28.657 183	62.37 53
21.7	30.175 159	34.45 48	43.618 181	29.30 80	18.071 214	59.78 104	28.490 167	61.79 58
31.6	30.038 137	33.71 74	43.464 154	28.42 88	17.890 181	58.57 121	28.349 141	61.19 60
	105	100	116	93	136	133	107	56
4 10.6	29.933	32.71	43.348	27.49	17.754	57.24	28.242	60.63
20.6	29.864 69	31.46 125	43.278 70	26.53 91	17.668 86	55.85 139	28.177 65	60.12 51
30.6	29.837 27	29.98 148	43.259 19	25.74 84	17.641 27	54.48 137	28.159 18	59.72 40
5 10.5	29.853 19	28.28 170	43.293 34	25.01 73	17.674 33	53.19 129	28.191 32	59.46 26
20.5	29.920 64	23.40 188	43.381 88	24.43 58	17.769 95	52.03 116	28.274 83	59.36 10
	109	203	140	39	154	98	131	8
30.5	30.029	24.37	43.521	24.04	17.923	51.05	28.405	59.44
6 9.4	30.181 152	22.22 215	43.711 190	23.85 19	18.132 209	50.29 76	28.582 177	59.72 28
19.4	30.371 190	20.01 221	43.943 232	23.89 4	18.390 258	49.78 51	28.799 217	60.19 47
29.4	30.594 223	17.80 221	44.212 269	24.14 25	18.690 300	49.53 25	29.051 252	60.85 66
7 9.4	30.843 249	15.64 216	44.511 299	24.61 47	19.023 333	49.54 1	29.330 279	61.67 82
	271	205	320	67	359	29	300	96
19.3	31.114	13.59	44.831	25.28	19.382	49.83	29.630	62.63
29.3	31.398 284	11.71 188	45.166 335	26.13 85	19.757 375	50.37 54	29.943 313	63.70 107
8 8.3	31.689 291	10.06 165	45.508 342	27.12 99	20.141 384	51.15 78	30.263 320	64.85 115
18.3	31.981 292	8.69 137	45.849 341	28.24 112	20.525 384	52.13 98	30.582 319	66.04 119
28.2	32.268 287	7.63 106	46.184 335	29.44 120	20.903 378	53.31 118	30.896 314	67.23 119
	277	71	325	126	367	133	303	118
9 7.2	32.545	6.92	46.509	30.70	21.270	54.64	31.199	68.41
17.2	32.807 262	6.58 34	46.817 308	31.99 129	21.619 349	56.09 145	31.487 288	69.54 113
27.1	33.051 244	6.61 3	47.105 289	33.29 130	21.946 327	57.65 156	31.757 270	70.59 105
10 7.1	33.273 222	7.00 39	47.373 267	34.57 128	22.249 303	59.29 164	32.007 250	71.56 97
17.1	33.471 198	7.72 72	47.614 241	35.82 125	22.522 273	60.97 168	32.232 225	72.44 88
	173	100	214	121	242	171	199	78
27.1	33.644	8.72	47.828	37.03	22.764	62.68	32.431	73.22
11 6.0	33.787 143	9.96 124	48.010 182	38.19 116	22.969 205	64.40 172	32.602 171	73.90 68
16.0	33.901 114	11.37 141	48.159 149	39.29 110	23.135 166	66.08 168	32.742 140	74.50 60
25.9	33.982 81	12.88 151	48.271 112	40.31 102	23.258 123	67.72 164	32.849 107	75.01 51
12 5.9	34.030 48	14.43 155	48.344 73	41.24 93	23.335 77	69.27 155	32.919 70	75.44 43
	12	152	31	83	28	142	32	35
15.9	34.042	15.95	48.375	42.07	23.363	70.69	32.951	75.79
25.9	34.020 22	17.38 143	48.363 12	42.78 71	23.341 22	71.93 127	32.943 8	76.05 26
35.9	33.962 58	18.68 130	48.308 55	43.35 57	23.269 72	73.03 107	32.896 47	76.22 17
平位	s 30.927	″ 18.46	s 44.230	″ 33.51	s 18.753	″ 60.91	s 29.117	″ 68.49
2回正中	11月16日		11月16日		11月17日		11月17日	
a b	+ 0.1437	− 0.0057	+ 0.1877	+ 0.0239	+ 0.2034	+ 0.0346	+ 0.1777	+ 0.0168
a′ b′	+ 0.5717	− 0.8204	+ 0.5709	− 0.8210	+ 0.5589	− 0.8224	+ 0.5383	− 0.8229
FK3番號	135		132		134		136	

星名		24 Erid		β Reti		η Taur		γ Caml	
等級	スペクトル型	5.09	B8	3.80	K0	2.93	B5p	4.67	A0
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	° ′ −1 20	h m 3 43	° ′ −64 58	h m 3 44	° ′ +23 55	h m 3 44	° ′ +71 9
		s	″	s	″	s	″	s	″
1	0.9	37.047	40.28	30.209	91.33	6.046	44.97	21.131	37.47
	10.9	36.976 71	41.23 95	29.841 368	93.37 204	5.975 71	45.06 9	20.796 335	39.56 209
	20.8	36.873 103	42.06 83	29.415 426	94.90 153	5.867 108	45.04 2	20.362 434	41.21 165
	30.8	36.742 131	42.75 69	28.944 471	95.87 97	5.727 140	44.92 12	19.846 516	42.38 117
2	9.8	36.589 153	43.28 53	28.443 501	96.26 39	5.562 165	44.68 24	19.270 576	43.03 65
		166	37	517	18	181	34	610	9
	19.7	36.423	43.65	27.926	96.08	5.381	44.34	18.660	43.12
3	1.7	36.251 172	43.85 20	27.412 514	95.32 76	5.193 188	43.90 44	18.044 616	42.67 45
	11.7	36.082 169	43.87 2	26.913 499	94.03 129	5.010 183	43.38 52	17.451 593	41.70 97
	21.7	35.928 154	43.69 18	26.447 466	92.24 179	4.841 169	42.81 57	16.907 544	40.26 144
	31.6	35.795 133	43.32 37	26.029 418	89.99 225	4.698 143	42.23 58	16.440 467	38.42 184
		102	58	359	266	109	56	371	217
4	10.6	35.693	42.74 80	25.670	87.33	4.589	41.67	16.069	36.25
	20.6	35.628 65	41.94 99	25.383 287	84.33 300	4.522 67	41.17 50	15.812 257	33.85 240
	30.6	35.605 23	40.95 121	25.177 206	81.06 327	4.502 20	40.77 40	15.680 132	31.32 253
5	10.5	35.627 22	39.74 138	25.053 121	77.57 349	4.531 29	40.51 26	15.679 1	28.76 256
	20.5	35.695 68	38.36 156	25.027 29	73.93 361	4.611 80	40.40 11	15.809 130	26.26 250
		112		64	365	129	8	258	237
	30.5	35.807	36.80 169	25.091	70.31	4.740	40.48	16.067	23.89
6	9.4	35.951 154	35.11 178	25.245 154	66.69 362	4.914 174	40.75 27	16.444 377	21.75 214
	19.4	36.153 192	33.33 184	25.485 240	63.19 350	5.129 215	41.21 46	16.928 484	19.90 185
	29.4	36.377 224	31.49 185	25.806 321	59.92 327	5.379 250	41.85 64	17.596 578	18.38 152
7	9.4	36.628 251	29.64 185	26.199 393	56.94 298	5.657 278	42.65 80	18.163 657	17.23 115
		271	180	454	259	298	95	718	74
	19.3	36.899	27.84 169	26.653	54.35	5.955	43.60	18.881	16.49
	29.3	37.182 283	26.15 155	27.154 501	52.22 213	6.267 312	44.65 105	19.643 762	16.17 32
8	8.3	37.473 291	24.60 135	27.691 537	50.61 161	6.587 320	45.78 113	20.434 791	16.28 11
	18.3	37.764 291	23.25 111	28.248 557	49.58 103	6.906 319	46.95 117	21.235 801	16.80 52
	28.2	38.050 286	22.14 84	28.808 560	49.15 43	7.220 314	48.13 118	22.032 797	17.73 93
		277		550	21	304	116	779	133
9	7.2	38.327	21.30	29.353	49.36	7.524	49.29	22.811	19.06
	17.2	38.588 261	20.76 54	29.880 522	50.19 83	7.813 289	50.40 111	23.558 747	20.75 169
	27.1	38.833 245	20.51 25	30.361 481	51.62 143	8.085 272	51.43 103	24.261 703	22.77 202
10	7.1	39.058 225	20.56 5	30.788 427	53.60 198	8.336 251	52.39 96	24.909 648	25.08 231
	17.1	39.259 201	20.89 33	31.147 359	56.07 247	8.534 228	53.25 86	25.488 579	27.65 257
		177	58	283	285	202	77	502	278
	27.1	39.436	21.47	31.430	58.92	8.766	54.02	25.990	30.43
11	6.0	39.585 149	22.25 78	31.628 198	62.06 314	8.940 174	54.69 67	26.402 412	33.37 294
	16.0	39.706 121	23.18 93	31.737 109	65.36 330	9.082 142	55.28 59	26.715 313	36.39 302
	25.9	39.795 89	24.23 105	31.753 16	68.69 333	9.192 110	55.79 51	26.921 206	39.44 305
12	5.9	39.852 57	25.32 109	31.678 75	71.94 325	9.265 73	56.21 42	27.011 90	42.44 300
		22	110	165	303	35	35	28	286
	15.9	39.874	23.42	31.513	74.97	9.300	55.53	26.983	45.30
	25.9	39.861 13	27.49 107	31.265 248	77.69 272	9.295 5	55.82 26	26.834 149	47.94 264
	35.9	39.813 48	28.47 98	30.941 324	80.00 231	9.249 46	57.00 18	26.539 265	50.28 234
平位		s 36.614	″ 29.68	s 28.648	″ 69.22	s 5.457	″ 49.51	s 18.262	″ 33.74
2回正中		11月17日		11月17日		11月17日		11月17日	
a	b	+ 0.1520	− 0.0009	+ 0.0351	− 0.0802	+ 0.1779	+ 0.0165	+ 0.3154	+ 0.1090
a′	b′	+ 0.5678	− 0.8232	+ 0.5311	− 0.8278	+ 0.5539	− 0.8293	+ 0.5531	− 0.8298
FK3番號		137		141		139		138	

星名		τ⁶ Erid		27 Taur		138 G. Erid		γ Hydi	
等級	スペクトル型	4.33	F8	3.80	B8	4.24	K0	3.17	M0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 3 44	° ′ −23 24	h m 3 45	° ′ +23 52	h m 3 47	° ′ −36 22	h m 3 47	° ′ −74 24
		s	″	s	″	s	″	s	″
1	0.9	24.138	76.67	46.650	45.86	19.799	36.56	68.852	73.05
	10.9	24.041 97	78.33 166	46.580 70	45.96 10	19.668 131	38.50 194	68.214 638	75.06 201
	20.8	23.910 131	79.69 136	46.473 107	45.94 2	19.501 167	40.05 155	67.487 727	76.55 149
	30.8	23.752 158	80.72 103	46.334 139	45.83 11	19.304 197	41.18 113	66.693 794	77.46 91
2	9.8	23.571 181	81.38 66	46.169 165	45.60 23	19.083 221	41.84 66	65.855 838	77.80 34
		193	29	181	34	234	20	859	24
	19.7	23.378	81.67 8	45.988	45.26	18.849	42.04 27	64.996	77.56
3	1.7	23.179 199	81.59 46	45.800 188	44.83 43	18.610 239	41.77 72	64.143 853	76.75 81
	11.7	22.984 195	81.13 82	45.616 184	44.32 51	18.375 235	41.05 116	63.316 827	75.39 136
	21.7	22.803 181	80.31 117	45.447 169	43.77 55	18.157 218	39.89 157	62.540 776	73.55 184
	31.6	22.645 158	79.14 149	45.302 145	43.19 58	17.963 194	38.32 195	61.836 704	71.25 230
		126		109	56	159		615	270
4	10.6	22.519	77.65	45.193	42.63	17.804	36.37	61.221	68.55
	20.6	22.430 89	75.85 180	45.124 69	42.14 49	17.685 119	34.08 229	60.714 507	65.52 303
	30.6	22.385 45	73.78 207	45.102 22	41.75 39	17.614 71	31.49 259	60.327 387	62.22 330
5	10.5	22.386 1	71.47 231	45.130 28	41.48 27	17.594 20	28.67 282	60.070 257	58.73 349
	20.5	22.435 49	68.99 248	45.208 78	41.38 10	17.623 32	25.67 300	59.950 120	55.12 361
		97	263	127	8	85	312	21	365
	30.5	22.532	66.36 269	45.335	41.46	17.711	22.55	59.971	51.47
6	9.4	22.673 141	63.67 271	45.507 172	41.72 26	17.847 136	19.39 316	60.132 161	47.87 360
	19.4	22.857 184	60.96 265	45.721 214	42.18 46	18.030 183	16.27 312	60.428 296	44.41 346
	29.4	23.076 219	58.31 253	45.969 248	42.81 63	18.254 224	13.25 302	60.852 424	41.17 324
7	9.4	23.325 250	55.78 233	46.246 277	43.61 80	18.515 261	10.43 282	61.392 540	38.25 292
		274		298	93	290	255	641	254
	19.3	23.600	53.45	46.544	44.54	18.805	7.88	62.033	35.71
	29.3	23.890 290	51.40 205	46.855 311	45.59 105	19.116 311	5.68 220	62.757 724	33.63 208
8	8.3	24.191 301	49.67 173	47.174 319	46.70 111	19.442 326	3.88 180	63.544 787	32.08 155
	18.3	24.494 303	48.32 135	47.493 319	47.87 117	19.773 331	2.56 132	64.370 826	31.11 97
	28.2	24.794 300	47.40 92	47.807 314	49.03 116	20.103 330	1.74 82	65.210 840	30.75 36
		292	47	305	115	321	28	830	27
9	7.2	25.086	46.93	48.112	50.18	20.424	1.46	66.040	31.02
	17.2	25.362 276	46.94 1	48.402 290	51.28 110	20.729 305	1.73 27	66.833 793	31.91 89
	27.1	25.619 257	47.41 47	48.675 273	52.30 102	21.013 284	2.54 81	67.564 731	33.41 150
10	7.1	25.854 235	48.33 92	48.927 252	53.24 94	21.271 258	3.85 131	68.210 646	35.45 204
	17.1	26.062 208	49.65 132	49.156 229	54.10 86	21.498 227	5.62 177	68.750 540	37.96 251
		179	166	204	75	192	216	416	290
	27.1	26.241	51.31	49.360	54.85	21.690	7.78	69.166	40.86
11	6.0	26.388 147	53.24 193	49.535 175	55.52 67	21.843 153	10.23 245	69.444 278	44.03 317
	16.0	26.501 113	55.37 213	49.680 145	56.10 58	21.955 112	12.88 265	69.576 132	47.35 332
	25.9	26.578 77	57.60 223	49.791 111	56.59 49	22.025 70	15.63 275	69.555 21	50.70 335
12	5.9	26.618 40	59.85 225	49.866 75	57.01 42	22.051 26	18.37 274	69.385 170	53.95 325
		2	217	36	35	19	263	315	303
	15.9	26.620	62.02	49.902	57.36	22.032	21.00	69.070	56.98
	25.9	26.583 37	64.04 202	49.899 3	57.62 26	21.970 62	23.42 242	68.621 449	59.68 270
	35.9	26.510 73	65.84 180	49.855 44	57.79 17	21.865 105	25.55 213	68.051 570	61.97 229
平位		s 23.650	″ 60.98	s 46.056	″ 50.48	s 19.172	″ 18.41	s 65.989	″ 50.62
2回正中		11月17日		11月18日		11月18日		11月18日	
a	b	+ 0.1294	− 0.0161	+ 0.1779	+ 0.0163	+ 0.1122	− 0.0269	− 0.0472	− 0.1301
a′	b′	+ 0.5578	− 0.8300	+ 0.5528	− 0.8333	+ 0.5471	− 0.8371	+ 0.5443	− 0.8389
FK3番號		140		142		143		146	

星名	ζ Pers		† 9 H. Caml		ε Pers		ξ Pers	
等級 スペクトル型	2.91	B1	5.22	K0, A0	2.93	B1	4.05	Oe5
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 3 50	° ′ ″ +31 42	h m s 3 52	° ′ ″ +60 56	h m s 3 54	° ′ ″ +39 50	h m s 3 55	° ′ ″ +35 37
1 0.9	33.272	54.52	17.275	41.01	2.127	47.87	16.367	41.41
10.9	33.194 78	54.99 47	17.095 180	42.77 176	2.042 85	48.72 85	16.291 76	42.08 67
20.8	33.077 117	55.28 29	16.844 251	44.16 139	1.912 130	49.35 63	16.171 120	42.55 47
30.8	32.924 153	55.41 13	16.534 310	45.15 99	1.741 171	49.74 39	16.014 157	42.82 27
2 9.8	32.743 181	55.34 7	16.179 355	45.68 53	1.539 202	49.85 11	15.827 187	42.86 4
	200	26	384	7	223	16	208	19
19.8	32.543	55.08	15.795	45.75	1.316	49.69	15.619	42.67
3 1.7	32.337 206	54.65 43	15.402 393	45.35 40	1.085 231	49.27 42	15.402 217	42.26 41
11.7	32.125 202	54.05 60	15.018 384	44.50 85	0.856 229	48.60 67	15.188 214	41.65 61
21.7	31.948 187	53.32 73	14.664 354	43.26 124	0.645 211	47.71 89	14.989 199	40.86 79
31.6	31.789 159	52.50 82	14.253 306	41.67 159	0.463 182	45.66 105	14.817 172	39.94 92
	123	87	243	186	142	117	134	100
4 10.6	31.666	51.63	14.115	39.81	0.321	45.49	14.683	38.94
20.6	31.538 78	50.77 86	13.947 168	37.76 205	0.227 94	44.27 122	14.595 88	37.91 103
30.6	31.531 27	49.93 81	13.863 84	35.61 215	0.188 39	43.05 122	14.558 37	36.91 100
5 10.5	31.587 26	49.25 71	13.868 5	33.45 216	0.203 18	41.90 115	14.576 18	35.99 92
20.5	31.667 80	48.68 57	13.983 95	31.35 210	0.285 79	40.86 104	14.651 75	35.18 81
	132	40	182	196	135	87	129	64
30.5	31.799	48.28	14.145	29.39	0.420	39.99	14.780	34.54
6 9.5	31.981 182	48.07 21	14.409 264	27.63 176	0.610 190	39.31 68	14.930 180	34.10 44
19.4	32.207 226	48.08 1	14.747 338	26.14 149	0.848 238	38.85 46	15.187 227	33.86 24
29.4	32.470 263	48.29 21	15.150 403	24.95 119	1.128 280	38.63 22	15.453 266	33.85 1
7 9.4	32.765 295	48.71 42	15.607 457	24.10 85	1.442 314	38.65 2	15.752 299	34.05 20
	317	60	498	50	340	26	324	42
19.3	33.082	49.31	16.105	23.60	1.782	38.91	16.076	34.47
29.3	33.415 333	50.09 78	16.634 529	23.46 14	2.140 358	39.40 49	16.417 341	35.08 61
8 8.3	33.753 341	51.01 92	17.182 548	23.68 22	2.509 369	40.11 71	16.768 351	35.87 79
18.3	34.098 342	52.04 103	17.736 554	24.26 58	2.881 372	40.99 88	17.122 354	36.81 94
28.2	34.435 337	53.16 112	18.288 552	25.17 91	3.249 368	42.04 105	17.472 350	37.87 106
	328	117	540	124	359	119	342	115
9 7.2	34.763	54.33	18.828	26.41	3.608	43.23	17.814	39.02
17.2	35.076 313	55.54 121	19.348 520	27.94 153	3.953 345	44.52 129	18.142 328	40.24 122
27.2	35.371 295	56.75 121	19.839 491	29.73 179	4.279 326	45.90 138	18.452 310	41.51 127
10 7.1	35.644 273	57.95 120	20.296 457	31.76 203	4.582 303	47.34 144	18.742 290	42.80 129
17.1	35.893 249	59.12 117	20.710 414	33.99 223	4.860 278	48.82 148	19.006 264	44.11 131
	221	113	365	239	248	150	237	129
27.1	36.114	60.25	21.075	36.38	5.108	50.32	19.243	45.40
11 6.0	36.305 191	61.34 109	21.384 309	38.88 250	5.323 215	51.83 151	19.449 206	46.68 128
16.0	36.462 157	62.37 103	21.632 248	41.45 257	5.501 178	53.32 149	19.621 172	47.92 124
25.9	36.583 121	63.34 97	21.810 178	44.04 259	5.638 137	54.77 145	19.755 134	49.12 120
12 5.9	36.664 81	64.24 90	21.914 104	46.58 254	5.731 93	56.15 138	19.846 91	50.25 113
	39	81	27	242	46	129	48	104
15.9	36.703	65.05	21.941	49.00	5.777	57.44	19.894	51.29
25.9	36.698 5	65.76 71	21.888 53	51.24 224	5.773 4	58.60 116	19.896 2	52.23 94
35.9	36.649 49	66.33 57	21.753 132	53.22 198	5.720 53	59.60 100	19.850 46	53.01 78
平位	32.536	57.59	15.543	39.00	1.257	49.45	15.578	43.88
2回正中	11月19日		11月19日		11月20日		11月20日	
a b	+0.1881	+0.0221	+0.2552	+0.0635	+0.2008	+0.0291	+0.1942	+0.0247
a′ b′	+0.5353	−0.8447	+0.5290	−0.8487	+0.5224	−0.8527	+0.5178	−0.8555
FK3番號	144		145		147		148	

星名	γ Erid		λ Taur		ν Taur		174 G. Erid	
等級 スペクトル型	3.19	K5	3.8–4.1	B3	3.94	A0	5.57	A5
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 3 55	° ′ ″ −13 39	h m s 3 57	° ′ ″ +12 19	h m s 4 0	° ′ ″ +5 49	h m s 4 3	° ′ ″ −27 48
1 0.9	22.539	83.30	31.652	43.11	7.761	48.43	17.015	39.83
10.9	22.515 74	84.73 143	31.595 57	42.71 40	7.705 56	47.73 70	16.920 95	41.71 188
20.8	22.407 108	85.93 120	31.502 93	42.30 41	7.614 91	47.10 63	16.789 131	43.27 156
30.8	22.259 138	86.88 95	31.378 124	41.92 38	7.492 122	46.55 55	16.627 162	44.46 119
2 9.8	22.108 161	87.53 68	31.228 150	41.55 37	7.344 148	46.08 47	16.439 188	45.27 81
	177	39	169	35	166	37	206	39
19.8	21.931	87.95	31.059	41.20	7.178	45.71	16.233	45.66
3 1.7	21.747 184	88.04 9	30.883 176	40.88 32	7.004 174	45.44 27	16.020 213	45.65 1
11.7	21.534 183	87.84 20	30.707 176	40.61 27	6.831 173	45.27 17	15.807 213	45.22 43
21.7	21.393 171	87.34 50	30.543 164	40.40 21	6.668 163	45.23 4	15.607 200	44.40 82
31.6	21.243 150	86.55 79	30.401 142	40.26 14	6.525 143	45.33 10	15.426 181	43.20 120
	122	107	112	3	114	25	150	156
4 10.6	21.121	85.48	30.289	40.23	6.411	45.53	15.276	41.64
20.6	21.036 85	84.14 134	30.214 75	40.33 10	6.334 77	45.99 41	15.163 113	39.75 189
30.6	20.991 45	82.55 159	30.181 33	40.53 23	6.298 36	46.53 59	15.093 70	37.57 218
5 10.5	20.992 1	80.74 181	30.195 14	40.96 40	6.305 8	47.34 76	15.069 24	35.14 243
20.5	21.038 46	78.73 201	30.255 60	41.52 56	6.361 55	48.28 94	15.095 26	32.50 264
	92	216	107	74	99	110	74	278
30.5	21.130	76.57	30.362	42.26	6.460	49.38	15.169	29.72
6 9.5	21.265 135	74.29 228	30.512 150	43.15 89	6.603 143	50.64 126	15.290 121	26.86 286
19.4	21.440 175	71.96 233	30.702 190	44.18 103	6.785 182	52.01 137	15.455 165	23.98 288
29.4	21.650 210	69.64 232	30.925 223	45.34 116	7.000 215	53.48 147	15.659 204	21.16 282
7 9.4	21.889 239	67.38 226	31.177 252	46.59 125	7.244 244	55.00 152	15.893 239	18.47 269
	262	214	273	130	265	152	266	249
19.3	22.151	65.24	31.450	47.89	7.509	56.52	16.164	15.98
29.3	22.430 279	63.30 194	31.738 288	49.20 131	7.790 281	58.01 149	16.451 287	13.78 220
8 8.3	22.718 288	61.61 169	32.035 297	50.48 128	8.080 290	59.41 140	16.752 301	11.92 186
18.3	23.011 293	60.21 140	32.334 299	51.70 122	8.373 293	60.68 127	17.059 307	10.47 145
23.2	23.301 290	59.17 104	32.631 297	52.81 111	8.663 290	61.78 110	17.367 308	9.47 100
	282	67	288	97	284	90	303	52
9 7.2	23.583	53.50	32.919	53.78	8.947	62.68	17.670	8.95
17.2	23.854 271	58.23 27	33.195 277	54.59 81	9.218 271	63.36 68	17.961 291	8.94 1
27.2	24.108 254	58.37 14	33.453 262	55.22 63	9.476 258	63.80 44	18.235 274	9.43 49
10 7.1	24.343 235	58.90 53	33.702 244	55.67 45	9.715 239	63.99 19	18.489 254	10.40 97
17.1	24.554 211	59.78 88	33.924 222	55.94 27	9.935 220	63.96 3	18.717 228	11.81 141
	187	120	200	10	196	24	199	179
27.1	24.741	60.98	34.124	56.04	10.131	63.72	18.916	13.60
11 6.0	24.899 158	62.44 146	34.298 174	56.00 4	10.302 171	63.30 42	19.083 167	15.70 210
16.0	25.027 128	64.09 165	34.444 146	55.84 16	10.445 143	62.75 55	19.215 132	18.02 232
25.9	25.122 95	65.86 177	34.558 114	55.58 26	10.558 113	62.08 67	19.310 95	20.47 245
12 5.9	25.182 60	67.66 180	34.639 81	55.26 32	10.637 79	61.36 72	19.365 55	22.95 248
	25	178	44	36	43	74	14	241
15.9	25.207	69.44	34.683	54.90	10.680	60.62	19.379	25.36
25.9	25.194 13	71.11 167	34.690 7	54.52 38	10.687 7	59.88 74	19.351 28	27.62 226
35.9	25.143 51	72.64 153	34.658 32	54.14 38	10.656 31	59.18 70	19.283 68	29.65 203
平位	22.089	69.87	31.113	50.69	7.241	57.51	16.388	23.72
2回正中	11月20日		11月21日		11月21日		11月22日	
a b	+0.1395	−0.0084	+0.1659	+0.0074	+0.1592	+0.0034	+0.1225	−0.0171
a′ b′	+0.5174	−0.8557	+0.5094	−0.8606	+0.4995	−0.8663	+0.4876	−0.8731
FK3番號	149		150		151		153	

星名		48 Pers			o^1 Erid			α Horo			α Reti		
等級	スペクトル型	4.03	B3p		4.14	F2		3.83	K0		3.36	G5	
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 4	° ′ ″ +47 33		h m s 4 9	° ′ ″ −6 58		h m s 4 12	° ′ ″ −42 25		h m s 4 13	° ′ ″ −62 36	
		s	″		s	″		s	″		s	″	
1	0.9	31.929	43.62	126	5.387	77.30	124	7.553	80.34	225	42.908	78.20	
	10.9	31.835 94	44.88	100	5.329 58	78.54	107	7.422 136	82.59	186	42.614 294	80.60	240 193
	20.8	31.687 148	45.88	71	5.235 94	79.61	87	7.243 179	84.45	141	42.253 358	82.53	142
	30.8	31.492 195	46.59	37	5.111 124	80.48	66	7.027 216	85.86	93	41.847 409	83.95	85
2	9.8	31.259 233	46.96	3	4.930 151	81.14	43	6.782 245	86.79	43	41.397 450	84.80	29
		258			170			265			474		
	19.8	31.001	46.99		4.790	81.57	20	6.517	87.22		40.923	85.09	
3	1.7	30.731 270	46.68	31	4.611 179	81.77	4	6.243 274	87.15	7	40.439 484	84.82	27
	11.7	30.462 269	46.04	64	4.431 180	81.73	28	5.970 273	86.53	57	39.960 479	83.99	83
	21.7	30.211 251	45.10	94	4.260 171	81.45	52	5.709 261	85.53	105	39.502 458	82.63	136
	31.7	29.991 220	43.92	118	4.107 153	80.93	77	5.470 239	84.04	149	39.079 423	80.79	184
		177		137	125			205		192	374		228
4	10.6	29.814 123	42.55	150	3.982 90	80.16	100	5.265	82.12	229	38.705 313	78.51	268
	20.6	29.691 63	41.05	155	3.892 51	79.16	122	5.101 164	79.83	261	38.392 244	75.83	301
	30.6	29.628 2	39.50	154	3.841 7	77.94	144	4.984 117	77.22	289	38.148 167	72.82	328
5	10.5	29.630 69	37.96	146	3.834 38	76.50	164	4.920 64	74.33	310	37.981 83	69.54	347
	20.5	29.699 133	36.50	133	3.872 83	74.86	179	4.912 8 48	71.23	323	37.898 1	66.07	358
	30.5	29.832 195	35.17	115	3.955 126	73.07	192	4.960 104	68.00	330	37.899 86	62.49	361
6	9.5	30.027 250	34.02	92	4.081 166	71.15	201	5.064 156	64.70	329	37.985 169	58.88	355
	19.4	30.277 299	33.10	68	4.247 200	69.14	204	5.220 204	61.41	319	38.154 247	55.33	341
	29.4	30.576 340	32.42	41	4.447 231	67.10	202	5.424 247	58.22	301	38.401 318	51.92	317
7	9.4	30.916 371	32.01	14	4.678 254	65.08	195	5.671 284	55.21	274	38.719 381	48.75	284
	19.4	31.287	31.87		4.932	63.13	181	5.955	52.47		39.100	45.91	
	29.3	31.681 394	32.00	13	5.203 271	61.32	162	6.267 312	50.08	239	39.533 433	43.48	243
8	8.3	32.091 410	32.40	40	5.486 283	59.70	137	6.600 333	48.10	198	40.007 474	41.53	195
	18.3	32.506 415	33.05	65	5.773 287	58.33	109	6.946 346	46.61	149	40.508 501	40.12	141
	28.2	32.920 414	33.92	87	6.060 287	57.24	77	7.295 350	45.65	96	41.023 515	39.30	82
		407		109	282			347		40	516		19
9	7.2	33.327	35.01		6.342	56.47		7.643	45.25		41.539	39.11	
	17.2	33.720 393	36.28	127	6.613 271	56.04	43	7.980 337	45.44	19	42.040 501	39.56	45
	27.2	34.094 374	37.70	142	6.872 259	55.96	8	8.298 318	46.21	77	42.514 474	40.64	108
10	7.1	34.446 352	39.27	157	7.113 241	56.24	28	8.593 295	47.54	133	42.947 433	42.30	166
	17.1	34.769 323	40.95	168	7.334 221	56.83	59	8.853 263	49.36	182	43.328 381	44.50	220
		291		176	198		89	228		226	319		265
	27.1	35.060	42.71		7.532	57.72		9.084	51.62		43.647	47.15	
11	6.1	35.314 254	44.54	183	7.704 172	58.84	112	9.272 188	54.23	261	43.892 245	50.16	301
	16.0	35.525 211	46.40	186	7.848 144	60.15	131	9.415 143	57.08	285	44.059 167	53.41	325
	25.9	35.690 165	48.25	185	7.961 113	61.58	143	9.510 95	60.08	300	44.143 84	53.77	336
12	5.9	35.804 114	50.07	182	8.040 79	63.07	149	9.553 46	63.08	300	44.141 2	60.13	336
		59		174	43		147	6		293	88		322
	15.9	35.863	51.81		8.083	64.54		9.550	66.01		44.053	63.35	
	25.9	35.864 1	53.41	160	8.088 5	65.96	142	9.495 55	68.75	274	43.883 170	66.34	299
	35.9	35.807 57	54.83	142	8.055 33	67.27	131	9.390 105	71.20	245	43.625 248	68.97	263
平位		s 30.822	″ 44.37		s 4.844	″ 65.41		s 6.651	″ 62.20		s 41.114	″ 57.99	
2回正中		11月22日			11月24日			11月24日			11月25日		
a	b	+ 0.2172	+ 0.0352		+ 0.1461	− 0.0038		+ 0.0990	− 0.0276		+ 0.0382	− 0.0576	
a′	b′	+ 0.4829	− 0.8757		+ 0.4553	− 0.8852		+ 0.4536	− 0.8912		+ 0.4474	− 0.8943	
FK3番號		152			154			155			156		

星名		γ Dora			† 41 υ^4 Erid m			γ Taur			54 Pers		
等級	スペクトル型	4.36	F5		3.59	B9		3.86	K0		5.10	G5	
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 14	° ′ ″ −51 37		h m s 4 15	° ′ ″ −33 55		h m s 4 16	° ′ ″ +15 29		h m s 4 16	° ′ ″ +34 25	
		s	″		s	″		s	″		s	″	
1	0.9	33.033	65.57	238	44.912	87.73	213	33.368	22.38	26	43.017	47.58	68
	10.9	32.849 184	67.95	194	44.810 102	89.86	177	33.325 43	22.12	26	42.963 54	48.26	53
	20.9	32.615 234	69.89	145	44.668 142	91.63	137	33.243 82	21.86	27	42.862 101	48.79	36
	30.8	32.338 277	71.34	93	44.491 177	93.00	94	33.127 116	21.59	27	42.721 141	49.15	16
2	9.8	32.030 308	72.27	39	44.285 206	93.94	50	32.980 147	21.32	28	42.545 176	49.31	4
		331			225			168			201		
	19.8	31.699	72.66		44.030	94.44		32.812	21.04		42.344	49.27	
3	1.7	31.358 341	72.51	15	43.824 236	94.48	4	32.632 180	20.77	27	42.130 214	49.03	24
	11.7	31.019 339	71.83	68	43.588 236	94.07	41	32.450 182	20.50	27	41.914 216	48.58	45
	21.7	30.695 324	70.64	119	43.362 226	93.21	86	32.276 174	20.25	25	41.708 206	47.97	61
	31.7	30.397 298	68.98	166	43.156 206	91.95	126	32.122 154	20.05	20	41.526 182	47.22	75
		260		211	177		166	127		13	150		85
4	10.6	30.137	66.87		42.979	90.29		31.995	19.92		41.376	46.37	
	20.6	29.923 214	64.37	250	42.840 139	88.27	202	31.905 90	19.87	5	41.270 106	45.48	89
	30.6	29.763 160	61.54	283	42.744 96	85.94	233	31.856 49	19.94	7	41.212 58	44.58	90
5	10.5	29.664 99	58.43	311	42.696 48	83.34	260	31.853 3	20.14	20	41.207 5	43.74	84
	20.5	29.629 35	55.12	331	42.699 3	80.52	282	31.898 45	20.48	34	41.258 51	42.98	76
		29		345	54		297	91		50	104		62
	30.5	29.658	51.67		42.753	77.55		31.989	20.98		41.362	42.36	
6	9.5	29.753 95	48.17	350	42.857 104	74.49	306	32.125 136	21.63	65	41.518 156	41.90	46
	19.4	29.909 156	44.71	346	43.008 151	71.42	307	32.302 177	22.42	79	41.721 203	41.62	28
	29.4	30.123 214	41.36	335	43.203 195	68.42	300	32.514 212	23.34	92	41.966 245	41.52	10
7	9.4	30.390 267	38.23	313	43.435 232	65.56	286	32.757 243	24.36	102	42.245 279	41.63	11
		311		284	264		264	267		109	307		29
	19.4	30.701	35.39		43.699	62.92		33.024	25.45		42.552	41.92	
	29.3	31.048 347	32.93	246	43.988 289	60.58	234	33.309 285	26.58	113	42.880 328	42.39	47
8	8.3	31.423 375	30.92	201	44.295 307	58.62	196	33.604 295	27.70	112	43.221 341	43.01	62
	18.3	31.817 394	29.42	150	44.612 317	57.09	153	33.905 301	28.78	108	43.567 346	43.76	75
	28.2	32.218 401	28.50	92	44.933 321	56.04	105	34.206 301	29.79	101	43.915 348	44.63	87
		400		33	318		52	297		91	342		95
9	7.2	32.618	28.17		45.251	55.52		34.503	30.70		44.257	45.58	
	17.2	33.006 388	28.47	30	45.559 308	55.54	2	34.790 287	31.47	77	44.590 333	46.59	101
	27.2	33.374 368	29.37	90	45.853 294	56.10	56	35.065 275	32.10	63	44.909 319	47.64	105
10	7.1	33.713 339	30.85	148	46.125 272	57.19	109	35.325 260	32.58	48	45.211 302	48.71	107
	17.1	34.014 301	32.86	201	46.372 247	58.75	156	35.566 241	32.91	33	45.491 280	49.80	109
		258		246	217		198	220		19	256		110
	27.1	34.272	35.32		46.589	60.73		35.786	33.10		45.747	50.90	
11	6.1	34.479 207	38.15	283	46.772 183	63.05	232	35.981 195	33.16	6	45.974 227	51.99	109
	16.0	34.632 153	41.22	307	46.917 145	65.61	256	36.148 167	33.12	4	46.169 195	53.06	107
	25.0	34.725 93	44.43	321	47.022 105	68.32	271	36.285 137	33.01	11	46.327 158	54.11	105
12	5.9	34.757 32	47.65	322	47.083 61	71.08	276	36.387 102	32.84	17	46.445 118	55.13	102
		29		311	17		269	65		20	73		96
	15.9	34.728	50.76		47.100	73.77		36.452	32.64		46.518	56.09	
	25.9	34.637 91	53.66	290	47.071 29	76.30	253	36.478 26	32.42	22	46.544 26	56.98	89
	35.9	34.488 149	56.26	260	46.997 74	78.59	229	36.462 16	32.19	23	46.522 22	57.76	78
平位		s 31.835	″ 46.43		s 44.139	″ 71.01		s 32.753	″ 29.66		s 42.195	″ 51.21	
2回正中		11月25日			11月25日			11月26日			11月26日		
a	b	+ 0.0779	− 0.0374		+ 0.1130	− 0.0197		+ 0.1700	+ 0.0081		+ 0.1945	+ 0.0199	
a′	b′	+ 0.4441	− 0.8960		+ 0.4394	− 0.8983		+ 0.4362	− 0.8998		+ 0.4356	− 0.9001	
FK3番號		157			160			159			158		

本初子午線正中時

星名	212 G. Erid		δ Taur		η Reti		δ Mens	
等級	5.31		3.93		5.18		5.62	
スペクトル型	A0		K0		K0		K0p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 4 18	° ′ −20 46	h m 4 19	° ′ +17 24	h m 4 21	° ′ −63 30	h m 4 21	° ′ −80 20
1 0.9	s 10.370	″ 42.20	s 39.264	″ 30.64	s 17.979	″ 96.63	s 52.921	″ 77.77
10.9	10.301 69	43.97 177	39.223 41	30.48 16	17.683 296	99.11 248	51.946 975	80.10 233
20.9	10.193 108	45.48 151	39.143 80	30.30 18	17.319 364	101.13 202	50.804 1142	81.96 186
30.8	10.053 140	46.68 120	39.026 117	30.10 20	16.899 420	102.64 151	49.529 1275	83.29 133
2 9.8	9.885 168	47.55 87	38.879 147	29.88 22	16.436 463	103.59 95	48.157 1372	84.07 78
	188	52	169	25	492	39	1429	22
19.8	9.697	48.07	38.710	29.63	15.944	103.98	46.728	84.29
3 1.7	9.498 199	48.22 15	38.529 181	29.37 26	15.441 503	103.81 17	45.280 1448	83.95 34
11.7	9.297 201	48.02 20	38.344 185	29.09 28	14.940 501	103.07 74	43.850 1430	83.06 89
21.7	9.104 193	47.46 56	38.168 176	28.81 28	14.459 481	101.81 126	42.477 1373	81.67 139
31.7	8.929 175	46.57 89	38.010 158	28.53 25	14.012 447	100.06 175	41.193 1284	79.80 187
	147	123	130	20	399	222	1164	230
4 10.6	8.782	45.34	37.880	28.36	13.613	97.84	40.029	77.50
20.6	8.668 114	43.80 154	37.787 93	28.23 13	13.274 339	95.23 261	39.014 1015	74.83 267
30.6	8.595 73	41.98 182	37.736 51	28.19 4	13.006 268	92.28 295	38.171 843	71.84 299
5 10.6	8.536 29	39.91 207	37.730 6	28.28 9	12.816 190	89.04 324	37.520 651	68.61 323
20.5	8.583 17	37.64 227	37.772 42	28.51 23	12.710 106	85.60 344	37.077 443	65.19 342
	64	245	90	38	19	356	224	351
30.5	8.647	35.19	37.862	28.89	12.691	82.04	36.853	61.68
6 9.5	8.753 109	32.64 255	37.996 134	29.41 52	12.761 79	78.43 361	36.851 2	58.15 353
19.4	8.908 152	30.04 260	38.172 176	30.09 68	12.915 154	74.86 357	37.072 221	54.68 347
29.4	9.097 189	27.45 259	38.385 213	30.89 80	13.151 236	71.42 344	37.508 436	51.38 330
7 9.4	9.320 223	24.94 251	38.628 243	31.81 92	13.462 311	68.22 320	38.149 641	48.31 307
	250	235	268	99	377	290	826	274
19.4	9.570	22.59	38.893	32.80	13.839	65.32	38.975	45.57
29.3	9.841 271	20.46 213	39.182 286	33.84 104	14.273 434	62.82 250	39.964 989	43.23 234
8 8.3	10.126 285	18.62 184	39.480 298	34.90 106	14.751 478	60.79 203	41.087 1123	41.38 185
18.3	10.420 294	17.13 149	39.783 303	35.94 104	15.260 509	53.31 148	42.309 1222	40.07 131
28.3	10.715 295	16.03 110	40.087 304	36.92 98	15.786 526	53.40 91	43.593 1284	39.33 74
	293	66	300	89	531	27	1305	10
9 7.2	11.008	15.37	40.387	37.81	16.317	53.13	44.898	39.23
17.2	11.292 284	15.16 21	40.678 291	38.60 79	16.836 519	53.50 37	46.182 1284	39.74 51
27.2	11.582 270	15.41 25	40.957 279	39.26 66	17.329 493	59.49 99	47.401 1219	40.87 113
10 7.1	11.816 254	16.12 71	41.222 265	39.78 52	17.783 454	61.09 160	48.514 1113	42.53 171
17.1	12.048 232	17.24 112	41.467 245	40.18 40	18.186 403	63.23 214	49.480 966	44.80 222
	207	149	225	26	338	261	783	267
27.1	12.255	18.73	41.692	40.44	18.524	65.84	50.263	47.47
11 6.1	12.435 180	20.52 179	41.892 200	40.60 16	18.790 266	68.82 298	50.836 573	50.48 301
16.0	12.583 148	22.54 202	42.065 173	40.67 7	18.975 185	72.06 324	51.176 340	53.72 324
26.0	12.697 114	24.70 216	42.207 142	40.66 1	19.073 98	75.43 337	51.268 92	57.06 334
12 5.9	12.773 76	26.92 222	42.314 107	40.60 6	19.083 10	78.81 338	51.110 158	60.38 332
	38	219	69	9	79	327	404	318
15.9	12.811	29.11	42.383	40.51	19.004	82.08	50.706	63.56
25.9	12.809 2	31.18 207	42.412 29	40.40 11	18.838 166	85.12 304	50.066 640	66.48 292
35.9	12.766 43	33.08 190	42.399 13	40.27 13	18.590 248	87.83 271	49.212 854	69.05 257
平位	s 9.729	″ 27.76	s 38.627	″ 37.61	s 16.015	″ 76.84	s 46.767	″ 57.37
2回正中	11月26日		11月26日		11月27日		11月27日	
a b	+0.1305	−0.0109	+0.1723	+0.0089	+0.0317	−0.0559	−0.2033	−0.1629
a′ b′	+0.4299	−0.9029	+0.4240	−0.9057	+0.4176	−0.9086	+0.4155	−0.9096
FK3番號	161		162		163		166	

1943 本初子午線正中時

星名	ε Taur		1 Caml *sq*		δ Cael		α Taur	
等級	3.63		5.86		5.16		1.06	
スペクトル型	K0		B1		B3		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 25	° ′ +19 3	h m 4 27	° ′ +53 47	h m 4 29	° ′ −45 4	h m 4 32	° ′ +16 23
1 0.9	s 17.723	″ 13.64	s 31.688	″ 19.87	s 6.338	″ 48.20	s 39.465	″ 39.29
10.9	17.687 36	13.55 8	31.602 86	21.54 167	6.206 132	50.65 245	39.435 30	39.08 21
20.9	17.609 78	13.46 10	31.450 152	22.95 141	6.025 181	52.70 205	39.364 71	38.86 22
30.8	17.495 114	13.33 13	31.239 211	24.05 110	5.803 222	54.31 161	39.255 109	38.65 21
2 9.8	17.349 146	13.16 17	30.980 259	24.80 75	5.548 255	55.43 112	39.114 141	38.43 22
	170	21	295	36	280	61	166	22
19.8	17.179	12.95	30.685	25.16	5.268	56.04	38.948	38.21
3 1.7	16.995 184	12.71 24	30.371 314	25.14 2	4.975 293	56.13 9	38.767 181	37.98 23
11.7	16.808 187	12.44 27	30.053 318	24.72 42	4.680 295	55.72 41	38.581 186	37.75 23
21.7	16.628 180	12.15 29	29.748 305	23.93 79	4.395 285	54.81 91	38.401 180	37.53 22
31.7	16.466 162	11.87 28	29.473 275	22.83 110	4.130 265	53.43 138	38.238 163	37.34 19
	134	25	231	138	234	181	137	15
4 10.6	16.332	11.62	29.242	21.45	3.896	51.62	38.101	37.19
20.6	16.233 99	11.42 20	29.067 175	19.86 159	3.702 194	49.40 222	37.998 103	37.12 7
30.6	16.177 56	11.31 11	28.958 109	18.14 172	3.553 146	46.84 256	37.936 62	37.14 2
5 10.6	16.166 11	11.30 1	28.919 39	16.36 178	3.462 94	43.98 286	37.918 18	37.27 13
20.5	16.204 38	11.43 13	28.955 36	14.59 177	3.426 36	40.89 309	37.948 30	37.54 27
	85	27	110	170	21	326	76	41
30.5	16.289	11.70	29.065	12.89	3.447	37.63	38.024	37.95
6 9.5	16.420 131	12.11 41	29.245 180	11.33 156	3.526 79	34.29 334	38.146 122	38.49 54
19.4	16.593 173	12.67 56	29.490 245	9.96 137	3.660 134	30.93 336	38.309 163	39.17 68
29.4	16.803 210	13.36 69	29.794 304	8.81 115	3.846 186	27.66 327	38.510 201	39.97 80
7 9.4	17.045 242	14.16 80	30.147 353	7.92 89	4.079 233	24.55 311	38.742 232	40.87 90
	267	90	395	62	274	286	258	97
19.4	17.312	15.06	30.542	7.30	4.353	21.69	39.000	41.84
29.3	17.597 285	16.01 95	30.968 426	6.97 33	4.659 306	19.17 252	39.278 278	42.84 100
8 8.3	17.896 299	16.99 98	31.417 449	6.93 4	4.992 333	17.05 212	39.569 291	43.85 101
18.3	18.201 305	17.97 98	31.880 463	7.17 24	5.341 349	15.41 164	39.868 299	44.83 98
28.3	18.507 306	18.90 93	32.347 467	7.69 52	5.700 359	14.31 110	40.170 302	45.74 91
	304	87	466	79	361	53	299	82
9 7.2	18.811	19.77	32.813	8.48	6.061	13.78	40.469	46.56
17.2	19.106 295	20.54 77	33.269 456	9.50 102	6.414 353	13.85 7	40.762 293	47.26 70
27.2	19.391 285	21.20 66	33.710 441	10.76 126	6.752 338	14.52 67	41.045 283	47.83 57
10 7.1	19.661 270	21.75 55	34.130 420	12.22 146	7.069 317	15.77 125	41.315 270	48.25 42
17.1	19.913 252	22.18 43	34.521 391	13.86 164	7.356 287	17.54 177	41.558 253	48.53 28
	232	32	358	180	253	224	234	16
27.1	20.145	22.50	34.879	15.66	7.609	19.78	41.802	48.69
11 6.1	20.352 207	22.72 22	35.197 318	17.59 193	7.820 211	22.41 263	42.012 210	48.73 4
16.0	20.533 181	22.86 14	35.469 272	19.62 203	7.986 166	25.31 290	42.197 185	48.68 5
26.0	20.682 149	22.94 8	35.688 219	21.72 210	8.102 116	28.38 307	42.350 153	48.56 12
12 5.9	20.796 114	22.97 3	35.848 160	23.83 211	8.166 64	31.51 313	42.470 120	48.40 16
	76	0	97	207	9	306	82	18
15.9	20.872	22.97	35.945	25.90	8.175	34.57	42.552	48.22
25.9	20.906 34	22.95 2	35.973 28	27.88 198	8.129 46	37.47 290	42.593 41	48.03 19
35.9	20.899 7	22.91 4	35.932 41	29.70 182	8.030 99	40.10 263	42.591 2	47.83 20
平位	s 17.061	″ 20.43	s 30.289	″ 21.04	s 5.243	″ 30.59	s 38.802	″ 46.74
2回正中	11月28日		11月28日		11月29日		11月30日	
a b	+0.1744	+0.0092	+0.2371	+0.0353	+0.0917	−0.0253	+0.1715	+0.0073
a′ b′	+0.4016	−0.9153	+0.3927	−0.9197	+0.3864	−0.9224	+0.3720	−0.9282
FK3番號	164		165		167		168	

星名	α Dora		υ² Erid		ν Erid		53 Erid	
等級 スペクトル型	3.47	A0p	3.88	K0	4.12	B₂	3.98	K0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 4 32	° ′ −55 9	h m 4 33	° ′ −30 40	h m 4 33	° ′ − 3 27	h m 4 35	° ′ −14 24
1 0.9	s 47.228	″ 62.05	s 20.794	″ 53.07	s 28.740	″ 74.27	s 34.774	″ 63.88
10.9	47.037 191	64.64 259	20.715 79	58.24 217	28.703 37	75.44 117	34.727 47	65.52 164
20.9	46.788 249	66.80 216	20.594 121	60.09 185	28.628 75	76.47 103	34.641 86	66.95 143
30.8	46.491 297	68.48 168	20.436 158	61.58 149	28.517 111	77.32 85	34.519 122	68.11 116
2 9.8	46.153 338	69.65 117	20.247 189	62.66 108	28.376 141	77.99 67	34.367 152	69.00 89
	364	62	213	66	164	48	175	59
19.8	45.789	70.27	20.034	63.32	28.212	78.47	34.192	69.59
3 1.8	45.409 380	70.33 6	19.809 225	63.54 22	28.034 178	78.74 27	34.003 189	69.88 29
11.7	45.027 382	69.86 47	19.579 230	63.33 21	27.851 183	78.81 7	33.809 194	69.85 3
21.7	44.653 371	68.86 100	19.355 224	62.70 63	27.674 177	78.66 15	33.620 189	69.52 33
31.7	44.310 346	67.36 150	19.148 207	61.66 104	27.511 163	78.31 35	33.446 174	68.89 63
	309	195	180	143	138	57	149	92
4 10.6	44.001	65.40	18.968	60.23	27.373	77.74	33.297	67.97
20.6	43.738 263	63.03 237	18.822 146	58.44 179	27.267 106	76.96 78	33.179 118	66.76 121
30.6	43.530 208	60.29 274	18.716 106	56.33 211	27.199 68	75.97 99	33.099 80	65.29 147
5 10.6	43.385 145	57.25 304	18.653 60	53.94 239	27.173 26	74.77 120	33.061 38	63.58 171
20.5	43.307 78	53.97 328	18.645 11	51.32 262	27.191 18	73.40 137	33.068 7	61.66 192
	9	343	38	280	62	155	52	209
30.5	43.298	50.54	18.683	48.52	27.253	71.85	33.120	59.57
6 9.5	43.358 60	47.02 352	18.769 86	45.60 292	27.359 106	70.18 167	33.216 96	57.35 222
19.5	43.487 129	43.51 351	18.902 133	42.65 295	27.506 147	68.40 178	33.354 138	55.05 230
29.4	43.680 193	40.09 342	19.077 175	39.73 292	27.688 182	66.57 183	33.529 175	52.73 232
7 9.4	43.933 253	36.86 323	19.290 213	36.91 282	27.902 214	64.74 183	33.738 209	50.45 228
	304	296	246	263	240	179	236	217
19.4	44.237	33.90	19.536	34.28	28.142	62.95	33.974	48.28
29.3	44.586 349	31.30 260	19.807 271	31.92 236	28.401 259	61.26 169	34.231 257	46.28 200
8 8.3	44.970 384	29.14 216	20.098 291	29.89 203	28.675 274	59.72 154	34.505 274	44.51 177
18.3	45.379 409	27.48 166	20.401 303	28.27 162	28.957 282	58.39 133	34.787 282	43.03 148
28.3	45.802 423	26.40 108	20.711 310	27.10 117	29.242 285	57.31 108	35.075 288	41.89 114
	429	48	311	67	283	79	287	75
9 7.2	46.231	25.92	21.022	26.43	29.525	56.52	35.362	41.14
17.2	46.653 422	26.07 15	21.325 303	26.29 14	29.802 277	55.03 49	35.643 281	40.79 35
27.2	47.057 404	26.84 77	21.618 293	26.68 39	30.070 268	55.88 15	35.914 271	40.86 7
10 7.2	47.436 379	28.22 138	21.894 276	27.58 90	30.325 255	56.04 16	36.172 258	41.34 48
17.1	47.777 341	30.16 194	22.149 255	28.97 139	30.532 237	56.52 48	36.412 240	42.20 86
	297	242	228	181	218	75	219	122
27.1	48.074	32.58	22.377	30.78	30.780	57.27	36.631	43.42
11 6.1	48.318 244	35.40 282	22.575 198	32.95 217	30.975 195	58.25 98	36.825 194	44.93 151
16.0	48.502 184	38.51 311	22.738 163	35.38 243	31.144 169	59.42 117	36.991 166	46.66 173
26.0	48.623 121	41.79 328	22.863 125	37.99 261	31.282 138	60.71 129	37.125 134	48.55 189
12 5.9	48.676 53	45.13 334	22.947 84	40.67 268	31.387 105	62.07 136	37.224 99	50.51 196
	16	326	41	265	69	136	61	195
15.9	48.660	48.39	22.988	43.32	31.453	63.43	37.285	52.46
25.9	48.576 84	51.47 308	22.983 5	45.85 253	31.486 30	64.75 132	37.306 21	54.34 188
35.9	48.425 151	54.26 279	22.933 50	48.16 231	31.476 10	65.97 122	37.287 19	55.07 173
平位	s 45.708	″ 43.64	s 19.973	″ 40.52	s 28.117	″ 63.20	s 34.103	″ 50.94
2回正中	11月30日		11月30日		11月30日		11月30日	
a b	+ 0.0644	− 0.0356	+ 0.1166	− 0.0146	+ 0.1496	− 0.0015	+ 0.1373	− 0.0062
a′ b′	+ 0.3715	− 0.9284	+ 0.3692	− 0.9294	+ 0.3687	− 0.9296	+ 0.3601	− 0.9329
FK3番號	171		170		169		172	

星名	τ Taur		Grb 848 Caml		μ Erid		4 Caml	
等級 スペクトル型	4.33	B5	6.04	F0	4.18	B5	5.35	A2
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 4 38	° ′ +22 50	h m 4 41	° ′ +75 50	h m 4 42	° ′ − 3 21	h m 4 43	° ′ +55 39
1 0.9	s 49.918	″ 51.10	s 11.724	″ 28.72	s 39.646	″ 38.55	s 16.304	″ 28.40
10.9	49.893 25	51.23 13	11.446 278	31.37 265	39.616 30	39.75 120	16.230 74	30.27 187
20·9	49.823 70	51.32 9	11.010 436	33.70 233	39.547 69	40.80 105	16.083 147	31.90 163
30.8	49.714 109	51.36 4	10.434 576	35.63 193	39.441 106	41.67 87	15.870 213	33.23 133
2 9.8	49.569 145	51.34 2	9.742 692	37.07 144	39.303 138	42.36 69	15.600 270	34.21 98
	171	9	775	92	162	50	311	59
19.8	49.398	51.25	8.967	37.99	39.141	42.86	15.289	34.80
3 1.8	49.209 189	51.08 17	8.143 824	38.35 36	38.964 177	43.15 29	14.950 339	34.97 17
11.7	49.015 194	50.84 24	7.308 835	38.14 21	38.780 184	43.24 9	14.603 347	34.73 24
21.7	48.823 189	50.55 29	6.500 808	37.38 76	38.600 180	43.12 12	14.266 337	34.09 64
31.7	48.653 173	50.21 34	5.756 744	36.13 125	38.433 167	42.78 34	13.953 310	33 09 100
	146		649		143	54	267	132
4 10.7	48.507	49.87	5.107	34.42	38.290	42.24	13.689	31.77
20.6	48.396 111	49.54 33	4.582 525	32.34 208	38.178 112	41.48 76	13.479 210	30.20 157
30.6	48.326 70	49.25 29	4.200 382	29.99 235	38.103 75	40.52 96	13.336 143	28.45 175
5 10.6	48.303 23	49.04 21	3.977 223	27.44 255	38.069 34	39.35 117	13.267 69	26.59 186
20.5	48.328 25	48.94 10	3.921 56	24.79 265	38.079 10	38.01 134	13.276 9	24.70 189
	74	2	112	264	54	151	87	186
30.5	48.402	48.96	4.033	22.15	38.133	36.50	13.363	22.84
6 9.5	48.523 121	49.10 14	4.310 277	19.57 258	38.231 98	34.85 165	13.527 164	21.08 176
19.5	48.688 165	49.39 29	4.743 433	17.17 240	38.369 138	33.10 175	13.762 235	19.48 160
29.4	48.892 204	49.81 42	5.318 575	14.98 219	38.544 175	31.30 180	14.061 299	18.08 140
7 9.4	49.129 237	50.36 55	6.020 702	13.08 190	38.751 207	29.49 181	14.417 356	16.92 116
	264	65	812	157	233	177	403	89
19.4	49.393	51.01	6.832	11.51	38.984	27.72	14.820	16.03
29.3	49.679 286	51.74 73	7.733 901	10.31 120	39.238 254	26.04 168	15.261 441	15.41 62
8 8.3	49.979 300	52.53 79	8.706 973	9.49 82	39.508 270	24.52 152	15.730 469	15.10 31
18.3	50.288 309	53.34 81	9.727 1021	9.09 40	39.787 279	23.20 132	16.217 487	15.07 3
28.3	50.601 313	54.15 81	10.779 1052	9.10 1	40.071 284	22.12 108	16.715 498	15.34 27
	312	77	1063	43	284	79	501	55
9 7.2	50.913	54.92	11.842	9.53	40.355	21.33	17.216	15.89
17.2	51.219 306	55.64 72	12.896 1054	10.38 85	40.634 279	20.85 48	17.710 494	16.71 82
27.2	51.516 297	55.30 66	13.923 1027	11.61 123	40.904 270	20.70 15	18.192 482	17.78 107
10 7.2	51.800 284	55.88 58	14.907 984	13.23 162	41.163 259	20.87 17	18.655 463	19.10 132
17.1	52.068 268	57.37 49	15.825 918	15.21 198	41.407 244	21.34 47	19.092 437	20.64 154
	249	42	837	229	225	76	403	173
27.1	52.317	57.79	16.662	17.50	41.632	22.10	19.495	22.37
11 6.1	52.543 226	58.14 35	17.399 737	20.07 257	41.834 202	23.09 99	19.853 363	24.28 191
16.0	52.741 198	58.44 30	18.016 617	22.87 280	42.011 177	24.27 118	20.173 315	26.33 205
25.0	52.908 167	58.70 26	18.499 483	25.84 297	42.158 147	25.53 131	20.432 259	28.48 215
12 5.9	53.040 132	58.94 24	18.831 332	28.91 307	42.272 114	26.96 138	20.628 196	30.68 220
	92	21	169	308	78	138	127	220
15.9	53.132	59.15	19.000	31.99	42.350	28.34	20.755	32.88
25.9	53.182 50	59.34 19	19.000 0	34.99 300	42.388 38	29.68 134	20.808 53	35.02 214
35.9	53.186 4	59.52 18	18.828 172	37.82 283	42.386 2	30.93 125	20.784 24	37.04 202
平位	s 49.195	″ 57.57	s 7.541	″ 28.66	s 38.995	″ 27.56	s 14.737	″ 30.19
2回正中	12月1日		12月2日		12月2日		12月2日	
a b	+ 0.1797	+ 0.0097	+ 0.4021	+ 0.0892	+ 0.1496	− 0.0013	+ 0.2490	+ 0.0333
a′ b′	+ 0.3469	− 0.9379	+ 0.3374	− 0.9414	+ 0.3311	− 0.9436	+ 0.3287	− 0.9444
FK3番號	174		173		176		175	

星名		μ Mens		π⁴ Orio		α Caml		π⁵ Orio	
等級	スペクトル型	5.69	B9	3.78	B3	4.38	B0	3.87	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 43	° ′ −71 1	h m 4 48	° ′ +5 30	h m 4 48	° ′ +66 14	h m 4 51	° ′ +2 20
		s	″	s	″	s	″	s	″
1	0.9	40.730	87.54	10.716	23.68	24.383	54.56	17.449	45.97
	10.9	40.325 405	90.23 269	10.696 20	22.90 78	24.264 119	56.89 233	17.430 19	45.03 94
	20.9	39.821 504	92.48 225	10.635 61	22.21 69	24.046 218	58.94 205	17.371 59	44.20 83
	30.8	39.235 586	94.24 176	10.537 98	21.63 58	23.738 308	60.65 171	17.273 98	43.50 70
2	9.8	38.583 652	95.47 123	10.405 132	21.15 48	23.353 385	61.95 130	17.141 132	42.93 57
		697	67	158	37	441	83	157	43
	19.8	37.886	96.14	10.247	20.78	22.912	62.78	16.984	42.50
3	1.8	37.165 721	96.23 9	10.072 175	20.52 26	22.434 478	63.13 35	16.809 175	42.23 27
	11.7	36.440 725	95.78 45	9.890 182	20.38 14	21.945 489	62.99 14	16.626 183	42.10 13
	21.7	35.733 707	94.78 100	9.711 179	20.37 1	21.467 478	62.36 63	16.446 180	42.13 3
	31.7	35.064 669	93.27 151	9.545 166	20.48 11	21.025 442	61.29 107	16.279 167	42.31 18
		614	198	144	25	386	147	146	35
4	10.7	34.450	91.29	9.401	20.73	20.639	59.82	16.133	42.66
	20.6	33.910 540	88.88 241	9.289 112	21.12 39	20.328 311	58.03 179	16.018 115	43.18 52
	30.6	33.457 453	86.11 277	9.214 75	21.67 55	20.104 224	55.99 204	15.939 79	43.86 68
5	10.6	33.102 355	83.03 308	9.180 34	22.37 70	19.979 125	53.78 221	15.901 38	44.72 86
	20.5	32.857 245	79.70 333	9.191 11	23.23 86	19.957 22	51.50 228	15.908 7	45.75 103
		132	348	55	101	82	228	50	118
	30.5	32.725	76.22	9.246	24.24	20.039	49.22	15.958	46.93
6	9.5	32.711 14	72.65 357	9.345 99	25.38 114	20.224 185	47.01 221	16.052 94	48.24 131
	19.5	32.814 103	69.09 356	9.485 140	26.63 125	20.506 282	44.94 207	16.186 134	49.66 142
	29.4	33.031 217	65.62 347	9.661 176	27.97 134	20.875 369	43.08 186	16.358 172	51.15 149
7	9.4	33.357 326	62.34 328	9.870 209	29.35 138	21.323 448	41.47 161	16.562 204	52.67 152
		425	300	235	139	515	132	230	152
	19.4	33.782	59.34	10.105	30.74	21.838	40.15	16.792	54.19
	29.4	34.294 512	56.70 264	10.362 257	32.09 135	22.407 569	39.16 99	17.045 253	55.65 146
8	8.3	34.880 586	54.51 219	10.634 272	33.35 126	23.019 612	38.50 66	17.313 268	57.00 135
	18.3	35.522 642	52.84 167	10.916 282	34.49 114	23.660 641	38.19 31	17.592 279	58.20 120
	28.3	36.203 681	51.74 110	11.202 286	35.47 98	24.319 659	38.24 5	17.876 284	59.20 100
		701	48	288	77	667	41	285	78
9	7.2	36.904	51.26	11.490	36.24	24.986	38.65	18.161	59.98
	17.2	37.602 698	51.42 16	11.773 283	36.79 55	25.647 661	39.40 75	18.443 282	60.50 52
	27.2	38.277 675	52.22 80	12.049 276	37.09 30	26.295 648	40.48 108	18.718 275	60.74 24
10	7.2	38.909 632	53.64 142	12.314 265	37.15 6	26.918 623	41.89 141	18.982 264	60.71 3
	17.1	39.478 569	55.63 199	12.565 251	36.98 17	27.505 587	43.59 170	19.233 251	60.42 29
		487	250	234	39	542	197	234	53
	27.1	39.965	58.13	12.799	36.59	28.047	45.56	19.467	59.89
11	6.1	40.354 389	61.03 290	13.011 212	36.02 57	28.533 486	47.78 222	19.679 212	59.15 74
	16.1	40.633 279	64.24 321	13.199 188	35.31 71	28.951 418	50.18 240	19.867 188	58.26 89
	26.0	40.792 159	67.63 339	13.358 159	34.49 82	29.292 341	52.74 256	20.027 160	57.25 101
12	5.9	40.825 33	71.07 344	13.484 126	33.62 87	29.544 252	55.39 265	20.153 126	56.18 107
		94	338	89	88	156	267	90	107
	15.9	40.731	74.45	13.573	32.74	29.700	58.06	20.243	55.11
	25.9	40.513 218	77.64 319	13.623 50	31.88 86	29.754 54	60.68 262	20.294 51	54.06 105
	35.9	40.178 335	80.53 289	13.631 8	31.08 80	29.703 51	63.16 248	20.303 9	53.08 98
平位		s 37.451	″ 68.98	s 10.054	″ 33.20	s 22.048	″ 55.75	s 16.781	″ 56.01
2回正中		12月2日		12月4日		12月4日		12月4日	
a	b	−0.0300	−0.0635	+0.1594	+0.0020	+0.2975	+0.0466	+0.1559	+0.0008
a′	b′	+0.3271	−0.9450	+0.3083	−0.9513	+0.3075	−0.9516	+0.2954	−0.9554
FK3番號		177		179		178		180	

星名		ι Auri		ε Auri		β Caml		ι Taur	
等級	スペクトル型	2.90	K2	3.1—3.8	F5p	4.22	G0p	4.70	A5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 4 53	° ′ +33 4	h m 4 57	° ′ +43 44	h m 4 58	° ′ +60 21	h m 4 59	° ′ +21 30
		s	″	s	″	s	″	s	″
1	0.9	17.500	34.55	53.483	23.74	22.052	39.25	41.866	30.01
	10.9	17.484 16	35.25 70	53.461 22	25.02 128	21.988 64	41.35 211	41.860 6	30.04 3
	20.9	17.417 67	35.86 61	53.381 80	26.16 114	21.841 147	43.24 188	41.808 52	30.10 6
	30.8	17.304 113	36.36 50	53.247 134	27.12 96	21.617 224	44.84 160	41.713 95	30.14 4
2	9.8	17.150 154	35.71 35	53.064 183	27.84 72	21.326 291	46.07 123	41.581 132	30.15 1
		185	19	219	46	342	83	163	4
	19.8	16.965	36.90	52.845	28.30	20.984	46.90	41.418	30.11
3	1.8	16.758 207	35.91 1	52.601 244	28.48 18	20.608 376	47.30 40	41.235 183	30.03 8
	11.7	16.541 217	36.74 17	52.346 255	28.36 12	20.218 390	47.26 4	41.041 194	29.89 14
	21.7	16.328 213	36.40 34	52.093 253	27.97 39	19.833 385	46.78 48	40.849 192	29.70 19
	31.7	16.130 198	35.92 48	51.858 235	27.33 64	19.473 360	45.89 89	40.669 180	29.48 22
		171	61	206	88	317	125	156	24
4	10.7	15.959	35.31	51.652	26.45	19.156	44.64	40.513	29.24
	20.6	15.825 134	34.62 69	51.488 164	25.41 104	18.898 258	43.09 155	40.388 125	29.02 22
	30.6	15.734 91	33.90 72	51.374 114	24.25 116	18.711 187	41.30 179	40.303 85	28.83 19
5	10.6	15.693 41	33.18 72	51.316 58	23.02 123	18.603 108	39.36 194	40.261 42	28.70 13
	20.5	15.705 12	32.50 68	51.318 2	21.78 124	18.580 23	37.34 202	40.267 6	28.66 4
		64	61	62	120	62	203	53	6
	30.5	15.769	31.89	51.380	20.58	18.642	35.31	40.320	28.72
6	9.5	15.885 116	31.40 49	51.502 122	19.47 111	18.789 147	33.34 197	40.420 100	28.90 18
	19.5	16.049 164	31.04 36	51.679 177	18.48 99	19.016 227	31.50 184	40.564 144	29.19 29
	29.4	16.256 207	30.82 22	51.906 227	17.65 83	19.316 300	29.83 167	40.748 184	29.59 40
7	9.4	16.502 246	30.75 7	52.179 273	17.00 65	19.681 365	28.38 145	40.966 218	30.10 51
		277	8	309	46	421	119	247	60
	19.4	16.779	30.83	52.488	16.54	20.102	27.19	41.213	30.70
	29.4	17.081 302	31.04 21	52.827 339	16.28 26	20.569 467	26.28 91	41.484 271	31.35 65
8	8.3	17.402 321	31.38 34	53.190 363	16.21 7	21.072 503	25.67 61	41.773 289	32.05 70
	18.3	17.734 332	31.84 46	53.568 378	16.34 13	21.600 528	25.36 31	42.072 299	32.75 70
	28.3	18.074 340	32.37 53	53.955 387	16.64 30	22.144 544	25.36 0	42.379 307	33.43 68
		341	61	391	47	552	32	309	64
9	7.2	18.415	32.98	54.346	17.11	22.696	25.68	42.688	34.07
	17.2	18.753 338	33.64 66	54.734 388	17.74 63	23.246 550	26.29 61	42.995 307	34.64 57
	27.2	19.084 331	34.33 69	55.115 381	18.51 77	23.787 541	27.19 90	43.296 301	35.13 49
10	7.2	19.403 319	35.05 72	55.485 370	19.41 90	24.311 524	28.37 118	43.588 292	35.54 41
	17.1	19.707 304	35.79 74	55.837 352	20.43 102	24.809 498	29.81 144	43.866 278	35.85 31
		285	76	330	113	464	169	262	24
	27.1	19.992	36.55	56.167	21.56	25.273	31.50	44.128	36.09
11	6.1	20.253 261	37.32 77	56.470 303	22.80 124	25.695 422	33.40 190	44.370 242	36.26 17
	16.1	20.486 233	38.12 80	56.740 270	24.12 132	26.065 370	35.49 209	44.587 217	36.38 12
	26.0	20.684 198	38.92 80	56.970 230	25.51 139	26.375 310	37.72 223	44.774 187	36.47 9
12	6.0	20.844 160	39.74 82	57.154 184	26.95 144	26.615 240	40.05 233	44.926 152	36.55 8
		116	82	133	145	163	237	113	8
	15.9	20.960	40.56	57.287	28.40	26.778	42.42	45.039	36.63
	25.9	21.029 69	41.36 80	57.364 77	29.84 144	26.858 80	44.76 234	45.110 71	36.71 8
	35.9	21.046 17	42.13 77	57.382 18	31.21 137	26.851 7	46.99 223	45.135 25	36.80 9
平位		s 16.633	″ 39.92	s 52.399	″ 27.90	s 20.242	″ 41.63	s 41.117	″ 37.20
2回正中		12月5日		12月6日		12月6日		12月6日	
a	b	+0.1949	+0.0125	+0.2148	+0.0171	+0.2663	+0.0311	+0.1787	+0.0068
a′	b′	+0.2370	−0.9579	+0.2578	−0.9635	+0.2558	−0.9640	+0.2601	−0.9656
FK3番號		181		183		182		184	

星名	η Auri		ε Leps		η² Pict		ζ Dora	
等級 スペクトル型	3.28	B3	3.29	K5	4.92	K5	4.76	F8
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 5 2	° ′ ″ +41 9	h m s 5 3	° ′ ″ −22 26	h m s 5 3	° ′ ″ −49 38	h m s 5 4	° ′ ″ −57 32
1 0.9	31.782	29.53	3.640	59.98	30.730	91.48	33.746	76.37
10.9	31.770 12	30.69 116	3.604 36	62.07 209	30.612 118	94.29 281	33.577 169	79.27 290
20.9	31.700 70	31.72 103	3.524 80	63.91 184	30.436 176	96.73 244	33.340 237	81.79 252
30.9	31.577 123	32.60 88	3.403 121	65.44 153	30.208 228	98.75 202	33.043 297	83.86 207
2 9.8	31.408 169	33.27 67	3.248 155	66.64 120	29.938 270	100.29 154	32.697 346	85.43 157
	206	43	183	84	304	104	384	104
19.8	31.202	33.70	3.065	67.48	29.634	101.33	32.313	86.47
3 1.8	30.970 232	33.89 19	2.864 201	67.95 47	29.308 326	101.84 51	31.905 408	86.97 50
11.7	30.726 244	33.81 8	2.652 212	68.04 9	28.973 335	101.82 2	31.485 420	86.92 5
21.7	30.484 242	33.47 34	2.442 210	67.76 28	28.640 333	101.27 55	31.070 415	86.33 59
31.7	30.257 227	32.91 56	2.243 199	67.11 65	28.322 318	100.23 104	30.672 398	85.22 111
	199	78	178	100	291	152	367	161
4 10.7	30.058	32.13	2.065	66.11	28.031	98.71	30.305	83.61
20.6	29.899 159	31.21 92	1.915 150	64.77 134	27.777 254	96.75 196	29.981 324	81.55 206
30.6	29.786 113	30.17 104	1.802 113	63.13 164	27.569 208	94.39 236	29.710 271	79.09 246
5 10.6	29.727 59	29.07 110	1.729 73	61.20 193	27.413 156	91.69 270	29.499 211	76.28 281
20.6	29.725 2	27.97 110	1.701 28	59.04 216	27.314 99	88.71 298	29.355 144	73.18 310
	57	106	18	237	37	321	72	332
30.5	29.782	26.91	1.719	56.67	27.277	85.50	29.283	69.86
6 9.5	29.895 113	25.93 98	1.782 63	54.16 251	27.300 23	82.15 335	29.283 0	66.40 346
19.5	30.062 167	25.07 86	1.889 107	51.57 259	27.385 85	78.75 340	29.356 73	62.88 352
29.4	30.278 216	24.35 72	2.036 147	48.95 262	27.527 142	75.36 339	29.499 143	59.40 348
7 9.4	30.536 258	23.80 55	2.220 184	46.38 257	27.725 198	72.09 327	29.708 209	56.05 335
	295	38	216	245	246	306	270	314
19.4	30.831	23.42	2.436	43.93	27.971	69.03	29.978	52.91
29.4	31.156 325	23.22 20	2.679 243	41.67 226	28.260 289	66.27 276	30.301 323	50.09 282
8 8.3	31.503 347	23.19 3	2.943 264	39.68 199	28.584 324	63.88 239	30.671 370	47.66 243
18.3	31.866 363	23.34 15	3.222 279	38.01 167	28.936 352	61.95 193	31.075 404	45.70 196
28.3	32.238 372	23.64 30	3.510 288	36.73 128	29.307 371	60.54 141	31.505 430	44.29 141
	376	44	294	84	383	84	446	82
9 7.3	32.614	24.08	3.804	35.89	29.690	59.70	31.951	43.47
17.2	32.989 375	24.65 57	4.096 292	35.51 38	30.073 383	59.48 22	32.400 449	43.28 19
27.2	33.357 368	25.34 69	4.383 287	35.62 11	30.450 377	59.88 40	32.841 441	43.73 45
10 7.2	33.716 359	26.14 80	4.661 278	36.20 58	30.811 361	60.90 102	33.263 422	44.82 109
17.1	34.058 342	27.04 90	4.923 262	37.24 104	31.148 337	62.50 160	33.654 391	46.50 168
	322	99	243	146	304	212	351	222
27.1	34.380	28.03	5.166	38.70	31.452	64.62	34.005	48.72
11 6.1	34.677 297	29.10 107	5.385 219	40.51 181	31.717 265	67.19 257	34.306 301	51.40 268
16.1	34.943 266	30.26 116	5.577 192	42.61 210	31.934 217	70.11 292	34.548 242	54.44 304
26.0	35.172 229	31.48 122	5.735 158	44.90 229	32.098 164	73.28 317	34.723 175	57.73 329
12 6.0	35.357 185	32.74 126	5.857 122	47.31 241	32.205 107	76.57 329	34.826 103	61.14 341
	136	129	81	241	46	329	28	341
15.9	35.493	34.03	5.938	49.72	32.251	79.86	34.854	64.55
25.9	35.575 82	35.31 128	5.976 38	52.07 235	32.234 17	83.05 319	34.806 48	67.84 329
35.9	35.601 26	36.54 123	5.969 7	54.27 220	32.154 80	86.01 296	34.683 123	70.90 306
平位	s 30.757	″ 34.23	s 2.799	″ 46.69	s 29.233	″ 75.55	s 31.801	″ 60.02
2回正中	12月7日		12月7日		12月7日		12月8日	
a b	+ 0.2098	+ 0.0145	+ 0.1266	− 0.0068	+ 0.0772	− 0.0192	+ 0.0515	− 0.0251
a′ b′	+ 0.2482	− 0.9687	+ 0.2460	− 0.9693	+ 0.2441	− 0.9698	+ 0.2397	− 0.9709
FK3番號	185		186		187		189	

星名	β Erid		λ Erid		μ Auri		β Orio	
等級 スペクトル型	2.92	A3	4.34	B2	4.78	A3	0.34	B8p
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 5 5	° ′ ″ − 5 9	h m s 5 6	° ′ ″ − 8 49	h m s 5 9	° ′ ″ +38 24	h m s 5 11	° ′ ″ − 8 15
1 0.9	3.445	42.07	25.742	44.16	32.381	62.87	48.566	69.11
10.9	3.432 13	43.43 136	25.727 15	45.69 153	32.379 2	63.89 102	48.555 11	70.63 152
20.9	3.376 56	44 62 119	25.669 58	47.04 135	32.321 58	64.81 92	48.502 53	71.98 135
30.9	3.281 95	45.62 100	25.572 97	48.18 114	32.211 110	65.61 80	48.409 93	73.12 114
2 9.8	3.152 129	46.42 80	25.439 133	49.08 90	32.055 156	66.23 62	48.280 129	74.02 90
	158	59	160	65	194	42	158	66
19.8	2.994	47.01	25.279	49.73	31.861	66.65	48.122	74.68
3 1.8	2.818 176	47.37 36	25.100 179	50.12 39	31.642 219	66.86 21	47.944 178	75.09 41
11.7	2.631 186	47.50 13	24.910 190	50.26 14	31.409 233	66.82 4	47.755 189	75.25 16
21.7	2.445 186	47.41 9	24.721 189	50.13 13	31.176 233	66.57 25	47.565 190	75.15 10
31.7	2.269 176	47.10 31	24.541 180	49.75 38	30.956 220	66.10 47	47.385 180	74.79 36
	156	55	159	64	194	65	161	60
4 10.7	2.113	46.55	24.382	49.11	30.762	65.45	47.224	74.19
20.6	1.985 128	45.79 76	24.250 132	48.22 89	30.604 158	64.65 80	47.089 135	73.34 85
30.6	1.892 93	44.81 98	24.152 98	47.10 112	30.491 113	63.76 89	46.988 101	72.25 109
5 10.6	1.838 54	43.62 119	24.095 57	45.75 135	30.428 63	62.82 94	46.927 61	70.95 130
20.6	1.827 11	42.25 137	24.079 16	44.20 155	30.420 8	61.86 96	46.908 19	69.44 151
	32	154	28	173	48	91	23	168
30.5	1.859	40.71	24.107	42.47	30.468	60.95	46.931	67.76
6 9.5	1.934 75	39.03 168	24.179 72	40.60 187	30.571 103	60.11 84	46.998 67	65.94 182
19.5	2.051 117	37.24 179	24.292 113	38.64 196	30.725 154	59.38 73	47.107 109	64.01 193
29.4	2.205 154	35.41 183	24.443 151	36.62 202	30.927 202	58.78 60	47.253 146	62.03 198
7 9.4	2.393 188	33.56 185	24.628 185	34.61 201	31.171 244	58.32 46	47.434 181	60.05 198
	217	180	214	196	279	29	210	192
19.4	2.610	31.76	24.842	32.65	31.450	58.03	47.644	58.13
29.4	2.849 239	30.05 171	25.080 238	30.82 183	31.758 308	57.88 15	47.879 235	56.32 181
8 8.3	3.107 258	28.51 154	25.337 257	29.16 166	32.089 331	57.89 1	48.133 254	54.68 164
18.3	3.378 271	27.17 134	25.607 270	27.74 142	32.436 347	58.04 15	48.401 268	53.27 141
28.3	3.653 278	26.08 109	25.886 279	26.60 114	32.793 357	58.32 28	48.678 277	52.14 113
	283	79	283	81	363	39	281	81
9 7.3	3.939	25.29	26.169	25.79	33.156	58.71	48.959	51.33
17.2	4.220 281	24.83 46	26.450 281	25.34 45	33.517 361	59.21 50	49.241 282	50.87 46
27.2	4.496 276	24.71 12	26.727 277	25.27 7	33.874 357	59.79 58	49.519 278	50.78 9
10 7.2	4.764 268	24.93 22	26.996 269	25.57 30	34.223 349	60.47 68	49.790 271	51.06 28
17.1	5.019 255	25.49 56	27.252 256	26.22 65	34.557 334	61.22 75	50.048 258	51.70 64
	239	85	240	99	317	82	244	97
27.1	5.253	26.34	27.492	27.21	34.874	62.04	50.292	52.67
11 6.1	5.478 220	27.45 111	27.712 220	28.48 127	35.167 293	62.94 90	50.516 224	53.92 125
16.1	5.673 195	28.76 131	27.907 195	29.97 149	35.432 265	63.90 96	50.716 200	55.39 147
26.0	5.840 167	30.23 147	28.074 167	31.62 165	35.661 229	64.92 102	50.888 172	57.02 163
12 6.0	5.974 134	31.76 153	28.207 133	33.36 174	35.849 188	65.99 107	51.026 138	58.75 173
	98	155	96	176	142	111	102	174
15.9	6.072	33.31	28.303	35.12	35.991	67.10	51.128	60.49
25.9	6.129 57	34.82 151	28.359 56	36.82 170	36.081 90	68.20 110	51.189 61	62.18 169
35.9	6.144 15	36.23 141	28.372 13	38.42 160	36.116 35	69.28 108	51.208 19	63.77 159
平位	s 2.727	″ 31.05	s 25.004	″ 32.68	s 31.407	″ 68.22	s 47.817	″ 57.80
2回正中	12月8日		12月8日		12月9日		12月10日	
a b	+ 0.1475	− 0.0014	+ 0.1433	− 0.0024	+ 0.2049	+ 0.0116	+ 0.1439	− 0.0020
a′ b′	+ 0.2375	− 0.9714	+ 0.2317	− 0.9728	+ 0.2185	− 0.9758	+ 0.2088	− 0.9780
FK3番號	188		190		192		194	

本初子午線正中時

星名		α Auri		19 H. Caml		ϑ Dora		τ Orio	
等級	スペクトル型	0.21	G0	5.16	F8	4.78	K0	3.68	B5
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 5 12	° ′ +45 56	h m 5 13	° ′ +79 9	h m 5 13	° ′ −67 14	h m 5 14	° ′ − 6 54
1	0.9	s 29.598	″ 27.66	s 12.958	″ 71.94	s 50.706	″ 74.24	s 50.962	″ 27.46
	10.9	29.592 6	29.08 142	12.722 236	74.87 293	50.443 263	77.24 300	50.955 7	28.93 147
	20.9	29.524 68	30.38 130	12.266 456	77.55 268	50.086 357	79.86 262	50.906 49	30.23 130
	30.9	29.397 127	31.50 112	11.612 654	79.88 233	49.648 438	82.04 218	50.816 90	31.33 110
2	9.8	29.218 179	32.40 90	10.783 829	81.77 189	49.142 506	83.73 169	50.690 126	32.21 88
		221	62	963	139	558	115	156	65
	19.8	28.997	33.02	9.820	83.16	48.534	84.88	50.534	32.86
3	1.8	28.747 250	33.35 33	8.767 1053	83.99 83	47.994 590	85.47 59	50.358 176	33.26 40
	11.8	28.481 266	33.38 3	7.668 1099	84.25 26	47.387 607	85.51 4	50.171 187	33.42 16
	21.7	28.215 266	33.10 28	6.575 1093	83.94 31	46.783 604	85.00 51	49.982 189	33.34 8
	31.7	27.963 252	32.54 56	5.536 1039	83.07 87	46.200 583	83.96 104	49.801 181	33.02 32
		224	82	943	138	545	154	161	56
4	10.7	27.739	31.72	4.593	81.69	45.655	82.42	49.640	32.46
	20.6	27.555 184	30.69 103	3.787 806	79.87 182	45.163 492	80.41 201	49.505 135	31.67 79
	30.6	27.420 135	29.51 118	3.147 640	77.69 218	44.738 425	77.98 243	49.403 102	30.65 102
5	10.6	27.342 78	28.21 130	2.698 449	75.24 245	44.392 346	75.19 279	49.340 63	29.41 124
	20.6	27.325 17	26.88 133	2.456 242	72.60 264	44.133 259	72.10 309	49.320 20	27.98 143
		44	133	31	274	166	332	22	160
	30.5	27.369	25.55	2.425	69.86	43.967	68.78	49.342	26.38
6	9.5	27.475 106	24.28 127	2.609 184	67.12 274	43.899 68	65.31 347	49.407 65	24.63 175
	19.5	27.639 164	23.11 117	3.000 391	64.46 266	43.930 31	61.77 354	49.514 107	22.78 185
	29.5	27.856 217	22.07 104	3.585 585	61.95 251	44.060 130	58.26 351	49.653 144	20.88 190
7	9.4	28.120 264	21.19 88	4.350 765	59.67 228	44.283 223	54.86 340	49.837 179	18.97 191
		306	69	924	201	310	319	209	186
	19.4	28.426	20.50	5.274	57.66	44.593	51.67	50.046	17.11
	29.4	28.765 339	20.00 50	6.336 1062	55.98 168	44.984 391	48.78 289	50.278 232	15.35 176
8	8.3	29.130 365	19.69 31	7.512 1176	54.66 132	45.444 460	46.29 249	50.531 253	13.75 160
	18.3	29.514 384	19.59 10	8.776 1264	53.73 93	45.961 517	44.27 202	50.797 266	12.37 138
	28.3	29.911 397	19.67 8	10.105 1329	53.21 52	46.520 559	42.79 148	51.073 276	11.26 111
		404	27	1370	10	587	88	282	80
9	7.3	30.315	19.94	11.475	53.11	47.107	41.91	51.355	10.46
	17.2	30.720 405	20.38 44	12.858 1383	53.44 33	47.706 599	41.66 25	51.636 281	10.00 46
	27.2	31.120 400	20.98 60	14.230 1372	54.20 76	48.298 592	42.07 41	51.914 278	9.90 10
10	7.2	31.511 391	21.74 76	15.568 1338	55.37 117	48.867 569	43.12 105	52.185 271	10.15 25
	17.2	31.886 375	22.65 91	16.841 1273	56.95 158	49.396 529	44.78 166	52.446 261	10.75 60
		356	106	1187	195	472	221	245	92
	27.1	32.242	23.71	18.028	58.90	49.868	46.99	52.691	11.67
11	6.1	32.571 329	24.89 118	19.100 1072	61.20 230	50.269 401	49.68 269	52.918 227	12.87 120
	16.1	32.868 297	26.19 130	20.030 930	63.81 261	50.586 317	52.75 307	53.121 203	14.28 141
	26.0	33.124 256	27.60 141	20.793 763	66.66 285	50.807 221	56.08 333	53.296 175	15.85 157
12	6.0	33.335 211	29.09 149	21.365 572	69.70 304	50.926 119	59.53 348	53.438 142	17.50 165
		157	153	363	314	13	348	106	168
	15.9	33.492	30.62	21.728	72.84	50.939	63.04	53.544	19.18
	25.9	33.590 98	32.16 154	21.869 141	75.99 315	50.843 96	66.43 339	53.609 65	20.81 163
	35.9	33.627 37	33.66 150	21.780 89	79.05 306	50.643 200	69.59 316	53.632 23	22.34 153
平位		s 28.444	″ 32.32	s 7.364	″ 74.05	s 47.665	″ 58.24	s 50.213	″ 16.37
2回正中		12月10日		12月10日		12月10日		12月10日	
a	b	+ 0.2207	+ 0.0142	+ 0.4946	+ 0.0708	− 0.0024	− 0.0318	+ 0.1454	− 0.0016
a′	b′	+ 0.2059	− 0.9786	+ 0.2031	− 0.9792	+ 0.2003	− 0.9797	+ 0.1953	− 0.9807
FK3番號		193		191		196		195	

本初子午線正中時

星名		o Colm		12 G. Colm		ζ Pict		† η Orio m	
等級	スペクトル型	4.91	K0	5.75	A0	5.52	F8	3.44	B1
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 5 15	° ′ −34 55	h m 5 17	° ′ −27 25	h m 5 17	° ′ −50 39	h m 5 21	° ′ − 2 26
1	0.9	s 26.735	″ 73.65	s 8.268	″ 47.52	s 59.693	″ 74.18	s 37.307	″ 63.29
	10.9	26.684 51	76.24 250	8.235 33	49.87 235	59.587 106	77.11 293	37.310 3	64.56 127
	20.9	26.583 101	78.52 228	8.153 79	51.95 208	59.420 167	79.70 259	37.270 40	65.68 112
	30.9	26.438 145	80.45 193	8.034 122	53.71 176	59.198 222	81.88 218	37.188 82	66.63 95
2	9.8	26.253 185	81.99 154	7.874 160	55.11 140	58.929 269	83.59 171	37.069 119	67.39 76
		216	109	191	101	306	122	149	57
	19.8	26.037	83.08	7.683	55.12	58.623	84.81	36.920	67.96
3	1.8	25.800 237	83.71 63	7.471 212	56.72 60	58.292 331	85.49 68	36.748 172	68.33 37
	11.8	25.550 250	83.89 18	7.247 224	56.91 19	57.946 346	85.66 17	36.564 184	68.50 17
	21.7	25.300 250	83.61 28	7.022 225	56.69 22	57.601 345	85.29 37	36.377 187	68.46 4
	31.7	25.059 241	82.89 72	6.805 217	56.07 62	57.268 333	84.41 88	36.198 179	68.23 23
		220	115	197	101	310	137	161	43
4	10.7	24.839	81.74	6.608	55.06	56.958	83.04	36.037	67.80
	20.6	24.649 190	80.18 156	6.439 169	53.69 137	56.684 274	81.22 182	35.902 135	67.16 64
	30.6	24.495 154	78.26 192	6.304 135	51.97 172	56.453 231	78.99 223	35.799 103	66.33 83
5	10.6	24.384 111	76.00 226	6.210 94	49.95 202	56.274 179	76.39 260	35.734 65	65.31 102
	20.6	24.321 63	73.47 253	6.161 49	47.66 229	56.152 122	73.48 291	35.712 22	64.11 120
		15	277	4	250	62	315	20	135
	30.5	24.306	70.70	6.157	45.16	56.090	70.33	35.732	62.76
6	9.5	24.341 35	67.78 292	6.201 44	42.50 266	56.090 0	67.02 331	35.795 63	61.27 149
	19.5	24.425 84	64.76 302	6.290 89	39.73 277	56.152 62	63.62 340	35.898 103	59.67 160
	29.5	24.555 130	61.73 303	6.421 131	36.95 278	56.273 121	60.21 341	36.040 142	58.01 166
7	9.4	24.728 173	53.77 296	6.592 171	34.20 275	56.451 178	56.90 331	36.216 176	56.33 168
		212	282	205	262	230	313	205	166
	19.4	24.940	55.95	6.797	31.58	56.681	53.77	36.421	54.67
	29.4	25.184 244	53.36 259	7.032 235	29.16 242	56.957 276	50.90 287	36.651 230	53.10 157
8	8.3	25.455 271	51.09 227	7.291 259	27.01 215	57.272 315	48.40 250	36.901 250	51.66 144
	18.3	25.747 292	49.20 189	7.539 278	25.21 180	57.618 346	46.34 206	37.165 264	50.40 126
	28.3	26.055 308	47.76 144	7.860 291	23.83 138	57.988 370	44.79 155	37.439 274	49.36 104
		316	93	299	93	384	97	281	76
9	7.3	26.371	46.83	8.159	22.90	58.372	43.82	37.720	48.60
	17.2	26.690 319	46.44 39	8.460 301	22.47 43	58.762 390	43.44 38	38.002 282	48.14 46
	27.2	27.005 315	46.62 18	8.757 297	22.56 9	59.149 387	43.70 26	38.281 279	47.99 15
10	7.2	27.311 306	47.35 73	9.047 290	23.16 60	59.524 375	44.58 88	38.555 274	48.17 18
	17.2	27.602 291	48.62 127	9.324 277	24.27 111	59.877 353	46.07 149	38.819 264	48.66 49
		269	176	258	155	323	202	250	77
	27.1	27.871	50.38	9.582	25.82	60.200	48.09	39.069	49.43
11	6.1	28.113 242	52.53 220	9.816 234	27.78 196	60.485 285	50.59 250	39.302 233	50.44 101
	16.1	28.323 210	55.10 252	10.022 206	30.05 227	60.724 239	53.47 288	39.513 211	51.65 121
	26.0	28.494 171	57.88 278	10.194 172	32.55 250	60.910 186	56.63 316	39.697 184	53.00 135
12	6.0	28.623 129	60.80 292	10.328 134	35.18 263	61.037 127	59.94 331	39.849 152	54.43 143
		82	295	91	267	65	334	116	145
	15.9	28.705	63.75	10.419	37.85	61.102	63.28	39.965	55.88
	25.9	28.738 33	66.62 287	10.464 45	40.45 260	61.102 0	66.55 327	40.040 75	57.28 140
	35.9	28.720 18	69.34 272	10.463 1	42.91 246	61.037 65	69.63 308	40.073 33	58.60 132
平位		s 25.638	″ 59.64	s 7.308	″ 34.28	s 58.055	″ 59.21	s 36.551	″ 52.82
2回正中		12月10日		12月11日		12月11日		12月12日	
a	b	+ 0.1076	− 0.0090	+ 0.1193	− 0.0064	+ 0.0733	− 0.0148	+ 0.1535	− 0.0005
a′	b′	+ 0.1933	− 0.9812	+ 0.1860	− 0.9826	+ 0.1824	− 0.9832	+ 0.1667	− 0.9860
FK3番號		197		198		199		200	

星名	γ Orio		β Taur		17 Caml		β Leps	
等級	1.70		1.78		5.75		2.96	
スペクトル型	B2		B8		K5		G0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 5 22	° ′ + 6 17	h m 5 22	° ′ + 28 33	h m 5 24	° ′ + 63 1	h m 5 25	° ′ − 20 48
	s	″	s	″	s	″	s	″
1 0.9	5.042 10	49.22 80	42.005 16	33.36 47	48.743 22	17.03 233	49.006 13	25.33 215
10.9	5.052 48	48.42 70	42.021 36	33.83 45	48.721 118	19.36 214	48.993 59	27.48 191
20.9	5.017 35	47.72 59	41.985 83	34.28 41	48.603 208	21.50 190	48.934 102	29.39 163
30.9	4.939 78	47.13 48	41.902 127	34.69 33	48.395 288	23.40 157	48.832 141	31.02 131
2 9.8	4.824 115 146	46.65 35	41.775 163	35.02 24	48.107 352	24.97 118	48.691 171	32.33 97
19.8	4.678 169	46.30 24	41.612 190	35.26 13	47.755 399	26.15 75	48.520 194	33.30 62
3 1.8	4.509 182	46.06 14	41.422 204	35.39 0	47.355 425	26.90 29	48.326 207	33.92 25
11.8	4.327 185	45.92 1	41.218 207	35.39 12	46.931 429	27.19 16	48.119 210	34.17 11
21.7	4.142 177	45.91 10	41.011 198	35.27 23	46.502 412	27.03 61	47.909 203	34.06 47
31.7	3.965 159	46.01 22	40.813 178	35.04 33	46.090 374	26.42 102	47.706 186	33.59 81
4 10.7	3.806 133	46.23 35	40.635 146	34.71 40	45.716 318	25.40 138	47.520 159	32.78 115
20.7	3.673 99	46.58 48	40.489 109	34.31 44	45.398 249	24.02 168	47.361 127	31.63 146
30.6	3.574 60	47.06 62	40.380 65	33.87 45	45.149 169	22.34 190	47.234 89	30.17 174
5 10.6	3.514 18	47.68 76	40.315 16	33.42 42	44.980 80	20.44 204	47.145 46	28.43 199
20.6	3.496 25	48.44 89	40.299 33	33.00 37	44.900 11	18.40 213	47.099 3	26.44 220
30.5	3.521 68	49.33 100	40.332 81	32.63 29	44.911 102	16.27 213	47.096 43	24.24 236
6 9.5	3.589 110	50.33 111	40.413 129	32.34 20	45.013 190	14.14 206	47.139 85	21.88 247
19.5	3.699 148	51.44 119	40.542 171	32.14 10	45.203 272	12.08 194	47.224 127	19.41 252
29.5	3.847 182	52.63 123	40.713 210	32.04 0	45.475 347	10.14 176	47.351 163	16.89 249
7 9.4	4.029 212	53.86 124	40.923 242	32.04 11	45.822 413	8.38 155	47.514 197	14.40 249 241
19.4	4.241	55.10	41.165 270	32.15 19	46.235 469	6.83 129	47.711 224	11.99 223
29.4	4.476 235	56.31 121	41.435 292	32.34 27	46.704 516	5.54 102	47.935 249	9.76 201
8 8.4	4.732 256	57.44 113	41.727 306	32.61 33	47.220 551	4.52 72	48.184 266	7.75 170
18.3	5.001 269	58.46 102	42.033 318	32.94 36	47.771 577	3.80 42	48.450 278	6.05 134
28.3	5.280 279 285	59.32 86 67	42.351 325	33.30 39	48.348 594	3.38 10	48.728 288	4.71 92
9 7.3	5.565 286	59.99 45	42.676 325	33.69 39	48.942 601	3.28 22	49.016 290	3.79 48
17.2	5.851 284	60.44 22	43.001 324	34.08 38	49.543 599	3.50 54	49.306 289	3.31 0
27.2	6.135 279	60.66 2	43.325 318	34.46 37	50.142 589	4.04 84	49.595 283	3.31 47
10 7.2	6.414 269	60.64 26	43.643 308	34.83 35	50.731 567	4.88 114	49.878 272	3.78 93
17.2	6.683 256	60.38 45	43.951 293	35.18 35	51.298 538	6.02 144	50.150 257	4.71 135
27.1	6.939	59.93 64	44.244 275	35.53 35	51.836 498	7.46 170	50.407 236	6.06 171
11 6.1	7.178 239	59.29 79	44.519 251	35.88 36	52.334 447	9.16 195	50.643 211	7.77 202
16.1	7.395 217	58.50 87	44.770 222	36.24 38	52.781 384	11.11 195	50.854 181	9.79 224
26.1	7.586 191	57.63 93	44.992 186	36.62 42	53.165 312	13.26 215	51.035 146	12.03 237
12 6.0	7.745 159 123	56.70 94	45.178 145	37.04 45	53.477 228	15.57 231 242	51.181 105	14.40 240
15.9	7.868	55.76	45.323	37.49	53.705	17.99	51.286	16.80
25.9	7.951 83	54.87 89	45.423 100	37.96 47	53.843 138	20.44 245	51.349 63	19.16 236
35.9	7.991 40	54.03 84	45.473 50	38.46 50	53.885 42	22.85 241	51.366 17	21.40 224
平位	s 4.311	″ 58.69	s 41.165	″ 40.33	s 46.735	″ 20.93	s 48.111	″ 13.10
2回正中	12月12日		12月12日		12月13日		12月13日	
a b	+ 0.1606	+ 0.0012	+ 0.1891	+ 0.0059	+ 0.2827	+ 0.0200	+ 0.1283	− 0.0038
a′ b′	+ 0.1647	− 0.9863	+ 0.1621	− 0.9868	+ 0.1531	− 0.9882	+ 0.1487	− 0.9889
FK3番號	201		202		203		204	

星名	δ Orio		α Leps		φ¹ Orio		Grb 966 Caml	
等級	2.48		2.69		4.53		6.36	
スペクトル型	B0		F0		B0		K5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 5 29	° ′ − 0 20	h m 5 30	° ′ − 17 51	h m 5 31	° ′ + 9 26	h m 5 32	° ′ + 75 0
	s	″	s	″	s	″	s	″
1 0.9	6.318 11	33.20 118	13.757 6	53.99 204	42.103 20	60.36 64	9.213	32.93
10.9	6.329 33	34.38 104	13.751 50	55.03 182	42.123 26	59.72 55	9.137 76	35.78 285
20.9	6.296 75	35.42 88	13.701 94	57.85 155	42.097 69	59.17 46	8.894 243	38.43 265
30.9	6.221 113	36.30 71	13.607 132	59.40 127	42.028 109	58.71 36	8.497 397	40.79 236
2 9.8	6.108 145	37.01 53	13.475 164	60.67 94	41.919 143	58.35 27	7.961 536 646	42.77 198 153
19.8	5.963	37.54	13.311 188	61.61 60	41.776	58.08	7.315	44.30
3 1.8	5.794 169	37.89 35	13.123 201	62.21 27	41.609 167	57.90 18	6.587 728	45.33 103
11.8	5.611 183	38.07 18	12.922 204	62.48 7	41.427 182	57.79 11	5.813 774	45.81 48
21.7	5.425 186	38.05 2	12.718 199	62.41 41	41.241 186	57.77 2	5.028 785	45.75 6
31.7	5.246 179 164	37.86 19 37	12.519 182	62.00 73	41.062 179 163	57.84 7 15	4.269 759 700	45.15 60 111
4 10.7	5.082 138	37.49 55	12.337 156	61.27 105	40.899 138	57.99	3.569	44.04
20.7	4.944 106	36.94 73	12.181 126	60.22 134	40.761 105	58.24 25	2.959 610	42.49 155
30.6	4.838 69	36.21 91	12.055 87	53.88 162	40.656 67	58.59 35	2.462 497	40.57 192
5 10.6	4.769 27	35.30 108	11.938 46	57.26 185	40.589 25	59.05 46	2.099 363	38.34 223
20.6	4.742 15	34.22 123	11.922 2	55.41 206	40.564 19	59.64 69	1.883 63	35.90 244 257
30.5	4.757	32.99	11.920	53.35	40.583	60.33	1.820	33.33
6 9.5	4.814 57	31.64 135	11.951 41	51.12 223	40.645 62	61.14 81	1.913 93	30.72 261
19.5	4.913 99	30.18 146	12.045 84	48.79 233	40.748 103	62.04 90	2.158 245	28.14 258
29.5	5.049 136	28.65 153	12.169 124	46.41 238	40.890 142	63.02 98	2.548 390	25.67 247
7 9.4	5.220 171 201	27.09 156 154	12.329 160 193	44.03 238 229	41.067 177 207	64.05 103 106	3.072 524 644	23.38 229 206
19.4	5.421	25.55	12.522 221	41.74 215	41.274	65.11 103	3.716	21.32
29.4	5.647 226	24.08 147	12.743	39.59 193	41.506 232	66.14 98	4.465 749	19.54 178
8 8.4	5.894 247	22.72 136	12.987 244	37.66 165	41.759 253	67.12 88	5.305 840	18.07 147
18.3	6.155 261	21.53 119	13.248 261	36.01 131	42.027 268	68.00 76	6.214 909	16.96 111
28.3	6.428 273 280	20.55 98 73	13.523 275 283	34.70 91	42.306 279 286	68.76 59	7.178 964 1002	16.22 74 36
9 7.3	6.708 281	19.82	13.806 287	33.79 49	42.592 289	69.35	8.180 1021	15.86
17.2	6.989 281	19.37 45	14.093 286	33.30 5	42.881 288	69.76 41	9.201 1022	15.91 5
27.2	7.270 277	19.22 15	14.379 281	33.25 42	43.169 284	69.97 21	10.223 1008	16.35 44
10 7.2	7.547 268	19.37 15	14.660 272	33.67 84	43.453 276	69.97 0	11.231 972	17.19 84
17.2	7.815 255	19.81 44 71	14.932 257	34.51 126	43.729 265	69.77 20 38	12.203 920	18.43 124 160
27.1	8.070	20.52	15.189	35.77	43.994	69.39	13.123	20.03
11 6.1	8.310 240	21.46 94	15.428 239	37.38 161	44.243 249	68.85 54	13.971 848	22.00 197
16.1	8.528 218	22.59 113	15.642 214	39.28 190	44.471 228	68.19 66	14.725 754	24.27 227
26.1	8.719 191	23.85 126	15.827 185	41.39 211	44.673 202	67.45 74	15.367 642	26.82 255
12 6.0	8.880 161 125	25.18 133 134	15.978 151 113	43.63 224 227	44.845 172 135	66.68 77 77	15.878 511 363	29.59 277 291
16.0	9.005	26.52	16.091	45.90	44.980	65.91	16.241	32.50
25.9	9.089 84	27.83 131	16.161 70	48.14 224	45.075 95	65.17 74	16.444 203	35.47 297
35.9	9.131 42	29.06 123	16.186 25	50.26 212	45.125 50	64.50 67	16.478 34	38.41 294
平位	s 5.56	″ 23.04	s 12.884	″ 42.19	s 41.357	″ 69.52	s 5.339	″ 36.62
2回正中	12月14日		12月14日		12月15日		12月15日	
a b	+ 0.1529	− 0.0001	+ 0.1320	− 0.0028	+ 0.1643	+ 0.0014	+ 0.4005	+ 0.0302
a′ b′	+ 0.1345	− 0.9909	+ 0.1296	− 0.9916	+ 0.1232	− 0.9924	+ 0.1215	− 0.9926
FK3番號	206		207		208		205	

本初子午線正中時

星名	ι Orio		β Dora		ε Orio		γ Mens	
等級 スペクトル型	2.87	Oe5	3.81	F5p	1.75	B0	5.06	K0
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 5 32	° ′ − 5 53	h m 5 33	° ′ − 62 31	h m 5 33	° ′ − 1 14	h m 5 34	° ′ − 76 22
1 0.9	s 39.374	″ 55.36	s 10.254	″ 50.77	s 19.931	″ 22.51	s 13.580	″ 72.07
10.9	39.384 10	56.84 148	10.087 167	53.93 316	19.945 14	23.75 124	13.143 437	75.18 311
20.9	39.350 34	58.16 132	9.836 251	56.76 283	19.915 30	24.85 110	12.551 592	77.95 277
30.9	39.273 77	59.28 112	9.510 326	59.18 242	19.842 73	25.78 93	11.820 731	80.31 236
2 9.8	39.157 116	60.19 91	9.120 390	61.13 195	19.731 111	26.53 75	10.974 846	82.22 191
	147	68	441	145	144	56	935	139
19.8	39.010	60.87	8.679	62.58	19.587	27.09	10.039	83.61
3 1.8	38.839 171	61.32 45	8.202 477	63.48 90	19.419 168	27.47 38	9.041 998	84.47 86
11.8	38.653 186	61.54 22	7.705 497	63.83 35	19.236 183	27.65 18	8.009 1032	84.78 31
21.7	38.463 190	61.50 4	7.203 502	63.63 20	19.050 186	27.64 1	6.972 1037	84.56 22
31.7	38.279 184	61.25 24	6.713 490	62.90 73	18.868 182	27.45 19	5.953 1016	83.80 76
	168	48	463	125	165	39	967	126
4 10.7	38.111	60.78	6.250	61.65	18.703	27.06	4.989	82.54
20.7	37.968 143	60.07 71	5.827 423	59.92 173	18.563 140	26.49 57	4.094 895	80.80 174
30.6	37.856 112	59.14 93	5.458 369	57.74 218	18.453 110	25.73 76	3.294 800	78.62 218
5 10.6	37.780 76	58.00 114	5.151 307	55.17 257	18.381 72	24.79 94	2.606 688	76.06 256
20.6	37.746 34	56.67 133	4.916 235	52.27 290	18.350 31	23.69 110	2.050 556	73.18 288
	7	150	158	317	10	126	414	315
30.5	37.753	55.17	4.753	49.10	18.360	22.43	1.636	70.03
6 9.5	37.803 50	53.53 164	4.682 76	45.73 337	18.414 54	21.03 140	1.376 260	66.69 334
19.5	37.894 91	51.78 175	4.688 6	42.25 348	18.508 94	19.54 149	1.273 103	63.24 345
29.5	38.024 130	49.97 181	4.777 89	38.75 350	18.640 132	17.97 157	1.331 58	59.78 346
7 9.4	38.188 164	48.14 183	4.945 168	35.31 344	18.806 166	16.38 159	1.548 217	53.39 339
	194	179	243	326	197	157	369	323
19.4	38.382	46.35	5.188	32.05	19.003	14.81	1.917	53.16
29.4	38.603 221	44.65 170	5.500 312	29.04 301	19.226 223	13.31 150	2.429 512	50.19 297
8 8.4	38.845 242	43.10 155	5.873 373	26.39 265	19.469 243	11.93 138	3.039 640	47.58 261
18.3	39.103 258	41.75 135	6.297 424	24.17 222	19.728 259	10.72 121	3.819 750	45.40 218
28.3	39.373 270	40.66 109	6.761 464	22.47 170	19.999 271	9.73 99	4.658 839	43.73 167
	278	79	494	112	279	74	903	109
9 7.3	39.651	39.87	7.255	21.35	20.278	8.99	5.561	42.64
17.2	39.932 281	39.40 47	7.763 508	20.85 50	20.559 281	8.54 45	6.500 939	42.16 48
27.2	40.212 280	39.28 12	8.273 510	21.00 15	20.840 281	8.40 14	7.445 945	42.33 17
10 7.2	40.489 277	39.52 24	8.772 499	21.81 81	21.117 277	8.57 17	8.366 921	43.14 81
17.2	40.757 268	40.10 58	9.244 472	23.24 143	21.387 270	9.03 46	9.232 866	44.57 143
	256	89	433	201	257	75	781	200
27.1	41.013	40.99	9.677	25.25	21.644	9.78	10.013	46.57
11 6.1	41.253 240	42.17 118	10.057 380	27.78 253	21.886 242	10.77 99	10.681 668	49.08 251
16.1	41.470 217	43.56 139	10.372 315	30.72 294	22.107 221	11.94 117	11.213 532	52.00 292
26.1	41.662 192	45.11 155	10.613 241	33.98 326	22.301 194	13.26 132	11.588 375	55.23 323
12 6.0	41.822 160	46.76 165	10.771 158	37.43 345	22.465 164	14.65 139	11.792 204	58.64 341
	124	167	70	351	128	141	25	347
16.0	41.946	48.43	10.841	40.94	22.593	16.06	11.817	62.11
25.9	42.029 83	50.07 164	10.820 21	44.41 347	22.681 88	17.44 138	11.662 155	65.53 342
35.9	42.069 40	51.61 154	10.708 112	47.71 330	22.726 45	18.73 129	11.329 333	68.78 325
平 位	s 38.592	″ 44.71	s 7.631	″ 36.57	s 19.168	″ 12.32	s 7.830	″ 57.80
2 回正中	12 月 15 日		12 月 15 日		12 月 15 日		12 月 15 日	
a b	+ 0.1464	− 0.0008	+ 0.0260	− 0.0150	+ 0.1519	− 0.0002	− 0.1201	− 0.0310
a′ b′	+ 0.1191	− 0.9929	+ 0.1170	− 0.9931	+ 0.1162	− 0.9932	+ 0.1126	− 0.9936
FK3 番號	209		212		210		214	

本初子午線正中時

星名	ζ Taur		† σ Orio m		α Colm		o Auri	
等級 スペクトル型	3.00	B3p	3.78	B0	2.75	B5p	5.52	A0
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 5 34	° ′ + 21 6	h m 5 35	° ′ − 2 37	h m 5 37	° ′ − 34 5	h m 5 41	° ′ + 49 47
1 0.9	s 14.949	″ 26.43	s 53.740	″ 63.37	s 36.165	″ 84.70	s 30.160	″ 67.43
10.9	14.975 26	26.46 3	53.756 16	64.69 132	36.138 27	87.39 269	30.191 31	69.12 169
20.9	14.953 22	26.52 6	53.727 29	65.86 117	36.060 78	89.82 243	30.152 39	70.73 161
30.9	14.884 69	26.61 9	53.655 72	66.85 99	35.935 125	91.90 208	30.045 107	72.19 146
2 9.9	14.772 112	26.70 9	53.544 111	67.66 81	35.767 168	93.61 171	29.876 169	73.44 125
	147	7	143	61	203	129	220	99
19.8	14.625	26.77	53.401	68.27	35.564	94.90	29.656	74.43
3 1.8	14.451 174	26.82 5	53.233 168	68.67 40	35.335 229	95.74 84	29.397 259	75.12 69
11.8	14.261 190	26.83 1	53.050 183	68.87 20	35.090 245	96.13 39	29.114 283	75.48 36
21.7	14.066 195	26.79 4	52.862 188	68.86 1	34.840 250	96.07 6	28.823 291	75.50 2
31.7	13.876 190	26.71 8	52.680 182	68.66 20	34.597 243	95.53 51	28.539 284	75.19 31
	171	10	167	41	228	93	261	63
4 10.7	13.705	26.61	52.513	68.25	34.369	94.63	28.278	74.56
20.7	13.560 145	26.50 11	52.370 143	67.64 61	34.168 201	93.27 136	28.053 225	73.66 90
30.6	13.450 110	26.39 11	52.259 111	66.84 80	34.000 168	91.54 173	27.876 177	72.53 113
5 10.6	13.380 70	26.32 7	52.184 75	65.85 99	33.871 129	89.47 207	27.754 122	71.23 130
20.6	13.355 25	26.30 2	52.149 35	64.68 117	33.788 83	87.09 238	27.695 59	69.80 143
	20	5	8	132	37	262	4	148
30.6	13.375	26.35	52.157	63.36	33.751	84.47	27.699	68.32
6 9.5	13.441 66	26.48 13	52.206 49	61.90 146	33.763 12	81.65 282	27.768 69	66.83 149
19.5	13.552 111	26.69 21	52.297 91	60.33 157	33.823 60	78.71 294	27.900 132	65.37 146
29.5	13.702 150	26.98 29	52.425 129	58.70 163	33.929 106	75.73 298	28.090 190	64.01 136
7 9.4	13.890 188	27.36 38	52.589 163	57.05 165	34.078 149	72.78 295	28.334 244	62.76 125
	220	43	194	164	188	284	292	109
19.4	14.110	27.79	52.783	55.41	34.266	69.94	28.626	61.67
29.4	14.353 246	28.27 48	53.003 220	53.86 155	34.489 223	67.30 264	28.958 332	60.75 92
8 8.4	14.624 268	28.76 49	53.244 241	52.43 143	34.742 253	64.94 236	29.324 366	60.02 73
18.3	14.908 284	29.26 50	53.502 258	51.19 124	35.018 276	62.94 200	29.716 392	59.48 54
28.3	15.204 296	29.72 46	53.771 269	50.17 102	35.313 295	61.37 157	30.128 412	59.14 34
	304	40	277	76	308	109	426	13
9 7.3	15.508	30.12	54.048	49.41	35.621	60.28	30.554	59.01
17.3	15.814 306	30.46 34	54.329 281	48.96 45	35.936 315	59.73 55	30.986 432	59.08 7
27.2	16.121 307	30.72 26	54.610 281	48.83 13	36.251 315	59.73 0	31.421 435	59.35 27
10 7.2	16.424 303	30.88 16	54.888 278	49.02 19	36.532 311	60.30 57	31.853 432	59.82 47
17.2	16.718 294	30.96 8	55.158 270	49.52 50	36.861 299	61.41 111	32.273 420	60.49 67
	284	1	258	80	283	162	406	86
27.1	17.002	30.97 6	55.416	50.32	37.144	63.03	32.679	61.35
11 6.1	17.270 268	30.91 6	55.659 243	51.36 104	37.404 260	65.10 207	33.061 382	62.40 105
16.1	17.516 246	30.83 8	55.881 222	52.61 125	37.634 230	67.54 244	33.411 350	63.63 123
26.1	17.736 220	30.73 10	56.077 196	54.01 140	37.829 195	70.26 272	33.723 312	65.03 140
12 6.0	17.923 187	30.65 8	56.242 165	55.48 147	37.983 154	73.15 289	33.987 264	66.58 155
	149	6	130	150	108	296	208	165
16.0	18.072	30.59	56.372	56.98	38.091	76.11	34.195	68.23
25.9	18.178 106	30.58 1	56.461 89	58.44 146	38.150 59	79.04 293	34.340 145	69.95 172
35.9	18.237 59	30.60 2	56.507 46	59.81 137	38.157 7	81.84 280	34.418 78	71.69 174
平 位	s 14.162	″ 34.45	s 52.938	″ 53.08	s 35.001	″ 72.05	s 28.892	″ 73.27
2 回正中	12 月 15 日		12 月 16 日		12 月 16 日		12 月 17 日	
a b	+ 0.1789	+ 0.0029	+ 0.1503	− 0.0003	+ 0.1084	− 0.0044	+ 0.2320	+ 0.0064
a′ b′	+ 0.1122	− 0.9937	+ 0.1050	− 0.9945	+ 0.0977	− 0.9952	+ 0.0807	− 0.9967
FK3 番號	211		213		215		216	

星名	γ Leps		130 Taur		ζ Leps		χ Orio	
等級 スペクトル型	3.80	F8	5.51	F0	3.67	A2	2.20	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 42	° ′ −22 27	h m 5 44	° ′ +17 42	h m 5 44	° ′ −14 50	h m 5 45	° ′ −9 41
	s	″	s	″	s	″	s	″
1 0.9	6.121	68.24	7.440	25.63	23.149	41.82	3.937	29.11
10.9	6.118 3	70.54 230	7.475 35	25.45 18	23.161 12	43.78 196	3.955 18	30.83 172
20.9	6.068 50	72.60 206	7.452 13	25.33 12	23.126 35	45.55 177	3.927 28	32.37 154
30.9	5.973 95	74.39 179	7.402 50	25.26 7	23.047 79	47.07 152	3.855 72	33.69 132
2 9.9	5.837 136	75.84 145	7.299 103	25.23 3	22.928 119	48.32 125	3.743 112	34.77 108
	168	112	140	0	153	95	146	83
19.8	5.669	76.96	7.159	25.23	22.775	49.27	3.597	35.60
3 1.8	5.474 195	77.70 74	6.992 167	25.24 1	22.598 177	49.91 64	3.426 171	36.15 55
11.8	5.265 209	78.07 37	6.807 185	25.24 0	22.403 195	50.24 33	3.239 187	36.44 29
21.7	5.049 216	78.08 1	6.616 191	25.24 0	22.203 200	50.26 2	3.045 194	36.46 2
31.7	4.839 210	77.68 38	6.428 188	25.24 0	22.007 196	49.96 30	2.853 189	36.21 25
	195	74	171		182	60	176	52
4 10.7	4.644	76.94	6.257	25.24	21.825	49.36	2.680	35.69
20.7	4.472 172	75.85 109	6.110 147	25.25 1	21.665 160	48.46 90	2.527 153	34.92 77
30.6	4.332 140	74.44 141	5.995 115	25.30 5	21.536 129	47.29 117	2.404 123	33.91 101
5 10.6	4.228 104	72.74 170	5.919 76	25.39 9	21.443 93	45.85 144	2.316 88	32.67 124
20.6	4.166 62	70.77 197	5.886 33	25.55 16	21.389 54	44.18 167	2.269 47	31.22 145
	19	220	10	23	11	187	7	164
30.6	4.147	68.57	5.896	25.78	21.378	42.31	2.262	29.53
6 9.5	4.173 26	66.21 236	5.951 55	26.09 31	21.409 31	40.28 203	2.298 36	27.79 179
19.5	4.242 69	63.72 249	6.050 99	26.48 39	21.482 73	38.12 216	2.374 76	25.89 190
29.5	4.352 110	61.18 254	6.188 138	26.94 46	21.594 112	35.91 221	2.490 116	23.92 197
7 9.4	4.500 148	58.65 253	6.363 175	27.46 52	21.743 149	33.69 222	2.641 151	21.94 198
	183	245	206	57	181	216	182	194
19.4	4.683	53.20	6.569	28.03	21.924	31.53	2.823	20.00
29.4	4.896 213	53.91 229	6.802 233	28.62 59	22.134 210	29.49 204	3.034 211	18.17 183
8 8.4	5.134 238	51.85 206	7.058 256	29.20 58	22.368 234	27.64 185	3.257 233	16.50 167
18.3	5.393 259	50.09 176	7.331 273	29.75 55	22.620 252	26.05 159	3.518 251	15.05 145
28.3	5.665 273	48.69 140	7.617 286	30.24 49	22.887 267	24.76 129	3.783 265	13.88 117
	286	98	295	40	278	92	275	85
9 7.3	5.952	47.71	7.912	30.64	23.165	23.84	4.053	13.03
17.3	6.242 290	47.18 53	8.211 299	30.94 30	23.447 282	23.32 52	4.338 280	12.53 50
27.2	6.533 291	47.14 4	8.512 301	31.12 18	23.732 285	23.23 9	4.620 282	12.43 10
10 7.2	6.822 289	47.59 45	8.810 298	31.18 6	24.014 282	23.57 34	4.900 280	12.70 27
17.2	7.101 279	48.52 93	9.103 293	31.11 7	24.289 275	24.32 75	5.174 274	13.36 66
	267	136	282	17	263	115	262	101
27.1	7.368	49.88	9.385	30.94	24.552	25.47	5.436	14.37
11 6.1	7.616 248	51.64 176	9.654 269	30.69 25	24.800 248	25.95 149	5.683 247	15.68 131
16.1	7.839 223	53.72 208	9.902 248	30.38 31	25.025 225	28.74 178	5.910 227	17.25 157
26.1	8.033 194	53.04 232	10.126 224	30.05 33	25.224 199	30.73 199	6.110 200	19.01 176
12 6.0	8.192 159	53.51 247	10.318 192	29.71 34	25.390 165	32.85 212	6.280 170	20.88 187
	120	253	155	30	129	216	133	191
16.0	8.312	61.04	10.473	29.41	25.519	35.01	6.413	22.79
25.9	8.387 75	63.54 250	10.537 114	29.16 25	25.606 87	37.15 214	6.505 92	24.66 187
35.9	8.416 29	65.92 238	10.654 67	28.96 20	25.648 42	39.19 204	6.553 48	26.44 178
平位	s 5.161	″ 55.49	s 6.664	″ 34.12	s 22.276	″ 30.77	s 3.108	″ 18.45
2回正中	12月17日		12月18日		12月18日		12月18日	
a b	+0.1258	−0.0022	+0.1746	+0.0015	+0.1357	−0.0012	+0.1420	−0.0007
a′ b′	+0.0781	−0.9970	+0.0393	−0.9976	+0.0381	−0.9977	+0.0652	−0.9979
FK3番號	217		218		219		220	

星名	ν Auri		δ Leps		β Colm		α Orio	
等級 スペクトル型	4.18	K0	3.90	K0	3.22	K0	0.1—1.2	M0
世界時	赤経	赤緯	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	h m 5 52	° ′ +7 23
	s	″	s	″	s	″	s	″
1 0.9	33.223	55.05	53.103	68.65	53.158	31.09	5.849	43.87
10.9	33.266 43	53.15 110	53.112 9	70.92 227	53.140 18	33.89 280	5.887 38	43.06 81
20.9	33.249 17	57.22 107	53.073 39	72.97 205	58.069 71	36.43 254	5.878 9	42.37 69
30.9	33.174 75	53.21 99	52.988 85	74.76 179	57.947 122	38.64 221	5.824 54	41.80 57
2 9.9	33.046 128	59.09 88	52.862 126	76.24 148	57.781 166	40.47 183	5.727 97	41.35 45
	172	71	160	114	203	140	132	33
19.8	32.874	59.80	52.702	77.38	57.578	41.87	5.595	41.02
3 1.8	32.668 206	60.31 51	52.515 187	78.17 79	57.347 231	42.84 97	5.435 160	40.81 21
11.8	32.439 229	60.60 29	52.311 204	78.59 42	57.097 250	43.34 50	5.258 177	40.70 11
21.8	32.201 238	60.65 5	52.100 211	78.65 6	56.840 257	43.38 4	5.072 186	40.70 0
31.7	31.969 232	60.48 17	51.893 207	78.36 29	56.588 252	42.97 41	4.889 183	40.80 10
	215	38	193	65	237	86	169	20
4 10.7	31.754	60.10	51.700	77.71	56.351	42.11	4.720	41.00
20.7	31.539 185	59.52 58	51.529 171	76.72 99	56.136 215	40.82 129	4.573 147	41.31 31
30.6	31.422 147	53.80 72	51.387 142	75.42 130	55.954 182	39.15 167	4.456 117	41.74 43
5 10.6	31.323 99	57.96 84	51.281 106	73.82 160	55.811 143	37.11 204	4.374 82	42.28 54
20.6	31.275 48	57.06 90	51.216 65	71.96 186	55.713 98	34.75 236	4.333 41	42.94 66
	5	93	23	209	52	262	0	77
30.6	31.280 60	53.13	51.193	69.87	55.661	32.13	4.333	43.71
6 9.5	31.340 112	55.21 92	51.214 21	67.61 226	55.658 3	29.31 282	4.375 42	44.58 87
19.5	31.452 161	54.33 88	51.277 63	65.22 239	55.703 45	26.34 297	4.459 84	45.55 97
29.5	31.613 206	53.53 80	51.381 104	62.77 245	55.795 92	23.32 302	4.581 122	46.59 104
7 9.5	31.819 246	52.82 71	51.524 143	60.31 246	55.931 136	20.31 301	4.738 157	47.66 107
		59	176	238	177	290	188	109
19.4	32.065	52.23	51.700	57.93	56.108	17.41	4.926	48.75
29.4	32.344 279	51.75 48	51.907 207	55.69 224	56.322 214	14.69 272	5.142 216	49.80 105
8 8.4	32.651 307	51.39 36	52.139 232	53.66 203	56.558 246	12.24 245	5.380 238	50.79 99
18.3	32.980 329	51.15 24	52.393 254	51.92 174	56.839 271	10.14 210	5.635 255	51.67 88
28.3	33.326 346	51.03 12	52.662 269	50.52 140	57.132 293	8.46 168	5.904 269	52.40 73
	359	2	282	99	308	118	279	56
9 7.3	33.685	51.01	52.944	49.53	57.440	7.28	6.183	52.96
17.3	34.049 364	51.09 8	53.232 288	48.98 55	57.758 318	6.63 65	6.468 285	53.31 35
27.2	34.416 367	51.28 19	53.523 291	48.90 8	58.078 320	6.54 9	6.755 287	53.43 12
10 7.2	34.782 366	51.55 28	53.812 289	49.30 40	58.397 319	7.03 49	7.042 287	53.33 10
17.2	35.140 358	51.93 37	54.094 282	50.16 86	58.706 309	8.08 105	7.323 281	53.01 32
	346	48	270	131	294	157	273	52
27.2	35.486	52.41	54.364	51.47	59.000	9.65	7.596	52.49
11 6.1	35.815 329	53.00 59	54.618 254	53.16 169	59.272 272	11.70 205	7.856 260	51.79 70
16.1	36.121 306	53.70 70	54.849 231	55.17 201	59.515 243	14.13 243	8.098 242	50.96 83
26.1	36.395 274	54.51 81	55.051 202	57.43 226	59.723 208	16.87 274	8.316 218	50.03 93
12 6.0	36.631 236	55.42 91	55.220 169	59.84 241	59.890 167	19.81 294	8.504 188	49.07 96
	190	101	130	248	120	302	153	96
16.0	36.821	53.43	55.350	62.32	60.010	22.83	8.657	48.11
25.9	36.960 139	57.50 107	55.436 86	64.78 246	60.080 70	25.84 301	8.770 113	47.19 92
35.9	37.042 82	53.62 112	55.476 40	67.13 235	60.097 17	28.74 290	8.839 69	46.35 84
平位	s 32.229	″ 61.96	s 52.148	″ 57.39	s 53.914	″ 19.07	s 5.083	″ 53.19
2回正中	12月19日		12月19日		12月19日		12月20日	
a b	+0.2075	+0.0029	+0.1279	−0.0012	+0.1053	−0.0023	+0.1620	+0.0003
a′ b′	+0.0544	−0.9985	+0.0486	−0.9988	+0.0482	−0.9988	+0.0345	−0.9994
FK3番號	221		222		223		224	

星名		η Leps		δ Auri		β Auri		†ϑ Auri	
等級	スペクトル型	3.77	F0	3.88	K0	2.07	A0p	2.71	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 5 53	° ′ ″ −14 10	h m s 5 54	° ′ ″ +54 16	h m s 5 55	° ′ ″ +44 56	h m s 5 55	° ′ ″ +37 12
1	0.9	49.325	43.97	51.364	51.75	21.890	31.07	50.939	30.81
	10.9	49.346 21	48.93 196	51.413 49	53.69 194	21.942 52	32.50 143	50.991 52	31.79 98
	20.9	49.321 25	50.71 178	51.383 30	55.55 185	21.928 14	33.90 140	50.985 6	32.76 97
	30.9	49.250 71	52.24 153	51.278 105	57.28 173	21.851 77	35.20 130	50.922 63	33.69 93
2	9.9	49.138 112	53.51 127	51.102 176	58.79 151	21.715 136	36.35 115	50.807 115	34.52 83
		147	99	235	124	186	95	162	70
	19.8	48.991	54.50	50.857	60.03	21.529	37.30	50.645	35.22
3	1.8	48.817 174	55.17 67	50.583 281	60.94 91	21.304 225	38.01 71	50.449 196	35.74 52
	11.8	48.625 192	55.54 37	50.275 311	61.49 55	21.053 251	38.44 43	50.229 220	36.07 33
	21.8	48.426 199	55.60 6	49.951 324	61.66 17	20.790 263	38.59 15	49.999 230	36.18 11
	31.7	48.229 197	55.35 25	49.631 320	61.45 21	20.532 258	38.45 14	49.772 227	36.09 9
		183	54	299	57	241	42	211	29
4	10.7	48.046	54.81	49.332	60.88	20.291	38.03	49.531	35.80
	20.7	47.883 163	53.97 84	49.070 262	59.99 89	20.080 211	37.36 67	49.377 184	35.33 47
	30.6	47.749 134	52.86 111	48.856 214	58.82 117	19.910 170	36.49 87	49.230 147	34.71 62
5	10.6	47.650 99	51.49 137	48.700 156	57.42 140	19.789 121	35.46 103	49.126 104	33.99 72
	20.6	47.590 60	49.88 161	48.611 89	55.85 157	19.724 65	34.30 116	49.073 53	33.20 79
		19	180	21	167	8	122	3	83
	30.6	47.571	48.08	48.590	54.18	19.716	33.08	49.070	32.37
6	9.5	47.595 24	46.10 198	48.640 50	52.46 172	19.766 50	31.85 123	49.120 50	31.55 82
	19.5	47.659 64	44.00 210	48.759 119	50.75 171	19.874 108	30.63 122	49.222 102	30.77 78
	29.5	47.763 104	41.84 216	48.942 183	49.10 165	20.036 162	29.48 115	49.371 149	30.05 72
7	9.5	47.904 141	39.66 218	49.187 245	47.55 155	20.247 211	28.41 107	49.534 193	29.41 64
		173	212	298	141	256	94	232	55
	19.4	48.077	37.54	49.485	46.14	20.503	27.47	49.793	28.86
	29.4	48.279 202	35.53 201	49.830 345	44.90 124	20.797 294	26.65 82	50.061 265	28.41 45
8	8.4	48.506 227	33.69 184	50.215 386	43.86 104	21.123 326	25.98 67	50.353 295	28.06 35
	18.3	48.753 247	32.10 159	50.633 417	43.02 84	21.474 351	25.46 52	50.672 316	27.81 25
	28.3	49.015 262	30.82 128	51.076 443	42.41 61	21.846 372	25.09 37	51.006 334	27.65 16
		274	93	462	39	386	22	346	7
9	7.3	49.289	29.89	51.538	42.02	22.232	24.87	51.352	27.53
	17.3	49.570 281	29.34 55	52.010 472	41.87 15	22.628 396	24.81 6	51.707 355	27.60 2
	27.2	49.854 284	29.22 12	52.489 479	41.95 9	23.028 400	24.90 9	52.065 358	27.69 9
10	7.2	50.138 284	29.53 31	52.937 478	42.29 33	23.427 399	25.15 25	52.424 359	27.86 17
	17.2	50.416 278	30.25 72	53.436 469	42.87 58	23.820 393	25.53 41	52.777 353	28.11 25
		268	111	455	81	382	56	343	33
	27.2	50.684	31.36	53.891	43.68	24.202	23.12	53.120	28.44
11	6.1	50.937 253	32.82 146	54.322 431	44.74 106	24.566 364	23.85 73	53.448 328	28.88 44
	16.1	51.169 232	34.57 175	54.721 399	46.02 128	24.904 338	27.73 88	53.753 305	29.41 53
	26.1	51.376 207	36.53 196	55.078 357	47.51 149	25.209 305	28.78 105	54.030 277	30.06 65
12	6.0	51.552 176	38.62 209	55.384 306	49.19 168	25.472 263	29.97 119	54.270 240	30.81 75
		138	216	245	183	214	131	197	85
	16.0	51.690	40.78	55.629	51.02	25.686	31.28	54.467	31.66
	25.9	51.787 97	42.91 213	55.805 176	52.95 193	25.844 158	32.68 140	54.614 147	32.59 93
	35.9	51.838 51	44.94 203	55.906 101	54.92 197	25.939 95	34.13 145	54.705 91	33.58 99
平位		48.441	36.30	49.937	53.04	20.777	37.94	49.932	38.18
2回正中		12月20日		12月21日		12月21日		12月21日	
a	b	+0.1365	−0.0005	+0.2460	+0.0021	+0.2198	+0.0014	+0.2039	+0.0009
a′	b′	+0.0270	−0.9996	+0.0223	−0.9997	+0.0203	−0.9998	+0.0182	−0.9998
FK3番號		226		225		227		228	

星名		η Colm		66 Orio		1 G. Pupp		ν Orio	
等級	スペクトル型	4.03	K0	5.70	K0	6.22	F8	4.40	B2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m s 5 57	° ′ ″ −42 48	h m s 6 1	° ′ ″ +4 9	h m s 6 2	° ′ ″ −45 1	h m s 6 4	° ′ ″ +14 46
1	0.9	25.514	74.48	58.347	39.03	51.485	78.81	19.748	28.25
	10.9	25.487 27	77.53 305	58.386 39	38.01 102	51.459 26	81.94 313	19.801 53	27.86 39
	20.9	25.402 85	80.32 279	58.384 2	37.12 89	51.372 87	84.81 287	19.806 5	27.57 29
	30.9	25.263 139	82.77 245	58.336 48	36.38 74	51.228 144	87.35 254	19.763 43	27.35 22
2	9.9	25.073 190	84.83 206	58.245 91	35.78 60	51.031 197	89.48 213	19.675 88	27.22 13
		230	161	127	44	239	170	127	7
	19.8	24.843	86.44	58.118	35.34	50.792	91.18	19.548	27.15
3	1.8	24.582 261	87.58 114	57.932 156	35.05 29	50.520 272	92.39 121	19.392 156	27.13 2
	11.8	24.299 283	88.23 65	57.786 146	34.89 16	50.225 295	93.12 73	19.214 178	27.15 2
	21.8	24.007 292	88.38 15	57.601 185	34.88 1	49.919 306	93.33 21	19.026 188	27.20 5
	31.7	23.718 289	88.04 34	57.418 183	35.00 12	49.616 303	93.05 28	18.839 187	27.28 8
		274	81	172	25	290	78	175	10
4	10.7	23.444	87.23	57.246	35.25	49.326	92.27	18.664	27.38
	20.7	23.193 251	85.95 128	57.095 151	35.65 40	49.059 267	91.03 124	18.510 154	27.52 14
	30.6	22.975 218	84.25 170	56.971 124	36.17 52	48.825 234	89.34 169	18.385 125	27.70 18
5	10.6	22.797 178	82.15 210	56.883 88	36.83 66	48.632 193	87.26 208	18.296 89	27.93 23
	20.6	22.666 131	79.71 244	56.832 51	37.62 79	48.486 146	84.82 244	18.246 50	28.23 30
		82	273	10	92	97	275	8	37
	30.6	22.534	76.98	56.822	38.54	48.389	82.07	18.238	28.60
6	9.5	22.555 29	74.03 295	56.854 32	39.57 103	48.347 42	79.09 298	18.274 36	29.04 44
	19.5	22.576 23	70.92 311	56.926 72	40.69 112	48.358 11	75.95 314	18.351 77	29.55 51
	29.5	22.653 75	67.73 319	57.036 110	41.88 119	48.422 64	72.72 323	18.468 117	30.12 57
7	9.5	22.777 124	64.56 317	57.182 146	43.10 122	48.539 117	69.49 323	18.621 153	30.74 62
		171	308	178	122	165	314	186	64
	19.4	22.948	61.48	57.360	44.32	48.704	66.35	18.807	31.38
	29.4	23.161 213	58.59 289	57.565 205	45.50 118	48.913 209	63.40 295	19.021 214	32.02 64
8	8.4	23.411 250	55.98 261	57.793 228	46.59 109	49.162 249	60.72 268	19.259 238	32.63 61
	18.3	23.693 282	53.73 225	58.040 247	47.56 97	49.446 284	58.40 232	19.516 257	33.18 55
	28.3	24.000 307	51.93 180	58.301 261	48.35 79	49.758 312	56.52 188	19.788 272	33.64 46
		328	130	274	59	334	136	284	35
9	7.3	24.328	50.63	58.575	48.94	50.092	55.16	20.072	33.99
	17.3	24.669 341	49.90 73	58.855 280	49.30 36	50.440 348	54.36 80	20.363 291	34.21 22
	27.2	25.015 346	49.76 14	59.140 285	49.39 9	50.796 356	54.16 20	20.659 296	34.27 6
10	7.2	25.361 346	50.23 47	59.425 285	49.23 16	51.153 357	54.58 42	20.955 297	34.18 9
	17.2	25.697 336	51.29 106	59.707 282	48.82 41	51.501 348	55.61 103	21.250 294	33.94 24
		321	163	275	65	332	161	288	37
	27.2	26.018	52.92	59.982	48.17	51.833	57.22	21.538	33.57
11	6.1	26.314 296	55.07 215	60.244 262	47.32 85	52.141 308	59.35 213	21.814 276	33.10 47
	16.1	26.578 264	57.63 256	60.490 246	46.31 101	52.416 275	61.93 258	22.074 260	32.55 55
	26.1	26.803 225	60.54 291	60.713 223	45.19 112	52.651 235	64.85 292	22.310 236	31.96 59
12	6.0	26.982 179	63.67 313	60.907 194	44.01 118	52.838 187	68.02 317	22.517 207	31.36 60
		127	325	160	118	133	330	173	56
	16.0	27.109	66.92	61.067	42.83	52.971	71.32	22.690	30.80
	25.9	27.179 70	70.17 325	61.187 120	41.68 115	53.045 74	74.63 331	22.821 131	30.30 50
	35.9	27.191 12	73.31 314	61.263 76	40.62 106	53.059 14	77.85 322	22.907 86	29.88 42
平位		24.020	62.80	57.532	48.49	49.884	67.49	18.972	37.14
2回正中		12月21日		12月22日		12月22日		12月23日	
a	b	+0.0916	−0.0007	+0.1582	0.0000	+0.0866	+0.0008	+0.1709	−0.0003
a′	b′	+0.0113	−0.9999	−0.0086	−1.0000	−0.0124	−0.9999	−0.0188	−0.9998
FK3番號		229		230		231		232	

星名	36 Caml		δ Pict		† η Gemi		α Mens	
等級	5.39		4.84		3.2—4.2		5.14	
スペクトル型	K0		B1		M0		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 6 7	° ′ +65 43	h m 6 9	° ′ −54 57	h m 6 11	° ′ +22 31	h m 6 11	° ′ −74 43
1 0.9	s 9.194	″ 51.74	s 13.366	″ 29.58	s 26.958	″ 21.94	s 62.042	″ 74.56
10.9	9.261 67	54.26 252	13.312 54	32.92 334	27.023 65	22.02 8	61.785 257	77.95 339
20.9	9.216 45	56.69 243	13.185 127	36.01 309	27.036 13	22.16 14	61.376 409	81.11 316
30.9	9.064 152	58.96 227	12.988 197	38.76 275	26.999 37	22.36 20	60.829 547	83.92 281
2 9.9	8.812 252	60.97 201	12.730 258	41.11 235	26.913 86	22.59 23	60.160 669	86.34 242
	337	168	310	188	127	23	767	195
19.8	8.475	62.65	12.420	42.99	26.786	22.82	59.393	88.29
3 1.8	8.071 404	63.94 129	12.071 349	44.38 139	26.626 160	23.04 22	58.550 843	89.73 144
11.8	7.621 450	64.77 83	11.694 377	45.24 86	26.442 184	23.22 18	57.656 894	90.66 93
21.8	7.147 474	65.14 37	11.304 390	45.57 33	26.247 195	23.35 13	56.736 920	91.04 38
31.7	6.674 473	65.03 11	10.915 389	45.37 20	26.052 195	23.42 7	55.817 919	90.89 15
	448	57	376	72	185	2	896	68
4 10.7	6.226	64.46	10.539	44.65	25.867	23.44	54.921	90.21
20.7	5.822 404	63.46 100	10.188 351	43.42 123	25.704 163	23.41 3	54.073 848	89.02 119
30.7	5.480 342	62.09 137	9.875 313	41.73 169	25.570 134	23.36 5	53.294 779	87.35 167
5 10.6	5.216 264	60.39 170	9.607 268	39.61 212	25.472 98	23.29 7	52.601 693	85.25 210
20.6	5.039 177	58.45 194	9.393 214	37.10 251	25.416 56	23.23 6	52.013 588	82.75 250
	84	212	155	283	13	4	470	283
30.6	4.955	56.33	9.238	34.27	25.403	23.19	51.543	79.92
6 9.5	4.969 14	54.10 223	9.145 93	31.18 309	25.435 32	23.19 0	51.201 342	76.82 310
19.5	5.079 110	51.84 226	9.118 27	27.90 328	25.510 75	23.23 4	50.996 205	73.53 329
29.5	5.282 203	49.61 223	9.156 38	24.53 337	25.626 116	23.32 9	50.932 64	70.14 339
7 9.5	5.572 290	47.46 215	9.258 102	21.15 338	25.781 155	23.47 15	51.010 78	66.73 341
	369	200	164	330	189	18	219	333
19.4	5.941	45.46	9.422	17.85	25.970	23.65	51.229	63.40
29.4	6.382 441	43.64 182	9.643 221	14.74 311	26.189 219	23.85 20	51.582 353	60.25 315
8 8.4	6.885 503	42.05 159	9.917 274	11.90 284	26.434 245	24.06 21	52.062 480	57.37 288
18.4	7.439 554	40.72 133	10.236 319	9.43 247	26.699 265	24.27 21	52.653 591	54.86 251
28.3	8.035 596	39.67 105	10.594 358	7.41 202	26.981 282	24.44 17	53.340 687	52.80 206
	629	75	389	149	296	13	766	152
9 7.3	8.664	38.92	10.983	5.92	27.277	24.57	54.106	51.28
17.3	9.314 650	38.49 43	11.393 410	5.03 89	27.580 303	24.63 6	54.925 819	50.34 94
27.2	9.977 663	38.38 11	11.815 422	4.76 27	27.891 311	24.62 1	55.774 849	50.04 30
10 7.2	10.644 667	38.62 24	12.239 424	5.13 37	28.203 312	24.54 8	56.626 852	50.39 35
17.2	11.301 657	39.19 57	12.653 414	6.15 102	28.513 310	24.39 15	57.452 826	51.39 100
	638	92	394	163	305	21	775	163
27.2	11.939	40.11	13.047	7.78	28.818	24.18	58.227	53.02
11 6.1	12.545 606	41.36 125	13.410 363	9.97 219	29.112 294	23.95 23	58.921 694	55.21 219
16.1	13.105 560	42.93 157	13.732 322	12.64 267	29.390 278	23.70 25	59.511 590	57.88 267
26.1	13.607 502	44.79 186	14.001 269	15.69 305	29.644 254	23.47 23	59.975 464	60.95 307
12 6.1	14.036 429	46.91 212	14.210 209	19.02 333	29.869 225	23.29 18	60.296 321	64.31 336
	342	233	141	347	189	11	165	352
16.0	14.378	49.24	14.351	22.49	30.053	23.18	60.461	67.83
26.0	14.623 245	51.71 247	14.420 69	26.00 351	30.204 146	23.14 4	60.464 3	71.39 356
35.9	14.763 140	54.24 253	14.414 6	29.43 343	30.303 99	23.18 4	60.304 160	74.87 348
平位	s 7.030	″ 58.23	s 11.190	″ 18.68	s 26.155	″ 30.54	s 56.471	″ 63.90
2回正中	12月24日		12月24日		12月25日		12月25日	
a b	+ 0.3011	− 0.0046	+ 0.0534	+ 0.0038	+ 0.1809	− 0.0014	− 0.0906	+ 0.0127
a′ b′	− 0.0311	− 0.9995	− 0.0401	− 0.9992	− 0.0499	− 0.9988	− 0.0521	− 0.9986
FK3番號	233		235		236		239	

星名	22 H. Caml		χ Colm		2 Lync		ζ CMaj	
等級	4.73		4.51		4.42		3.10	
スペクトル型	A0		K0		A0		B3	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 6 12	° ′ +69 20	h m 6 14	° ′ −35 7	h m 6 14	° ′ +59 1	h m 6 18	° ′ −30 2
1 0.9	s 36.653	″ 29.16	s 32.624	″ 23.89	s 37.239	″ 55.80	s 8.600	″ 22.63
10.9	36.733 80	31.83 267	32.636 12	26.81 292	37.372 83	58.00 220	8.624 24	25.38 275
20.9	36.682 51	34.42 259	32.593 43	29.50 269	37.365 7	60.15 215	8.596 28	27.93 255
30.9	36.597 175	36.86 244	32.497 96	31.89 239	37.269 96	62.18 203	8.517 79	30.19 226
2 9.9	36.215 292	39.03 217	32.355 142	33.94 205	37.091 178	64.01 183	8.391 126	32.12 193
	392	182	187	164	250	156	166	157
19.9	35.823	40.85	32.168	35.58	36.841	65.57	8.225	33.69
3 1.8	35.352 471	42.27 142	31.951 217	36.79 121	36.535 306	66.79 122	8.027 198	34.84 115
11.8	34.825 527	43.21 94	31.711 240	37.56 77	36.188 347	67.62 83	7.806 221	35.58 74
21.8	34.239 556	43.67 46	31.459 252	37.87 31	35.819 369	68.05 43	7.574 232	35.90 32
31.7	33.711 558	43.61 6	31.207 252	37.73 14	35.448 371	63.05 0	7.340 234	35.79 11
	534	54	243	59	353	41	225	52
4 10.7	33.177	43.07	30.964	37.14	35.095	67.64	7.115	35.27
20.7	32.693 484	42.03 101	30.741 223	36.12 102	34.776 319	66.85 79	6.909 206	34.34 93
30.7	32.278 415	40.65 140	30.547 194	34.70 142	34.506 270	65.72 113	6.729 180	33.03 131
5 10.6	31.949 329	38.90 176	30.387 160	32.90 180	34.297 209	64.29 143	6.582 147	31.36 167
20.6	31.720 229	36.87 203	30.268 119	30.76 214	34.153 139	62.65 164	6.475 107	29.38 198
	122	224	76	243	64	182	66	226
30.6	31.598	34.63	30.192	28.33	34.094	60.83	6.409	27.12
6 9.6	31.587 11	32.25 237	30.163 29	25.67 266	34.107 13	58.91 192	6.387 22	24.64 248
19.5	31.688 101	29.84 242	30.181 18	22.84 283	34.197 90	56.95 196	6.410 23	21.99 265
29.5	31.897 209	27.44 240	30.245 64	19.91 293	34.362 165	55.00 195	6.476 66	19.24 275
7 9.5	32.208 311	25.12 232	30.353 108	16.96 295	34.596 234	53.13 187	6.583 107	16.47 277
	405	219	150	289	298	176	147	272
19.4	32.613	22.93	30.503	14.07	34.894	51.37	6.730	13.75
29.4	33.103 490	20.93 200	30.690 187	11.33 274	35.248 354	49.76 161	6.912 182	11.16 259
8 8.4	33.668 565	19.16 177	30.912 222	8.83 250	35.653 405	48.33 143	7.125 213	8.79 237
18.4	34.295 627	17.65 151	31.162 250	6.63 220	36.098 445	47.12 121	7.366 241	6.71 208
28.3	34.974 679	16.44 121	31.437 275	4.84 179	36.577 479	46.14 98	7.629 263	5.00 171
	720	89	295	134	507	73	283	127
9 7.3	35.694	15.55	31.732	3.50	37.084	45.41	7.912	3.73
17.3	36.442 748	15.01 54	32.041 309	2.69 81	37.608 524	44.94 47	8.207 295	2.94 79
27.3	37.207 765	14.81 20	32.358 317	2.42 27	38.145 537	44.75 19	8.512 305	2.68 26
10 7.2	37.977 770	14.97 16	32.678 320	2.73 31	38.686 541	44.83 8	8.819 307	2.95 28
17.2	38.739 762	15.51 54	32.994 316	3.61 88	39.223 537	45.21 38	9.124 305	3.77 81
	740	90	307	141	525	67	297	134
27.2	39.479	16.41	33.301	5.02	39.748	45.88	9.421	5.11
11 6.1	40.183 704	17.68 127	33.590 289	6.93 191	40.250 502	45.84 96	9.703 282	6.91 180
16.1	40.835 652	19.30 162	33.854 264	9.27 234	40.720 470	48.09 125	9.963 260	9.11 220
26.1	41.419 584	21.24 194	34.088 234	11.94 267	41.146 426	49.60 151	10.195 232	11.64 253
12 6.1	41.918 499	23.45 222	34.282 194	14.85 291	41.516 370	51.36 176	10.392 197	14.39 275
	399	245	150	303	303	196	155	287
16.0	42.317	25.91	34.432	17.88	41.819	53.32	10.547	17.25
26.0	42.604 287	28.51 260	34.533 101	20.95 307	42.046 227	55.43 211	10.655 109	20.16 290
35.9	42.767 163	31.20 269	34.580 47	23.94 299	42.188 142	57.63 220	10.715 59	22.98 282
平位	s 34.082	″ 35.85	s 31.327	″ 13.59	s 35.665	″ 63.01	s 7.421	″ 12.63
2回正中	12月25日		12月25日		12月25日		12月23日	
a b	+ 0.3299	− 0.0097	+ 0.1965	+ 0.0030	+ 0.2642	− 0.0071	+ 0.1149	+ 0.0030
a′ b′	− 0.0548	− 0.9985	− 0.0333	− 0.9930	− 0.0636	− 0.9980	− 0.0790	− 0.9969
FK3番號	234		238		237		240	

星名		μ Gemi		β CMaj		ψ¹ Auri		8 ε Mono	
等級	スペクトル型	3.19	M0	1.99	B1	5.10	K2	4.48	A5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 6 19	° ′ +22 32	h m 6 20	° ′ −17 55	h m 6 20	° ′ +49 18	h m 6 20	° ′ + 4 37
1	0.9	s 31.490	″ 32.05	s 12.273	″ 44.55	s 31.730	″ 61.53	s 45.590	″ 15.14
	10.9	31.564 74	32.11 6	12.316 43	46.80 225	31.819 89	63.25 167	45.653 63	14.10 104
	20.9	31.585 21	32.25 14	12.309 7	48.86 206	31.835 16	64.92 167	45.668 15	13.19 91
	30.9	31.555 30	32.45 20	12.255 54	50.69 183	31.780 55	66.53 161	45.636 32	12.44 75
2	9.9	31.476 79 121	32.69 24 26	12.153 99 138	52.23 154 124	31.657 123 181	68.01 148 128	45.558 78 116	11.84 60 45
	19.9	31.355	32.95	12.018	53.47	31.476	69.29	45.442	11.39
3	1.8	31.199 156	33.19 24	11.850 168	54.37 90	31.247 229	70.33 104	45.295 147	11.10 29
	11.8	31.019 180	33.40 21	11.659 191	54.95 58	30.984 263	71.06 73	45.125 170	10.95 15
	21.8	30.825 194	33.56 16	11.457 202	55.18 23	30.701 283	71.48 42	44.942 183	10.93 2
	31.7	30.630 195 186	33.67 11 5	11.253 204 196	55.08 10 44	30.416 285 273	71.57 9 24	44.758 184 175	11.05 12 24
4	10.7	30.444	33.72	11.057	54.64	30.143	71.33	44.583	11.29
	20.7	30.278 166	33.72 0	10.879 178	53.89 75	29.897 246	70.79 54	44.425 158	11.66 37
	30.7	30.140 138	33.69 3	10.726 153	52.83 106	29.689 208	69.97 82	44.293 132	12.16 50
5	10.6	30.037 103	33.63 6	10.605 121	51.48 135	29.529 160	68.92 105	44.192 101	12.78 62
	20.6	29.975 62 20	33.58 5 4	10.520 85 45	49.87 161 184	29.425 104 45	67.68 124 136	44.129 63 25	13.52 74 86
	30.6	29.955	33.54 1	10.475	48.03 202	29.380	66.32 144	44.104 16	14.38 96
6	9.6	29.979 24	33.53 2	10.470 5	46.01 217	29.397 17	64.88 148	44.120 56	15.34 105
	19.5	30.047 68	33.55 7	10.507 37	43.84 226	29.475 78	63.40 146	44.176 94	16.39 111
	29.5	30.155 109	33.62 11	10.583 76	41.58 228	29.611 136	61.94 142	44.270 129	17.50 114
7	9.5	30.303 147 182	33.73 14	10.696 113 148	39.30 225	29.802 191 241	60.52 133	44.399 161	18.64 114
	19.4	30.485	33.87	10.844	37.05	30.043	59.19	44.530	19.78
	29.4	30.697 212	34.03 16	11.024 180	34.90 215	30.329 286	57.97 122	44.751 191	20.88 110
8	8.4	30.936 239	34.19 16	11.231 207	32.93 197	30.653 324	53.89 108	44.966 215	21.89 101
	18.4	31.196 260	34.34 15	11.462 231	31.21 172	31.009 356	55.95 94	45.201 235	22.79 90
	28.3	31.474 278 292	34.46 12 6	11.712 250 266	29.79 142 106	31.392 383 405	55.18 77 61	45.454 253 267	23.51 72 53
9	7.3	31.766	34.52	11.978	28.73	31.797	54.57	45.721	24.04
	17.3	32.069 303	34.53 1	12.256 278	28.09 64	32.216 419	54.15 42	45.997 276	24.34 30
	27.3	32.378 309	34.46 7	12.541 285	27.89 20	32.646 430	53.91 24	46.280 283	24.39 5
10	7.2	32.692 314	34.31 15	12.831 290	28.15 26	33.082 436	53.87 4	46.567 287	24.18 21
	17.2	33.004 312 309	34.10 21 26	13.118 287 282	28.85 70 114	33.515 433 426	54.04 17 37	46.854 287 283	23.72 46 69
	27.2	33.313	33.84	13.400	29.99	33.941	54.41	47.137	23.03
11	6.1	33.611 298	33.54 30	13.671 271	31.52 153	34.353 412	55.00 59	47.410 273	22.14 89
	16.1	33.895 284	33.24 30	13.923 252	33.38 186	34.741 388	55.82 82	47.669 259	21.09 105
	26.1	34.153 261	32.97 27	14.152 229	35.50 212	35.097 356	53.84 102	47.907 238	19.93 116
12	6.1	34.389 233 197	32.74 23 16	14.351 199 161	37.80 230 238	35.411 314 263	53.07 123 142	48.118 211 177	18.71 122 122
	16.0	34.586	32.58	14.512	40.18	35.674	59.49	48.295	17.49
	26.0	34.741 155	32.51 7	14.633 121	42.57 239	35.877 203	61.04 155	48.433 138	16.32 117
	35.9	34.848 107	32.53 2	14.707 74	44.89 232	36.013 136	62.70 166	48.528 95	15.23 109
平位		s 30.691	″ 40.78	s 11.305	″ 34.83	s 30.534	″ 69.44	s 44.803	″ 24.38
2回正中		12月27日		12月27日		12月27日		12月27日	
a	b	+ 0.1809	− 0.0024	+ 0.1318	+ 0.0019	+ 0.2306	− 0.0069	+ 0.1537	− 0.0005
a′	b′	− 0.0850	− 0.9964	− 0.0880	− 0.9961	− 0.0894	− 0.9960	− 0.0904	− 0.9959
FK3番號		241		243		242		244	

星名		α Cari		10 Mono		8 Lync		ξ² CMaj	
等級	スペクトル型	−0.86	Fc	4.98	B3	6.05	G0	4.54	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 22	° ′ −52 39	h m 6 25	° ′ − 4 43	h m 6 32	° ′ +61 31	h m 6 32	° ′ −22 54
1	0.9	s 43.216	″ 59.21	s 9.445	″ 40.71	s 30.814	″ 54.14	s 41.023	″ 75.28
	10.9	43.193 23	62.59 338	9.505 60	42.30 159	30.934 120	55.44 230	41.072 49	77.80 252
	20.9	43.098 95	65.75 316	9.517 12	43.73 143	30.955 21	58.73 229	41.071 1	80.14 234
	30.9	42.936 162	68.59 284	9.482 35	44.97 124	30.879 76	60.94 221	41.020 51	82.23 209
2	9.9	42.712 224 276	71.06 247 202	9.403 79 119	46.00 103 81	30.711 168 248	62.97 203 178	40.922 98 139	84.03 180 146
	19.9	42.436	73.08	9.284	46.81	30.463	64.75	40.783	85.49
3	1.8	42.119 317	74.61 153	9.135 149	47.38 57	30.148 315	66.20 145	40.611 172	86.61 112
	11.8	41.773 346	75.64 103	8.962 173	47.73 35	29.783 365	67.26 106	40.415 196	87.35 74
	21.8	41.410 363	76.15 51	8.777 185	47.85 12	29.388 395	67.90 64	40.205 210	87.72 37
	31.7	41.044 366 355	76.14 1 54	8.589 188 180	47.75 10 31	28.986 402 392	68.11 21 23	39.991 214 207	87.71 1 38
4	10.7	40.689	75.60	8.409	47.44	28.594	67.88	39.784	87.33
	20.7	40.355 334	74.53 104	8.246 163	46.90 54	28.233 361	67.23 65	39.592 192	86.60 73
	30.7	40.053 302	73.04 152	8.108 138	46.17 73	27.919 314	66.19 104	39.424 168	85.52 108
5	10.6	39.793 260	71.09 195	7.999 109	45.24 93	27.665 254	64.83 136	39.287 137	84.12 140
	20.6	39.581 212 157	68.74 235 269	7.927 72 34	44.13 111 128	27.483 182 106	63.19 164 185	39.185 102 64	82.43 169 195
	30.6	39.424	66.05	7.893	42.85	27.377	61.34	39.121	80.48
6	9.6	39.325 99	63.07 298	7.898 5	41.44 141	27.352 25	59.34 200	39.099 22	78.33 215
	19.5	39.287 38	59.90 317	7.943 45	39.91 153	27.409 57	57.26 208	39.118 19	76.00 233
	29.5	39.310 23	56.60 330	8.026 83	38.31 160	27.546 137	55.15 211	39.177 59	73.57 243
7	9.5	39.393 83 142	53.26 334 328	8.144 118 151	36.67 164 162	27.759 213 284	53.07 208 200	39.275 98 134	71.10 247 244
	19.4	39.535	49.98	8.295	35.05	28.043	51.07	39.409	68.66
	29.4	39.731 196	46.86 312	8.475 180	33.50 155	28.390 347	49.21 186	39.576 167	66.32 234
8	8.4	39.979 248	43.98 288	8.681 206	32.07 143	28.795 405	47.51 170	39.774 198	64.16 216
	18.4	40.271 292	41.44 254	8.908 227	30.82 125	29.247 452	46.00 151	39.998 224	62.26 190
	28.3	40.602 331 362	39.24 210 160	9.154 246 260	29.79 103 75	29.741 494 528	44.73 127 103	40.243 245 265	60.67 159 120
	7.3	40.964	37.74	9.414	29.04	30.269	43.70	40.508	59.47
9	17.3	41.350 386	36.72 102	9.686 272	28.59 45	30.822 553	42.94 76	40.787 279	58.71 76
	27.3	41.751 401	36.31 41	9.965 279	28.49 10	31.393 571	42.46 48	41.077 290	58.43 28
10	7.2	42.158 407	36.54 23	10.249 284	28.72 23	31.975 582	42.29 17	41.372 295	58.63 20
	17.2	42.559 401 387	37.42 88 149	10.532 283 280	29.29 57 89	32.553 581 574	42.43 14 46	41.668 296 292	59.33 70 117
	27.2	42.946	38.91	10.812	30.18	33.130	42.89	41.930	60.50
11	6.1	43.307 361	40.97 206	11.083 271	31.36 118	33.684 554	43.67 78	42.241 281	62.11 161
	16.1	43.633 326	43.53 256	11.338 255	32.77 141	34.207 523	44.78 111	42.505 264	64.09 198
	26.1	43.912 279	46.49 296	11.574 236	34.37 160	34.687 480	46.20 142	42.745 240	66.37 228
12	6.1	44.137 225 162	49.75 326 344	11.781 207 175	36.07 170 175	35.110 423 354	47.90 170 195	42.955 210 172	68.86 249 262
	16.0	44.299	53.19	11.953	37.82	35.464	49.85	43.127	71.48
	26.0	44.393 94	56.69 350	12.090 134	39.54 172	35.738 274	51.99 214	43.255 129	74.12 264
	35.9	44.415 22	60.15 346	12.181 91	41.19 165	35.920 182	54.26 227	43.338 82	76.70 258
平位		s 41.143	″ 49.51	s 8.609	″ 31.36	s 29.093	″ 62.30	s 39.934	″ 66.16
2回正中		12月28日		12月28日		12月30日		12月30日	
a	b	+ 0.0664	+ 0.0086	+ 0.1478	+ 0.0006	+ 0.2751	− 0.0174	+ 0.1254	+ 0.0040
a′	b′	− 0.0988	− 0.9951	− 0.1095	− 0.9940	− 0.1413	− 0.9900	− 0.1421	− 0.9899
FK3番號		245		246		247		249	

星名	γ Gemi		51 Auri		ν Pupp		23 H. Caml	
等級	1.93		5.71		3.18		5.60	
スペクトル型	A0		K0		B8		F8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 6 34	° ′ +16 26	h m 6 34	° ′ +39 25	h m 6 35	° ′ −43 8	h m 6 36	° ′ +79 37
1 1.0	s 25.911	″ 49.73	s 43.530	″ 26.41	s 62.552	″ 50.09	s 37.844	″ 45.04
10.9	25.996 85	49.38 35	43.631 101	27.49 108	62.530 28	53.35 326	38.042 198	48.08 304
20.9	26.030 34	49.14 24	43.671 40	28.62 113	62.546 34	56.43 308	37.990 52	51.10 302
30.9	26.013 17	49.01 13	43.647 24	29.76 114	62.452 94	59.23 280	37.691 299	53.97 287
2 9.9	25.949 64	48.97 4	43.565 82	30.86 110	62.303 149	61.69 246	37.162 529	55.60 263
	108	4	135	99	198	206	734	229
19.9	25.841	49.01	43.430	31.85	62.105	63.75	36.428	58.89
3 1.8	25.699 142	49.10 9	43.251 179	32.70 85	61.868 237	65.36 161	35.527 901	60.74 185
11.8	25.530 169	49.22 12	43.040 211	33.36 66	61.601 267	66.51 115	34.499 1028	62.09 135
21.8	25.347 183	49.37 15	42.810 230	33.81 45	61.315 286	67.17 66	33.392 1107	62.89 80
31.8	25.153 189	49.53 16	42.574 236	34.03 22	61.024 291	67.33 16	32.259 1133	63.12 23
	181	16	229	2	286	32	1112	33
4 10.7	24.977	49.69	42.345	34.01	60.738	67.01	31.147	62.79
20.7	24.812 165	49.85 16	42.137 208	33.76 25	60.467 271	66.21 80	30.103 1044	61.92 87
30.7	24.672 140	50.03 18	41.959 178	33.32 44	60.222 245	64.96 125	29.169 934	60.55 137
5 10.6	24.534 108	50.24 21	41.820 139	32.71 61	60.010 212	63.28 168	28.378 791	58.74 181
20.6	24.492 72	50.47 23	41.727 93	31.95 76	59.838 172	61.22 206	27.762 616	56.53 218
	32	27	45	85	127	241	424	246
30.6	24.460	50.74	41.682	31.10	59.711	53.81	27.338	54.10
6 9.6	24.470 10	51.05 31	41.689 7	30.17 93	59.632 79	53.11 270	27.119 219	51.42 268
19.5	24.521 51	51.40 35	41.747 58	29.22 95	59.603 29	53.20 291	27.112 7	48.62 280
29.5	24.611 90	51.79 39	41.854 107	28.27 95	59.624 21	53.14 306	27.315 203	45.77 285
7 9.5	24.738 127	52.21 42	42.008 154	27.34 93	59.695 71	47.02 312	27.723 408	42.95 282
	161	43	196	89	119	311	603	271
19.5	24.899	52.64	42.204	26.45	59.814	43.91	28.326	40.24
29.4	25.090 191	53.06 42	42.437 233	25.63 82	59.978 164	40.92 299	29.107 781	37.68 256
8 8.4	25.307 217	53.45 39	42.704 267	24.87 76	60.184 206	38.14 278	30.053 946	35.34 234
18.4	25.547 240	53.78 33	42.999 295	24.19 68	60.427 243	35.65 249	31.139 1086	33.27 207
28.3	25.805 258	54.03 25	43.317 318	23.59 60	60.708 276	33.55 210	32.348 1209	31.51 176
	274	14	339	52	304	164	1312	141
9 7.3	26.079	54.17 2	43.656	23.07	61.007	31.91	33.660	30.10
17.3	26.365 286	54.19 11	44.009 353	22.64 43	61.333 326	30.79 112	35.046 1386	29.08 102
27.3	26.661 296	54.08 25	44.374 365	22.30 34	61.673 340	30.25 54	36.486 1440	28.46 62
10 7.2	26.932 301	53.83 39	44.746 372	22.06 24	62.023 350	30.32 7	37.953 1467	28.26 20
17.2	27.265 303	53.44 49	45.119 373	21.92 14	62.374 351	30.99 67	39.419 1466	28.51 25
	302		371	1	343	128	1437	69
27.2	27.537	52.95	45.490	21.91	62.717	32.27	40.853	29.20
11 6.2	27.861 294	52.36 59	45.852 362	22.03 12	63.046 329	34.10 183	42.234 1378	30.34 114
16.1	28.143 282	51.72 64	46.198 346	22.30 27	63.350 304	36.42 232	43.519 1285	31.91 157
26.1	28.405 262	51.06 66	46.519 321	22.74 44	63.621 271	39.15 273	44.678 1159	33.89 198
12 6.1	28.641 236	50.42 64	46.807 288	23.34 60	63.851 230	42.20 305	45.679 1001	36.23 234
	203	58	248	76	182	324	811	265
16.0	28.844	49.84	47.055	24.10	64.033	45.44	46.490	38.88
26.0	29.007 163	49.33 51	47.253 198	25.02 92	64.159 126	48.77 333	47.087 597	41.76 288
35.9	29.125 118	48.93 40	47.395 142	26.05 103	64.227 68	52.09 332	47.447 360	44.78 302
平位	s 25.139	″ 58.73	s 42.534	″ 35.13	s 60.940	″ 41.77	s 32.609	″ 53.03
2回正中	12月31日		12月31日		12月31日		12月31日	
a b	+0.1728	−0.0029	+0.2075	−0.0083	+0.0916	+0.0098	−0.5131	−0.0579
a′ b′	−0.1496	−0.9888	−0.1509	−0.9886	−0.1555	−0.9877	−0.1538	−0.9873
FK3番號	251		250		252		248	

星名	† S Mono		ε Gemi		ξ Gemi		ψ^5 Auri	
等級	4.68		3.18		3.40		5.34	
スペクトル型	Oe5		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 6 37	° ′ +9 53	h m 6 40	° ′ +25 11	h m 6 42	° ′ +12 57	h m 6 42	° ′ +43 37
1 0.0	s 51.053	″ 51.30	s 26.302	″ 12.72	s 6.148	″ 22.38	s 38.922	″ 61.59
9.9	51.147 89	50.53 77	26.405 103	12.89 17	6.243 95	21.77 61	39.044 122	62.90 131
19.9	51.186 39	49.88 65	26.454 49	13.16 27	6.287 44	21.29 48	39.100 56	64.28 138
29.9	51.175 11	49.37 51	26.449 5	13.52 36	6.282 5	20.94 35	39.090 10	65.67 139
2 8.9	51.118 57	48.99 38	26.391 58	13.92 40	6.228 54	20.71 23	39.014 76	67.01 134
	100	25	104	43	97	12	133	123
18.9	51.018	48.74	26.287	14.35	6.131	20.59	38.881	68.24
28.8	50.882 136	48.60 14	26.144 143	14.76 41	5.997 134	20.55 4	38.699 182	69.30 106
3 10.8	50.720 162	48.57 3	25.971 173	15.13 37	5.836 161	20.60 5	38.480 219	70.14 84
20.8	50.542 178	48.62 5	25.779 192	15.43 30	5.657 179	20.70 10	38.237 243	70.75 61
30.8	50.353 184	48.75 13	25.581 198	15.65 22	5.472 185	20.85 15	37.985 252	71.07 32
	179	20	194	14	181	19	248	6
4 9.7	50.179	48.95	25.387	15.79	5.291	21.04	37.737	71.13
19.7	50.014 165	49.23 28	25.209 178	15.84 5	5.124 167	21.28 24	37.507 230	70.91 22
29.7	49.872 142	49.57 34	25.055 154	15.81 3	4.979 145	21.55 27	37.307 200	70.45 46
5 9.7	49.760 112	50.00 43	24.933 122	15.73 8	4.864 115	21.87 32	37.146 161	69.76 69
19.6	49.683 77	50.49 49	24.849 84	15.60 13	4.784 80	22.24 37	37.031 115	68.90 86
	39	57	42	15	42	42	64	101
29.6	49.644	51.06	24.807	15.45	4.742	22.66	36.967	67.89
6 8.6	49.644 0	51.71 65	24.808 1	15.29 16	4.740 2	23.14 48	36.953 11	66.78 111
18.5	49.684 40	52.41 70	24.853 45	15.14 15	4.778 38	23.67 53	37.000 44	65.61 117
28.5	49.762 78	53.17 76	24.939 86	15.01 13	4.854 76	24.24 57	37.095 95	64.41 120
7 8.5	49.877 115	53.95 78	25.064 125	14.89 12	4.957 113	24.83 59	37.241 146	63.23 118
	148	79	162	10	147	60	192	115
18.5	50.025	54.74	25.226	14.79	5.114	25.43	37.433	62.08
28.4	50.203 178	55.51 77	25.421 195	14.70 9	5.291 177	26.01 58	37.667 234	60.99 109
8 7.4	50.407 204	56.22 71	25.645 224	14.62 8	5.495 204	26.54 53	37.937 270	59.97 102
17.4	50.634 227	56.84 62	25.892 247	14.52 10	5.722 227	27.00 46	38.239 302	59.05 92
27.4	50.880 246	57.33 49	26.161 269	14.41 11	5.969 247	27.35 35	38.569 330	58.22 83
	263	33	287	15	264	22	352	71
9 6.3	51.143	57.66	26.448	14.26	6.233	27.57	38.921	57.51
16.3	51.418 275	57.82 16	26.749 301	14.07 19	6.509 276	27.64 7	39.291 370	56.91 60
23.3	51.703 285	57.78 4	27.050 311	13.82 25	6.797 288	27.54 10	39.676 385	55.43 48
10 6.2	51.994 291	57.54 24	27.379 329	13.53 29	7.092 295	27.26 28	40.069 393	53.09 34
16.2	52.289 295	57.10 44	27.701 322	13.20 33	7.390 298	26.82 44	40.467 398	55.90 19
	293	62	322	36	298	60	397	3
26.2	52.532	53.48	28.023	12.84	7.688	26.22	40.864	55.87
11 5.2	52.870 288	55.70 78	28.339 316	12.47 37	7.981 293	25.50 72	41.253 389	53.02 15
15.1	53.146 276	54.80 90	28.643 304	12.14 33	8.263 282	24.69 81	41.627 374	53.36 34
25.1	53.404 258	53.83 97	28.928 285	11.85 29	8.528 265	23.83 86	41.977 350	53.90 54
12 5.1	53.638 234	52.83 100	29.188 260	11.64 21	8.768 240	22.96 87	42.294 317	57.65 75
	201	99	225	11	209	83	274	93
15.1	53.839	51.84	29.413	11.53	8.977	22.13	42.538	58.58
25.0	54.003 164	50.92 92	29.597 184	11.53 0	9.148 171	21.36 77	42.791 223	59.70 112
34.9	54.123 120	50.09 83	29.734 137	11.65 12	9.274 126	20.71 65	42.956 165	60.95 125
平位	s 50.298	″ 60.24	s 25.520	″ 21.74	s 5.394	″ 31.32	s 37.933	″ 70.68
2回正中	12月31日		1月1日	12月32日	1月1日	12月32日	1月1日	12月33日
a b	+0.1649	−0.0019	+0.1842	−0.0055	+0.1684	−0.0028	+0.2153	−0.0118
a′ b′	−0.1644	−0.9864	−0.1755	−0.9845	−0.1826	−0.9832	−0.1859	−0.9828
FK3番號	253		254		256		255	

星名	α CMaj cg		18 Mono		ζ Mens		43 Caml	
等級 スペクトル型	−1.58	A0	4.70	K0	5.64	A2	5.13	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 42	° ′ −16 38	h m 6 44	° ′ +2 28	h m 6 44	° ′ −80 45	h m 6 47	° ′ +68 57
	s	″	s	″	s	″	s	″
1 0.0	39.233	20.69	54.056	25.16	59.630	27.84	36.418	18.61
9.9	39.298 65	22.99 230	54.146 90	23.92 124	59.363 267	31.35 351	36.604 186	21.22 261
19.9	39.316 18	25.11 212	54.187 41	22.81 111	58.839 524	34.72 337	36.662 58	23.87 265
29.9	39.283 33	27.01 190	54.179 8	21.87 94	58.075 764	37.84 312	36.591 71	26.45 258
2 8.9	39.203 80	28.64 163	54.124 55	21.11 76	57.096 979	40.64 280	36.397 194	28.87 242
	121	134	97	58	1162	241	306	217
18.9	39.082	29.98	54.027	20.53	55.934 1312	43.05	36.091	31.04
28.8	38.927 155	31.00 102	53.895 132	20.12 41	54.622 1425	45.02 197	35.692 399	32.85 181
3 10.8	38.748 179	31.69 69	53.736 159	19.89 23	53.197 1498	46.50 148	35.219 473	34.26 141
20.8	38.551 197	32.05 36	53.560 176	19.82 7	51.699 1531	47.49 99	34.699 520	35.20 94
30.8	38.349 202	32.09 4	53.377 183	19.90 8	50.168 1530	47.96 47	34.155 543	35.65 45
	197	28	179	23		6	538	5
4 9.7	38.152	31.81	53.198	20.13	48.638 1489	47.90	33.618	35.60
19.7	37.968 184	31.20 61	53.032 166	20.50 37	47.149 1414	47.32 58	33.109 509	35.07 53
29.7	37.807 161	30.31 89	52.887 145	21.02 52	45.735 1368	46.25 107	32.651 458	34.09 98
5 9.7	37.675 132	29.14 117	52.770 117	21.66 64	44.427 1169	44.69 156	32.263 388	32.70 139
19.6	37.576 99	27.72 142	52.686 84	22.44 78	43.258 1105	42.71 198	31.962 301	30.97 173
	62	167	48	90		239	206	202
29.6	37.514	26.05	52.638	23.34	42.253 819	40.32	31.756	28.95
6 8.6	37.491 23	24.20 185	52.629 9	24.34 100	41.434 612	37.60 272	31.653 103	26.72 223
18.5	37.508 17	22.20 200	52.659 30	25.43 109	40.822 391	34.61 299	31.656 3	24.35 237
28.5	37.563 55	20.10 210	52.725 66	26.58 115	40.431 161	31.43 318	31.764 108	21.91 244
7 8.5	37.656 93	17.95 215	52.828 103	27.77 119	40.270 73	28.13 330	31.975 211	19.45 246
	128	212	135	119		331	307	239
18.5	37.784	15.83	52.963	28.96	40.343	24.82	32.282	17.06
28.4	37.945 161	13.79 204	53.128 165	30.10 114	40.650 307	21.58 324	32.678 396	14.78 228
8 7.4	38.134 189	11.89 190	53.321 193	31.16 106	41.183 533	18.52 306	33.156 478	12.66 212
17.4	38.348 214	10.21 168	53.536 215	32.09 93	41.926 743	15.74 278	33.705 549	10.74 192
27.4	38.583 235	8.82 139	53.771 235	32.85 76	42.859 933	13.33 241	34.316 611	9.06 168
	254	105	253	55	1096	196	664	140
9 6.3	38.837 269	7.77 66	54.024 266	33.40 30	43.955 1225	11.37 142	34.980 704	7.66 110
16.3	39.106 279	7.11 24	54.290 277	33.70 4	45.180 1315	9.95 83	35.684 735	6.56 76
26.3	39.385 287	6.87 20	54.567 284	33.74 24	46.495 1361	9.12 20	36.419 755	5.80 42
10 6.2	39.672 289	7.07 66	54.851 289	33.50 51	47.856 1360	8.92 45	37.174 762	5.38 5
16.2	39.961 286	7.73 108	55.140 289	32.99 77	49.216 1310	9.37 109	37.936 757	5.33 34
26.2	40.247	8.81	55.429	32.22	50.526 1213	10.46 170	38.693	5.67
11 5.2	40.526 279	10.29 148	55.712 283	31.22 100	51.739 1068	12.16 224	39.430 737	6.39 72
15.1	40.791 265	12.10 181	55.985 273	30.03 119	52.807 884	14.40 271	40.130 700	7.50 111
25.1	41.035 244	14.18 208	56.241 256	28.71 132	53.691 665	17.11 309	40.778 648	8.98 148
12 5.1	41.252 217	16.46 228	56.473 232	27.31 140	54.356 422	20.20 335	41.355 577	10.81 183
	182	239	200	142			488	214
15.1	41.434	18.85	56.673	25.89	54.778	23.55	41.843	12.95
25.0	41.576 142	21.26 241	56.837 164	24.51 138	54.938 160	27.04 349	42.229 386	15.34 239
35.0	41.674 98	23.61 235	56.957 120	23.21 130	54.831 107	30.57 353	42.498 269	17.91 257
平位	s 38.224	″ 11.87	s 53.274	″ 33.93	s 49.589	″ 21.30	s 34.115	″ 27.77
2 回正中	1月1日	12月33日	1月2日	12月33日	1月2日	12月33日	1月3日	12月34日
a b	+0.1337	+0.0037	+0.1562	−0.0006	−0.2485	+0.0796	+0.3229	−0.0257
a′ b′	−0.1850	−0.9827	−0.1946	−0.9809	−0.1944	−0.9809	−0.2031	−0.9785
FK3番號	257		258		264		259	

星名	α Pict		τ Pupp		ϑ Gemi		ϑ CMaj	
等級 スペクトル型	3.30	A5	2.83	K0	3.64	A2	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 6 47	° ′ −61 52	h m 6 48	° ′ −50 32	h m 6 49	° ′ +34 1	h m 6 51	° ′ −11 57
	s	″	s	″	s	″	s	″
1 0.0	39.374	53.84	33.231	52.36	2.825	45.58	33.302	65.27
9.9	39.365 9	57.44 360	33.260 29	55.83 347	2.945 120	46.29 71	33.388 86	67.34 207
19.9	39.265 100	60.88 344	33.220 40	59.14 331	3.007 62	47.09 80	33.426 38	69.26 192
29.9	39.076 189	64.06 318	33.111 109	62.20 306	3.009 2	47.95 86	33.416 10	70.98 172
2 8.9	38.806 270	66.90 284	32.938 173	64.92 272	2.954 55	48.83 88	33.359 57	72.45 147
	341	244	228	232	107	84	98	121
18.9	38.465	69.34	32.710	67.24	2.847	49.67	33.261	73.66
28.9	38.067 398	71.32 198	32.435 275	69.11 187	2.696 151	50.44 77	33.129 132	74.58 92
3 10.8	37.624 443	72.80 148	32.126 309	70.50 139	2.510 186	51.08 64	32.969 160	75.23 65
20.8	37.153 471	73.76 96	31.794 332	71.39 89	2.304 206	51.58 50	32.792 177	75.57 34
30.8	36.668 485	74.18 42	31.452 342	71.76 37	2.087 217	51.90 32	32.607 185	75.64 7
	482	12	340	14	213	15	183	22
4 9.7	36.186	74.06	31.112	71.62	1.874	52.05	32.424	75.42
19.7	35.721 465	73.41 65	30.786 326	70.97 65	1.675 199	52.02 3	32.252 172	74.92 50
29.7	35.287 434	72.26 115	30.485 301	69.83 114	1.502 173	51.82 20	32.100 152	74.17 75
5 9.7	34.894 393	70.62 164	30.218 267	68.23 160	1.361 141	51.48 34	31.973 127	73.16 101
19.6	34.554 340	68.53 209	29.992 226	66.21 202	1.262 99	51.02 46	31.877 96	71.92 124
	279	248	177	240	56	55	61	145
29.6	34.275	66.05	29.815	63.81	1.206	50.47	31.816	70.47
6 8.6	34.064 211	63.24 281	29.689 126	61.10 271	1.196 10	49.86 61	31.791 25	68.84 163
18.6	33.926 138	60.15 309	29.619 70	58.13 297	1.233 37	49.21 65	31.803 12	67.07 177
28.5	33.863 63	53.88 327	29.605 14	54.98 315	1.315 82	48.54 67	31.851 48	65.20 187
7 8.5	33.878 15	53.50 338	29.648 43	51.74 324	1.441 126	47.87 67	31.935 84	63.27 193
	91	339	99	324	166	64	116	192
18.5	33.969	50.11	29.747	48.50	1.607	47.23	32.051	61.35
28.4	34.136 167	46.82 329	29.899 152	45.35 315	1.810 203	46.61 62	32.198 147	59.50 185
8 7.4	34.374 238	43.71 311	30.102 203	42.38 297	2.044 234	46.02 59	32.372 174	57.77 173
17.4	34.678 304	40.89 282	30.351 249	39.70 268	2.306 262	45.46 56	32.571 199	56.23 154
27.4	35.040 362	38.46 243	30.641 290	37.40 230	2.592 286	44.93 53	32.791 220	54.93 130
	415	196	327	184	307	49	239	98
9 6.3	35.455	36.50	30.968	35.56	2.899	44.44	33.030	53.95
16.3	35.909 454	35.09 141	31.323 355	34.25 131	3.222 323	43.97 47	33.285 255	53.31 64
26.3	36.394 485	34.29 80	31.699 376	33.53 72	3.559 337	43.53 44	33.552 267	53.06 25
10 6.3	36.896 502	34.14 15	32.089 390	33.45 8	3.905 346	43.14 39	33.828 276	53.21 15
16.2	37.402 506	34.65 51	32.482 393	34.00 55	4.257 352	42.80 34	34.108 280	53.77 56
	494	116	388	118	352	28	282	96
26.2	37.896	35.81	32.870	35.18	4.609	42.52	34.390	54.73
11 5.2	38.364 468	37.59 178	33.241 371	36.95 177	4.956 347	42.33 19	34.668 278	55.04 131
15.1	38.792 428	39.93 234	33.536 345	39.26 231	5.291 335	42.25 8	34.934 266	57.67 163
25.1	39.165 373	42.74 281	33.893 307	42.02 276	5.607 316	42.30 5	35.185 251	59.55 188
12 5.1	39.470 305	45.93 319	34.154 261	45.14 312	5.895 288	42.49 19	35.411 226	61.61 206
	227	346	204	336	253	35	196	216
15.1	39.697	49.39	34.358	48.50	6.148	42.84	35.607	63.77
25.0	39.838 141	52.99 360	34.500 142	51.99 349	6.356 208	43.34 50	35.765 158	65.95 218
35.0	39.888 50	56.61 362	34.574 74	55.50 351	6.514 158	43.99 65	35.881 116	68.07 212
平位	s 36.391	″ 47.07	s 31.223	″ 45.32	s 1.990	″ 54.84	s 32.444	″ 57.10
2 回正中	1月3日	12月34日	1月3日	12月34日	1月3日	12月34日	1月4日	12月35日
a b	+0.0313	+0.0257	+0.0741	+0.0170	+0.1973	−0.0096	+0.1396	+0.0032
a′ b′	−0.2062	−0.9785	−0.2101	−0.9777	−0.2123	−0.9772	−0.2230	−0.9748
FK3番號	262		263		261		266	

星名	24 H. Caml		ε Voln		† 15 Lync m		ε CMaj	
等級 スペクトル型	4.75	K5	5.52	B8	4.54	G0	1.63	B1
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 6 51	° ′ +77 2	h m 6 52	° ′ −70 53	h m 6 52	° ′ +53 29	h m 6 53	° ′ −28 53
	s	″	s	″	s	″	s	″
1 0.0	50.894	66.25	11.079	39.89	22.194	50.29	24.278	43.23
9.9	51.159 265	69.18 293	11.028 51	43.52 363	22.355 162	52.40 211	24.351 73	46.10 287
19.9	51.220 61	72.14 296	10.846 182	47.01 349	22.428 72	54.56 216	24.370 19	48.81 271
29.9	51.080 140	75.02 288	10.540 306	50.26 325	22.409 19	56.71 215	24.337 33	51.30 249
2 8.9	50.746 334	77.72 270	10.121 419	53.19 293	22.302 107	58.75 204	24.252 85	53.49 219
	511	241	516	254	187	186	130	185
18.9	50.235	80.13	9.605	55.73	22.115	60.61	24.122	55.34
28.9	49.577 658	82.16 203	9.007 598	57.81 208	21.860 255	62.19 158	23.954 168	56.82 148
3 10.8	48.802 775	83.72 156	8.348 659	59.41 160	21.553 307	63.45 126	23.756 198	57.91 109
20.8	47.948 854	84.78 106	7.648 700	60.49 108	21.210 343	64.34 89	23.539 217	58.59 68
30.8	47.056 892	85.29 51	6.928 720	61.03 54	20.850 360	64.82 48	23.312 227	58.86 27
	891	4	721	1	357	6	225	15
4 9.7	46.165	85.25	6.207	61.04	20.493	64.88	23.087	58.71
19.7	45.315 850	84.67 58	5.506 701	60.51 53	20.156 337	64.54 34	22.873 214	58.17 54
29.7	44.541 774	83.53 109	4.843 663	59.47 104	19.855 301	63.82 72	22.679 194	57.23 94
5 9.7	43.871 670	82.04 154	4.234 609	57.93 154	19.602 253	62.75 107	22.512 167	55.93 130
19.6	43.332 539	80.11 193	3.695 539	55.94 199	19.410 192	61.39 136	22.377 135	54.29 164
	391	226	456	240	126	160	98	194
29.6	42.941	77.85	3.239	53.54	19.284	59.79	22.279	52.35
6 8.6	42.710 231	75.35 250	2.875 364	50.79 275	19.230 54	58.00 179	22.221 58	50.15 220
18.6	42.646 64	72.69 266	2.613 262	47.75 304	19.248 18	56.09 191	22.204 17	47.74 241
28.5	42.751 105	69.93 276	2.458 155	44.51 324	19.339 91	54.11 198	22.228 24	45.18 256
7 8.5	43.020 269	67.16 277	2.415 43	41.14 337	19.499 160	52.11 200	22.293 65	42.55 263
	426	271	70	338	226	196	104	264
18.5	43.446	64.45	2.485	37.76	19.725	50.15	22.397	39.91
28.4	44.021 575	61.85 260	2.666 181	34.44 332	20.011 286	48.26 189	22.537 140	37.35 256
8 7.4	44.731 710	59.42 243	2.955 289	31.30 314	20.352 341	46.49 177	22.711 174	34.94 241
17.4	45.561 830	57.23 219	3.343 388	28.43 287	20.740 388	44.88 161	22.916 205	32.76 218
27.4	46.495 934	55.31 192	3.823 480	25.93 250	21.170 430	43.44 144	23.148 232	30.91 185
	1025	161	558	204	465	124	257	148
9 6.3	47.520	53.70	4.381	23.89	21.635	42.20	23.405	29.43
16.3	48.615 1095	52.45 125	5.003 622	22.39 150	22.128 493	41.20 100	23.681 276	28.41 102
25.3	49.763 1148	51.56 89	5.671 668	21.50 89	22.643 515	40.44 76	23.973 292	27.89 52
10 6.3	50.944 1181	51.09 47	6.366 695	21.25 25	23.173 530	39.94 50	24.277 304	27.89 0
16.2	52.138 1194	51.03 6	7.067 701	21.66 41	23.711 538	39.74 20	24.535 308	28.43 54
	1185	38	684	107	538	9	309	106
26.2	53.323	51.41	7.751	22.73	24.249	39.83	24.894	29.49
11 5.2	54.472 1149	52.24 83	8.395 644	24.43 170	24.775 526	40.24 41	25.196 302	31.05 156
15.1	55.532 1090	53.50 126	8.978 583	26.70 227	25.281 506	40.96 72	25.483 287	33.04 199
25.1	56.563 1001	55.19 169	9.478 500	29.45 275	25.754 473	42.01 105	25.749 266	35.41 237
12 5.1	57.450 887	57.26 207	9.879 401	32.61 316	26.181 427	43.35 134	25.986 237	38.05 264
	745	241	286	343	369	163	200	283
15.1	58.195	59.67	10.165	36.04	25.550	44.98	26.186	40.88
25.0	58.774 579	62.35 268	10.325 160	39.64 360	26.850 300	46.84 186	26.342 156	43.80 292
35.0	59.168 394	65.23 288	10.354 29	43.28 364	27.070 220	48.88 204	26.448 106	46.71 291
平位	s 46.978	″ 75.57	s 6.448	″ 33.87	s 20.754	″ 59.80	s 23.088	″ 35.99
2回正中	1月4日	12月35日	1月4日	12月35日	1月4日	12月35日	1月5日	12月36日
a b	+ 0.4360	− 0.0650	− 0.0342	+ 0.0434	+ 0.2593	− 0.0246	+ 0.1176	+ 0.0090
a′ b′	− 0.2240	− 0.9746	− 0.2254	− 0.9743	− 0.2264	− 0.9740	− 0.2436	− 0.9699
FK3番號	260		267		265		268	

星名	o² CMaj		ζ Gemi		γ CMaj		27 G. Cari	
等級 スペクトル型	3.12	B5p	3.7—4.1	G0p	4.07	B5	5.30	A0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 7 0	° ′ −23 44	h m 7 0	° ′ +20 39	h m 7 1	° ′ −15 32	h m 7 3	° ′ −55 39
	s	″	s	″	s	″	s	″
1 0.0	39.691	62.85	44.454	11.18	11.674	59.29	17.008	50.61
9.9	39.774 83	65.52 267	44.574 120	11.01 17	11.765 91	61.57 228	17.047 39	54.22 361
19.9	39.805 31	68.03 251	44.642 68	10.97 4	11.806 41	63.71 214	17.005 42	57.70 348
29.9	39.785 20	70.33 230	44.657 15	11.05 8	11.797 9	65.64 193	16.885 120	60.95 325
2 8.9	39.714 71	72.35 202	44.620 37	11.24 19	11.739 58	67.31 167	16.690 195	63.90 295
	115	171	85	26	101	140	259	256
18.9	39.599	74.06	44.535	11.50	11.638	68.71	16.431	66.46
28.9	39.446 153	75.42 136	44.410 125	11.80 30	11.500 138	69.80 109	16.118 313	68.59 213
3 10.8	39.264 182	76.42 100	44.252 158	12.11 31	11.333 167	70.59 79	15.761 357	70.24 165
20.8	39.061 203	77.04 62	44.074 178	12.42 31	11.147 186	71.05 46	15.375 386	71.38 114
30.8	38.850 211	77.28 24	43.885 189	12.69 27	10.952 195	71.20 15	14.975 400	71.99 61
	211	13	188	24	195	16	403	9
4 9.7	38.639	77.15	43.697	12.93	10.757	71.04	14.572	72.08
19.7	38.439 200	76.65 50	43.521 176	13.13 20	10.572 185	70.58 46	14.181 391	71.64 44
29.7	38.257 182	75.80 85	43.365 156	13.29 16	10.406 166	69.82 76	13.813 368	70.69 95
5 9.7	38.100 157	74.61 119	43.237 128	13.41 12	10.265 141	68.78 104	13.479 334	69.26 143
19.6	37.975 125	73.11 150	43.143 94	13.50 9	10.155 110	67.48 130	13.188 291	67.37 189
	89	178	56	9	76	152	241	229
29.6	37.886	71.33	43.087	13.59	10.079	65.96	12.947	65.08
6 8.6	37.835 51	69.32 201	43.070 17	13.67 8	10.041 38	64.23 173	12.763 184	62.43 265
18.6	37.823 12	67.10 222	43.095 25	13.75 8	10.040 1	62.34 189	12.640 123	59.50 293
28.5	37.850 27	64.76 234	43.159 64	13.84 9	10.076 36	60.34 200	12.580 60	56.35 315
7 8.5	37.916 66	62.34 242	43.260 101	13.94 10	10.149 73	58.28 206	12.585 5	53.07 328
	102	243	137	9	108	207	70	331
18.5	38.018	59.91	43.397	14.03	10.257	56.21	12.655	49.76
28.4	38.156 138	57.55 236	43.537 170	14.11 8	10.397 140	54.20 201	12.788 133	46.50 326
8 7.4	38.325 169	55.33 222	43.765 198	14.16 5	10.567 170	52.32 188	12.983 195	43.41 309
17.4	38.524 199	53.33 200	43.988 223	14.17 1	10.764 197	50.64 168	13.235 252	40.57 284
27.4	38.748 224	51.61 172	44.234 246	14.11 6	10.984 220	49.21 143	13.538 303	38.08 249
	248	135	266	13	242	111	350	204
9 6.3	38.996	50.26	44.500	13.98	11.226	48.10	13.888	36.04
16.3	39.263 267	49.33 93	44.782 282	13.75 23	11.485 259	47.36 74	14.275 387	34.53 151
26.3	39.545 282	48.87 46	45.077 295	13.43 32	11.759 274	47.03 33	14.692 417	33.60 93
10 6.3	39.838 293	48.89 2	45.383 306	13.01 42	12.043 284	47.14 11	15.129 437	33.31 29
16.2	40.138 300	49.42 53	45.696 313	12.50 51	12.334 291	47.68 54	15.574 445	33.67 36
	301	101	315	58	293	96	442	102
26.2	40.439	50.43	46.011	11.92	12.627	48.64	16.016	34.69
11 5.2	40.735 296	51.91 148	46.324 313	11.29 63	12.915 288	50.01 137	16.442 426	36.32 163
15.1	41.019 284	53.80 189	46.629 305	10.64 65	13.194 279	51.72 171	16.839 397	38.53 221
25.1	41.284 265	56.02 222	46.919 290	10.02 62	13.455 261	53.71 199	17.195 356	41.23 270
12 5.1	41.522 238	58.51 249	47.186 267	9.45 57	13.692 237	55.91 220	17.498 303	44.33 310
	203	265	236	48	205	233	239	339
15.1	41.725	61.16	47.422	8.97	13.897	58.24	17.737	47.72
25.0	41.887 162	63.88 272	47.620 198	8.60 37	14.063 166	60.60 236	17.905 168	51.28 356
35.0	42.003 116	66.59 271	47.774 154	8.37 23	14.185 122	62.94 234	17.994 89	54.90 362
平位	s 38.610	″ 55.64	s 43.717	″ 20.34	s 10.728	″ 51.70	s 14.527	″ 45.21
2回正中	1月6日		1月6日		1月6日		1月7日	
a b	+ 0.1250	+ 0.0077	+ 0.1776	− 0.0066	+ 0.1354	+ 0.0049	+ 0.0553	+ 0.0276
a′ b′	− 0.2615	− 0.9652	− 0.2619	− 0.9651	− 0.2638	− 0.9646	− 0.2725	− 0.9622
FK3番號	270		269		271		272	

星名	δ CMaj		63 Auri		I Pupp		64 Auri	
等級 スペクトル型	1.98	F8p	5.07	K2	4.47	F0	5.75	A3
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 7 6	° ′ −25 17	h m 7 7	° ′ +39 24	h m 7 10	° ′ −46 39	h m 7 14	° ′ +40 58
	s	″	s	″	s	″	s	″
1 0.0	5.497	72.07	45.073	45.78	57.857	53.10	5.419	61.64
9.9	5.583 86	74.86 279	45.222 149	46.76 98	57.923 69	56.56 346	5.578 159	62.69 105
19.9	5.617 34	77.51 265	45.309 87	46.76 111	57.929 3	59.89 333	5.674 96	63.88 119
29.9	5.598 19	79.94 243	45.331 22	47.87 118	57.866 63	63.01 312	5.704 30	65.16 128
2 8.9	5.528 70	82.09 215	45.291 40	49.05 120	57.742 124	65.83 282	5.670 34	66.45 129
	116	183	98	116	181	246	94	127
18.9	5.412	83.92	45.193	51.41	57.561	68.29	5.576	67.72
28.9	5.257 155	85.40 148	45.046 147	52.48 107	57.333 228	70.34 205	5.430 146	68.88 116
3 10.8	5.071 186	86.50 110	44.858 188	53.40 92	57.037 296	71.93 159	5.242 188	69.88 100
20.8	4.865 206	87.22 72	44.643 215	54.13 73	56.776 261	73.04 111	5.025 217	70.69 81
30.8	4.649 216	87.53 31	44.414 229	54.64 51	56.470 306	73.65 61	4.791 234	71.28 59
	217	7	230	28	308	12	236	33
4 9.8	4.432	87.46	44.184	54.92	56.162	73.77	4.555	71.61
19.7	4.224 208	87.00 46	43.965 219	54.96 4	55.863 299	73.38 39	4.329 226	71.69 8
29.7	4.034 190	86.16 84	43.769 196	54.77 19	55.583 280	72.52 86	4.125 204	71.52 17
5 9.7	3.870 164	84.97 119	43.605 164	54.38 39	55.331 252	71.19 133	3.952 173	71.13 39
19.6	3.736 134	83.46 151	43.480 125	53.81 57	55.114 217	69.44 175	3.819 133	70.53 60
	98	181	80	73	176	214	89	77
29.6	3.638	81.65	43.400	53.08	54.938	67.30	3.730	69.76
6 8.6	3.577 61	79.58 207	43.367 33	52.23 85	54.808 130	64.81 249	3.689 41	68.86 90
18.6	3.553 21	77.31 227	43.384 17	51.30 93	54.727 81	62.05 276	3.697 8	67.86 100
28.5	3.574 18	74.89 242	43.447 63	50.31 99	54.696 31	59.09 296	3.754 57	66.78 108
7 8.5	3.632 58	72.38 251	43.558 111	49.29 102	54.716 20	55.99 310	3.858 104	65.66 112
	95	251	153	102	71	314	148	113
18.5	3.727	69.87	43.711	48.27	54.787	52.85	4.006	64.53
28.5	3.859 132	67.41 246	43.904 193	47.25 101	54.907 120	49.77 308	4.195 189	63.40 113
8 7.4	4.023 164	65.09 232	44.134 230	46.28 98	55.075 168	46.82 295	4.422 227	62.30 110
17.4	4.218 195	62.99 210	44.395 261	45.34 94	55.287 212	44.12 270	4.682 260	61.24 106
27.4	4.440 222	61.18 181	44.685 290	44.44 90	55.539 252	41.75 237	4.972 290	60.22 102
	247	144	315	84	289	194	316	95
9 6.3	4.687	59.74	45.000	43.60	55.828	39.81	5.288	59.27
16.3	4.954 267	58.73 101	45.335 335	42.82 78	56.147 319	38.36 145	5.625 338	58.39 88
26.3	5.239 285	58.20 53	45.687 352	42.12 70	56.491 344	37.47 89	5.983 357	57.59 80
10 6.3	5.535 296	58.17 3	46.053 366	41.50 62	56.852 361	37.19 28	6.355 372	56.90 69
16.2	5.839 304	58.66 49	46.428 375	40.99 51	57.223 371	37.53 34	6.738 383	56.32 58
	307	100	380	39	372	97	388	44
26.2	6.146	59.66	46.808	40.60	57.595	38.50	7.126	55.88
11 5.2	6.447 301	61.15 149	47.185 377	40.36 24	57.958 363	40.06 156	7.513 387	55.60 28
15.2	6.737 290	63.06 191	47.552 367	40.28 8	58.302 344	42.17 211	7.891 378	55.51 9
25.1	7.007 270	65.33 227	47.903 351	40.40 12	58.618 316	44.76 259	8.253 362	55.62 11
12 5.1	7.251 244	67.89 256	48.226 323	40.71 31	58.895 277	47.73 297	8.588 335	55.95 33
	209	274	288	51	228	324	300	56
15.1	7.460	70.63	48.514	41.22	59.123	50.97	8.888	56.51
25.0	7.627 167	73.46 283	48.756 242	41.94 72	59.296 173	54.38 341	9.141 253	57.28 77
35.0	7.746 119	76.28 282	48.945 189	42.84 90	59.407 111	57.85 347	9.341 200	58.24 96
平位	4.363	65.34	44.219	55.67	56.037	47.92	4.563	71.77
2回正中	1月7日		1月8日		1月9日		1月9日	
a b	+0.1217	+0.0094	+0.2057	−0.0160	+0.0360	+0.0215	+0.2082	−0.0184
a′ b′	−0.2843	−0.9537	−0.2913	−0.9566	−0.3046	−0.9525	−0.3176	−0.9482
FK3番號	273		274		275		276	

星名	λ Gemi		π Pupp		δ Gemi		δ Voln	
等級 スペクトル型	3.65	A2	2.74	K5	3.51	F0	4.02	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 14	° ′ +16 38	h m 7 15	° ′ −36 59	h m 7 16	° ′ +22 5	h m 7 16	° ′ −67 50
	s	″	s	″	s	″	s	″
1 0.0	49.771	32.51	9.145	43.72	43.893	11.07	55.859	73.88
10.0	49.902 131	32.05 46	9.231 86	46.92 320	44.034 138	10.94 13	55.894 35	77.58 370
19.9	49.981 79	31.73 32	9.260 29	50.01 309	44.119 85	10.96 2	55.813 81	81.20 362
29.9	50.009 28	31.56 17	9.230 30	52.88 287	44.150 31	11.12 16	55.621 192	84.64 344
2 8.9	49.984 25	31.52 4	9.144 86	55.47 259	44.128 22	11.39 27	55.325 296	87.80 316
	72	7	136	225	72	34	390	282
18.9	49.912	31.59	9.008	57.72	44.055	11.73	54.935	90.62
28.9	49.799 113	31.75 16	8.828 180	59.57 185	43.942 114	12.13 40	54.467 468	93.01 239
3 10.8	49.653 146	31.97 22	8.615 213	61.01 144	43.792 150	12.54 41	53.937 530	94.94 193
20.8	49.484 169	32.23 26	8.377 238	62.01 100	43.619 173	12.94 40	53.361 576	95.37 143
30.8	49.302 182	32.50 27	8.127 250	62.55 54	43.432 187	13.30 36	52.759 602	97.28 91
	183	28	253	9	189	31	613	37
4 9.8	49.119	32.78	7.874	62.64	43.243	13.61	52.146	97.65
19.7	48.945 174	33.06 28	7.629 245	62.27 37	43.033 180	13.86 25	51.543 603	97.48 17
29.7	48.788 157	33.32 26	7.401 228	61.47 80	42.901 162	14.04 18	50.935 578	96.79 69
5 9.7	48.657 131	33.59 27	7.198 203	60.24 123	42.765 136	14.17 13	50.425 540	95.58 121
19.7	48.557 100	33.85 26	7.026 172	58.63 161	42.661 104	14.25 8	49.940 485	93.89 169
	65	27	136	197	69	5	421	212
29.6	48.492	34.12	6.890	56.66	42.592	14.30	49.519	91.77
6 8.6	48.465 27	34.40 28	6.795 95	54.38 228	42.563 29	14.31 1	49.173 346	89.25 252
18.6	48.475 10	34.69 29	6.742 53	51.85 253	42.573 10	14.31 0	48.910 263	86.40 285
28.5	48.524 49	34.98 29	6.732 10	49.14 271	42.622 49	14.29 2	48.736 174	83.30 310
7 8.5	48.609 85	35.27 29	6.766 34	46.30 284	42.709 87	14.27 2	48.656 80	80.02 328
	120	29	77	288	123	5	15	335
18.5	48.729	35.56	6.843	43.42	42.832	14.22	48.671	76.67
28.5	48.880 151	35.81 25	6.961 118	40.60 282	42.988 156	14.16 6	48.783 112	73.33 334
8 7.4	49.060 180	36.02 21	7.118 157	37.91 269	43.174 186	14.05 11	48.938 205	70.11 322
17.4	49.237 207	36.16 14	7.312 194	35.44 247	43.386 212	13.91 14	49.284 296	67.11 300
27.4	49.493 229	36.20 4	7.539 227	33.29 215	43.622 236	13.70 21	49.663 379	64.43 268
	250	6	257	176	258	29	454	225
9 6.4	49.746	36.14	7.795	31.53	43.880	13.41	50.117	62.18
16.3	50.014 268	35.94 20	8.079 283	30.24 129	44.157 277	13.04 37	50.634 517	60.43 175
26.3	50.297 283	35.61 33	8.384 305	29.46 78	44.449 292	12.58 46	51.201 567	59.26 117
10 6.3	50.592 295	35.14 47	8.704 320	29.26 20	44.755 306	12.04 54	51.803 602	58.71 55
16.2	50.897 305	34.54 60	9.034 330	29.63 37	45.070 315	11.42 62	52.422 619	58.83 12
	309	72	333	96	320	68	617	79
23.2	51.206	33.82	9.367	30.59	45.390	10.74	53.039	59.62
11 5.2	51.516 310	33.01 81	9.695 328	32.09 150	45.711 321	10.03 71	53.634 595	61.05 143
15.2	51.820 304	32.14 87	10.010 315	34.10 201	46.027 316	9.32 71	54.188 554	63.09 204
25.1	52.111 291	31.27 87	10.303 293	36.55 245	46.329 302	8.65 67	54.681 493	65.66 257
12 5.1	52.382 271	30.42 85	10.565 262	39.35 280	46.611 282	8.05 60	55.093 415	68.67 301
	242	77	223	304	252	49	323	335
15.1	52.624	29.65	10.788	42.39	46.863	7.56	55.419	72.02
25.0	52.829 205	28.98 67	10.954 176	45.57 318	47.078 215	7.21 35	55.637 218	75.60 358
35.0	52.992 163	28.44 54	11.087 133	48.79 322	47.250 172	7.00 21	55.743 106	79.28 368
平位	49.030	41.52	7.723	38.30	43.185	20.39	51.860	70.41
2回正中	1月10日		1月10日		1月10日		1月10日	
a b	+0.1722	−0.0034	+0.1038	+0.0162	+0.1789	−0.0089	−0.0013	+0.0539
a′ b′	−0.3207	−0.9472	−0.3220	−0.9468	−0.3285	−0.9445	−0.3291	−0.9443
FK3番號	277		278		279		281	

星名	19 Lync *sq*		*η* CMaj		*ε* Gemi		*β* CMin	
等級	5.61		2.43		3.89		3.09	
スペクトル型	B8		B5*p*		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 s 7 18	° ′ ″ +55 23	h m s 7 21	° ′ ″ −29 11	h m s 7 22	° ′ ″ +27 54	h m s 7 24	° ′ ″ +8 24
1 0.0	14.571 198	17.22 186	51.557 102	32.27 295	12.003 150	37.47 22	4.295 132	12.24 101
10.0	14.769 116	19.08 199	51.659 47	35.22 282	12.156 95	37.69 37	4.427 83	11.23 85
19.9	14.885 31	21.07 204	51.706 7	38.04 262	12.251 39	38.03 50	4.510 32	10.38 68
29.9	14.916 54	23.11 202	51.699 61	40.66 236	12.290 18	38.56 60	4.542 18	9.70 52
2 8.9	14.862 132	25.13 189	51.638 108	43.02 204	12.272 70	39.16 65	4.524 65	9.18 34
18.9	14.730 200	27.02 171	51.530 150	45.06 168	12.202 116	39.81 66	4.459 104	8.84 20
28.9	14.530 256	28.73 143	51.380 183	46.74 130	12.086 153	40.47 63	4.355 139	8.64 6
3 10.8	14.274 295	30.16 112	51.197 207	48.04 90	11.933 180	41.10 56	4.216 161	8.58 6
20.8	13.979 319	31.28 75	50.990 220	48.94 49	11.753 194	41.66 47	4.055 174	8.64 15
30.8	13.660 324	32.03 37	50.770 223	49.43 8	11.559 198	42.13 36	3.881 178	8.79 25
4 9.8	13.336	32.40 2	50.547 216	49.51 33	11.361 190	42.49 24	3.703 170	9.04 33
19.7	13.022 314	32.38 39	50.331 202	49.18 72	11.171 190	42.73 11	3.533 155	9.37 40
29.7	12.735 287	31.99 74	50.129 178	48.46 109	10.999 172	42.84 0	3.378 133	9.77 47
5 9.7	12.486 249	31.25 106	49.951 149	47.37 145	10.852 147	42.84 11	3.245 103	10.24 54
19.7	12.287 199 142	30.19 132	49.802 116	45.92 177	10.739 113 77	42.73 19	3.142 71	10.78 60
29.6	12.145 81	28.87 155	49.686 79	44.15 204	10.662 36	42.54 26	3.071 36	11.38 65
6 8.6	12.064 17	27.32 171	49.607 41	42.11 228	10.626 5	42.28 31	3.035 0	12.03 70
18.6	12.047 49	25.61 182	49.566 1	39.83 244	10.631 45	41.97 35	3.035 37	12.73 74
28.5	12.096 111	23.79 190	49.535 38	37.39 256	10.676 85	41.62 39	3.072 71	13.47 74
7 8.5	12.207 172	21.89 190	49.603 77	34.83 259	10.761 123	41.23 40	3.143 104	14.21 74
18.5	12.379 228	19.99 189	49.680 114	32.24 255	10.884 158	40.83 43	3.247 135	14.95 70
28.5	12.607 280	18.10 183	49.794 149	29.69 243	11.042 189	40.40 45	3.382 164	15.65 62
8 7.4	12.887 326	16.27 173	49.943 182	27.26 222	11.231 218	39.95 48	3.546 189	16.27 53
17.4	13.213 368	14.54 161	50.125 211	25.04 194	11.449 243	39.47 51	3.735 212	16.80 38
27.4	13.581 405	12.93 145	50.336 240	23.10 158	11.692 266	38.96 55	3.947 235	17.18 22
9 6.4	13.986 436	11.48 127	50.576 262	21.52 115	11.958 287	38.41 58	4.182 252	17.40 3
16.3	14.422 462	10.21 107	50.838 283	20.37 67	12.245 304	37.83 63	4.434 269	17.43 19
26.3	14.884 482	9.14 85	51.121 299	19.70 15	12.549 318	37.20 65	4.703 283	17.24 41
10 6.3	15.366 496	8.29 58	51.420 309	19.55 39	12.867 329	36.55 67	4.986 293	16.83 62
16.2	15.862 503	7.71 32	51.729 314	19.94 92	13.195 336	35.88 67	5.279 299	16.21 83
26.2	16.365 501	7.39 1	52.043 312	20.86 143	13.532 337	35.21 64	5.578 301	15.38 100
11 5.2	16.866 488	7.38 29	52.355 302	22.29 188	13.869 332	34.57 57	5.879 296	14.38 114
15.2	17.354 465	7.67 62	52.657 285	24.17 229	14.201 319	34.00 49	6.175 285	13.24 123
25.1	17.819 429	8.29 94	52.942 259	26.46 260	14.520 299	33.51 36	6.460 266	12.01 126
12 5.1	18.248 382	9.23 125	53.201 225	29.06 281	14.819 268	33.15 21	6.726 239	10.75 125
15.1	18.630 321	10.48 152	53.426 182	31.87 295	15.087 231	32.94 4	6.935 204	9.50 119
25.1	18.951 251	12.00 176	53.608 135	34.82 296	15.318 185	32.90 12	7.169 164	8.31 107
35.0	19.202	13.76	53.743	37.78	15.503	33.02	7.333	7.24
平位	13.388	27.94	50.360	26.80	11.289	47.18	3.579	20.62
2回正中	1月10日		1月11日		1月11日		1月12日	
a b	+ 0.2444	− 0.0323	+ 0.1184	+ 0.0130	+ 0.1864	− 0.0124	+ 0.1625	− 0.0035
a′ b′	− 0.3347	− 0.9423	− 0.3496	− 0.9369	− 0.3510	− 0.9364	− 0.3585	− 0.9335
FK3番號	280		283		282		285	

星名	Grb 1308 Caml		*ρ* Gemi		*α* Gemi *cg*		108 G. Pupp	
等級	5.80		4.18		1.99 2.85		4.52	
スペクトル型	K0		F0		A0 A0		F8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 7 24	° ′ ″ +68 34	h m s 7 25	° ′ ″ +31 53	h m s 7 30	° ′ ″ +22 0	h m s 7 31	° ′ ″ −22 10
1 0.0	59.940 282	54.85 248	27.559 160	48.49 46	58.591 165	45.33 44	37.712 116	24.20 268
10.0	60.222 158	57.34 260	27.719 102	48.95 62	58.756 108	45.77 61	37.828 66	26.88 255
19.9	60.380 29	59.94 265	27.821 44	49.57 75	58.864 49	46.38 74	37.894 13	29.43 236
29.9	60.409 99	62.59 258	27.865 15	50.32 83	58.913 10	47.12 83	37.907 38	31.79 212
2 8.9	60.310 218	65.17 241	27.850 70	51.15 86	58.903 65	47.95 87	37.869 86	33.91 182
18.9	60.092	67.58 214	27.780 118	52.01 86	58.838 114	48.82 87	37.783 127	35.73 150
28.9	59.770 322	69.72 179	27.662 157	52.87 78	58.724 154	49.69 81	37.656 160	37.23 116
3 10.8	59.362 408	71.51 139	27.505 185	53.65 69	58.570 183	50.50 72	37.496 185	38.39 80
20.8	58.889 473	72.90 92	27.320 201	54.34 56	58.387 200	51.22 58	37.311 198	39.19 44
30.8	58.377 512 526	73.82 43	27.119 206	54.90 40	58.187 206	51.80 43	37.113 204	39.63 8
4 9.8	57.851	74.25 7	26.913 198	55.30 24	57.981 199	52.23 26	36.909 198	39.71 28
19.7	57.336 515	74.18 54	26.715 180	55.54 7	57.782 183	52.49 10	36.711 184	39.43 62
29.7	56.855 481	73.64 99	26.535 155	55.61 8	57.599 158	52.59 6	36.527 164	38.81 95
5 9.7	56.427 428	72.65 140	26.380 120	55.53 22	57.441 125	52.53 20	36.363 137	37.86 126
19.7	56.070 357 274	71.25 174	26.260 83	55.31 33	57.316 88	52.33 34	36.226 106	36.60 154
29.6	55.796 182	69.51 204	26.177 41	54.98 44	57.228 47	51.99 44	36.120 72	35.06 179
6 8.6	55.614 84	67.47 225	26.136 1	54.54 51	57.181 5	51.55 52	36.048 35	33.27 200
18.6	55.530 15	65.22 241	26.137 44	54.03 58	57.176 37	51.03 59	36.013 0	31.27 215
28.5	55.545 114	62.81 250	26.181 84	53.45 61	57.213 79	50.44 63	36.013 38	29.12 225
7 8.5	55.659 210	60.31 253	26.255 124	52.84 64	57.292 117	49.81 67	36.051 73	26.87 228
18.5	55.869 301	57.78 250	26.389 161	52.20 67	57.409 154	49.14 71	36.124 108	24.59 225
28.5	56.170 386	55.28 241	26.550 193	51.53 67	57.563 187	48.43 71	36.232 140	22.34 225
8 7.4	56.556 463	52.87 227	26.743 224	50.85 68	57.750 218	47.70 73	36.372 171	20.19 215
17.4	57.019 532	50.60 210	26.937 250	50.16 69	57.968 244	46.96 74	36.543 199	18.23 196
27.4	57.551 595	48.50 188	27.217 276	49.46 70 72	58.212 271	46.21 75 77	36.742 225	16.52 171 138
9 6.4	58.146 646	46.62 161	27.493 296	48.74 73	58.483 292	45.44 79	36.967 247	15.14 100
16.3	58.792 690	45.01 133	27.789 315	48.01 73	58.775 312	44.65 78	37.214 268	14.14 56
26.3	59.482 723	43.68 99	28.104 330	47.28 73	59.087 328	43.87 80	37.482 285	13.58 9
10 6.3	60.205 745	42.69 63	28.434 342	46.56 72	59.415 341	43.07 75	37.767 296	13.49 40
16.2	60.950 755	42.06 26	28.776 350	45.86 70 65	59.756 349	42.32 71	38.063 303	13.89 88
26.2	61.705	41.80 15	29.123 351	45.21 58	60.105 352	41.61 64	38.366 304	14.77 134
11 5.2	62.454 749	41.95 57	29.477 346	44.63 48	60.457 348	40.97 54	38.670 298	16.11 176
15.2	63.184 730	42.52 98	29.823 333	44.15 35	60.805 335	40.43 40	38.968 283	17.87 211
25.1	63.876 692	43.50 138	30.156 313	43.80 19	61.140 316	40.03 25	39.251 262	19.98 239
12 5.1	64.512 636 562	44.88 176	30.469 281	43.61 1	61.456 287	39.78 5	39.513 231	22.37 259
15.1	65.074 469	46.64 209	30.750 243	43.60 17	61.743 247	39.73 14	39.744 193	24.96 268
25.1	65.543 362	48.73 236	30.993 195	43.77 37	61.990 201	39.87 34	39.937 149	27.64 270
35.0	65.905	51.09	31.188	44.14	62.191	40.21	40.086	30.34
平位	57.966	66.13	26.829	58.48	57.861	54.46	36.673	18.77
2回正中	1月12日		1月12日		1月14日		1月14日	
a b	+ 0.3118	− 0.0616	+ 0.1920	− 0.0151	+ 0.1918	− 0.0161	+ 0.1283	+ 0.0106
a′ b′	− 0.3623	− 0.9321	− 0.3643	− 0.9313	− 0.3866	− 0.9223	− 0.3892	− 0.9212
FK3番號	284		286		287		288	

星名	25 Mono		127 G. Pupp		α CMin cg		24 Lync	
等級	5.17		4.62		0.48		4.96	
スペクトル型	F5		B8		F5		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 34	° ′ − 3 58	h m 7 35	° ′ − 34 50	h m 7 36	° ′ + 5 22	h m 7 38	° ′ + 58 50
	s	″	s	″	s	″	s	″
1 0.0	27.391 132	63.50 176	16.798 112	24.97 318	19.858 137	11.98 125	12.877 246	34.10 196
10.0	27.523 84	65.23 162	16.910 56	28.15 308	19.995 88	10.73 109	13.123 158	36.06 212
19.9	27.607 34	66.88 144	16.936 1	31.23 290	20.083 37	9.64 91	13.281 64	38.18 222
29.9	27.641 16	68.22 122	16.935 59	34.13 264	20.120 13	8.73 72	13.345 29	40.40 222
2 8.9	27.625 62	69.54 99	16.903 109	36.77 233	20.107 59	8.01 53	13.316 116	42.62 214
18.9	27.563 103	70.53 76	16.797 154	39.10 196	20.048 100	7.48 35	13.200 195	44.76 195
28.9	27.460 135	71.29 54	16.643 191	41.06 156	19.948 134	7.13 19	13.005 261	46.71 170
3 10.9	27.325 160	71.83 30	16.452 218	42.62 115	19.814 159	6.94 4	12.744 310	48.41 138
20.8	27.165 178	72.13 9	16.234 234	43.77 71	19.655 173	6.90 9	12.434 342	49.79 100
30.8	26.992	72.22 13	16.000 239	44.48 26	19.482 176	6.99 22	12.092 355	50.79 60
4 9.8	26.814 174	72.09 32	15.761 236	44.74 17	19.306 171	7.21 32	11.737 351	51.39 17
19.7	26.640 159	71.77 51	15.525 222	44.57 60	19.135 159	7.53 42	11.386 329	51.56 24
29.7	26.481 140	71.26 70	15.303 202	43.97 101	18.976 136	7.95 50	11.057 294	51.32 63
5 9.7	26.341 113	70.56 86	15.101 174	42.96 141	18.840 109	8.45 60	10.763 245	50.69 99
19.7	26.228 83	69.70 102	14.927 141	41.55 176	18.731 78	9.05 68	10.518 189	49.70 132
29.6	26.145	68.68 115	14.786 105	39.79 208	18.653	9.73	10.329 125	48.38 158
6 8.6	26.095 50	67.53 127	14.681 66	37.71 234	18.609 44	10.48 75	10.204 57	46.80 180
18.6	26.079 16	66.26 135	14.615 25	35.37 255	18.599 10	11.28 80	10.147 11	45.00 196
28.6	26.098 19	64.91 139	14.590 16	32.82 269	18.624 25	12.11 83	10.158 79	43.04 208
7 8.5	26.151 53	63.52 140	14.606 56	30.13 275	18.684 60	12.97 86	10.237 147	40.96 213
18.5	26.236	62.12 135	14.662	27.38 273	18.777 122	13.81 80	10.384 209	38.83 215
28.5	26.352 116	60.77 127	14.759 97	24.65 263	18.899 152	14.61 72	10.593 268	36.68 211
8 7.4	26.498 146	59.50 113	14.894 135	22.02 244	19.051 178	15.33 60	10.861 321	34.57 203
17.4	26.669 171	58.37 94	15.065 171	19.58 216	19.229 203	15.93 45	11.182 371	32.54 192
27.4	26.865 197	57.43 70	15.270 205	17.42 179	19.432 224	16.38 26	11.553 415	30.62 178
9 6.4	27.086	56.73 42	15.503	15.63 136	19.656	16.64 5	11.938	28.84 159
16.3	27.325 239	56.31 10	15.771 265	14.27 87	19.899 243	16.69 19	12.421 453	27.25 138
26.3	27.583 258	56.21 22	16.060 289	13.40 32	20.160 261	16.50 44	12.908 487	25.87 114
10 6.3	27.857 274	56.43 57	16.368 308	13.08 24	20.436 276	16.06 69	13.423 515	24.73 86
16.3	28.142 285	57.00 88	16.690 322	13.32 81	20.724 288	15.37 92	13.957 534	23.87 56
	292		329		295		547	
26.2	28.434	57.88 120	17.019	14.13 137	21.019 297	14.45 113	14.504 550	23.31 23
11 5.2	28.730 296	59.08 144	17.348 329	15.50 187	21.316 295	13.32 129	15.054 541	23.08 12
15.2	29.022 292	60.52 166	17.668 320	17.37 231	21.611 286	12.03 141	15.595 521	23.20 49
25.1	29.303 281	62.18 179	17.972 304	19.68 268	21.897 267	10.62 147	16.116 487	23.69 85
12 5.1	29.537 264	63.97 187	18.249 277	22.36 295	22.164 241	9.15 147	16.603 439	24.54 121
	237		241					
15.1	29.804	65.84 188	18.490	25.31	22.405	7.68	17.042	25.75
25.1	30.007 203	67.72 181	18.688 198	28.42 311	22.612 207	6.26 142	17.419 377	27.28 153
35.0	30.170 163	69.53	18.835 147	31.60 318	22.780 168	4.94 132	17.722 303	29.10 182
平位	s 23.603	″ 56.46	s 15.452	″ 20.97	s 19.130	″ 21.15	s 11.666	″ 45.80
2回正中	1月15日		1月15日		1月15日		1月16日	
a b	+ 0.1491	+ 0.0019	+ 0.1109	+ 0.0187	+ 0.1591	− 0.0026	+ 0.2536	− 0.0458
a′ b′	− 0.4005	− 0.9163	− 0.4038	− 0.9149	− 0.4080	− 0.9130	− 0.4155	− 0.9096
FK3番號	289		290		291		292	

星名	26 α Mono		x Gemi		β Gemi		ζ Voln	
等級	4.07		3.68		1.21		3.89	
スペクトル型	K0		G5		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 7 38	° ′ − 9 24	h m 7 40	° ′ + 24 31	h m 7 41	° ′ + 28 9	h m 7 42	° ′ − 72 27
	s	″	s	″	s	″	s	″
1 0.0	32.236 133	67.15 207	61.163 166	61.30 6	50.485 169	45.92 16	37.318 100	70.47
10.0	32.369 84	69.22 193	61.329 113	61.24 11	50.654 115	46.08 34	37.418 44	74.18 371
19.9	32.453 33	71.15 175	61.442 57	61.35 28	50.769 57	46.42 51	37.374 184	77.89 371
29.9	32.486 17	72.90 152	61.499 2	61.63 40	50.826 0	46.93 62	37.190 317	81.48 359
2 8.9	32.469 63	74.42 128	61.501 50	62.03 51	50.826 54	47.55 70	36.873 437	84.87 339 309
18.9	32.406 104	75.70 102	61.451 97	62.54 56	50.772 101	48.25 73	36.436 541	87.93
28.9	32.302 138	76.72 75	61.354 136	63.10 58	50.671 141	48.98 72	35.895 627	90.67 271
3 10.9	32.164 162	77.47 48	61.218 164	63.68 56	50.530 171	49.70 67	35.268 693	92.97 230
20.8	32.002 176	77.95 21	61.054 182	64.24 51	50.359 190	50.37 58	34.575 738	94.81 184
30.8	31.823 182	78.16 4	60.872 188	64.75 43	50.169 196	50.95 48	33.837 763	96.13 132 81
4 9.8	31.644 177	78.12 29	60.684 185	65.18 35	49.973 192	51.43 34	33.074 766	96.94 27
19.7	31.467 165	77.83 53	60.499 170	65.53 25	49.781 177	51.77 21	32.308 749	97.21 26
29.7	31.302 146	77.30 76	60.329 149	65.78 16	49.604 155	51.98 9	31.559 715	96.95 79
5 9.7	31.156 120	76.54 98	60.180 119	65.94 7	49.449 125	52.07 4	30.844 661	96.16 129
19.7	31.036 90	75.53 117	60.061 86	66.01 0	49.324 91	52.03 15	30.183 594	94.87 178
29.6	30.943	74.39 133	59.975	66.01 7	49.233	51.88 23	29.589	93.09
6 8.6	30.888 58	73.06 149	59.926 49	65.94 13	49.181 52	51.65 32	29.077 512	90.89 220
18.6	30.864 24	71.57 158	59.915 11	65.81 17	49.167 14	51.33 37	28.659 418	88.31 258
28.6	30.874 10	69.99 166	59.942 27	65.64 22	49.194 27	50.93 43	28.345 314	85.42 289
7 8.5	30.919 45	68.33 166	60.003 164	65.42 26	49.259 65	50.53 48	28.142 203	82.30 312
18.5	30.997	66.67 163	60.107	65.16 30	49.362	50.05 52	28.058	79.03
28.5	31.105 108	65.04 154	60.241 134	64.86 34	49.499 137	49.53 56	28.094 36	75.70 333
8 7.4	31.244 139	63.50 139	60.407 166	64.52 40	49.669 170	48.97 60	28.253 159	72.43 327
17.4	31.410 166	62.11 118	60.601 194	64.12 47	49.869 200	48.37 64	28.529 276	69.31 312
27.4	31.602 192	60.93 91	60.822 221	63.65 53	50.093 227	47.73 69	28.918 389	66.45 286
	216		245		252		494	249
9 6.4	31.818	60.02 60	61.037 267	63.12 61	50.348 274	47.04 74	29.412 584	63.96
16.3	32.055 237	59.42 25	61.334 487	62.51 68	50.622 295	46.30 79	29.996 661	61.92 204
26.3	32.311 256	59.17 12	61.621 287	61.83 76	50.917 311	45.51 82	30.657 718	60.42 150
10 6.3	32.584 273	59.29 51	61.924 303	61.07 81	51.228 326	44.69 83	31.375 753	59.52 90
16.3	32.869 285	59.80 89	62.241 317	60.26 84	51.554 335	43.86 83	32.128 764	59.27 25 41
	293		327					
26.2	33.162	60.69 124	62.568	59.42 85	51.889	43.03 80	32.892 750	59.68
11 5.2	33.459 297	61.93 155	62.900 332	58.57 82	52.229 340	42.23 73	33.642 709	60.76 168
15.2	33.752 293	63.48 180	63.230 330	57.75 76	52.567 338	41.50 63	34.351 644	62.47 171
25.1	34.035 283	65.28 200	63.551 321	56.99 65	52.893 329	40.87 49	34.995 556	64.75 228
12 5.1	34.299 264	67.28 211	63.854 303	56.34 50	53.207 311	40.38 33	35.551 446	67.53 278 318
	238		277		283			
15.1	34.537	69.39	64.131	55.84	53.490	40.05	35.997	70.71
25.1	34.740 203	71.54 215	64.373 242	55.49 35	53.738 248	39.91 14	36.319 322	74.18 347
35.0	34.903 163	73.65 211	64.572 199	55.33 16	53.941 203	39.97 6	36.504 185	77.83 365
平位	s 31.401	″ 60.81	s 60.505	″ 70.93	s 49.818	″ 55.83	s 32.111	″ 70.04
2回正中	1月16日		1月16日		1月16日		1月17日	
a b	+ 0.1433	+ 0.0046	+ 0.1809	− 0.0130	+ 0.1856	− 0.0153	− 0.0369	+ 0.0913
a′ b′	− 0.4168	− 0.9090	− 0.4236	− 0.9044	− 0.4299	− 0.9029	− 0.4326	− 0.9016
FK3番號	293		294		295		297	

星名		π Gemi		†9 Pupp *m*		213 G. Pupp		26 Lync	
等級	スペクトル型	5.29	K2	5.34	G0	3.76	G5	5.69	K0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 7 43	° ′ +33 33	h m 7 49	° ′ −13 44	h m 7 50	° ′ −40 25	h m 7 50	° ′ +47 42
		s	″	s	″	s	″	s	″
1	0.1	50.735 182	15.99 48	8.758 140	49.34 233	16.882 128	42.41 336	34.876 222	39.97 129
	10.0	50.917 125	16.47 67	8.898 91	51.67 220	17.010 68	45.77 331	35.098 154	41.26 150
	19.9	51.042 65	17.14 82	8.989 40	53.87 202	17.078 6	49.08 315	35.252 80	42.76 163
	29.9	51.107 4	17.96 94	9.029 11	55.89 180	17.084 54	52.23 292	35.332 6	44.39 172
2	8.9	51.111 53	18.90 98	9.018 58	57.69 153	17.030 109	55.15 261	35.338 63	46.11 170
	18.9	51.058	19.88	8.930	59.22	16.921	57.76	35.275	47.81
	28.9	50.955 103	20.87 99	8.860 100	60.48 126	16.762 159	60.01 225	35.148 127	49.44 163
3	10.9	50.808 147	21.80 93	8.724 136	61.44 96	16.563 199	61.86 185	34.968 180	50.91 147
	20.8	50.630 178	22.64 84	8.563 161	62.11 67	16.333 230	63.28 142	34.746 222	52.16 125
	30.8	50.432 198 207	23.33 69 53	8.386 177 184	62.47 36 8	16.083 250 260	64.25 97 50	34.498 248 261	53.15 99 69
4	9.8	50.225	23.86	8.202	62.55	15.823	64.75	34.237	53.84
	19.8	50.022 203	24.21 35	8.020 182	62.33 22	15.564 259	64.78 3	33.977 260	54.21 37
	29.7	49.833 189	24.38 17	7.848 172	61.85 48	15.316 248	64.36 42	33.732 245	54.25 4
5	9.7	49.667 166	24.36 2	7.695 153	61.09 76	15.087 229	63.49 87	33.513 219	53.98 27
	19.7	49.533 134 99	24.17 19 34	7.566 129 101	60.09 100 123	14.883 204 172	62.19 130 170	33.330 183 141	53.42 56 83
	29.6	49.434	23.83	7.465	58.86	14.711	60.49	33.189	52.59
6	8.6	49.375 59	23.36 47	7.395 70	57.43 143	14.575 136	58.45 204	33.096 93	51.53 106
	18.6	49.358 17	22.79 57	7.358 37	55.84 159	14.479 96	56.10 235	33.054 42	50.29 124
	28.6	49.382 24	22.12 67	7.355 3	54.11 173	14.424 55	53.50 260	33.062 8	48.88 141
7	8.5	49.447 65 105	21.38 74 79	7.386 31 64	52.30 181 184	14.413 11 31	50.73 277 287	33.123 61 109	47.37 151 160
	18.5	49.552	20.59	7.450	50.46	14.444	47.86	33.232	45.77
	28.5	49.694 142	19.75 84	7.546 96	48.65 181	14.519 75	44.98 288	33.389 157	44.13 164
8	7.5	49.871 177	18.89 86	7.673 127	46.92 173	14.637 118	42.18 280	33.590 201	42.48 165
	17.4	50.080 209	17.99 90	7.829 156	45.35 157	14.795 158	39.54 264	33.832 242	40.84 164
	27.4	50.317 237 265	17.08 91 92	8.011 182 209	43.99 136 108	14.992 197 234	37.17 237 202	34.112 280 315	39.25 159 153
9	6.4	50.582 289	16.16	8.220 231	42.91 75	15.226 267	35.15 159	34.427 345	37.72 145
	16.3	50.871 310	15.22 94	8.451 253	42.16 38	15.493 296	33.56 109	34.772 373	36.27 133
	26.3	51.181 329	14.28 94	8.704 271	41.78 3	15.789 320	32.47 53	35.145 397	34.94 118
10	6.3	51.510 344	13.36 92	8.975 285	41.81 45	16.109 338	31.94 5	35.542 416	33.76 102
	16.3	51.854 354	12.48 88 83	9.260 296	42.26 86	16.447 348	31.99 66	35.958 429	32.74 82
	26.2	52.208	11.65	9.556	43.12	16.795	32.65	36.387	31.92
	5.2	52.568 360	10.92 73	9.856 300	44.38 126	17.146 351	33.89 124	36.823 436	31.34 58
11	15.2	52.927 359	10.31 61	10.154 298	46.00 162	17.490 344	35.69 180	37.258 435	31.01 33
	25.2	53.275 348	9.85 46	10.442 288	47.91 191	17.818 328	37.97 228	37.681 423	30.97 4
12	5.1	53.606 331 301	9.57 28 7	10.713 271 245	50.05 214 229	18.118 300 264	40.67 270 301	38.082 401 367	31.24 27 57
	15.1	53.907	9.50	10.958	52.34	18.382	43.68	38.449	31.81
	25.1	54.172 265	9.65 15	11.170 212	54.71 237	18.600 218	46.91 323	38.770 321	32.68 87
	35.0	54.390 218	10.02 37	11.340 170	57.07 236	18.766 166	50.25 334	39.036 266	33.83 115
平位		s 50.050	″ 26.41	s 7.881	″ 44.00	s 15.354	″ 40.19	s 34.054	″ 51.58
2回正中		1月17日		1月18日		1月19日		1月19日	
a	b	+ 0.1931	− 0.0194	+ 0.1388	+ 0.0075	+ 0.1030	+ 0.0263	+ 0.2183	− 0.0340
a′	b′	− 0.4377	− 0.8991	− 0.4584	− 0.8888	− 0.4627	− 0.8865	− 0.4640	− 0.8859
FK3番號		296		298		301		299	

星名		Grb 1374Caml		χ Cari		53 Caml		27 Mono	
等級	スペクトル型	5.55	K0	3.60	B3	6.00	A2p	5.03	K0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 7 53	° ′ +74 3	h m 7 55	° ′ −52 49	h m 7 53	° ′ +60 28	h m 7 53	° ′ − 3 31
		s	″	s	″	s	″	s	″
1	0.1	27.182	71.49	21.905	43.49	52.185	44.44	53.993	28.54
	10.0	27.624 442	74.04 255	22.038 133	47.12 363	52.474 289	46.36 192	54.147 154	30.34 180
	20.0	27.905 281	76.80 276	22.096 58	50.74 362	52.672 198	48.52 216	54.253 106	31.99 165
	29.9	28.019 114	79.66 285	22.080 16	54.22 348	52.773 101	50.80 228	54.309 56	33.46 147
2	8.9	27.933 219	82.51 273	21.991 89 157	57.49 327 298	52.776 3 92	53.14 234 228	54.315 6 43	34.72 126 104
	18.9	27.744	85.24	21.834	60.47	52.684	55.42	54.272	35.76
	28.9	27.380 364	87.74 250	21.618 216	63.08 261	52.508 176	57.55 213	54.188 84	36.55 79
3	10.9	26.888 492	89.92 218	21.353 265	65.27 219	52.257 251	59.45 190	54.068 120	37.12 57
	20.8	26.297 591	91.68 176	21.050 303	67.01 174	51.950 307	61.04 159	53.921 147	37.46 34
	30.8	25.636 661 699	92.93 130 78	20.721 329 343	68.27 126 75	51.602 348 368	62.26 122 82	53.757 164 173	37.59 13 8
4	9.8	24.937	93.76	20.378	69.02	51.234	63.08	53.584	37.51
	19.8	24.233 704	94.01 25	20.034 344	69.25 23	50.864 370	63.46 38	53.413 171	37.24 27
	29.7	23.554 679	93.74 27	19.699 335	68.98 27	50.510 354	63.41 5	53.252 161	36.78 46
5	9.7	22.926 628	92.93 78	19.383 316	68.21 77	50.187 323	62.94 47	53.107 145	36.15 63
	19.7	22.375 551 456	91.71 125 167	19.093 287 252	65.95 126 170	49.908 279 224	62.07 87 122	52.986 121 94	35.36 79 94
	29.6	21.919	90.04	18.844	65.25	49.684	60.85	52.892	34.42
6	8.6	21.572 347	88.01 203	18.635 209	63.13 212	49.522 162	59.32 153	52.828 64	33.35 107
	18.6	21.346 226	85.69 232	18.472 163	60.67 246	49.423 99	57.53 179	52.796 32	32.17 118
	28.6	21.245 101	83.14 255	18.361 111	57.90 277	49.402 26	55.54 199	52.797 1	30.92 125
7	8.5	21.273 28 155	80.43 271 280	18.303 58 2	54.92 298 311	49.447 45 114	53.40 214 224	52.830 33 65	29.61 131 131
	18.5	21.423 280	77.63	18.301	51.81	49.531	51.16	52.895	28.30
	28.5	21.708 398	74.80 283	18.354 53	48.65 316	49.742 181	48.87 229	52.991 96	27.03 127
8	7.5	22.106 507	72.02 278	18.464 110	45.54 311	49.936 244	46.53 229	53.117 126	25.84 119
	17.4	22.613 610	69.33 269	18.629 165	42.59 295	50.288 302	44.34 224	53.269 152	24.78 106
	27.4	23.223 704	66.80 253 233	18.846 217 267	39.89 270 235	50.644 356 407	42.20 214 202	53.448 179 204	23.90 88 66
9	6.4	23.927	64.47	19.113	37.54	51.051	40.18	53.652	23.24
	16.3	24.710 783	62.39 208	19.423 310	35.64 190	51.501 450	38.33 185	53.878 226	22.86 38
	26.3	25.534 854	60.61 178	19.774 351	34.26 138	51.991 490	36.68 165	54.125 247	22.78 8
10	6.3	26.475 911	59.18 143	20.156 382	33.47 79	52.514 523	35.27 141	54.391 266	23.03 25
	16.3	27.428 953 979	58.12 106 65	20.561 405 417	33.30 17 47	53.034 550 568	34.15 112 82	54.672 281 292	23.60 57 90
	26.2	28.407	57.47	20.978	33.77	53.632	33.33	54.934	24.50
	5.2	29.394 987	57.23 19	21.398 420	34.89 112	54.203 576	32.87 46	55.233 299	25.71 121
11	15.2	30.366 972	57.54 26	21.807 409	36.62 173	54.781 578	32.77 10	55.562 329	27.16 145
	25.2	31.301 935	58.27 73	22.193 386	38.90 228	55.339 558	33.03 26	55.854 292	28.84 168
12	5.1	32.176 875 786	53.43 121 165	22.543 350 302	41.66 276 313	55.863 527 481	33.75 69 107	56.132 278 254	30.65 181 190
	15.1	32.932	61.13	22.845	44.79	53.347	34.82	56.386	32.55
	25.1	33.638 676	63.18 205	23.089 244	48.21 342	56.768 421	36.27 145	56.603 222	34.45 190
	35.0	34.180 542	65.57 239	23.266 177	51.78 357	57.114 346	38.04 177	56.792 184	36.31 186
平位		s 24.739	″ 84.27	s 19.724	″ 42.93	s 51.023	″ 53.93	s 53.253	″ 22.25
2回正中		1月19日		1月20日		1月20日		1月20日	
a	b	+ 0.3539	− 0.1109	+ 0.0763	+ 0.0424	+ 0.2561	− 0.0575	+ 0.1497	+ 0.0020
a′	b′	− 0.4749	− 0.8800	− 0.4822	− 0.8760	− 0.4881	− 0.8728	− 0.4882	− 0.8727
FK3番號		300		303		302		304	

星名	χ Gemi		ζ Pupp		27 Lync		ρ Pupp	
等級 スペクトル型	5.04	K0	2.27	Od	4.87	A2	2.88	F5
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 8 0	° ′ +27 57	h m 8 1	° ′ −39 50	h m 8 4	° ′ +51 39	h m 8 5	° ′ −24 8
	s	″	s	″	s	″	s	″
1 0.1	1.807	10.53	36.259	30.97	11.523	70.10	7.969	22.69
10.0	1.997 190	10.59 6	36.402 143	34.32 335	11.779 256	71.53 143	8.120 151	25.51 282
20.0	2.134 137	10.86 27	36.485 83	37.64 332	11.961 182	73.20 167	8.220 100	28.24 273
29.9	2.214 80	11.32 46	36.507 22	40.81 317	12.065 104	75.04 184	8.267 47	30.81 257
2 8.9	2.236 22	11.92 60	36.469 38	43.77 296	12.089 24	76.96 192	8.260 7	33.16 235
	33	72	95	267	53	193	57	208
18.9	2.203	12.64	36.374	46.44	12.036	78.89	8.203	35.24
28.9	2.120 83	13.41 77	36.230 144	48.77 233	11.913 123	80.75 186	8.101 102	37.01 177
3 10.9	1.995 125	14.19 78	36.044 186	50.70 193	11.730 183	82.44 169	7.962 139	38.44 143
20.8	1.838 157	14.94 75	35.825 219	52.21 151	11.500 230	83.91 147	7.794 168	39.52 108
30.8	1.659 179	15.61 67	35.584 241	53.28 107	11.236 264	85.09 118	7.606 188	40.23 71
	190	57	252	61	281	84	198	35
4 9.8	1.469	16.18	35.332	53.89	10.955	85.93	7.408	40.58
19.8	1.280 189	16.63 45	35.079 253	54.04 15	10.672 283	86.42 49	7.210 198	40.56 2
29.7	1.102 178	16.95 32	34.834 245	53.74 30	10.400 272	86.56 14	7.019 191	40.18 38
5 9.7	0.943 159	17.13 18	34.606 228	52.98 76	10.151 249	86.34 22	6.844 175	39.46 72
19.7	0.810 133	17.18 5	34.401 205	51.80 118	9.939 212	85.77 57	6.690 154	38.40 106
	101	7	176	157	171	86	127	136
29.7	0.709	17.11	34.225	50.23	9.768	84.91	6.553	37.04
6 8.6	0.643 66	16.93 18	34.083 142	48.29 194	9.646 122	83.76 115	6.466 97	35.41 163
18.6	0.615 28	16.66 27	33.980 103	46.03 226	9.577 69	82.39 137	6.401 65	33.55 186
28.6	0.624 9	16.30 36	33.915 65	43.53 250	9.552 15	80.82 157	6.370 31	31.49 206
7 8.5	0.671 47	15.86 44	33.893 22	40.83 270	9.602 40	79.10 172	6.374 4	29.30 219
	83	49	20	281	93	181	39	226
18.5	0.754	15.37	33.913	38.02	9.695	77.29	6.413	27.04
28.5	0.872 118	14.81 56	33.975 62	35.18 284	9.840 145	75.40 189	6.486 73	24.78 226
8 7.5	1.023 151	14.19 62	34.079 104	32.40 278	10.034 194	73.48 192	6.592 106	22.59 219
17.4	1.204 181	13.51 68	34.224 145	29.77 263	10.273 239	71.58 190	6.731 139	20.54 205
27.4	1.414 210	12.77 74	34.408 184	27.38 239	10.555 282	69.71 187	6.901 170	18.72 182
	237	80	221	205	322	180	200	152
9 6.4	1.651	11.97	34.629	25.33	10.877	67.91	7.101	17.20
16.4	1.912 261	11.11 86	34.885 256	23.69 164	11.234 357	66.21 170	7.328 227	16.03 117
26.3	2.196 284	10.19 92	35.172 287	22.54 115	11.624 390	64.64 157	7.580 252	15.29 74
10 6.3	2.500 304	9.23 96	35.484 312	21.93 61	12.042 418	63.24 140	7.855 275	15.02 27
16.3	2.821 321	8.24 99	35.817 333	21.90 3	12.484 442	62.04 120	8.147 292	15.24 22
	334	99	346	57	459	97	306	72
26.2	3.155	7.25	36.163	22.47	12.943	61.07	8.453	15.96
11 5.2	3.498 343	6.29 96	36.514 351	23.62 115	13.412 469	60.36 71	8.766 313	17.16 120
15.2	3.842 344	5.40 89	36.861 347	25.33 171	13.883 471	59.96 40	9.078 312	18.80 164
25.2	4.180 338	4.61 79	37.194 333	27.53 220	14.343 460	59.88 8	9.382 304	20.85 205
12 5.1	4.504 324	3.97 64	37.503 309	30.16 263	14.783 440	60.15 27	9.668 286	23.21 236
	299	47	275	296	406	61	260	261
15.1	4.803	3.50	37.778	33.12	15.189	60.76	9.928	25.82
25.1	5.069 266	3.23 27	38.007 229	36.32 320	15.548 359	61.72 96	10.152 224	28.58 276
35.1	5.292 223	3.17 6	38.187 180	39.64 332	15.849 301	62.99 127	10.335 183	31.39 281
平位	s 1.199	″ 20.61	s 34.770	″ 29.64	s 10.692	″ 82.41	s 6.937	″ 19.62
2回正中	1月21日		1月21日		1月22日		1月22日	
a b	+0.1840	−0.0177	+0.1053	+0.0281	+0.2253	−00.435	+0.1278	+0.0155
a′ b′	−0.5001	−0.8660	−0.5060	−0.8626	−0.5157	−0.8538	−0.5192	−0.8547
FK3番號	305		306		307		308	

星名	γ Velr		20 Pupp		Br 1147 Caml		β Cncr	
等級 スペクトル型	2.22	Oap	5.05	G5	5.73	G5	3.76	K2
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 8 7	° ′ −47 9	h m 8 10	° ′ −15 36	h m 8 12	° ′ +75 55	h m 8 13	° ′ +9 21
	s	″	s	″	s	″	s	″
1 0.1	48.318	63.86	43.578	59.03	28.544	49.06	26.099	37.75
10.0	48.470 152	67.39 353	43.739 161	61.48 245	29.099 555	51.55 249	26.278 179	36.64 111
20.0	48.555 85	70.92 353	43.850 111	63.82 234	29.479 380	54.31 276	26.411 133	35.70 94
29.9	48.572 17	74.33 341	43.911 61	66.00 218	29.673 194	57.21 290	26.492 81	34.97 73
2 8.9	48.523 49	77.53 320	43.920 9	67.95 195	29.676 3	60.16 295	26.522 30	34.43 54
	112	293	40	171	183	286	21	35
18.9	48.411	80.46	43.880	69.66	29.493	63.02	26.501	34.08
28.9	48.244 167	83.05 259	43.796 84	71.08 142	29.139 354	65.70 268	26.436 65	33.91 17
3 10.9	48.030 214	85.24 219	43.675 121	72.20 112	28.634 505	68.07 237	26.332 104	33.90 1
20.9	47.780 250	87.00 176	43.525 150	73.02 82	28.007 627	70.06 199	26.197 135	34.01 11
30.8	47.504 276	88.29 129	43.355 170	73.53 51	27.288 719	71.60 154	26.043 154	34.24 23
	291	81	180	20	775	102	166	31
4 9.8	47.213	89.10	43.175	73.73	26.513	72.62	25.877	34.55
19.8	46.919 294	89.42 32	42.994 181	73.64 9	25.717 796	73.11 49	25.710 167	34.93 38
29.7	46.632 287	89.25 17	42.820 174	73.26 38	24.925 782	73.06 5	25.551 159	35.37 44
5 9.7	46.360 272	88.60 65	42.661 159	72.59 67	24.196 739	72.48 58	25.406 145	35.85 48
19.7	46.112 248	87.49 111	42.522 139	71.66 93	23.531 665	71.40 108	25.283 123	36.37 52
	217	156	114	116	570	153	97	55
29.7	45.895	85.93	42.408	70.50	22.961	69.87	25.186	36.92
6 8.6	45.713 182	83.98 195	42.323 85	69.11 139	22.505 456	67.93 194	25.118 68	37.50 58
18.6	45.572 141	81.67 231	42.269 54	67.54 157	22.176 329	65.66 227	25.082 36	38.09 59
28.6	45.474 98	79.08 259	42.247 22	65.82 172	21.984 192	63.12 254	25.078 4	38.69 60
7 8.6	45.423 51	76.26 282	42.257 10	64.00 182	21.932 52	60.37 275	25.105 27	39.28 59
	3	295	42	187	91	287	59	55
18.5	45.420	73.31	42.299	62.13	22.023	57.50	25.164	39.83
28.5	45.465 45	70.29 302	42.374 75	60.27 186	22.254 231	54.53 294	25.254 90	40.33 50
8 7.5	45.558 93	67.31 298	42.479 105	58.48 179	22.621 367	51.61 295	25.373 119	40.75 42
17.4	45.700 142	64.47 284	42.615 136	56.83 165	23.116 495	48.74 287	25.520 147	41.07 32
27.4	45.888 188	61.85 262	42.779 164	55.38 145	23.731 615	45.99 275	25.693 173	41.24 17
	232	228	192	118	727	258	198	1
9 6.4	46.120	59.57	42.971	54.20	24.458	43.41	25.891	41.25
16.4	46.392 272	57.70 187	43.188 217	53.35 85	25.283 825	41.07 234	26.114 223	41.07 18
26.3	46.702 310	55.34 136	43.430 242	52.87 48	26.196 913	39.02 205	26.359 245	40.68 39
10 6.3	47.042 340	55.53 81	43.693 263	52.79 8	27.184 988	37.30 172	26.624 265	40.07 61
16.3	47.406 364	55.32 21	43.975 282	53.15 36	28.228 1044	35.95 135	26.908 284	39.26 81
	380	42	295	79	1085	93	298	101
26.3	47.786	55.74	44.270	53.94	29.313	35.02	27.206	38.25
11 5.2	48.171 385	56.78 104	44.574 304	55.14 120	30.416 1103	34.55 47	27.513 307	37.06 119
15.2	48.552 381	58.42 164	44.879 305	56.72 158	31.515 1099	34.56 1	27.824 311	35.75 131
25.2	48.917 365	60.60 218	45.178 299	58.63 191	32.583 1068	35.06 50	28.132 308	34.34 141
12 5.1	49.254 337	63.25 265	45.463 285	60.79 216	33.593 1010	36.06 100	28.428 296	32.91 143
	298	303	261	235	923	147	276	140
15.1	49.552	66.28	45.724	63.14	34.516	37.53	28.704	31.51
25.1	49.801 249	69.59 331	45.954 230	65.59 245	35.322 806	39.45 192	28.950 246	30.18 133
35.1	49.992 191	73.06 347	46.144 190	68.05 246	35.987 665	41.76 231	29.160 210	28.98 120
平位	s 46.508	″ 63.94	s 42.714	″ 55.07	s 26.060	″ 62.76	s 25.497	″ 45.37
2回正中	1月23日		1月24日		1月24日		1月24日	
a b	+0.0923	+0.0380	+0.1376	+0.0101	+0.3762	−0.1453	+0.1625	−0.0060
a′ b′	−0.5291	−0.8486	−0.5399	−0.8417	−0.5462	−0.8376	−0.5498	−0.8353
FK3番號	309		311		310		312	

本初子午線正中時

星名	289 G. Pupp		31 Lync		ε Cari		Br 1197 Hyda	
等級 スペクトル型	4.43	A5	4.43	K5	1.74	K0, B	3.95	A0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 8 16	° ′ −36 28	h m 8 18	° ′ +43 21	h m 8 21	° ′ −59 19	h m 8 22	° ′ −3 43
	s	″	s	″	s	″	s	″
1 0.1	25.551 161	54.68 326	57.021 245	69.49 88	23.426 183	28.97 368	49.415 178	14.55 187
10.0	26.712 105	57.94 323	57.266 183	70.37 114	23.609 98	32.65 374	49.593 132	16.42 174
20.0	26.817 46	61.17 311	57.449 116	71.51 134	23.707 11	36.39 368	49.725 81	18.16 155
29.9	26.863 13	64.28 291	57.535 46	72.85 149	23.718 74	40.07 353	49.806 31	19.71 134
2 8.9	26.850 69	67.19 264	57.611 20	74.34 156	23.644 155	43.60 329	49.837 18	21.05 111
18.9	26.781 118	69.83	57.591 83	75.90 156	23.489 226	46.89 297	49.819 63	22.16 87
28.9	26.663 160	72.14 231	57.508 137	77.46 149	23.263 289	49.86 260	49.756 100	23.03 64
3 10.9	26.503 194	74.09 195	57.371 179	78.95 135	22.974 338	52.46 216	49.656 131	23.67 41
20.9	26.309 217	75.64 155	57.192 211	80.30 114	22.636 374	54.62 169	49.525 152	24.08 18
30.8	26.092 230	76.77 113 69	56.981 228	81.44 91	22.262 399	56.31 120	49.373 164	24.26 2
4 9.8	25.862 234	77.46	56.753 233	82.35 63	21.863 408	57.51 68	49.209 167	24.24 22
19.8	25.628 229	77.71 25	56.520 226	82.98 34	21.455 407	58.19 15	49.042 160	24.02 40
29.7	25.399 216	77.53 18	56.294 208	83.32 6	21.048 393	58.34 37	48.882 148	23.62 57
5 9.7	25.183 194	76.92 61	56.086 181	83.38 23	20.655 369	57.97 89	48.734 129	23.05 72
19.7	24.939 169	75.89 103 141	55.905 146	83.15 49	20.286 336	57.08 137	48.605 106	22.33 88
29.7	24.820	74.48	55.759	82.66	19.950	55.71	48.499	21.45
6 8.6	24.682 138	72.71 177	55.652 107	81.92 74	19.655 295	53.88 183	48.421 78	20.45 100
18.6	24.577 105	70.63 208	55.587 65	80.98 94	19.409 246	51.65 223	48.372 49	19.35 110
28.6	24.509 68	68.30 233	55.537 20	79.85 113	19.218 191	49.06 259	48.352 20	18.16 119
7 8.6	24.479 30 10	65.77 253 265	55.592 25 69	78.57 128 139	19.086 132 69	46.19 287 307	48.364 12 42	16.93 123 125
18.5	24.489	63.12	55.661	77.18	19.017	43.12	48.406	15.68
28.5	24.537 48	60.42 270	55.773 112	75.69 149	19.013 4	39.94 318	48.477 71	14.47 121
8 7.5	24.626 89	57.76 266	55.926 153	74.14 155	19.078 65	36.75 319	48.579 102	13.33 114
17.4	24.753 127	55.24 252	56.117 191	72.54 160	19.209 131	33.64 311	48.707 128	12.31 102
27.4	24.917 164 202	52.92 232 200	56.345 228 264	70.93 161 160	19.407 198 263	30.73 291 262	48.864 157 183	11.46 85 63
9 6.4	25.119	50.92	56.609	69.33 158	19.670	28.11	49.047	10.83
16.4	25.354 235	49.30 162	56.904 295	67.75 152	19.991 321	25.89 222	49.255 208	10.47 36
26.3	25.621 267	48.14 116	57.228 324	66.23 144	20.367 376	24.13 173	49.487 232	10.40 7
10 6.3	25.915 294	47.50 64	57.581 353	64.79 132	20.787 420	22.99 117	49.742 255	10.65 25
16.3	26.232 317 332	47.41 9 49	57.956 375 395	63.47 118	21.242 455 479	22.44 55 10	50.015 273 289	11.23 58 91
26.3	26.534	47.90	58.351	62.29	21.721	22.54	50.304	12.14
11 5.2	26.906 342	48.93 106	58.758 407	61.30 99	22.209 488	23.30 76	50.604 300	13.35 121
15.2	27.247 341	50.53 160	59.170 412	60.53 77	22.690 481	24.71 141	50.909 305	14.84 149
25.2	27.579 332	52.65 209	59.578 408	60.03 50	23.152 462	26.71 200	51.211 302	16.54 170
12 5.1	27.891 312 282	55.17 252 284	59.972 394 368	59.81 22 9	23.576 424 372	29.26 255 299	51.502 291 271	18.40 186 195
15.1	28.173	58.01	60.340	59.90	23.948	32.25	51.773	20.35
25.1	28.416 243	61.09 308	60.671 331	60.30 40	24.257 309	35.59 334	52.016 243	22.32 197
35.1	28.612 196	64.31 322	60.955 284	61.01 71	24.491 234	39.17 358	52.223 207	24.25 193
平位	s 25.212	″ 54.15	s 55.399	″ 81.48	s 20.737	″ 31.70	s 48.735	″ 9.28
2回正中	1月25日		1月25日		1月27日		1月27日	
a b	+0.1125	+0.0276	+0.2051	−0.0359	+0.0616	+0.0650	+0.1498	+0.0025
a′ b′	−0.5307	−0.8280	−0.5398	−0.8218	−0.5784	−0.8153	−0.5336	−0.8121
FK3番號	313		314		315		316	

本初子午線正中時

星名	ϑ Cham		β Voln		o UMaj		Grb 1450 Lync	
等級 スペクトル型	4.26	K0	3.65	K0	3.47	G0	6.05	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 22	° ′ −77 17	h m 8 25	° ′ −65 56	h m 8 25	° ′ +60 54	h m 8 29	° ′ +38 12
	s	″	s	″	s	″	s	″
1 0.1	30.690 273	60.26 363	10.971 207	42.94 370	33.664 343	25.05 176	13.517 241	36.80
10.1	30.963 83	63.89 374	11.178 103	46.64 379	34.007 254	26.81 204	13.753 185	37.32 52
20.0	31.046 107	67.63 374	11.281 4	50.43 375	34.261 158	28.85 226	13.943 123	38.10 78
29.9	30.939 291	71.37 374	11.277 108	54.18 363	34.419 58	31.11 237	14.066 58	39.12 102
2 8.9	30.648 462	74.99 362 343	11.169 206	57.81 341	34.477 40	33.48 239	14.124 5	40.31 119 130
18.9	30.186 615	78.42 316	10.933 294	61.22 311	34.437 130	35.87 230	14.119 64	41.61
28.9	29.571 750	81.53 281	10.669 370	64.33 274	34.307 211	38.17 212	14.055 114	42.96 135
3 10.9	28.821 858	84.39 240	10.299 432	67.07 232	34.093 277	40.29 187	13.941 156	44.28 132
20.9	27.933 943	86.79 194	9.867 478	69.39 186	33.819 326	42.16 152	13.785 186	45.52 124
30.8	27.020 1001	88.73 147	9.389 510	71.25 136	33.493 357	43.68 114	13.599 205	46.62 110 91
4 9.8	23.019 1034	90.20 94	8.879 525	72.61 83	33.136 369	44.82 71	13.394 211	47.53 69
19.8	24.985 1040	91.14 42	8.354 527	73.44 30	32.767 363	45.53 27	13.183 205	48.22 46
29.8	23.945 1024	91.53 12	7.827 513	73.74 23	32.404 343	45.80 16	12.978 191	48.68 21
5 9.7	22.921 980	91.44 65	7.314 488	73.51 76	32.061 306	45.64 59	12.787 167	48.89 4
19.7	21.941 916	90.79 117	6.826 449	72.75 126	31.755 260	45.05 99	12.620 138	48.85 27
29.7	21.025 831	89.62 165	6.377 401	71.49 174	31.495 204	44.03 134	12.482 102	48.58 48
6 8.6	20.194 724	87.97 209	5.976 343	69.75 217	31.291 143	42.72 165	12.380 65	48.10 67
18.6	19.470 602	85.88 248	5.633 276	67.58 255	31.148 76	41.07 191	12.315 25	47.43 85
28.6	18.868 463	83.40 281	5.357 203	65.03 285	31.072 9	39.16 212	12.290 15	46.58 100
7 8.6	18.405 311	80.59 305	5.154 123	62.18 307	31.033 58	37.04 227	12.305 56	45.58 112
18.5	18.094	77.54	5.031	59.11	31.121	34.77	12.361	44.46
28.5	17.944 150	74.34 320	4.992 39	55.90 321	31.246 125	32.39 238	12.454 93	43.24 122
8 7.5	17.962 18	71.08 326	5.039 47	52.64 326	31.436 190	29.95 244	12.586 132	41.93 131
17.5	18.148 186	67.86 322	5.172 133	49.46 318	31.687 251	27.52 243	12.753 167	40.55 138
27.4	18.501 353 514	64.80 306 280	5.392 220 303	46.45 301 273	31.996 309 363	25.12 240 231	12.954 201 235	39.13 142 146
9 6.4	19.015 660	62.00 243	5.695 379	43.72 234	32.359 414	22.81 218	13.189 264	37.67
16.4	19.675 790	59.57 197	6.074 449	41.38 187	32.773 460	20.63 201	13.453 294	36.20 147
26.3	20.465 895	57.60 143	6.523 507	39.51 132	33.233 501	18.62 178	13.747 321	34.73 147
10 6.3	21.360 972	55.17 82	7.030 551	38.19 69	33.734 534	16.84 153	14.068 345	33.30 143
16.3	22.332 1017	55.35 17	7.581 579	37.50 4	34.268 562	15.31 123	14.413 364	31.92 138 128
26.3	23.349 1028	55.18	8.160 591	37.46 63	34.830 581	14.08 88	14.777 379	30.64
11 5.2	24.377 1000	55.67 49	8.751 583	38.09 129	35.411 585	13.20 50	15.153 386	29.48 116
15.2	25.377 938	55.82 115	9.334 554	39.38 190	35.996 579	12.70 10	15.542 385	28.51 97
25.2	26.315 840	53.60 178	9.888 508	41.28 247	36.575 557	12.60 33	15.927 374	27.74 77
12 5.2	27.155 711	60.94 234 283	10.396 442	43.75 294	37.132 520	12.93 76	16.301 352	27.23 51 25
15.1	27.866	63.77	10.838	46.69	37.652	13.69	16.653	26.98
25.1	28.423 557	66.99 322	11.200 362	50.00 331	38.118 466	14.86 117	16.973 320	27.04 6
35.1	28.805 383	70.49 350	11.469 269	53.59 359	38.516 398	16.42 156	17.249 276	27.39 35
平位	s 23.439	″ 64.54	s 7.410	″ 46.69	s 32.708	″ 38.68	s 12.985	″ 48.38
2回正中	1月27日		1月27日		1月28日		1月29日	
a b	−0.0872	+0.1722	+0.0329	+0.0884	+0.2498	−0.0711	+0.1951	−0.0318
a′ b′	−0.5821	−0.8131	−0.5917	−0.8061	−0.5932	−0.8050	−0.6061	−0.7954
FK3番號	318		319		317		320	

本初子午線正中時

星名		η Cncr		Grb 1446 Caml		Grb 1460 UMaj		48 G. Velr	
等級	スペクトル型	5.52	K0	6.29	K0	6.03	K0	4.13	A5
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m s 8 29	° ′ ″ +20 37	h m s 8 33	° ′ ″ +73 49	h m s 8 35	° ′ ″ +52 54	h m s 8 35	° ′ ″ −42 47
1	0.1	25.374 208	61.09 51	26.854 558	39.01 225	5.499 304	33.59 129	39.805 187	17.55 342
	10.1	25.582 159	60.58 29	27.412 411	41.26 257	5.803 233	34.88 159	39.992 128	20.97 344
	20.0	25.741 105	60.29 7	27.823 250	43.83 277	6.036 154	36.47 183	40.120 64	24.41 336
	30.0	25.846 52	60.22 13	28.073 83	46.60 288	6.190 73	38.30 199	40.184 0	27.77 321
2	8.9	25.898 3	60.35 30	28.153 82	49.48 287	6.263 8	40.29 206	40.184 60	30.98 297
	18.9	25.895	60.65	28.074	52.35 274	6.255 83	42.35 204	40.124 114	33.95 266
	28.9	25.844 51	61.09 44	27.837 237	55.09 249	6.172 150	44.39 193	40.010 162	36.61 231
3	10.9	25.750 94	61.62 53	27.459 378	57.58 217	6.022 205	46.32 174	39.848 201	38.92 191
	20.9	25.621 129	62.21 59	26.965 494	59.75 176	5.817 247	48.06 149	39.647 229	40.83 147
	30.8	25.468 153 168	62.81 60 59	26.380 585 647	61.51 128	5.570 273	49.55 116	39.418 248	42.30 104
4	9.8	25.300	63.40	25.733	62.79	5.297	50.71	39.170	43.34
	19.8	25.127 173	63.94 54	25.057 676	63.56 77	5.011 286	51.53 82	38.914 256	43.90 56
	29.8	24.960 167	64.42 48	24.380 677	63.80 24	4.730 281	51.97 44	38.660 254	44.00 10
5	9.7	24.806 154	64.83 41	23.729 651	63.52 28	4.463 267	52.03 6	38.414 246	43.63 37
	19.7	24.673 133 109	65.16 33 26	23.131 598 526	62.72 80 126	4.225 238 203	51.72 31 66	38.187 227 205	42.82 81 125
	29.7	24.534	65.42	22.605	61.46	4.022	51.06	37.982	41.57
6	8.6	24.484 80	65.59 17	22.170 435	59.77 169	3.863 159	50.08 98	37.806 176	39.93 164
	18.6	24.436 48	65.70 11	21.838 332	57.71 206	3.752 111	48.81 127	37.664 142	37.92 201
	28.6	24.420 16	65.73 3	21.618 220	55.34 237	3.692 60	47.29 152	37.558 106	35.62 230
7	8.6	24.438 18 50	65.68 5 12	21.516 102 18	52.72 262 280	3.685 7 47	45.53 173 189	37.491 67 25	33.06 256 272
	18.5	24.488	65.53	21.524	49.92	3.732	43.67	37.466	30.34
	28.5	24.539 81	65.36 20	21.672 138	47.02 290	3.830 98	41.66 201	37.483 17	27.52 282
8	7.5	24.682 113	65.07 29	21.928 256	44.06 296	3.979 149	39.57 209	37.544 61	24.69 283
	17.5	24.824 142	64.69 38	22.297 369	41.12 294	4.176 197	37.43 214	37.649 105	21.96 273
	27.4	24.994 170 198	64.19 50 61	22.773 476 577	38.25 287 274	4.419 243 288	35.29 214 211	37.797 148 191	19.41 255 228
9	6.4	25.192	63.58	23.250	35.51	4.707	33.48	37.988	17.13
	16.4	25.416 224	62.84 74	24.019 669	32.96 255	5.035 328	31.14 204	38.219 231	15.23 190
	26.3	25.665 249	61.98 86	24.772 753	30.65 231	5.403 368	29.21 193	38.488 269	13.78 145
10	6.3	25.938 273	60.99 99	25.598 826	28.64 201	5.806 403	27.42 179	38.792 304	12.84 94
	16.3	26.231 293 311	59.89 110 118	26.484 886 933	26.98 166 128	6.238 432 459	25.82 160 137	39.123 331 353	12.47 37 23
	26.3	26.542	53.71	27.417	25.70	6.697	24.45	39.476	12.70
11	5.2	26.866 324	57.48 123	28.379 962	24.86 84	7.174 477	23.35 110	39.843 367	13.53 83
	15.2	27.196 330	56.24 124	29.350 971	24.50 36	7.659 485	22.57 78	40.212 369	14.95 142
	25.2	27.526 330	55.02 122	30.308 958	24.62 12	8.143 484	22.13 44	40.574 362	16.91 196
12	5.2	27.848 322 302	53.89 113 100	31.227 919 855	25.25 63 114	8.613 470 444	22.07 6 32	40.918 344 313	19.35 244 284
	15.1	28.150	52.89	32.082	26.39	9.057	22.39	41.231	22.19
	25.1	28.425 275	52.05 84	32.847 765	27.99 160	9.459 402	23.11 72	41.504 273	25.33 314
	35.1	28.663 238	51.41 64	33.497 650	30.02 203	9.807 348	24.19 108	41.727 223	28.66 333
平位		s 24.867	″ 70.20	s 25.045	″ 53.54	s 4.833	″ 46.89	s 38.274	″ 19.53
2回正中		1月29日		1月30日		1月30日		1月30日	
a	b	+0.1733	−0.0152	+0.3336	−0.1427	+0.2221	−0.0552	+0.1053	+0.0388
a′	b′	−0.6037	−0.7949	−0.6205	−0.7842	−0.6262	−0.7797	−0.6281	−0.7781
FK3番號		321		322		323		324	

1943 本初子午線正中時

星名		6 Hyda		α Pyxi		δ Cncr		† δ Velr *m*	
等級	スペクトル型	5.15	K2	3.70	B2	4.17	K0	2.01	A0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m s 8 37	° ′ ″ −12 16	h m s 8 41	° ′ ″ −32 58	h m s 8 41	° ′ ″ +18 21	h m s 8 43	° ′ ″ −54 29
1	0.1	20.124 187	25.13 233	19.182 189	46.82 315	27.344 216	45.77 70	9.949 213	51.49
	10.1	20.311 140	27.46 223	19.371 137	49.97 314	27.560 168	45.07 48	10.162 139	55.09 360
	20.0	20.451 91	29.69 207	19.508 80	53.11 304	27.728 117	44.59 26	10.301 62	58.77 368
	30.0	20.542 38	31.76 186	19.588 23	56.15 287	27.845 62	44.33 3	10.363 15	62.44 367
2	8.9	20.580 10	33.62 162	19.611 32	59.02 263	27.907 10	44.30 15	10.348 88	65.98 354 333
	18.9	20.570	35.24	19.579	61.65	27.917	44.45		69.31
	28.9	20.513 57	36.60 136	19.497 82	63.99 234	27.877 40	44.76 31	10.260 155	72.36 305
3	10.9	20.418 95	37.68 108	19.372 125	65.99 200	27.794 83	45.20 44	10.105 213	75.06 270
	20.9	20.290 128	38.48 80	19.211 161	67.62 163	27.676 118	45.72 52	9.892 262	77.36 230
	30.8	20.140 150 165	39.00 52 24	19.023 188 204	68.86 124 84	27.532 144 160	46.27 55 58	9.630 298 9.332 324	79.21 185 138
4	9.8	19.975	39.24	18.819	69.70	27.372	46.85		80.59
	19.8	19.806 169	39.21 3	18.607 212	70.12 42	27.206 166	47.40 55	9.008 337	81.47 88
	29.8	19.639 167	38.93 28	18.397 210	70.13 1	27.043 163	47.91 51	8.671 340	81.85 38
5	9.7	19.483 156	38.39 54	18.195 202	69.73 40	26.890 153	48.38 47	8.331 333	81.71 14
	19.7	19.343 140 119	37.63 76 98	18.009 186 165	68.94 79 116	26.756 134 112	48.78 40 34	7.998 316 7.682 292	81.07 64 112
	29.7	19.224	36.65	17.844	67.78	26.644	49.12		79.95
6	8.7	19.130 94	35.47 118	17.705 139	66.27 151	26.559 85	49.40 28	7.390 259	78.36 159
	18.6	19.063 67	34.13 134	17.595 110	64.45 182	26.503 56	49.60 20	7.131 220	76.36 200
	28.6	19.025 38	32.65 148	17.516 79	62.37 208	26.478 25	49.74 14	6.911 177	74.00 236
7	8.6	19.016 9 22	31.08 157 162	17.471 45 9	60.09 228 242	26.485 7 38	49.81 7 1	6.734 129 6.605 76	71.33 267 289
	18.5	19.038	29.46	17.462	57.67	26.523	49.80		68.44
	28.5	19.090 52	27.83 163	17.488 26	55.17 250	26.591 68	49.71 9	6.529 22	65.41 303
8	7.5	19.172 82	26.27 156	17.552 64	52.69 248	26.690 99	49.51 20	6.507 36	62.33 308
	17.5	19.283 111	24.82 145	17.651 99	50.30 239	26.817 127	49.22 29	6.543 93	59.30 303
	27.4	19.424 141 169	23.55 126 104	17.788 137 173	48.09 221 195	26.973 156 184	48.80 42 56	6.636 151 6.787 210	56.42 288 262
9	6.4	19.593	22.52	17.961	46.14	27.157	48.24		53.80
	16.4	19.790 197	21.78 74	18.168 207	44.54 160	27.368 211	47.54 70	6.997 263	51.54 226
	26.4	20.013 223	21.38 40	18.409 241	43.36 118	27.605 237	46.69 85	7.260 314	49.73 181
10	6.3	20.261 248	21.36 2	18.681 272	42.66 70	27.867 262	45.70 99	7.574 360	48.45 128
	16.3	20.531 270 288	21.73 37 77	18.978 297 318	42.49 17 37	28.151 284 303	44.58 112 124	7.934 396 8.330 423	47.76 60 6
	26.3	20.819	22.50	19.296	42.86	28.454	43.34		47.70
11	5.2	21.121 302	23.65 115	19.628 332	43.78 92	28.772 318	42.03 131	8.753 440	48.29 59
	15.2	21.429 308	25.17 152	19.966 338	45.22 144	29.099 327	40.68 135	9.193 444	49.52 123
	25.2	21.736 307	26.99 182	20.301 335	47.15 193	29.428 329	39.33 135	9.637 433	51.35 183
12	5.2	22.034 298 278	29.05 207 223	20.621 320 297	49.50 235 269	29.750 322 305	38.04 129 117	10.070 407 10.477 370	53.72 237 284
	15.1	22.312	31.29	20.918	52.19	30.055	36.87	10.847	56.56
	25.1	22.563 251	33.63 234	21.182 264	55.12 293	30.335 280	35.85 102	11.165 318	59.78 322
	35.1	22.778 215	35.98 235	21.403 221	58.22 310	30.579 244	35.01 84	11.421 256	63.26 348
平位		s 19.377	″ 22.03	s 18.017	″ 47.72	s 26.875	″ 54.39	s 7.769	″ 55.83
2回正中		1月31日		2月1日		2月1日		2月1日	
a	b	+0.1421	+0.0092	+0.1203	+0.0280	+0.1702	−0.0143	+0.0823	+0.0610
a′	b′	−0.6338	−0.7735	−0.6471	−0.7624	−0.6476	−0.7620	−0.6532	−0.7572
FK3番號		325		327		326		330	

本初子午線正中時

星名	ε Cncr		η Cham		† ε Hyda *m*		γ Pyxi	
等級	4.20		5.62		3.48		4.19	
スペクトル型	G5		B9		F8		K2	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 8 43	° ′ ″ +28 57	h m s 8 43	° ′ ″ −78 45	h m s 8 43	° ′ ″ +6 37	h m s 8 48	° ′ ″ −27 29
1 0.1	15.545 235	60.97 10	26.935 400	19.52	46.037 204	38.40 138	7.683	50.77
10.1	15.780	60.87	27.335	23.08 356	46.241 159	37.02 119	7.878 195 146	53.72 294
20.0	15.964 184 128	61.04 17 41	27.526 191 20	26.79 371	46.400 109	35.83 99	8.024 91	56.66 283
30.0	16.092	61.45 62	27.506 228	30.56 377	46.509 58	34.84 77	8.115 37	59.49 265
2 8.9	16.162 70 13	62.07 79	27.278 423	34.28 372 357	46.567 7	34.07 55	8.152 16	62.14 243
18.9	16.175	62.86 91	25.855 603	37.85	46.574	33.52	8.136 64	64.57 213
28.9	16.135 40	63.77 96	26.252 761	41.19 334	46.535 39	33.17 35	8.072 107	66.70 182
3 10.9	16.046 89	64.73 97	25.491 894	44.23 304	46.455 80	33.02 15	7.965 143	68.52 147
20.9	15.920 126	65.70 92	24.597 1001	46.90 267	46.342 113	33.03 1	7.822 168	69.99 110
30.8	15.764 156 174	66.62 83	23.596 1081	49.15 225 178	46.204 138 153	33.18 15 27	7.654 185	71.09 74
4 9.8	15.590	67.45 71	22.515 1134	50.93	46.051	33.45	7.469	71.83
19.8	15.408 182	68.16 56	21.381 1157	52.21 128	45.892 159	33.82 37	7.276 193	72.18 35
29.8	15.229 179	68.72 41	20.224 1156	52.97 76	45.736 156	34.27 45	7.084 192	72.16 2
5 9.7	15.061 168	69.13 24	19.068 1125	53.20 23	45.589 147	34.80 53	6.899 185	71.78 38
19.7	14.911 150 124	69.37 7	17.943 1068	52.88 32 84	45.459 130 109	35.37 57 62	6.729 170 151	71.03 75 108
29.7	14.787	69.44 8	16.875 988	52.04	45.350 84	35.99	6.578 127	69.95 139
6 8.7	14.691 96	69.36 22	15.887 884	50.70 134	45.266 84	36.64 65	6.451 100	68.56 166
18.6	14.627 64	69.14 37	15.003 758	48.88 182	45.208 58	37.31 67	6.351 71	66.90 191
28.6	14.597 30	68.77 49	14.245 613	46.63 225	45.180 28	38.00 69	6.280 39	64.99 208
7 8.6	14.602 5 38	68.28 60	13.632 450	44.02 261 290	45.181 1 30	38.67 67 64	6.241 7	62.91 221
18.5	14.640	67.68 71	13.182 273	41.12 310	45.211	39.31	6.234 27	60.70 227
28.5	14.712 72	66.97 71	12.909 87	38.02 322	45.270 59	39.90 59	6.261 60	58.43 225
8 7.5	14.818 106	66.15 82	12.822 105	34.80 323	45.358 88	40.40 50	6.321 94	56.18 216
17.5	14.955 137	65.23 92	12.927 296	31.57 313	45.474 116	40.79 39	6.415 128	54.02 199
27.4	15.123 168 198	64.22 101 110	13.223 484	28.44 293	45.617 143 170	41.03 24 5	6.543 163	52.03 174
9 6.4	15.321	63.12 118	13.707 660	25.51 260	45.787	41.08	6.706 195	50.29 141
16.4	15.548 227	61.94 126	14.367 818	22.91 219	45.984 197	40.94 14	6.901 227	48.88 101
26.4	15.803 255	60.68 131	15.185 952	20.72 168	46.207 223	40.56 38	7.128 256	47.87 57
10 6.3	16.085 282	59.37 135	16.137 1056	19.04 110	46.454 247	39.95 61	7.384 283	47.30 7
16.3	16.390 305 327	58.02 135	17.193 1125	17.94 47	46.723 269 288	39.10 85 108	7.667 304	47.23 43
26.3	16.717	56.67 132	18.318 1155	17.47	47.011	38.02	7.971	47.66
11 5.2	17.059 342	55.35 125	19.473 1143	17.66 19	47.314 303	36.73 129	8.289 318	48.61 95
15.2	17.411 352	54.10 112	20.616 1089	18.52 86	47.626 312	35.28 145	8.616 327	50.05 144
25.2	17.765 354	52.98 96	21.705 996	20.02 150	47.940 314	33.71 157	8.942 326	51.93 188
12 5.2	18.112 347 330	52.02 75	22.701 866	22.11 209 262	48.246 306 290	32.08 163 163	9.257 315 294	54.19 226 257
15.1	18.442	51.27	23.567	24.73	48.536	30.45	9.551	56.76
25.1	18.745 303	50.75 52	24.271 704	27.78 305	48.802 266	28.88 157	9.815 264	59.56 280
35.1	19.011 266	50.50 25	24.789 518	31.18 340	49.034 232	27.41 147	10.040 225	62.47 291
平位	s 15.102	″ 71.34	s 18.863	″ 26.20	s 45.511	″ 44.82	s 6.683	″ 51.18
2回正中	2月 1日		2月 1日		2月 1日		2月 2日	
a b	+0.1813	−0.0241	−0.1004	+0.2193	+0.1592	−0.0051	+0.1275	+0.0232
a′ b′	−0.6536	−0.7569	−0.6538	−0.7567	−0.6553	−0.7554	−0.6695	−0.7428
FK3番號	328		331		329		332	

本初子午線正中時

星名	† σ^2 Cncr *m*		ζ Hyda		108 G. Cari		ε UMaj	
等級	5.60		3.30		3.98		3.12	
スペクトル型	K0		K0		B8		A5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 8 50	° ′ ″ +30 47	h m s 8 52	° ′ ″ +6 9	h m s 8 53	° ′ ″ −60 25	h m s 8 55	° ′ ″ +48 15
1 0.1	46.676 245	37.06 4	23.388 211	42.98 142	48.103 249	28.42 361	19.334	47.51
10.1	46.921 196	37.02 25	23.599 167	41.56 125	48.352 164	32.03 373	19.639 305 243	48.40 89 123
20.0	47.117 139	37.27 50	23.766 118	40.31 104	48.516 75	35.76 376	19.882 173	49.63 150
30.0	47.256 79	37.77 72	23.884 66	39.27 81	48.591 12	39.52 368	20.055 98	51.13 172
2 8.9	47.335 22	38.49 90	23.950 16	38.46 59	48.579 98	43.20 350	20.153 25	52.85 185
18.9	47.357	39.39	23.936	37.87	48.481	46.70	20.178	54.70
28.9	47.324 33	40.40 101	23.935 31	37.49 38	48.306 175	49.95 325	20.132 46	56.59 189
3 10.9	47.241 83	41.47 107	23.862 73	37.30 19	48.081 245	52.87 292	20.023 109	58.45 186
20.9	47.118 123	42.54 107	23.756 106	37.29 1	47.760 301	55.41 254	19.861 162	60.18 173
30.9	46.935 153 174	43.56 102 91	23.624 132 149	37.43 14 27	47.412 348 380	57.50 209 163	19.657 204 233	61.72 154 129
4 9.8	46.791 183	44.47 78	23.475 156	37.70	47.032	59.13	19.424	63.01
19.8	46.608 182	45.25 62	23.319 155	38.07 37	46.632 400	60.26 113	19.177 247	64.00 99
29.8	46.426	45.87	23.164	38.52 45	46.224 408	60.88 62	18.928 249	64.66 66
5 9.7	46.253 173	46.30 43	23.018 146	39.05 53	45.819 405	60.96 8	18.689 239	64.98 32
19.7	46.099 154 131	46.56 26 6	22.887 131 112	39.63 58 63	45.430 389 365	60.53 43 95	18.470 219 191	64.95 3 37
29.7	45.938	46.62	22.775 88	40.26	45.065	59.58	18.279	64.58
6 8.7	45.865 103	46.51 11	22.687 62	40.92 66	44.733 332	58.15 143	18.124 155	63.90 68
18.6	45.794 71	46.23 28	22.625 62	41.61 69	44.442 291	56.27 188	18.009 115	62.93 97
28.6	45.756 38	45.80 43	22.590 35	42.30 69	44.199 243	54.00 227	17.937 72	61.70 123
7 8.6	45.753 3 31	45.22 58 71	22.584 6 22	42.99 69 65	44.010 189 128	51.38 262 288	17.910 27 18	60.25 145 164
18.6	45.784	44.51	22.606	43.64	43.882	48.50	17.928	58.61
28.5	45.849 65	43.68 83	22.658 52	44.23 59	43.818 64	45.44 306	17.992 64	56.81 180
8 7.5	45.948 99	42.74 94	22.737 79	44.74 51	43.822 4	42.30 314	18.101 109	54.89 192
17.5	46.079 131	41.70 104	22.844 107	45.13 39	43.896 74	39.16 314	18.253 152	52.89 200
27.4	46.241 162 194	40.56 114 123	22.980 136 162	45.38 25 6	44.040 144 214	36.15 301 279	18.447 194 236	50.83 206 208
9 6.4	46.435	39.33	23.142	45.44	44.254	33.36	18.683	48.75
16.4	46.659 224	38.02 131	23.332 190	45.30 14	44.535 281	30.91 245	18.958 275	46.69 206
26.4	46.913 254	36.64 138	23.548 216	44.92 38	44.880 345	28.88 203	19.270 312	44.68 201
10 6.3	47.194 281	35.22 142	23.790 242	44.31 61	45.280 400	27.37 151	19.619 349	42.76 192
16.3	47.501 307 328	33.78 144 143	24.055 265 286	43.44 87 109	45.726 446 481	26.44 93 29	19.999 380 408	40.97 179 161
26.3	47.829	32.35	24.341	42.35	46.207	26.15	20.407	39.36
11 5.3	48.176 347	30.97 138	24.642 301	41.04 131	46.709 502	26.51 36	20.836 429	37.96 140
15.2	48.534 358	29.68 129	24.954 312	39.56 148	47.217 508	27.53 102	21.280 444	36.84 112
25.2	48.895 361	28.52 116	25.269 315	37.96 160	47.715 498	29.18 165	21.728 448	36.02 82
12 5.2	49.250 355 340	27.56 96 74	25.578 309 295	36.29 167 167	48.185 470 427	31.42 224 273	22.168 440 421	35.56 46 10
15.1	49.590	26.82	25.873	34.62	48.612	34.15	22.589	35.46
25.1	49.903 313	26.34 48	26.144 271	32.99 163	48.979 367	37.30 315	22.978 389	35.75 29
35.1	50.180 277	26.14 20	26.382 238	31.48 151	49.277 298	40.76 346	23.321 343	36.42 67
平位	s 46.265	″ 47.73	s 22.889	″ 49.08	s 45.428	″ 34.55	s 18.866	″ 60.75
2回正中	2月 3日		2月 3日		2月 4日		2月 4日	
a b	+0.1825	−0.0269	+0.1586	−0.0049	+0.0680	+0.0808	+0.2072	−0.0518
a′ b′	−0.6781	−0.7350	−0.6832	−0.7302	−0.6876	−0.7261	−0.6925	−0.7214
FK3番號	333		334		336		335	

星名	α Cncr		Br 1268 Lync		ρ UMaj		χ UMaj	
等級	4.27		4.09		4.99		3.68	
スペクトル型	A3		F5		M0		A0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 8 55	° ′ ″ +12 4	h m s 8 53	° ′ ″ +42 0	h m s 8 57	° ′ ″ +67 59	h m s 8 59	° ′ ″ +47 22
1 0.1	22.724 220	39.33 112	57.217 282	22.91 55	27.003 485	58.20 181	45.008 308	47.19 82
10.1	22.944 175	38.21 91	57.499 225	23.46 86	27.491 381	60.01 218	45.316 246	48.01 115
20.0	23.119 126	37.30 68	57.724 162	24.32 115	27.872 263	62.19 245	45.562 178	49.16 144
30.0	23.245 73	36.62 45	57.885 94	25.47 136	28.135 139	64.64 264	45.740 105	50.60 167
2 8.9	23.318 21	36.17 24	57.930 28	23.83 152	28.274 15	67.28 271	45.845 32	52.27 181
18.9	23.339 26	35.93 4	58.008 35	28.35 160	28.289 105	69.99 268	45.877 37	54.08 187
28.9	23.313 69	35.89 13	57.973 93	29.95 160	28.184 216	72.67 252	45.840 100	55.95 184
3 10.9	23.244 105	36.02 84	57.880 141	31.55 153	27.938 309	75.19 228	45.740 153	57.79 174
20.9	23.139 131	36.28 26	57.739 177	33.08 153	27.659 384	77.47 195	45.587 195	59.53 156
30.9	23.008 149	36.65 37 44	57.562 204	34.47 139 119	27.275 439	79.42 154	45.392 224	61.09 131
4 9.8	22.859 156	37.09 49	57.358 216	35.66 94	23.836 471	80.96 108	45.168 239	62.40 103
19.8	22.703 157	37.58 52	57.142 217	36.60 68	23.365 480	82.04 61	44.929 242	63.43 71
29.8	22.546 147	38.10 52	56.925 209	37.28 39	25.885 470	82.65 11	44.687 234	64.14 37
5 9.7	22.399 133	38.62 53	56.716 190	37.67 10	25.415 439	82.76 39	44.453 214	64.51 3
19.7	22.266 113	39.15 51	56.523 164	37.77 19	24.976 395	82.37 85	44.239 187	64.54 30
29.7	22.153 90	39.66 49	56.362 133	37.58 46	24.581 335	81.52 128	44.052 154	64.24 61
6 8.7	22.063 63	40.15 47	56.229 98	37.12 72	24.246 267	80.24 167	43.898 115	63.63 90
18.6	22.000 35	40.62 43	56.131 59	36.40 94	23.979 190	78.57 201	43.783 73	62.73 117
28.6	21.965 6	41.05 39	56.072 20	35.46 114	23.789 109	76.56 230	43.710 30	61.56 139
7 8.6	21.959 23	41.44 33	56.052 21	34.32 132	23.680 25	74.26 252	43.680 14	60.17 159
18.6	21.932	41.77	56.073	33.00 147	23.655	71.74	43.694	58.58
28.5	22.034 52	42.02 25	56.133 60	31.53 159	23.715 60	69.05 269	43.753 59	56.83 175
8 7.5	22.114 80	42.17 15	56.233 100	29.94 169	23.859 144	66.24 281	43.855 102	54.95 187
17.5	22.223 109	42.20 3	56.371 138	28.25 176	24.084 225	63.39 285	44.000 145	52.99 197
27.4	22.360 137 165	42.10 10 26	56.547 176 212	26.49 181	24.389 305 383	60.55 284 279	44.186 186 228	50.96 203 207
9 6.4	22.525 192	41.84 45	53.759 248	24.68 184	24.772 452	57.76 266	44.414 266	48.89 205
16.4	22.717 219	41.39 64	57.007 281	22.84 182	25.224 521	55.10 250	44.680 304	46.84 202
26.4	22.936 245	40.75 84	57.288 314	21.02 179	25.745 582	52.60 227	44.984 340	44.82 194
10 6.3	23.181 269	39.91 103	57.602 344	19.23 171	26.327 635	50.33 198	45.324 372	42.88 182
16.3	23.450 290	38.88 121	57.945 369	17.52 160	23.932 679	48.35 166	45.696 400	41.06 166
26.3	23.740	37.67 135	58.315 390	15.92 143	27.641 713	46.69 127	46.093 423	39.40 144
11 5.3	24.047 307	36.32 147	58.705 404	14.49 123	28.354 733	45.42 84	46.519 437	37.96 119
15.2	24.365 318	34.85 153	59.109 408	13.26 98	29.087 734	44.58 38	46.956 443	36.77 88
25.2	24.687 322	33.32 153	59.517 403	12.28 68	29.821 720	44.20 11	47.399 437	35.89 55
12 5.2	25.004 317 303	31.79 153 149	59.920 386	11.60 36	30.541 682	44.31 61	47.836 419	35.34 17
15.1	25.307	30.30	60.306	11.24 1	31.223	44.92	48.255	35.17
25.1	25.587 280	28.93 137	60.662 356	11.23	31.849 626	46.01 109	48.643 388	35.38 21
35.1	25. 834 247	27.70 123	60.979 317	11.57 34	32.399 550	47.57 156	48.987 344	35.97 59
平位	22.277	46.53	55.807	35.34	26.041	73.29	44.576	60.39
2回正中	2月 4日		2月 5日		2月 5日		2月 5日	
a b	+0.1636	−0.0099	+0.1963	−0.0419	+0.2704	−0.1145	+0.2046	−0.0512
a′ b′	−0.6927	−0.7212	−0.6976	−0.7165	−0.6992	−0.7150	−0.7053	−0.7079
FK3番號	337		339		338		341	

星名	Grb 1501 UMaj		α Voln		97 G. Velr		†σ² UMaj	
等級	5.68		4.18		3.69		4.87	
スペクトル型	A2		A5		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 s 8 59	° ′ ″ +54 30	h m s 9 1	° ′ ″ −66 9	h m s 9 2	° ′ ″ −46 52	h m s 9 5	° ′ ″ +67 21
1 0.1	51.064	22.23	36.537	57.90	12.804 227	7.10	24.989 493	48.54
10.1	51.411 347	23.41 118	36.861 294	61.48 358	13.031 166	10.54 344	25.482 391	50.26 172
20.1	51.688 277	24.94 153	37.056 195	65.23 375	13.197 99	14.07 353	25.873 279	52.35 209
30.0	51.886 198	26.77 183	37.144 88	69.05 382	13.296 32	17.59 352	26.152 157	54.75 240
2 8.9	52.000 114 31	28.80 203 216	37.128 16 118	72.81 376 363	13.328 32	21.00 341 323	26.309 35	57.35 260 270
18.9	52.031	30.96	37.010	76.44	13.295	24.23	26.344	60.05
28.9	51.982 49	33.15 219	36.799 211	79.83 339	13.203 93	27.19 296	26.231 83	62.73 268
3 10.9	51.860 122	35.27 212	36.504 295	82.93 310	13.058 145	29.83 264	26.068 193	65.28 255
20.9	51.676 184	37.24 197	36.138 366	85.66 273	12.868 190	32.09 226	25.782 286	67.61 233
30.9	51.443 233 267	38.97 173 143	35.715 423 466	87.95 230 185	12.643 225 250	33.94 185 140	25.419 363 420	69.62 201 163
4 9.8	51.176 287	40.40 108	35.249	89.81	12.393	35.34	24.999	71.25
19.8	50.889 291	41.48 70	34.755 494	91.15 134	12.129 264	36.28 94	24.546 453	72.42 117
29.8	50.598 282	42.18 30	34.247 508	91.98 83	11.860 269	36.75 47	24.079 467	73.12 70
5 9.8	50.316 261	42.48 10	33.737 510	92.27 29	11.593 267	36.74 1	23.619 460	73.34 22
19.7	50.055 231	42.38 48	33.242 495 472	92.03 24 77	11.339 254 235	36.25 49 94	23.186 433 393	73.05 29 75
29.7	49.824 191	41.90 84	32.770 435	91.26 127	11.104 211	35.31 138	22.793	72.30 120
6 8.7	49.633 147	41.06 118	32.335 390	89.99 175	10.893 182	33.93 178	22.456 337	71.10 159
18.6	49.486 98	39.88 147	31.945 333	88.24 217	10.711 147	32.15 213	22.183 273	69.51 194
28.6	49.388 46	38.41 172	31.612 269	86.07 254	10.564 109	30.02 243	21.983 200	67.57 225
7 8.6	49.342 6	36.69 193	31.343 196	83.53 284	10.455 68	27.59 265	21.860 123 42	65.32 248
18.6	49.348 58	34.76 211	31.147 118	80.69 305	10.387 25	24.94 281	21.818 40	62.84 267
28.5	49.406 111	32.65 223	31.029 34	77.64 317	10.362 22	22.13 287	21.858 122	60.17 280
8 7.5	49.517 161	30.42 231	30.995 53	74.47 319	10.384 68	19.26 284	21.980 202	57.37 286
17.5	49.678 211	28.11 235	31.048 141	71.28 311	10.452 117	16.42 270	22.182 279	54.51 288
27.5	49.889 259	25.76 235	31.189 229	68.17 290	10.569 166	13.72 248	22.451 356	51.63 283
9 6.4	50.148	23.41	31.418	65.27	10.735	11.24	22.817	48.80
16.4	50.453 305	21.10 231	31.732 314	62.67 260	10.947 212	9.08 216	23.243 426	46.07 273
23.4	50.801 348	18.87 223	32.126 394	60.47 220	11.205 258	7.34 174	23.737 494	43.49 258
10 6.3	51.192 391	16.78 209	32.591 465	58.78 169	11.504 299	6.09 125	24.294 557	41.13 236
16.3	51.618 426 458	14.87 191 169	33.114 523 568	57.66 112 50	11.840 336 364	5.40 69 10	24.935 611 658	39.04 209 177
23.3	52.076	13.18	33.682	57.16	12.204	5.30	25.563	37.27
11 5.3	52.560 484	11.77 141	34.277 595	57.34 18	12.589 385	5.82 52	26.257 694	35.87 140
15.2	53.059 499	10.68 109	34.880 603	58.18 84	12.983 394	6.95 113	26.972 715	34.90 97
25.2	53.564 505	9.93 72	35.471 591	59.66 148	13.375 392	8.66 171	27.694 722	34.39 51
12 5.2	54.061 497 476	9.63 33 10	36.030 559 507	61.75 209 262	13.753 378 351	10.90 224 269	28.405 711 678	34.37 2 48
15.1	54.537	9.73	36.537	64.37	14.104	13.59	29.083	34.85
25.1	54.976 439	10.26 53	36.974 437	67.44 307	14.416 312	16.65 306	29.709 626	35.83 98
35.1	55.366 390	11.20 94	37.326 352	70.86 342	14.678 262	19.97 332	30.263 554	37.28 145
平位	50.544	36.27	33.162	65.46	11.179	12.09	24.143	63.82
2回正中	2月 5日		2月 6日		2月 6日		2月 7日	
a b	+0.2195	−0.0661	+0.0473	+0.1074	+0.1035	+0.0508	+0.2637	−0.1157
a′ b′	−0.7036	−0.7076	−0.7119	−0.7023	−0.7138	−0.7003	−0.7236	−0.6903
FK3番號	340		343		342		344	

星名	λ Velr		36 Lync		ϑ Hyda		β Cari	
等級	2.22		5.30		3.84		1.80	
スペクトル型	K5		B8		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 9 5	° ′ −43 11	h m 9 10	° ′ +43 26	h m 9 11	° ′ +2 33	h m 9 12	° ′ −69 28
	s	″	s	″	s	″	s	″
1 0.1	55.273 227	60.99 336	5.333 302	61.88 53	24.429 224	16.11 168	39.019 350	46.71 352
10.1	55.500 168	64.35 344	5.635 246	62.41 88	24.653 182	14.43 152	39.369 238	50.23 372
20.1	55.668 106	67.79 343	5.881 182	63.29 118	24.835 135	12.91 131	39.607 119	53.95 381
30.0	55.774 43	71.22 331	6.033 115	64.47 142	24.970 83	11.60 109	39.726 1	57.76 381
2 9.0	55.817 19	74.53 312	6.178 46	65.89 161	25.053 33	10.51 85	39.725 116	61.57 370
18.9	55.798 76	77.65 286	6.224 19	67.50 170	25.086 13	9.66 63	39.609 224	65.27 350
28.9	55.722 128	80.51 254	6.205 79	69.20 172	25.073 57	9.03 40	39.385 321	68.77 323
3 10.9	55.594 169	83.05 217	6.125 130	70.92 165	25.016 91	8.63 20	39.064 404	72.00 289
20.9	55.425 203	85.22 177	5.993 170	72.57 152	24.925 119	8.43 2	38.660 473	74.89 248
30.9	55.222 227	86.99 135	5.823 199	74.09 133	24.806 138	8.41 14	38.187 527	77.37 204
4 9.8	54.995 241	88.34 89	5.627 215	75.42 108	24.668 148	8.55 29	37.660 564	79.41 155
19.8	54.754 246	89.23 43	5.412 220	76.50 80	24.520 150	8.84 39	37.093 586	80.96 103
29.8	54.508 243	89.66 3	5.192 214	77.30 50	24.370 144	9.23 51	36.510 593	81.99 51
5 9.8	54.265 231	89.63 48	4.978 198	77.80 19	24.226 133	9.74 59	35.917 585	82.50 3
19.7	54.034 215	89.15 92	4.780 175	77.99 12	24.093 117	10.33 67	35.332 562	82.47 58
29.7	53.819 192	88.23 134	4.605 145	77.87 41	23.976 96	11.00 73	34.770 527	81.89 109
6 8.7	53.627 164	86.89 173	4.460 112	77.46 69	23.880 73	11.73 77	34.243 478	80.80 158
18.6	53.463 132	85.16 206	4.348 74	76.77 95	23.807 48	12.50 81	33.765 419	79.22 203
28.6	53.331 98	83.10 234	4.274 35	75.82 117	23.759 22	13.31 81	33.346 348	77.19 242
7 8.6	53.233 59	80.76 256	4.239 4	74.65 137	23.737 5	14.12 79	32.998 267	74.77 276
18.6	53.174 19	78.20 270	4.243 45	73.28 154	23.742 32	14.91 74	32.731 179	72.01 299
28.5	53.153 22	75.50 276	4.288 84	71.74 169	23.774 59	15.65 67	32.552 82	69.02 316
8 7.5	53.177 67	72.74 272	4.372 124	70.05 180	23.833 88	16.32 55	32.470 18	65.86 321
17.5	53.244 111	70.02 260	4.495 162	68.25 189	23.921 115	16.87 40	32.488 122	62.65 315
27.5	53.355 156	67.42 237	4.658 202	66.36 194	24.036 144	17.27 21	32.610 226	59.50 300
9 6.4	53.511 200	65.05 206	4.860 238	64.42 198	24.180 172	17.48 2	32.836 327	56.50 272
16.4	53.711 242	62.99 165	5.098 274	62.44 198	24.352 201	17.46 26	33.163 422	53.78 234
26.4	53.953 282	61.34 116	5.372 309	60.46 194	24.553 228	17.20 53	33.585 507	51.44 186
10 6.3	54.235 317	60.18 63	5.681 341	58.52 186	24.781 253	16.67 80	34.092 580	49.58 131
16.3	54.552 345	59.55 5	6.022 371	56.66 174	25.034 277	15.87 107	34.672 633	48.27 70
26.3	54.897 365	59.50 56	6.393 394	54.92 157	25.311 296	14.80 132	35.305 671	47.57 3
11 5.3	55.262 377	60.06 114	6.787 411	53.35 135	25.607 310	13.48 153	35.976 684	47.54 63
15.2	55.639 376	61.20 171	7.198 418	52.00 109	25.917 315	11.95 170	36.660 674	48.17 130
25.2	56.015 364	62.91 222	7.616 415	50.91 78	26.232 314	10.25 181	37.334 641	49.47 191
12 5.2	56.379 341	65.13 266	8.031 401	50.13 44	26.546 301	8.44 185	37.975 585	51.38 247
15.2	56.720	67.79	8.432	49.69 6	23.847 281	6.59 184	38.560 507	53.85 295
25.1	57.025 305	70.79 300	8.807 375	49.63 30	27.128 250	4.75 175	39.067 414	56.80 332
35.1	57.285 260	74.04 325	9.142 335	49.93	27.378	3.00	39.481	60.12
平位	s 53.834	″ 65.67	s 4.992	″ 74.66	s 23.939	″ 20.83	s 35.054	″ 55.74
2回正中	2月 7日		2月 8日		2月 8日		2月 9日	
a b	+0.1102	+0.0454	+0.1930	−0.0466	+0.1553	−0.0022	+0.0345	+0.1327
a′ b′	−0.7251	−0.6887	−0.7375	−0.6753	−0.7414	−0.6711	−0.7449	−0.6672
FK3番號	345		346		347		348	

星名	†38 Lync		ε Cari		83 Cncr		α Lync	
等級	3.82		2.25		6.60		3.30	
スペクトル型	A2		F0		F5		K5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 9 15	° ′ +37 2	h m 9 15	° ′ −59 1	h m 9 15	° ′ +17 56	h m 9 17	° ′ +34 3
	s	″	s	″	s	″	s	″
1 0.1	18.494 284	30.30 15	36.276 283	59.85 351	48.449 244	44.99 89	35.562 279	53.77 0
10.1	18.778 234	30.45 48	36.559 204	63.36 368	48.693 200	44.10 64	35.841 230	53.77 33
20.1	19.012 176	30.93 78	36.763 121	67.04 375	48.893 151	43.46 39	36.071 174	54.10 64
30.0	19.188 113	31.71 105	36.884 36	70.79 371	49.044 97	43.07 13	36.245 113	54.74 90
2 9.0	19.301 52	32.76 124	36.920 46	74.50 358	49.141 45	42.94 9	36.358 53	55.64 110
18.9	19.353 9	34.00 137	36.874 123	78.08 336	49.186 6	43.03 30	36.411 6	56.74 125
28.9	19.344 64	35.37 144	36.751 192	81.44 307	49.180 51	43.33 44	36.405 59	57.99 133
3 10.9	19.280 110	36.81 143	36.559 251	84.51 271	49.129 91	43.77 57	36.346 104	59.32 134
20.9	19.170 148	38.24 135	36.308 299	87.22 231	49.038 120	44.34 63	36.242 141	60.66 128
30.9	19.022 174	39.59 121	36.009 336	89.53 186	48.918 142	44.97 67	36.101 167	61.94 117
4 9.8	18.848 189	40.80 103	35.673 360	91.39 137	48.776 153	45.64 66	35.934 182	63.11 101
19.8	18.659 194	41.83 81	35.313 374	92.76 88	48.623 156	46.30 64	35.752 186	64.12 82
29.8	18.465 189	42.64 58	34.939 376	93.64 36	48.467 152	46.94 59	35.566 182	64.94 60
5 9.8	18.276 176	43.22 32	34.563 368	94.00 16	48.315 139	47.53 51	35.384 170	65.54 37
19.7	18.100 155	43.54 6	34.195 351	93.84 68	48.176 123	48.04 44	35.214 149	65.91 13
29.7	17.945 129	43.60 19	33.844 325	93.16 116	48.053 101	48.48 36	35.065 125	66.04 9
6 8.7	17.816 99	43.41 42	33.519 291	92.00 163	47.952 76	48.84 28	34.940 97	65.95 32
18.7	17.717 67	42.99 65	33.228 251	90.37 205	47.876 50	49.12 18	34.843 65	65.63 53
28.6	17.650 32	42.34 84	32.977 203	88.32 241	47.826 23	49.30 9	34.778 32	65.10 72
7 8.6	17.618 3	41.50 104	32.774 150	85.91 271	47.803 6	49.39 1	34.746 1	64.38 90
18.6	17.621 38	40.46 119	32.624 92	83.20 293	47.809 35	49.38 13	34.747 36	63.48 106
28.5	17.659 75	39.27 135	32.532 30	80.27 306	47.844 64	49.25 23	34.783 69	62.42 121
8 7.5	17.734 109	37.92 147	32.502 36	77.21 309	47.908 92	49.02 37	34.852 104	61.21 134
17.5	17.843 143	36.45 158	32.538 103	74.12 301	48.000 121	48.65 51	34.956 137	59.87 145
27.5	17.986 179	34.87 167	32.641 172	71.11 284	48.121 151	48.14 65	35.093 171	58.42 156
9 6.4	18.165 213	33.20 174	32.813 238	68.27 254	48.272 179	47.49 82	35.264 204	56.86 164
16.4	18.378 247	31.46 179	33.051 303	65.73 216	48.451 209	46.67 98	35.468 238	55.22 170
26.4	18.625 280	29.67 179	33.354 361	63.57 168	48.660 238	45.69 114	35.706 270	53.52 174
10 6.4	18.905 310	27.88 178	33.715 412	61.89 112	48.898 264	44.55 129	35.976 299	51.78 174
16.3	19.215 338	25.10 173	34.127 453	60.77 51	49.162 290	43.25 141	36.275 328	50.04 171
26.3	19.553 361	24.37 162	34.580 481	60.25 14	49.452 309	41.85 151	36.603 350	48.33 163
11 5.3	19.914 378	22.75 147	35.061 495	60.40 79	49.761 325	40.34 155	36.953 368	46.70 150
15.2	20.292 386	21.28 127	35.556 493	61.19 143	50.086 332	38.79 156	37.321 376	45.20 133
25.2	20.678 386	20.01 101	36.049 474	62.62 202	50.418 332	37.23 150	37.697 376	43.87 110
12 5.2	21.064 373	19.00 73	36.523 440	64.64 255	50.750 321	35.73 139	38.073 365	42.77 83
15.2	21.437 350	18.27 40	36.933 390	67.19 300	51.071 301	34.34 124	38.438 342	41.94 52
25.1	21.787 315	17.87 6	37.353 327	70.19 335	51.372 270	33.10 102	38.780 309	41.42 20
35.1	22.102	17.81	37.680	73.54	51.642	32.08	39.089	41.22
平位	s 18.201	″ 42.08	s 33.868	″ 67.92	s 48.116	″ 53.02	s 35.282	″ 65.12
2回正中	2月 9日		2月 9日		2月 9日		2月 10日	
a b	+0.1865	−0.0379	+0.0803	+0.0837	+0.1675	−0.0163	+0.1833	−0.0350
a′ b′	−0.7527	−0.6584	−0.7535	−0.6575	−0.7541	−0.6567	−0.7592	−0.6508
FK3番號	349		351		350		352	

星名		χ Velr		α Hyda		ε Antl		23 UMaj	
等級	スペクトル型	2.63	B3	2.16	K2	4.64	K2	3.75	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	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″
		9 20	−54 45	9 24	−8 24	9 23	−35 41	9 27	+63 18
1	0.1	22.846	51.69	47.687	39.90	54.490	59.78	3.879	29.76
	10.1	23.119 273	55.15 346	47.916 229	42.11 221	54.731 241	62.92 314	4.347 468	31.10 134
	20.1	23.322 203	58.78 363	48.104 188	44.22 211	54.921 190	66.13 321	4.734 387	32.85 175
	30.0	23.451 129	62.47 369	48.244 140	46.18 196	55.056 135	69.32 319	5.026 292	34.96 211
2	9.0	23.503 52	63.11 364	48.335 91	47.94 176	55.134 78	72.41 309	5.215 189	37.34 238
		23	350	40	153	21	291	85	254
	18.9	23.480	69.61	48.375	49.47	55.155	75.32	5.300	39.88
	28.9	23.387 93	72.90 329	48.368 7	50.75 128	55.122 33	77.99 267	5.281 19	42.47 259
3	10.9	23.231 156	75.90 300	48.319 49	51.77 102	55.040 82	80.37 238	5.165 116	45.02 255
	20.9	23.021 210	78.54 264	48.233 86	52.53 76	54.918 122	82.40 203	4.963 202	47.41 239
	30.9	22.767 254	80.79 225	48.120 113	53.04 51	54.763 155	84.08 168	4.691 272	49.55 214
		288	181	135	27	181	129	327	181
4	9.8	22.479	82.60	47.985	53.31	54.582	85.37	4.354	51.36
	19.8	22.169 310	83.93 133	47.839 146	53.34 3	54.387 195	86.25 88	4.000 364	52.77 141
	29.8	21.848 321	84.77 84	47.689 150	53.16 18	54.184 203	86.72 47	3.619 381	53.75 98
5	9.8	21.523 325	85.11 34	47.541 148	52.77 39	53.981 203	86.78 6	3.236 383	54.27 52
	19.7	21.206 317	84.95 16	47.402 139	52.20 57	53.786 195	85.43 35	2.868 368	54.32 5
		302	66	125	76	184	75	339	42
	29.7	20.904	84.29	47.277	51.44	53.602	85.68	2.529	53.90
6	8.7	20.625 279	83.15 114	47.169 108	50.53 91	53.437 165	84.55 113	2.230 299	53.04 86
	18.7	20.375 250	81.56 159	47.083 86	49.48 105	53.294 143	83.08 147	1.980 250	51.78 126
	28.6	20.160 215	79.56 200	47.018 65	48.32 116	53.175 119	81.30 178	1.786 194	50.13 165
7	8.6	19.987 173	77.20 236	46.979 39	47.07 125	53.086 89	79.25 205	1.653 133	48.16 197
		127	263	14	128	59	225	68	224
	18.6	19.860	74.57	46.965	45.79	53.027	77.00	1.585	45.92
	28.5	19.783 77	71.72 285	46.977 12	44.50 129	53.002 25	74.62 238	1.584 1	43.44 248
8	7.5	19.761 22	68.74 298	47.017 40	43.25 125	53.012 10	72.17 245	1.650 66	40.80 264
	17.5	19.796 35	65.74 300	47.085 68	42.10 115	53.059 47	69.74 243	1.783 133	38.03 277
	27.5	19.889 93	62.81 293	47.182 97	41.10 100	53.145 86	67.42 232	1.982 199	35.20 283
		154	275	127	80	126	213	266	284
9	6.4	20.043	60.06	47.309	40.30	53.271	65.29	2.248	32.36
	16.4	20.256 213	57.60 246	47.466 157	39.74 56	53.437 166	63.45 184	2.576 328	29.56 280
	26.4	20.527 271	55.52 208	47.653 187	39.48 26	53.643 206	61.97 148	2.935 389	26.86 270
10	6.4	20.850 323	53.91 161	47.870 217	39.55 7	53.887 244	60.92 105	3.413 478	24.32 254
	16.3	21.220 370	52.85 106	48.116 246	39.97 42	54.165 278	60.38 54	3.913 500	21.99 233
		409	47	271	78	309	2	548	206
	26.3	21.629	52.38	48.387	40.75	54.474	60.36	4.461	19.93
11	5.3	22.066 437	52.56 18	48.679 292	41.89 114	54.807 333	60.90 54	5.048 587	18.20 173
	15.2	22.517 451	53.37 81	48.986 307	43.35 146	55.155 348	61.98 108	5.662 614	16.86 134
	25.2	22.970 453	54.81 144	49.301 315	45.09 174	55.510 355	63.59 161	6.291 629	15.95 91
12	5.2	23.409 439	56.83 202	49.615 314	47.06 197	55.860 350	65.68 209	6.919 628	15.51 44
		410	253	304	214	333	248	609	5
	15.2	23.819	59.36	49.919	49.20	56.193	68.16	7.528	15.56
	25.1	24.187 368	62.33 297	50.203 284	51.42 222	56.500 307	70.97 281	8.101 573	16.12 56
	35.1	24.499 312	65.64 331	50.457 254	53.65 223	56.769 269	74.01 304	8.618 517	17.17 105
平位		20.827	59.58	47.157	38.33	53.416	64.69	3.418	45.23
2回正中		2月11日		2月12日		2月12日		2月12日	
a	b	+0.0928	+0.0724	+0.1471	+0.0077	+0.1236	+0.0376	+0.2354	−0.1042
a′	b′	−0.7670	−0.6416	−0.7793	−0.6267	−0.7850	−0.6195	−0.7855	−0.6189
FK3番號		353		354		356		355	

星名		† ψ Velr m		ϑ UMaj		24 UMaj		N Velr	
等級	スペクトル型	3.64	F5	3.26	F8p	4.57	G0	3.04	K5
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″
		9 28	−40 12	9 29	+51 55	9 29	+70 4	9 29	−56 46
1	0.1	28.339	52.86	3.658	63.74	29.313	41.08	31.423	47.20
	10.1	28.607 248	56.09 323	4.020 362	64.52 78	29.907 594	42.67 159	31.718 295	50.63 343
	20.1	28.802 195	59.42 333	4.321 301	65.71 119	30.395 488	44.69 202	31.942 224	54.26 363
	30.0	28.939 137	62.76 334	4.551 230	67.24 153	30.763 368	47.07 238	32.089 147	57.97 371
2	9.0	29.015 76	65.01 325	4.704 153	69.05 181	30.998 235	49.71 264	32.156 67	61.66 369
		17	309	75	202	100	279	12	358
	18.9	29.032	69.10	4.779	71.07	31.098	52.50	32.144	65.24
	28.9	28.993 39	71.96 286	4.776 3	73.19 212	31.033 35	55.33 283	32.060 84	68.62 338
3	10.9	28.903 90	74.52 256	4.702 74	75.31 212	30.902 161	58.08 275	31.908 152	71.73 311
	20.9	28.770 133	76.75 223	4.566 136	77.36 205	30.628 274	60.64 256	31.698 210	74.51 278
	30.9	28.601 169	78.60 185	4.377 189	79.24 188	30.259 369	62.91 227	31.441 257	76.89 238
		195	145	227	164	443	190	294	196
4	9.9	28.406	80.05	4.150	80.88	29.816	64.81	31.147	78.85
	19.8	28.195 211	81.08 103	3.897 253	82.21 133	29.322 494	66.28 147	30.826 321	80.34 149
	29.8	27.975 220	81.67 59	3.633 264	83.20 99	28.800 522	67.26 98	30.491 335	81.35 101
5	9.8	27.753 222	81.83 16	3.369 264	83.82 62	28.273 527	67.73 47	30.149 342	81.84 49
	19.7	27.538 215	81.55 28	3.118 251	84.05 23	27.762 511	67.70 3	29.813 336	81.83 1
		202	71	231	16	476	54	324	53
	29.7	27.336	80.84	2.887	83.89	27.286	67.16	29.489	81.30
6	8.7	27.151 185	79.73 111	2.687 200	83.36 53	26.860 426	66.14 102	29.185 304	80.29 101
	18.7	26.939 212	78.23 150	2.522 165	82.47 89	26.497 363	64.68 146	28.910 275	78.82 147
	28.6	26.853 86	76.40 183	2.398 124	81.26 121	26.208 289	62.82 186	28.670 240	76.91 191
7	8.6	26.747 106	74.28 212	2.317 81	79.76 150	25.999 209	60.61 221	28.471 199	74.64 227
		73	234	36	175	122	250	152	259
	18.6	26.674	71.94	2.281	78.01	25.877	58.11	28.319	72.05
	28.6	26.636 38	69.43 251	2.292 11	76.04 197	25.845 32	55.37 274	28.219 100	69.23 282
8	7.5	26.637 1	66.83 260	2.350 58	73.89 215	25.902 57	52.46 291	28.175 44	66.26 297
	17.5	26.678 41	64.24 259	2.454 104	71.61 228	25.051 149	49.45 301	28.192 17	63.24 302
	27.5	26.761 83	61.75 249	2.605 151	69.23 238	25.289 238	46.38 307	28.270 78	60.27 297
		126	231	198	244	327	307	143	282
9	6.4	26.887	59.44	2.803	66.79	26.616	43.31	28.413	57.45
	16.4	27.056 169	57.41 203	3.047 244	64.33 246	27.027 411	40.32 299	28.620 207	54.90 255
	26.4	27.268 212	55.76 165	3.335 288	61.91 242	27.520 493	37.47 285	28.888 268	52.71 219
10	6.4	27.521 253	54.54 122	3.667 332	59.57 234	28.089 569	34.80 267	29.215 327	50.97 174
	16.3	27.811 290	53.83 71	4.040 373	57.35 222	28.727 638	32.59 241	29.593 378	49.77 120
		323	16	408	204	699	209	421	61
	26.3	28.134	53.67	4.448	55.31	29.426	30.30	30.014	49.16
11	5.3	28.481 347	54.09 42	4.888 440	53.51 180	30.175 749	28.58 172	30.466 452	49.19 3
	15.3	28.845 364	55.08 99	5.351 463	52.00 151	30.958 783	27.30 128	30.937 471	49.86 67
	25.2	29.214 369	56.63 155	5.827 476	50.82 118	31.760 802	26.49 81	31.411 474	51.17 131
12	5.2	29.579 365	58.68 205	6.305 478	50.04 78	32.559 799	26.19 30	31.873 462	53.07 190
		346	249	465	37	775	24	435	244
	15.2	29.925	61.17	6.770	49.67	33.334	26.43	32.308	55.51
	25.1	30.243 318	64.02 285	7.209 439	49.75 8	34.060 726	27.20 77	32.699 391	58.41 290
	35.1	30.521 278	67.14 312	7.607 398	50.23 51	34.716 656	28.49 129	33.035 336	61.67 326
平位		27.140	58.83	3.388	77.94	28.641	57.12	29.304	56.25
2回正中		2月13日		2月13日		2月13日		2月13日	
a	b	+0.1187	+0.0445	−0.2054	−0.0673	+0.2657	−0.1457	+0.0912	+0.0806
a′	b′	−0.7892	−0.6141	−0.7908	−0.6120	−0.7920	−0.6103	−0.7920	−0.6105
FK3番號		359		358		357		361	

本初子午線正中時

星名	10 LMin		H Cari		Grb 1564 UMaj		x Hyda	
等級	4.62		5.52		5.74		4.96	
スペクトル型	G5		K2		K0		B3	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 9 30	° ′ +36 38	h m 9 31	° ′ −72 49	h m 9 37	° ′ +69 29	h m 9 37	° ′ −14 4
	s	″	s	″	s	″	s	″
1 0.1	44.445 298	54.39 1	16.179 453	29.49 338	24.617 594	38.17 148	35.303 221	21.82 244
10.1	44.743 248	54.40 37	16.632 324	32.87 365	25.211 495	39.65 192	35.524 169	24.26 239
20.1	44.991 193	54.77 69	16.956 189	36.52 379	25.703 379	41.57 230	35.693 109	26.65 228
30.0	45.184 132	55.46 98	17.145 51	40.31 385	25.085 252	43.87 259	35.802 50	28.93 209
2 9.0	45.316 70	56.44 120	17.193 85	44.16 379	23.337 120	46.46 276	35.852 8	31.02 188
18.9	45.386 10	57.64 137	17.111 212	47.95 364	23.457 11	49.22 282	35.844 62	32.90 163
28.9	45.395 46	59.01 146	16.899 330	51.59 341	25.446 136	52.04 276	35.782 110	34.53 137
3 10.9	45.350 94	60.47 148	16.569 433	55.00 312	26.310 246	54.80 260	35.672 148	35.90 109
20.9	45.256 133	61.95 141	16.136 521	58.12 274	26.064 342	57.40 232	35.524 179	36.99 80
30.9	45.123 162	63.36 131	15.615 591	60.86 233	25.722 417	59.72 197	35.345 198	37.79 53
4 9.9	44.931 180	64.67 114	15.024 645	63.19 186	25.305 470	61.69 155	35.147 209	38.32 26
19.8	44.781 188	65.81 93	14.379 680	65.05 136	24.835 500	63.24 108	34.938 208	38.58 0
29.8	44.593 186	66.74 69	13.699 701	66.41 84	24.335 509	64.32 58	34.730 201	38.58 26
5 9.8	44.407 176	67.43 44	12.998 701	67.25 29	23.826 496	64.90 6	34.529 185	38.32 50
19.7	44.231 158	67.87 18	12.297 686	67.54 24	23.339 467	64.93 44	34.344 164	37.82 72
29.7	44.073 136	68.05 8	11.611 655	67.30 78	22.863 422	64.52 92	34.180 138	37.10 93
6 8.7	43.937 109	67.97 32	10.956 608	66.52 130	22.441 363	63.60 137	34.042 108	35.17 111
18.7	43.828 79	67.65 56	10.348 547	65.22 177	22.078 295	62.23 178	33.934 76	35.06 127
28.6	43.749 46	67.09 78	9.801 470	63.45 220	21.783 218	60.45 214	33.858 42	33.79 140
7 8.6	43.703 14	66.31 99	9.331 381	61.25 258	21.565 137	58.31 245	33.816 6	32.39 147
18.6	43.689 21	65.32 117	8.950 280	58.67 286	21.428 51	55.86 270	33.810 30	30.92 151
28.6	43.710 55	64.15 133	8.670 168	55.81 308	21.377 35	53.16 288	33.840 67	29.41 150
8 7.5	43.765 90	62.82 148	8.502 50	52.73 318	21.412 124	50.28 302	33.907 104	27.91 142
17.5	43.855 124	61.34 161	8.452 74	49.55 319	21.536 209	47.26 308	34.011 141	26.49 129
27.5	43.979 160	59.73 172	8.526 201	46.36 308	21.745 297	44.18 310	34.152 177	25.20 110
9 6.4	44.139 194	58.01 181	8.727 325	43.28 285	22.042 379	41.08 304	34.329 213	24.10 85
16.4	44.333 230	56.20 187	9.052 444	40.43 253	22.421 460	38.04 292	34.542 247	23.25 54
26.4	44.563 264	54.33 190	9.496 553	37.90 209	22.881 537	35.12 275	34.789 279	22.71 19
10 6.4	44.827 296	52.43 189	10.049 646	35.81 157	23.418 606	32.37 250	35.068 308	22.52 19
16.3	45.123 327	50.54 186	10.695 721	34.24 98	24.024 669	29.87 221	35.376 331	22.71 59
26.3	45.450	48.68	11.416	33.26	24.693	27.66	35.707	23.30
11 5.3	45.803 353	46.92 176	12.189 773	32.92 34	25.412 719	25.83 183	36.055 348	24.29 99
15.3	46.176 373	45.29 163	12.988 799	33.25 33	26.170 758	24.41 142	36.412 357	25.66 137
25.2	46.560 384	43.87 142	13.784 796	34.26 101	26.949 779	23.47 94	36.770 358	27.37 171
12 5.2	46.947 387 378	42.69 118 88	14.551 767 709	35.90 164 222	27.730 781 761	23.04 43 10	37.118 348 326	29.38 201 222
15.2	47.325	41.81	15.250	38.12	28.491	23.14	37.444	31.60
25.1	47.683 358	41.25 56	15.887 627	40.87 275	29.210 719	23.78 64	37.739 295	33.97 237
35.1	48.009 326	41.04 21	16.410 523	44.03 316	29.863 653	24.93 117	37.993 254	36.41 244
平位	s 44.238	″ 66.11	s 11.550	″ 40.71	s 24.080	″ 54.33	s 34.341	″ 22.31
2回正中	2月13日		2月13日		2月15日		2月15日	
a b	+0.1834	−0.0395	+0.0229	+0.1718	+0.2572	−0.1449	+0.1436	+0.0136
a′ b′	−0.7953	−0.6062	−0.7965	−0.6046	−0.8123	−0.5828	−0.8139	−0.5822
FK3番號	360		362		363		364	

1943 本初子午線正中時

星名	o Leon		ϑ Antl		ε Leon		† υ Cari	
等級	3.76		4.98		3.12		3.15	
スペクトル型	F5, A3		F5p		G0p		F0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 9 38	° ′ +10 8	h m 9 41	° ′ −27 30	h m 9 42	° ′ +24 1	h m 9 45	° ′ −64 48
	s	″	s	″	s	″	s	″
1 0.1	6.878 251	63.60 138	40.306 247	23.82 289	37.331 275	66.57 71	43.516 380	13.52 335
10.1	7.129 212	62.22 117	40.553 203	26.71 292	37.606 233	65.86 42	43.896 291	16.87 360
20.1	7.341 164	61.05 93	40.756 152	29.63 289	37.839 185	65.44 11	44.187 197	20.47 376
30.1	7.505 115	60.12 67	40.908 100	32.52 276	38.024 130	65.33 18	44.384 99	24.23 381
2 9.0	7.620 64	59.45 43	41.008 46	35.28 258	38.154 76	65.51 43	44.483 2	28.04 375
18.9	7.684	59.02	41.054	37.86	38.230	65.94	44.485	31.79
28.9	7.699 15	58.82 20	41.049 5	40.21 235	38.253 23	66.59 65	44.395 90	35.41 362
3 10.9	7.668 31	58.84 2	40.999 50	42.28 207	38.227 26	67.40 81	44.219 176	38.80 339
20.9	7.600 68	59.03 19	40.908 91	44.04 176	38.158 69	68.31 91	43.969 250	41.90 310
30.9	7.500 100 123	59.36 33 44	40.785 123 147	45.47 143 109	38.054 104 130	69.28 97 97	43.654 315 368	44.63 273 233
4 9.9	7.377 137	59.80	40.638 163	46.56 73	37.924 148	70.25 92	43.286 406	46.96 187
19.8	7.240 143	60.32 52	40.475 171	47.29 37	37.776 155	71.17 84	42.880 434	48.83 139
29.8	7.097 143	60.89 57	40.304 174	47.66 2	37.621 155	72.01 73	42.446 449	50.22 88
5 9.8	6.954 134	61.48 59	40.130 168	47.68 33	37.466 147	72.74 60	41.997 453	51.10 35
19.7	6.820 122	62.08 60	39.962 158	47.35 67	37.319 135	73.34 45	41.544 444	51.45 19
29.7	6.693 106	62.68 58	39.804 143	46.68 99	37.184 117	73.79 30	41.100 426	51.26 71
6 8.7	6.592 85	63.26 54	39.661 125	45.69 128	37.067 95	74.09 14	40.674 397	50.55 121
18.7	6.507 63	63.80 50	39.536 104	44.41 154	36.972 71	74.23 1	40.277 359	49.34 168
28.6	6.444 39	64.30 45	39.432 79	42.87 176	36.901 45	74.22 17	39.918 310	47.66 211
7 8.6	6.405 14	64.75 38	39.353 53	41.11 193	36.856 18	74.05 32	39.608 254	45.55 247
18.6	6.391 11	65.13 29	39.300 25	39.18 204	36.838 10	73.73 47	39.354 188	43.08 277
28.6	6.402 38	65.42 18	39.275 6	37.14 209	36.848 38	73.26 63	39.166 117	40 31 298
8 7.5	6.440 66	65.60 6	39.281 39	35.05 206	36.886 68	72.63 78	39.049 39	37.33 309
17.5	6.506 93	65.66 10	39.320 72	32.99 196	36.954 98	71.85 93	39.010 44	34.24 310
27.5	6.599 122	65.56 28	39.392 108	31.03 177	37.052 129	70.92 108	39.054 129	31.14 301
9 6.4	6.721 152	65.28 47	39.500 145	29.26 152	37.181 161	69.84 123	39.183 215	28.13 280
16.4	6.873 183	64.81 67	39.645 182	27.74 118	37.342 193	68.61 138	39.398 298	25.33 248
26.4	7.056 212	64.14 90	39.827 218	26.56 79	37.535 225	67.23 150	39.696 378	22.85 207
10 6.4	7.268 242	63.24 112	40.045 251	25.77 34	37.760 256	65.73 162	40.074 448	20.78 155
16.3	7.510 269	62.12 131	40.296 283	25.43 14	38.016 285	64.11 169	40.522 507	19.23 98
26.3	7.779	60.81	40.579	25.57	38.301	62.42	41.029	18.25
11 5.3	8.072 293	59.31 150	40.887 308	26.21 64	38.612 311	60.69 173	41.581 552	17.91 34
15.3	8.383 311	57.68 163	41.213 326	27.34 113	38.943 331	58.96 173	42.160 579	18.22 31
25.2	8.705 322	55.95 172	41.549 336	28.93 159	39.287 344	57.30 166	42.747 587	19.19 97
12 5.2	9.030 325 318	54.20 176 173	41.885 336 326	30.94 201 236	39.636 349 343	55.75 155 138	43.323 576 544	20.80 161 219
15.2	9.348	52.47	42.211	33.30	39.979	54.37	43.867	22.99
25.1	9.650 302	50.83 164	42.515 304	35.92 262	40.306 327	53.22 115	44.361 494	25.69 270
35.1	9.925 275	49.34 149	42.788 273	38.74 282	40.603 300	52.33 89	44.787 426	28.82 313
平位	s 6.593	″ 69.31	s 39.516	″ 27.92	s 37.153	″ 75.54	s 40.678	″ 25.23
2回正中	2月15日		2月16日		2月16日		2月17日	
a b	+0.1603	−0.0097	+0.1336	+0.0286	+0.1701	+0.0246	+0.0749	+0.1181
a′ b′	−0.8144	−0.5803	−0.8233	−0.5676	−0.8257	−0.5342	−0.8331	−0.5531
FK3番號	365		366		367		369	

星名	υ UMaj		6 Sext		μ Leon		183 G. Hyda	
等級	3.89		6.00		4.10		5.16	
スペクトル型	F0		A2		K0		M0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 9 46	° ′ +59 17	h m 9 48	° ′ −3 58	h m 9 49	° ′ +26 16	h m 9 52	° ′ −18 44
	s	″	s	″	s	″	s	″
1 0.1	57.402	73.47	22.033	33.10	31.675	25.33	11.372	16.42
10.1	57.848 446	74.43 96	22.282 249	35.15 205	31.960 285	24.68 65	11.624 252	19.03 261
20.1	58.223 378	75.83 140	22.493 211	37.09 194	32.203 243	24.36 32	11.834 210	21.62 259
30.1	58.523 297	77.63 180	22.658 165	38.85 176	32.397 194	24.35 1	11.998 164	24.13 251
2 9.0	58.731 208	79.75 212	22.774 116	40.40 155	32.537 140	24.64 29	12.112 114	26.49 236
	117	234	67	131	84	56	64	216
19.0	58.848	82.09	22.841	41.71	32.621	25.20	12.176	28.65
28.9	58.872 24	84.55 246	22.861 20	42.78 107	32.652 31	25.97 77	12.191 15	30.58 193
3 10.9	58.809 63	87.03 248	22.837 24	43.60 82	32.632 20	26.91 94	12.161 30	32.24 166
20.9	58.668 141	89.41 238	22.775 62	44.18 58	32.567 65	27.95 104	12.092 69	33.61 137
30.9	58.460 208	91.61 220	22.682 93	44.53 35	32.467 100	29.03 108	11.992 100	34.69 108
	261	194	116	14	129	108	125	78
4 9.9	58.199	93.55	22.566	44.67 6	32.338	30.11	11.867	35.47
19.8	57.901 298	95.14 159	22.435 131	44.61 24	32.191 147	31.12 101	11.726 141	35.95 48
29.8	57.582 319	96.34 120	22.297 138	44.37 40	32.035 156	22.03 91	11.576 150	36.14 19
5 9.8	57.256 326	97.11 77	22.157 140	43.97 78	31.877 158	32.81 63	11.424 152	36.04 10
19.8	56.937 319	97.45 34	22.024 133	43.43 54	31.726 151	33.44 45	11.275 149	35.66 38
	299	12	125	67	140		140	64
29.7	56.638	97.33	21.899	42.76	31.586	33.89	11.135	35.02
6 8.7	56.368 270	96.78 55	21.790 109	41.97 79	31.464 122	34.17 28	11.008 127	34.14 88
18.7	56.135 233	95.81 97	21.697 93	41.09 88	31.362 102	34.27 10	10.898 110	33.03 111
28.6	55.947 188	94.46 135	21.624 73	40.14 95	31.284 78	34.19 8	10.806 92	31.72 131
7 8.6	55.808 139	92.76 170	21.572 52	39.13 101	31.232 52	33.94 25	10.736 70	30.25 147
	85	200	28	101	26	43	47	158
18.6	55.723	90.76	21.544	38.12	31.206	33.51	10.689	28.67
28.6	55.691 32	88.50 226	21.540 4	37.11 101	31.209 3	32.92 59	10.668 21	27.01 166
8 7.5	55.717 26	86.03 247	21.561 21	36.16 95	31.241 32	32.16 76	10.674 6	25.34 167
17.5	55.799 82	83.39 264	21.609 48	35.31 85	31.302 61	31.24 92	10.709 35	23.72 162
27.5	55.939 140	80.65 274	21.685 76	34.60 71	31.393 91	30.16 108	10.774 65	22.20 152
	199	281	107	53	124	123	99	133
9 6.5	56.138	77.84	21.792	34.07	31.517	28.93	10.873	20.87
16.4	56.392 254	75.03 281	21.928 136	33.78 29	31.673 156	27.55 138	11.005 132	19.78 109
26.4	56.703 311	72.26 277	22.096 168	33.74 4	31.861 188	26.04 151	11.171 166	18.99 79
10 6.4	57.070 367	69.58 268	22.296 200	34.01 27	32.084 223	24.40 164	11.372 201	18.56 43
16.3	57.487 417	67.08 250	22.525 230	34.59 58	32.338 254	22.68 172	11.606 234	18.53 3
	464	230	258	90	285	179	264	39
26.3	57.951	64.78	22.784	35.49	32.623	20.89	11.870	18.92
11 5.3	58.456 505	62.77 201	23.068 284	36.71 122	32.935 312	19.08 181	12.161 291	19.75 83
15.3	58.992 536	61.11 166	23.371 303	38.20 149	33.269 334	17.29 179	12.472 311	20.99 124
25.2	59.549 557	59.84 127	23.686 315	39.95 175	33.617 348	15.59 170	12.795 323	22.62 163
12 5.2	60.112 563	59.01 83	24.005 319	41.88 193	33.972 355	14.03 156	13.121 326	24.60 198
	554	34	313	205	350	136	319	224
15.2	60.666	58.67	24.318	43.93	34.322	12.67	13.440	26.84
25.2	61.194 528	58.82 15	24.615 297	46.04 211	34.657 335	11.54 113	13.743 303	29.29 245
35.1	61.680 486	59.47 65	24.887 272	48.14 210	34.966 309	10.71 83	14.018 275	31.86 257
平位	s 57.211	″ 88.83	s 21.657	″ 31.46	s 31.543	″ 34.73	s 10.804	″ 18.95
2回正中	2月17日		2月18日		2月18日		2月19日	
a b	+0.2149	−0.0939	+0.1508	+0.0039	+0.1711	−0.0277	+0.1414	+0.0192
a′ b′	−0.8362	−0.5485	+0.8395	−0.5433	−0.8423	−0.5391	−0.8485	−0.5293
FK3番號	368		370		371		373	

星名	Grb 1586 UMaj		19 LMin		φ Velr		η Antl	
等級	5.95		5.19		3.70		5.25	
スペクトル型	K0		F5		B5		F0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 9 53	° ′ +73 8	h m 9 54	° ′ +41 19	h m 9 54	° ′ −54 17	h m 9 53	° ′ −35 36
	s	″	s	″	s	″	s	″
1 0.1	20.382	50.18	12.098	28.23	53.241	33.71	26.248	55.89
10.1	21.113 731	51.61 143	12.431 333	28.28 5	53.564 323	36.99 328	26.518 270	58.93 304
20.1	21.734 621	53.53 192	12.717 286	28.74 46	53.822 258	40.50 351	26.742 224	62.08 315
30.1	22.222 488	55.86 233	12.947 230	29.58 84	54.011 189	44.13 363	26.913 171	65.25 317
2 9.0	22.533 341	58.50 264	13.114 167	30.74 116	54.126 115	47.78 365	27.028 115	68.36 311
	185	286	103	143	41	358	58	297
19.0	22.748	61.36	13.217	32.17	54.167	51.36	27.086	71.33
28.9	22.777 29	64.30 294	13.255 38	33.79 162	54.138 29	54.78 342	27.091 5	74.10 277
3 10.9	22.654 123	67.21 291	13.233 22	35.52 173	54.044 94	57.97 319	27.046 45	76.60 250
20.9	22.392 262	69.97 276	13.157 76	37.29 177	53.892 152	60.86 289	26.957 89	78.80 220
30.9	22.011 381	72.48 251	13.036 121	39.00 171	53.692 200	63.40 254	26.833 124	80.67 187
	481	215	157	158	240	214	153	149
4 9.9	21.530	74.63	12.879	40.58	53.452	65.54	26.680	82.16
19.8	20.976 554	76.36 173	12.698 181	41.98 140	53.183 269	67.23 169	26.506 174	83.28 112
29.8	20.375 601	77.62 126	12.504 194	43.14 116	52.894 289	68.47 124	26.321 185	84.00 72
5 9.8	19.752 623	78.35 73	12.305 199	44.03 89	52.595 299	69.22 75	26.129 192	84.32 32
19.8	19.133 619	78.56 21	12.112 193	44.62 59	52.293 302	69.48 26	25.940 189	84.23 9
	594	32	180	28	295	24	183	47
29.7	18.539	78.24	11.932	44.90	51.997	69.24	25.757	83.76
6 8.7	17.990 549	77.40 84	11.771 161	44.87 3	51.715 282	68.51 73	25.587 170	82.90 86
18.7	17.503 487	76.08 132	11.635 136	44.53 34	51.452 263	67.32 119	25.432 155	81.68 122
28.7	17.092 411	74.32 176	11.527 108	43.90 63	51.217 235	65.69 163	25.298 134	80.15 153
7 8.6	16.767 325	72.17 215	11.449 78	43.00 90	51.013 204	63.67 202	25.187 111	78.33 182
	230	249	44	115	164	235	83	206
18.6	16.537	69.68	11.405	41.85	50.849	61.32	25.104	76.27
28.6	16.407 130	66.90 278	11.395 10	40.46 139	50.729 120	58.70 262	25.050 54	74.05 222
8 7.5	16.381 26	63.90 300	11.421 26	38.87 159	50.658 71	55.90 280	25.029 21	71.73 232
17.5	16.460 79	60.75 315	11.483 62	37.11 176	50.640 18	52.99 291	25.043 14	69.38 235
27.5	16.645 185	57.51 324	11.582 99	35.19 192	50.679 39	50.10 289	25.095 52	67.09 229
	292	327	137	205	100	279	92	214
9 6.5	16.937	54.24	11.719	33.14	50.779	47.31	25.187	64.95
16.4	17.333 396	51.02 322	11.895 176	31.00 214	50.939 160	44.73 258	25.321 134	63.05 190
26.4	17.828 495	47.89 313	12.110 215	28.80 220	51.160 221	42.47 226	25.497 176	61.47 158
10 6.4	18.420 592	44.94 295	12.364 254	26.57 223	51.440 280	40.62 185	25.714 217	60.29 118
16.4	19.101 681	42.23 271	12.656 292	24.36 221	51.774 334	39.26 136	25.971 257	59.56 73
	761	241	327	214	381	80	292	22
26.3	19.862	39.82	12.983	22.22	52.155	38.46	26.263	59.34
11 5.3	20.690 828	37.79 203	13.342 359	20.20 202	52.574 419	38.27 19	26.585 322	59.66 32
15.3	21.571 881	36.19 160	13.727 385	18.35 185	53.018 444	38.71 44	26.929 344	60.52 86
25.2	22.485 914	35.08 111	14.129 402	16.74 161	53.474 456	39.79 108	27.286 357	61.91 139
12 5.2	23.409 924	34.50 58	14.539 410	15.42 132	53.929 455	41.46 167	27.645 359	63.79 188
	909	2	406	97	435	222	350	230
15.2	24.318	34.48	14.945	14.45	54.364	43.68	27.995	66.09
25.2	25.185 867	35.03 55	15.335 390	13.85 60	54.768 404	46.37 269	28.323 328	68.74 265
35.1	25.982 797	36.14 111	15.696 361	13.65 20	55.124 356	49.46 309	28.619 296	71.66 292
平位	s 19.925	″ 66.84	s 12.034	″ 40.81	s 51.484	″ 44.60	s 25.323	″ 62.97
2回正中	2月19日		2月19日		2月19日		2月20日	
a b	+0.2589	−0.1874	+0.1839	−0.0500	+0.1052	+0.0793	+0.1288	+0.0410
a′ b′	−0.8511	−0.5250	−0.8531	−0.5218	−0.8546	−0.5193	−0.8531	−0.5135
FK3番號	372		374		375		377	

本初子午線正中時

星名	12 Sext		π Leon		η Leon		α Leon	
等級	6.63		4.89		3.58		1.34	
スペクトル型	A5		M0		A0p		B8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 9 55	° ′ +3 39	h m 9 57	° ′ +8 18	h m 10 4	° ′ +17 2	h m 10 5	° ′ +12 14
1 0.1	s 45.940	″ 25.51	s 12.351	″ 61.93	s 13.739	″ 22.18	s 20.429	″ 42.13
10.1	46.199 259	23.77 174	12.615 264	60.39 154	14.018 279	21.01 117	20.702 273	40.74 139
20.1	46.420 221	22.20 157	12.840 225	59.06 133	14.259 241	20.11 90	20.937 235	39.58 116
30.1	46.597 177	20.84 136	13.021 181	57.97 109	14.455 196	19.50 61	21.129 192	38.69 89
2 9.0	46.726 129	19.73 111	13.154 133	57.13 84	14.601 146	19.18 32	21.271 142	38.07 62
	80	87	82	58	94	4	93	35
19.0	46.805	18.86	13.236	56.55	14.695	19.14	21.364	37.72
28.9	46.837 31	18.25 61	13.270 34	56.23 32	14.739 44	19.34 20	21.407 43	37.63 9
3 10.9	46.824 13	17.87 38	13.258 12	56.12 11	14.736 3	19.75 41	21.404 3	37.76 13
20.9	46.771 53	17.70 17	13.207 51	56.21 9	14.691 45	20.33 58	21.360 44	38.07 31
30.9	46.688 83	17.72 2	13.123 84	56.47 26	14.610 81	21.02 69	21.282 78	38.53 46
	109	19	109	39	108	77	105	57
4 9.9	46.579	17.91	13.014	56.86	14.502	21.79	21.177	39.10
19.8	46.454 125	18.24 33	12.889 125	57.34 48	14.376 126	22.59 80	21.054 123	39.73 63
29.8	46.320 134	18.67 43	12.754 135	57.90 56	14.239 137	23.38 79	20.921 133	40.40 67
5 9.8	46.184 136	19.20 53	12.617 137	58.50 60	14.098 141	24.12 74	20.784 137	41.08 68
19.8	46.053 131	19.79 59	12.485 132	59.12 62	13.931 137	24.81 69	20.651 133	41.74 66
	122	65	122	63	128	60	125	63
29.7	45.931	20.44	12.363	59.75	13.833	25.41	20.526	42.37
6 8.7	45.822 109	21.12 68	12.253 110	60.37 62	13.718 115	25.92 51	20.413 113	42.95 58
18.7	45.729 93	21.83 71	12.161 92	60.98 61	13.620 98	26.32 40	20.317 96	43.47 52
28.7	45.655 74	22.55 72	12.088 73	61.54 56	13.541 79	26.60 28	20.238 79	43.91 44
7 8.6	45.602 53	23.24 69	12.036 52	62.06 52	13.483 58	26.77 17	20.181 57	44.27 36
	30	67	30	45	34	4	35	27
18.6	45.572	23.91	12.006	62.51	13.449	26.81	20.146	44.54
28.6	45.535 7	24.51 60	12.001 5	62.87 36	13.439 10	25.72 9	20.134 12	44.69 15
8 7.5	45.583 18	25.03 52	12.020 19	63.13 26	13.455 16	26.47 25	20.147 13	44.72 3
17.5	45.627 44	25.44 41	12.066 46	63.26 13	13.497 42	26.08 39	20.186 39	44.61 11
27.5	45.698 71	25.69 25	12.140 74	63.23 3	13.538 71	25.52 56	20.253 67	44.33 28
	101	7	103	21	101	74	95	46
9 6.5	45.799	25.76	12.243	63.02	13.669	24.78	20.349	43.87
16.4	45.930 131	25.62 14	12.376 133	62.61 41	13.801 132	23.86 92	20.476 127	43.23 64
26.4	46.093 163	25.24 38	12.540 164	61.98 63	13.965 164	22.76 110	20.635 159	42.37 86
10 6.4	46.287 194	24.60 64	12.737 197	61.12 86	14.162 197	21.47 129	20.827 192	41.30 107
16.4	46.513 226	23.70 90	12.964 227	60.03 109	14.392 230	20.01 146	21.051 224	40.03 127
	255	116	257	131	260	161	254	146
26.3	46.768	22.54	13.221	53.72	14.652	18.40	21.305	38.57
11 5.3	47.049 281	21.14 140	13.505 284	57.21 151	14.941 289	16.67 173	21.588 283	36.95 162
15.3	47.351 302	19.54 160	13.810 305	55.53 168	15.253 312	14.87 180	21.893 305	35.20 175
25.2	47.668 317	17.76 178	14.129 319	53.75 178	15.582 329	13.04 183	22.215 322	33.37 183
12 5.2	47.990 322	15.87 189	14.455 326	51.90 185	15.919 337	11.25 179	22.545 330	31.53 184
	318	193	322	184	335	169	328	179
15.2	48.308	13.94	14.777	50.06	16.254	9.53	22.873	29.74
25.2	48.613 305	12.04 190	15.086 309	48.28 178	16.577 323	8.03 153	23.189 316	28.05 169
35.1	48.894 281	10.21 183	15.371 285	46.64 164	16.877 300	6.71 132	23.483 294	26.53 152
平位	s 45.683	″ 28.91	s 12.139	″ 66.59	s 13.628	″ 29.00	s 20.288	″ 47.62
2回正中	2月20日		2月20日		2月22日		2月22日	
a b	+0.1555	−0.0037	+0.1533	−0.0084	+0.1632	−0.0179	+0.1603	−0.0127
a′ b′	−0.8539	−0.5122	−0.8599	−0.5105	−0.8751	−0.4840	−0.8774	−0.4797
FK3番號	376		378		379		380	

本初子午線正中時

星名	λ Hyda		191 G. Velr		ω Cari		ζ Leon	
等級	3.83		4.09		3.53		3.65	
スペクトル型	K0		A2		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 10 7	° ′ −12 4	h m 10 12	° ′ −41 50	h m 10 12	° ′ −69 45	h m 10 13	° ′ +23 41
1 0.2	s 48.869	″ 16.41	s 21.385	″ 10.48	s 26.463	″ 1.50	s 31.411	″ 59.13
10.1	49.131 262	18.78 237	21.684 299	13.55 307	26.967 504	4.62 312	31.707 296	58.21 92
20.1	49.355 224	21.10 232	21.935 251	16.79 324	27.372 405	8.06 344	31.985 258	57.61 60
30.1	49.535 180	23.30 220	22.130 195	20.12 333	27.669 297	11.74 368	32.179 214	57.34 27
2 9.0	49.667 132	25.34 204	22.267 137	23.43 331	27.852 183	15.55 381	32.341 162	57.40 6
	83	182	77	323	68	384	109	34
19.0	49.750	27.16	22.344	26.66	27.920	19.39	32.450	57.74
28.9	49.785 35	28.75 159	22.384 20	29.72 306	27.876 44	23.16 377	32.506 56	58.34 60
3 10.9	49.776 9	30.07 132	22.329 35	32.54 282	27.726 150	26.78 362	32.513 7	59.14 80
20.9	49.728 48	31.14 107	22.247 82	35.08 254	27.481 245	30.16 338	32.474 39	60.09 95
30.9	49.647 81	31.93 79	22.125 122	37.30 222	27.152 329	33.23 307	32.398 76	61.13 104
	106	54	156	185	401	271	106	107
4 9.9	49.541	32.47	21.939	39.15	23.751	35.94	32.292	62.20
19.9	49.417 124	32.76 29	21.788 181	40.60 145	25.290 461	38.23 229	32.164 128	63.24 104
29.8	49.282 135	32.80 4	21.591 197	41.65 105	25.786 504	40.07 184	32.023 141	64.23 99
5 9.8	49.144 138	32.62 18	21.383 208	42.27 62	25.249 537	41.41 134	31.877 146	65.11 88
19.8	49.007 137	32.22 40	21.174 209	42.46 19	24.695 554	42.22 81	31.733 144	65.85 74
	131	60	208	24	559	28	136	60
29.7	48.876	31.62 78	20.936	42.22	24.136	42.50	31.597	66.45
6 8.7	48.753 120	30.84 78	20.768 198	41.55 67	23.586 550	42.24 26	31.472 125	66.89 44
18.7	48.649 107	29.89 95	20.584 184	40.49 106	23.059 527	41.45 79	31.364 108	67.16 27
28.7	48.530 89	28.80 109	20.418 166	39.05 144	22.537 492	40.15 130	31.275 89	67.25 9
7 8.6	48.489 71	27.60 120	20.274 144	37.28 177	22.123 444	38.38 177	31.208 67	67.16 9
	50	128	117	206	384	220	44	26
18.6	48.439	23.32	20.157	35.22	21.739	36.18	31.164	66.90
28.6	48.412 27	25.00 132	20.071 86	32.94 228	21.428 311	33.63 255	31.144 20	66.46 44
8 7.6	48.410 2	23.70 130	20.019 52	30.50 244	21.201 227	30.79 284	31.152 8	65.84 62
17.5	48.434 24	22.45 125	20.005 14	27.99 251	21.066 135	27.77 302	31.187 35	65.05 79
27.5	48.487 53	21.32 113	20.033 28	25.50 249	21.033 33	24.65 312	31.251 64	64.08 97
	84	96	73	239	73	310	95	115
9 6.5	48.571	20.36	20.106	23.11	21.106	21.55	31.346	62.93
16.4	48.688 117	19.63 73	20.225 119	20.92 219	21.288 182	18.58 297	31.473 127	61.62 131
26.4	48.838 150	19.17 46	20.392 167	19.03 189	21.579 291	15.85 273	31.635 162	60.14 148
10 6.4	49.023 185	19.04 13	20.607 215	17.51 152	21.974 395	13.47 238	31.831 196	58.51 163
16.4	49.241 218	19.26 22	20.867 260	16.45 106	22.463 489	11.55 192	32.062 231	55.75 176
	250	59	301	55	573	138	264	186
26.3	49.491	19.85	21.168	15.90	23.036	10.17	32.326	54.89
11 5.3	49.769 278	20.82 97	21.505 337	15.91 1	23.674 638	9.39 78	32.620 294	52.97 192
15.3	50.070 301	22.15 133	21.868 363	16.48 57	24.357 683	9.25 14	32.940 320	51.05 192
25.3	50.386 316	23.81 166	22.247 379	17.62 114	25.062 705	9.78 53	33.278 338	49.17 188
12 5.2	50.709 323	25.75 194	22.632 385	19.30 168	25.766 704	10.97 119	33.628 350	47.40 177
	320	215	377	216	676	180	349	160
15.2	51.029	27.90	23.009	21.46	26.442	12.77	33.977	45.80
25.2	51.335 306	30.20 230	23.365 356	24.04 258	27.068 626	15.14 237	34.316 339	44.42 138
35.1	51.618 283	32.57 237	23.690 325	26.94 290	27.624 556	18.00 286	34.634 318	43.31 111
平位	s 48.480	″ 17.94	s 20.354	″ 20.19	s 23.121	″ 16.25	s 31.391	″ 67.50
2回正中	2月23日		2月24日		2月24日		2月24日	
a b	+0.1466	+0.0126	+0.1263	+0.0532	+0.0715	+0.1612	+0.1664	−0.0262
a′ b′	−0.8826	−0.4702	−0.8917	−0.4527	−0.8918	−0.4525	−0.8940	−0.4481
FK3番號	381		382		385		384	

星名	λ UMaj		μ UMaj		30 H.UMaj		25 Sext	
等級	3.52		3.21		4.92		6.10	
スペクトル型	A2		K5		A0		B9	
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 13	° ′ ″ +43 11	h m s 10 18	° ′ ″ +41 46	h m s 10 20	° ′ ″ +65 50	h m s 10 20	° ′ ″ − 3 47
1 0.2	39.952	46.41	55.348	60.40	2.608	63.54	33.789	7.45
10.1	40.308 356	46.38 3	56.702 354	60.26 14	3.188 580	64.39 85	34.061 272	9.53 208
20.1	40.620 312	46.78 40	57.013 311	60.56 30	3.696 508	65.77 138	34.297 236	11.50 197
30.1	40.877 257	47.60 82	57.271 258	61.26 70	4.116 420	67.60 183	34.491 194	13.31 181
2 9.0	41.073 196	48.78 118	57.470 199	62.34 108	4.434 318	69.83 223	34.639 148	14 90 159
	130	148	135	139	210	252	100	136
19.0	41.203	50.26	57.605	63.73	4 644	72.35	34.759	16.26
28.9	41.267 64	51.97 171	57.676 71	65.36 163	4.741 97	75.05 270	34.792 53	17.37 111
3 10.9	41.269 2	53.82 185	57.685 9	67.15 179	4.728 13	77.82 277	34.800 8	18.23 86
20.9	41.213 56	55.72 190	57.638 47	69.01 186	4.614 114	80.54 272	34.768 32	18.84 61
30.9	41.109 104	57.59 187	57.543 95	70.85 184	4.408 206	83.11 257	34.703 65	19.22 38
	144	177	135	175	282	232	91	17
4 9.9	40.985 174	59.36 158	57.408 164	72.60 159	4.126 341	85.43 198	34.612 111	19.39 3
19.9	40.791 191	60.94 134	57.244 182	74.19 137	3.785 383	87.41 157	34.501 122	19.36 20
29.8	40.600 200	62.28 106	57.062 193	75.56 110	3.402 407	88.98 113	34.379 129	19.16 36
5 9.8	40.400 200	63.34 75	53.869 191	76.66 80	2.995 413	90.11 64	34.250 128	18.80 49
19.8	40.200 200	64.09 42	53.678 186	77.46 48	2.582 404	90.75 14	34.122 123	18.31 62
	190							
29.7	40.010	64.51	53.492	77.94	2.178	90.89	33.999	17.69
6 8.7	39.835 175	64.59 8	56.322 170	78.09 15	1.796 382	90.54 35	33.884 115	16.98 71
18.7	39.681 154	64.33 26	53.170 152	77.92 17	1.448 348	89.71 83	33.782 102	16.17 81
28.7	39.552 129	63.76 57	53.042 128	77.43 49	1.145 303	88.43 128	33.695 87	15.30 87
7 8.6	39.451 101	62.88 88	55.942 100	76.64 79	0.893 252	86.73 170	33.624 71	14.38 92
	69	117	72	108	192	206	51	93
18.6	39.382	61.71	55.870	75.56	0.701	84.67	33.573	13.45
28.6	39.347 35	60.28 143	55.831 39	74.22 134	0.572 129	82.27 240	33.543 30	12.54 91
8 7.6	39.346 1	58.62 166	55.825 6	72.63 159	0.510 62	79.60 267	33.536 7	11.68 86
17.5	39.382 36	56.74 188	55.854 29	70.84 179	0.517 7	76.72 288	33.554 18	10.90 78
27.5	39.455 73	54.69 205	55.919 65	68.86 198	0.597 80	73 67 305	33.599 45	10.25 65
	113	219	104	214	156	315	75	47
9 6.5	39.568	52.50	56.023	66.72	0.750	70.52	33.674	9.78
16.4	39.721 153	50.19 231	55.167 144	64.46 226	0.977 227	67.33 319	33.780 106	9.53 25
26.4	39.916 195	47.80 239	53.351 184	62.10 236	1.278 301	64.16 317	33.919 139	9.52 1
10 6.4	40.153 237	45.37 243	53.578 227	59.70 240	1.652 374	61.08 308	34.092 173	9.80 28
16.4	40.431 278	42.96 241	53.845 267	57.29 241	2.096 444	58.15 293	34.299 207	10.39 59
	318	235	307	236	510	271	239	90
26.3	40.749	40.61	57.152	54.93	2.606	55.44	34.538	11.29
11 5.3	41.102 353	38.38 223	57.495 343	52.67 226	3.176 570	53.03 241	34.808 270	12.49 120
15.3	41.486 384	36.34 204	57.869 374	50.58 209	3.794 618	50.98 205	35.101 293	13.98 149
25.3	41.892 406	34.54 180	58.266 397	48.71 187	4.449 655	49.36 162	35.413 312	15.72 174
12 5.2	42.310 418	33.04 150	58.676 410	47.14 157	5.125 676	48.23 113	35.735 322	17.65 193
	419	113	413	123	677	61	321	207
15.2	42.729	31.91	59.089	45.91	5.802	47.62	36.056	19.72
25.2	43.137 408	31.17 74	59.491 402	45.08 83	6.462 660	47.56 6	36.368 312	21.85 213
35.1	43.519 382	30.87 30	59.870 379	44.66 42	7.083 621	48.07 51	36.659 291	23.97 212
平位	40.020	59.29	53.447	72.96	2.707	79.89	33.568	7.14
2回正中	2月24日		2月25日		2月26日		2月26日	
a b	+ 0.1813	− 0.0530	+ 0.1788	− 0.0539	+ 0.2162	− 0.1348	+ 0.1515	+ 0.0040
a′ b′	− 0.8943	− 0.4475	− 0.9044	− 0.4268	− 0.9064	− 0.4224	− 0.9073	− 0.4204
FK3番號	383		386		387		388	

星名	μ Hyda		I Cari		α Antl		β LMin	
等級	4.06		4.08		4.42		4.41	
スペクトル型	K5		F5		K5		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 23	° ′ ″ − 16 32	h m s 10 23	° ′ ″ − 73 44	h m s 10 24	° ′ ″ − 30 46	h m s 10 24	° ′ ″ + 36 59
1 0.2	20.283	37.31	20.318	12.25	33.038	28.94	35.476	48.36
10.1	20.556 273	39.80 249	20.944 626	15.23 298	33.355 287	31.77 283	35.815 339	47.96 40
20.1	20.794 238	42.30 250	21.456 512	18.57 334	33.603 248	34.71 294	36.115 300	47.97 1
30.1	20.988 194	44.71 241	21.838 382	22.19 362	33.803 200	37.68 297	36.365 250	48.38 41
2 9.1	21.135 147	46.99 228	22.084 246	25.98 379	33.952 149	40.59 291	36.559 194	49.16 78
	98	209	109	386	96	279	135	109
19.0	21.233	49.08	22.193	29.84	34.048	43.38	36.694	50.25
28.9	21.283 50	50.94 186	22.165 28	33.67 383	34.093 45	45.98 260	36.769 75	51.61 136
3 10.9	21.288 5	52.55 161	22.008 157	37.38 371	34.088 5	48.35 237	36.786 17	53.16 155
20.9	21.252 36	53.90 135	21.733 275	40.89 351	34.041 47	50.44 209	36.751 35	54.80 164
30.9	21.183 69	54.97 107	21.352 381	44.12 323	33.956 85	52.23 179	36.670 81	56.47 167
	97	79	475	290	114	146	117	162
4 9.9	21.036	55.76	20.877	47.02	33.842	53.69	36.553	58.09
19.9	20.970 116	56.28 52	20.324 553	49.52 250	33.705 137	54.81 112	36.408 145	59.59 150
29.8	20.840 130	56.53 25	19.710 614	51.58 206	33.552 153	55.57 76	36.244 164	60.91 132
5 9.8	20.703 137	56.52 1	19.049 661	53.15 157	33.390 162	55.98 41	36.071 173	62.02 111
19.8	20.565 138	56.23 26	18.358 691	54.20 105	33.225 165	56.03 5	35.898 173	62.86 84
	134	50	704	52	162	31	168	57
29.8	20.431	55.76	17.654	54.72	33.033	55.72	35.730	63.43
6 8.7	20.304 127	55.04 72	16.953 701	54.68 4	32.903 157	55.08 64	35.575 155	63.72 29
18.7	20.188 116	54.12 92	16.272 681	54.11 57	32.761 145	55.10 98	35.436 139	63.71 1
28.7	20.087 101	53.01 111	15.628 644	53.01 110	32.630 131	52.84 126	35.318 118	63.41 30
7 8.6	20.002 85	51.76 125	15.038 590	51.42 159	32.517 113	51.30 154	35.223 95	62.83 58
	65	137	519	205	92	175	68	85
18.6	19.937	50.39	14.519	49.37	32.425	49.55	35.155	61.98
28.6	19.893 44	48.95 144	14.086 433	46.94 243	32.357 68	47.63 192	35.116 39	60.89 109
8 7.6	19.873 20	47.49 146	13.754 332	44.18 276	32.317 40	45.60 203	35.107 9	59.56 133
17.5	19.880 7	46.03 143	13.536 218	41.20 298	32.308 9	43.54 206	35.129 22	58.02 154
27.5	19.916 36	44.72 134	13.442 94	38.08 312	32.332 24	41.51 203	35.185 56	56.28 174
	67	119	40	313	62	191	92	191
9 6.5	19.983	43.53	13.482	34.95	32.394	39.60	35.277	54.37
16.5	20.084 101	42.55 98	13.658 176	31.90 305	32.494 100	37.88 172	35.406 129	52.32 205
26.4	20.220 136	41.85 70	13.971 313	29.05 285	32.636 142	36.45 143	35.573 167	50.15 217
10 6.4	20.394 174	41.47 38	14.416 445	26.53 252	32.820 184	35.37 108	35.780 207	47.89 226
16.4	20.603 209	41.46 1	14.982 566	24.42 211	33.044 224	34.69 68	36.027 247	45.59 230
	244	37	672	159	263	21	285	230
26.3	20.847	41.83	15.654	22.83	33.307	34.48	36.312	43.29
11 5.3	21.121 274	42.61 78	16.411 757	21.83 100	33.603 296	34.76 28	36.632 320	41.05 224
15.3	21.421 300	43.79 118	17.229 818	21.46 37	33.926 323	35.55 79	36.983 351	38.92 213
25.3	21.739 318	45.34 155	18.078 849	21.75 29	34.269 343	36.82 127	37.356 373	36.98 194
12 5.2	22.037 328	47.22 188	18.931 853	22.71 96	34.619 350	38.55 173	37.744 388	35.28 170
	327	215	824	160	349	213	391	141
15.2	22.394	49.37	19.755	24.31	34.938	40.68	38.135	33.87
25.2	22.709 315	51.71 234	20.523 768	26.49 218	35.302 334	43.14 246	38.517 382	32.82 105
35.2	23.003 294	54.17 246	21.208 685	29.19 270	35.612 310	45.86 272	38.879 362	32.16 66
平位	19.905	40.94	16.196	28.39	32.428	36.69	35.593	59.83
2回正中	2月27日		2月27日		2月27日		2月27日	
a b	+ 0.1452	+ 0.0181	+ 0.0597	+ 0.2085	+ 0.1373	+ 0.0333	+ 0.1736	− 0.0459
a′ b′	− 0.9124	− 0.4094	− 0.9123	− 0.4097	− 0.9145	− 0.4046	− 0.9146	− 0.4044
FK3番號	389		391		392		390	

星名	196 G. Cari		36 UMaj		ρ Leon		9 H. Drac	
等級	4.08		4.84		3.85		5.04	
スペクトル型	F0		F5		B0p		G5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 10 25	° ′ −58 23	h m 10 26	° ′ +56 15	h m 10 29	° ′ +9 35	h m 10 30	° ′ +75 59
1 0.2	s 48.685	″ 38.22	s 59.351	″ 69.77	s 48.691	″ 57.87	s 18.165	″ 69.82
10.1	391 49.076	307 41.29	455 59.803	40 70.17	285 48.976	160 56.27	937 19.102	108 70.90
20.1	328 49.404	337 44.66	403 60.209	90 71.07	252 49.228	138 54.89	826 19.928	163 72.53
30.1	256 49.660	358 48.24	337 60.546	136 72.43	211 49.439	112 53.77	689 20.617	212 74.65
2 9.1	179 49.839	368 51.92	261 60.807	177 74.20	164 49.603	84 52.93	527 21.144	252 77.17
	100	368	179	209	116	57	353	281
19.0	49.939	55.60	60.986	76.29	49.719	52.36	21.497	79.98
3 1.0	23 49.932	360 59.20	95 61.081	232 78.61	68 49.787	29 52.07	169 21.666	299 82.97
10.9	50 49.912	343 62.63	13 61.094	244 81.05	21 49.808	5 52.02	14 21.652	305 86.02
20.9	117 49.795	320 65.83	62 61.032	246 83.51	20 49.788	16 52.18	186 21.466	299 89.01
30.9	174 49.621	289 68.72	130 60.902	237 85.88	55 49.733	34 52.52	345 21.121	279 91.80
	224	254	187	220	84	48	481	250
4 9.9	49.397	71.23	60.715	88.08	49.649	53.00	20.640	94.30
19.9	264 49.133	213 73.39	230 60.485	193 90.01	105 49.544	58 53.58	592 20.048	213 95.43
29.8	294 48.839	169 75.08	260 60.225	160 91.61	119 49.425	64 54.22	673 19.375	167 98.10
5 9.8	315 48.524	121 76.29	278 59.947	123 92.84	126 49.299	68 54.90	727 18.648	117 99.27
19.8	328 48.196	73 77.02	283 59.664	81 93.65	126 49.173	69 55.59	750 17.898	63 99.90
	331	22	277	37	123	67	746	9
29.8	47.865	77.24	59.387	94.02	49.050	55.26	17.152	99.99
6 8.7	327 47.538	28 75.95	260 59.127	6 93.96	114 48.936	65 56.91	720 16.432	46 99.53
18.7	314 47.224	78 76.18	239 58.888	50 93.46	102 48.834	60 57.51	669 15.763	98 98.55
28.7	295 46.929	126 74.92	208 58.680	91 92.55	89 48.745	54 58.05	601 15.162	148 97.07
7 8.6	266 46.663	169 73.23	171 58.509	130 91.25	71 48.674	46 58.51	516 14.646	193 95.14
	231	208	131	165	52	38	418	234
18.6	46.432	71.15	58.378	89.60	48.622	58.89	14.228	92.80
28.6	188 46.244	242 68.73	88 58.290	198 87.62	32 48.590	27 59.16	310 13.918	268 90.12
8 7.6	138 46.106	267 65.03	41 58.249	225 85.37	10 48.580	15 59.31	195 13.723	298 87.14
17.5	81 46.025	285 63.21	7 58.256	249 82.88	15 48.595	1 59.32	74 13.649	320 83.94
27.5	20 46.005	291 60.30	58 58.314	268 80.20	42 48.637	15 59.17	51 13.700	336 80.58
	49	293	112	281	71	34	181	346
9 6.5	46.054	57.40	58.426	77.39	48.708	58.83	13.881	77.12
16.5	117 46.171	276 54.64	164 58.590	291 74.48	101 48.809	55 58.28	306 14.187	347 73.65
26.4	190 46.331	252 52.12	220 58.810	294 71.54	135 48.944	76 57.52	435 14.622	343 70.22
10 6.4	260 46.621	218 49.94	276 59.086	292 68.62	168 49.112	99 56.53	559 15.181	331 66.91
16.4	327 46.948	174 48.20	329 59.415	284 65.78	203 49.315	121 55.32	678 15.859	311 63.80
	387	121	381	269	237	144	789	285
26.3	47.335	45.99	59.796	63.09	49.552	53.88	16.648	60.95
11 5.3	437 47.772	63 45.35	429 60.225	247 60.62	268 49.820	162 52.26	887 17.535	250 58.45
15.3	475 48.247	1 45.35	469 60.694	219 58.43	295 50.115	178 50.48	970 18.505	208 56.37
25.3	498 48.745	63 45.98	500 61.194	183 53.60	315 50.430	190 48.58	1033 19.538	161 54.76
12 5.2	505 49.250	125 48.23	519 61.713	142 55.18	327 50.757	194 46.64	1070 20.603	107 53.69
	495	185	524	95	330	194	1078	48
15.2	49.745	50.08	62.237	54.22	51.087	44.70	21.686	53.21
25.2	468 50.213	237 52.45	513 62.750	46 53.76	322 51.409	185 42.85	1055 22.741	10 53.31
35.2	424 50.637	284 55.29	485 63.235	7 53.83	304 51.713	172 41.13	998 23.739	72 54.03
平位	s 46.889	″ 52.40	s 59.546	″ 84.92	s 48.651	″ 61.86	s 18.304	″ 87.01
2回正中	2月27日		2月27日		2月28日		2月28日	
a b	+ 0.1099	+ 0.0995	+ 0.1927	− 0.0918	+ 0.1577	− 0.0104	+ 0.2558	− 0.2473
a′ b′	− 0.9167	− 0.3995	− 0.9188	− 0.3948	− 0.9235	− 0.3834	− 0.9244	− 0.3815
FK3番號	393		394		396		395	

星名	203 G. Cari		44 Hyda		37 UMaj		† 222 G. Velr *m*	
等級	3.58		5.32		5.16		4.06	
スペクトル型	B5p		K2		F0		F2, A3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 10 29	° ′ −61 23	h m 10 31	° ′ −23 26	h m 10 31	° ′ +57 22	h m 10 34	° ′ −47 55
1 0.2	s 61.545	″ 14.86	s 18.493	″ 57.03	s 30.031	″ 21.61	s 55.154	″ 31.93
10.1	423 61.968	302 17.88	284 18.777	265 59.68	471 30.502	39 22.00	341 55.495	298 34.91
20.1	356 62.324	336 21.24	248 19.025	271 62.39	419 30.921	91 22.91	293 55.788	323 38.14
30.1	278 62.602	357 24.81	203 19.228	269 65.08	352 31.273	137 24.28	237 56.025	339 41.53
2 9.1	196 62.798	371 28.52	155 19.383	260 67.68	274 31.547	180 26.08	174 56.199	345 44.98
	111	373	106	245	192	212	111	343
19.0	62.909	32.25	19.489	70.13	31.739	28.20	56.310	48.41
3 1.0	28 62.937	367 35.92	56 19.545	225 72.38	106 31.845	236 30.56	50 56.360	331 51.72
10.9	52 62.885	352 39.44	9 19.554	200 74.38	21 31.866	249 33.05	11 56.349	314 54.86
20.9	123 62.762	330 42.74	32 19.522	174 76.12	57 31.809	251 35.56	64 56.285	288 57.74
30.9	187 62.575	300 45.74	68 19.454	145 77.57	128 31.681	243 37.99	110 56.175	259 60.33
	242	266	96	115	186	225	151	224
4 9.9	62.333	48.40	19.358	78.72	31.495	40.24	55.024	62.57
19.9	287 62.046	226 50.66	119 19.239	84 79.56	233 31.262	199 42.23	182 55.842	185 64.42
29.8	322 61.724	181 52.47	133 19.106	54 80.10	265 30.997	166 43.89	206 55.636	145 65.87
5 9.8	347 61.377	135 53.82	143 18.963	23 80.33	285 30.712	128 45.17	222 55.414	102 66.89
19.8	362 61.015	85 54.67	145 18.818	8 80.25	292 30.420	85 46.02	231 55.183	56 67.45
	369	34	145	37	287	41	235	11
29.8	60.646	55.01	18.673	79.88	30.133	46.43	54.948	67.56
6 8.7	366 60.280	18 54.83	138 18.535	65 79.23	273 29.860	4 46.39	231 54.717	35 67.21
18.7	355 59.925	69 54.14	128 18.407	91 78.32	249 29.611	48 45.91	222 54.495	79 66.42
28.7	334 59.591	117 52.97	116 18.291	115 77.17	220 29.391	90 45.01	208 54.287	121 65.21
7 8.6	305 59.286	164 51.33	99 18.192	136 75.81	184 29.207	130 43.71	188 54.099	160 63.61
	267	204	81	153	143	167	163	194
18.6	59.019	49.29	18.111	74.28	29.034	42.04	53.936	61.67
28.6	221 58.798	239 46.90	60 18.051	166 72.62	99 28.935	200 40.04	132 53.804	222 59.45
8 7.6	166 58.632	268 44.22	34 18.017	172 70.90	51 28.914	228 37.76	96 53.708	245 57.00
17.5	104 58.528	286 41.36	8 18.009	174 69.16	2 28.912	253 35.23	55 53.653	258 54.42
27.5	37 58.491	296 38.40	24 18.033	167 67.49	51 28.963	272 32.51	9 53.644	263 51.79
	38	296	57	155	105	287	40	259
9 6.5	58.529	35.44	18.090	65.94	29.068	29.64	53.684	49.20
16.5	115 58.644	284 32.60	93 18.183	134 64.60	161 29.229	296 26.68	94 53.778	244 46.76
26.4	194 58.838	262 29.98	131 18.314	108 63.52	217 29.446	300 23.68	149 53.927	220 44.56
10 6.4	273 59.111	229 27.69	170 18.484	75 62.77	275 29.721	298 20.70	205 54.132	186 42.70
16.4	345 59.456	186 25.83	209 18.693	37 62.40	331 30.052	289 17.81	257 54.389	144 41.26
	412	134	246	6	386	275	308	94
26.3	59.868	24.49	18.939	62.46	30.438	15.06	54.697	40.32
11 5.3	467 60.335	76 23.73	279 19.218	51 62.97	435 30.873	252 12.54	352 55.049	39 39.93
15.3	509 60.844	14 23.59	307 19.525	95 63.92	477 31.350	224 10.30	385 55.434	19 40.12
25.3	535 61.379	51 24.10	327 19.852	138 65.30	510 31.860	188 8.42	409 55.843	79 40.91
12 5.2	543 61.922	114 25.24	336 20.188	178 67.08	532 32.392	145 6.97	419 56.262	137 42.28
	533	175	337	211	537	99	415	190
15.2	62.455	26.99	20.525	69.19	32.929	5.98	56.677	44.18
25.2	504 62.959	229 29.28	326 20.851	239 71.58	527 33.456	48 5.50	398 57.075	238 46.56
35.2	459 63.418	278 32.06	304 21.155	258 74.16	502 33.958	6 5.56	368 57.443	278 49.34
平位	s 59.542	″ 29.88	s 18.042	″ 63.13	s 30.269	″ 36.91	s 54.044	″ 44.68
2回正中	2月28日		3月1日		3月1日		3月1日	
a b	+ 0.1065	+ 0.1129	+ 0.1424	+ 0.0268	+ 0.1926	− 0.0965	+ 0.1265	+ 0.0688
a′ b′	− 0.9239	− 0.3827	− 0.9260	− 0.3774	− 0.9264	− 0.3766	− 0.9319	− 0.3628
FK3番號	397		399		398		400	

星名	γ Cham		225 G. Velr		33 Sext		35 H. UMaj	
等級 スペクトル型	4.10	M0	4.37	G0	6.40	K0	5.23	K0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 10 34	° ′ −78 18	h m 10 37	° ′ −55 18	h m 10 38	° ′ − 1 25	h m 10 38	° ′ +69 21
1 0.2	s 54.338 867	″ 25.35 280	s 3.423 383	″ 7.01 298	s 30.267 283	″ 29.34 202	s 60.593 682	″ 73.41
10.1	55.205 717	28.15 320	3.809 328	9.99 329	30.550 250	31.36 190	61.278 610	74.15 74
20.1	55.922 547	31.35 352	4.137 263	13.28 349	30.800 211	33.25 172	61.888 514	75.45 130
30.1	56.469 368	34.87 373	4.400 192	16.77 360	31.011 165	34.98 149	62.402 405	77.23 181
2 9.1	56.837 182	38.60 385	4.592 120	20.37 361	31.177 118	36.47 126	62.807 283	79.49 223 256
19.0	57.019 1	42.45 386	4.712 49	23.98 353	31.295 72	37.73 99	63.090 156	82.05
3 1.0	57.020 177	46.31 379	4.761 20	27.51 338	31.367 27	38.72 75	63.246 29	84.84 279
10.9	56.843 341	50.10 362	4.741 81	30.89 315	31.394 13	39.47 49	63.275 92	87.73 289
20.9	56.502 491	53.72 339	4.660 137	34.04 287	31.381 48	39.96 28	63.183 200	90.61 288
30.9	56.011 625	57.11 308	4.523 183	36.91 252	31.333 77	40.24 6	62.983 297	93.35 274 252
4 9.9	55.386 740	60.19 271	4.340 222	39.43 213	31.256 97	40.30 11	62.686 372	95.87 218
19.9	54.646 835	62.90 229	4.118 251	41.56 171	31.159 112	40.19 26	62.314 430	98.05 178
29.8	53.811 910	65.19 182	3.867 272	43.27 125	31.047 120	39.93 40	61.884 469	99.83 133
5 9.8	52.901 963	67.01 131	3.595 286	44.52 78	30.927 123	39.53 51	61.415 485	101.16 83
19.8	51.938 993	68.32 78	3.309 292	45.30 29	30.804 120	39.02 61	60.930 487	101.99 31
29.8	50.945 1001	69.10 23	3.017 290	45.59 20	30.684 115	38.41 69	60.443 470	102.30
6 8.7	49.944 984	69.33 33	2.727 282	45.39 68	30.539 105	37.72 74	59.973 438	102.09 21
18.7	48.930 942	69.00 86	2.445 265	44.71 115	30.464 93	36.98 78	59.535 395	101.38 71
28.7	48.018 877	68.14 139	2.180 243	43.53 157	30.371 78	36.20 81	59.140 342	100.19 119
7 8.7	47.141 785	66.75 186	1.937 214	41.99 197	30.293 61	35.39 80	58.798 279	98.54 165 205
18.6	46.353 671	64.89 229	1.723 177	40.02 229	30.232 42	34.59 76	58.519 209	96.49 242
28.6	45.685 535	62.60 264	1.546 133	37.73 256	30.190 21	33.83 71	58.310 135	94.07 272
8 7.6	45.150 379	59.96 291	1.413 84	35.17 273	30.169 2	33.12 61	58.175 55	91.35 297
17.5	44.771 206	57.05 309	1.329 29	32.44 282	30.171 29	32.51 48	58.120 27	88.38 317
27.5	44.565 21	53.96 316	1.300 32	29.62 281	30.200 58	32.03 30	58.147 113	85.21 330
9 6.5	44.544 170	50.80 311	1.332 95	26.81 268	30.253 88	31.73 10	58.260 199	81.91
16.5	44.714 362	47.69 295	1.427 162	24.13 247	30.346 122	31.63 15	58.459 288	78.56 335
26.4	45.076 549	44.74 268	1.589 228	21.66 213	30.468 158	31.78 41	58.747 375	75.20 336
10 6.4	45.625 720	42.06 229	1.817 291	19.53 172	30.626 192	32.19 70	59.122 459	71.91 329
16.4	46.345 873	39.77 181	2.108 349	17.81 122	30.818 228	32.89 100	59.581 540	68.77 314 293
26.4	47.218	37.93	2.457	16.59	31.046 259	33.89 128	60.121 614	65.84
11 5.3	48.214 996	36.71 125	2.853 399	15.94 65	31.305 287	35.17 154	60.735 678	63.20 264
15.3	49.298 1084	36.09 62	3.294 438	15.89 5	31.592 308	36.71 177	61.413 726	60.94 226
25.3	50.435 1137	36.12 3	3.758 464	16.47 58	31.900 321	38.48 195	62.139 759	59.10 184
12 5.2	51.532 1147 1116	36.82 70 135	4.234 476 469	17.66 119 177	32.221 324	40.43 206	62.898 770	57.77 133 79
15.2	52.698	38.17	4.703	19.43	32.545	42.49	63.668	56.98
25.2	53.745 1047	40.13 196	5.152 449	21.73 230	32.863 318	44.59 210	64.426 758	56.77 21
35.2	54.687 942	42.63 250	5.565 413	24.48 275	33.163 300	46.67 208	65.150 724	57.15 38
平位	s 48.660	″ 42.89	s 1.95	″ 21.47	s 30.163	″ 29.05	s 60.932	″ 90.14
2回正中	3月1日		3月2日		3月2日		3月3日	
a b	+ 0.0363	+ 0.3003	+ 0.1192	+ 0.0901	+ 0.1527	+ 0.0016	+ 0.2146	− 0.1662
a′ b′	− 0.9317	− 0.3632	− 0.9352	− 0.3542	− 0.9374	− 0.3482	− 0.9382	− 0.3461
FK3番號	401		402		404		403	

星名	41 LMin		ϑ Cari		42 LMin		† μ Velr	
等級 スペクトル型	5.05	A2	3.03	B0	5.37	B9	2.84	G5
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 10 40	° ′ +23 28	h m 10 40	° ′ −64 5	h m 10 42	° ′ +30 58	h m 10 44	° ′ −49 6
1 0.2	s 19.057	″ 65.72	s 57.237	″ 26.82	s 41.787	″ 49.31	s 19.833	″ 52.78
10.1	19.368 311	65.63 109	57.708 471	29.73 291	42.118 331	48.51 80	20.190 357	55.69 291
20.1	19.646 278	64.87 76	58.108 400	33.00 327	42.414 296	48.09 42	20.500 310	58.89 320
30.1	19.882 236	64.46 41	58.428 320	36.54 354	42.666 252	48.07 2	20.753 253	62.25 337
2 9.1	20.070 188 137	64.40 6 25	58.659 231 141	40.23 369 376	42.869 203 147	48.42 35 70	20.945 192 127	65.71 345 345
19.0	20.207	64.65	58.800	43.99	43.016	49.12	21.072	69.16
3 1.0	20.292 85	65.20 55	58.851 51	47.72 373	43.109 93	50.10 98	21.137 65	72.52 336
10.9	20.327 35	65.98 78	58.816 35	51.33 361	43.148 39	51.32 122	21.141 4	75.72 320
20.9	20.316 11	66.95 97	58.702 114	54.75 342	43.137 11	52.69 137	21.090 51	78.69 297
30.9	20.265 51 84	68.03 108 115	58.517 185 248	57.90 315 282	43.083 54 90	54.15 146 147	20.990 100 142	81.37 268 235
4 9.9	20.181	69.18	58.269	60.72	42.993	55.62	20.848	83.72
19.9	20.073 108	70.33 115	57.970 299	63.15 243	42.875 118	57.04 142	20.673 175	85.69 197
29.8	19.947 126	71.42 109	57.629 341	65.16 201	42.759 136	58.35 131	20.472 201	87.27 158
5 9.8	19.812 135	72.43 101	57.255 374	66.71 155	42.590 149	59.50 115	20.251 221	88.41 114
19.8	19.674 138 136	73.31 88 73	56.861 394 407	67.76 105 54	42.438 152 150	60.46 96 73	20.019 232 238	89.10 69 24
29.8	19.538	74.04	56.454	68.30 1	42.288	61.19	19.781	89.34
6 8.7	19.410 128	74.61 57	56.046 408	68.31 49	42.146 142	61.69 50	19.544 237	89.11 23
18.7	19 293 117	74.99 38	55.647 399	67.82 101	42.016 130	61.93 24	19.314 230	88.44 67
28.7	19.191 102	75.18 19	55.265 382	66.81 149	41.901 115	61.92 1	19.096 218	87.34 110
7 8.7	19.107 84 65	75.18 0 20	54.911 354 315	65.32 193	41.805 96 74	61.65 26 51	18.896 200 175	85.83 151 186
18.6	19.042	74.98	54.593	63.39	41.731	61.15	18.721	83.97
28.6	18.999 43	74.59 39	54.329 267	61.09 230	41.680 51	60.40 75	18.574 147	81.81 216
8 7.6	18.979 20	73.99 60	54.119 210	58.48 261	41.656 24	59.41 99	18.464 110	79.41 240
17.5	18.986 7	73.21 78	53.976 143	55.65 283	41.658 2	58.21 120	18.394 70	76.84 257
27.5	19.020 34 65	72.22 99 118	53.903 70 13	52.68 297 299	41.691 33 66	55.80 141 161	18.370 24 27	74.21 263 261
9 6.5	19.085 98	71.04 136	53.919	49.69	41.757 100	55.19 179	18.397 81	71.60
16.5	19.183 133	69.68 156	54.016 97	46.77 292	41.857 138	53.40 195	18.478 139	69.10 250
26.4	19.316 169	68.12 156	54.201 185	44.05 272	41.995 176	51.45 208	18.617 197	66.84 226
10 6.4	19.485 205	66.41 171	54.474 273	41.62 243	42.171 215	49.37 219	18.814 252	64.89 195
16.4	19.690 243	64.54 187 198	54.829 355 430	39.60 202 152	42.386 253	47.18 224	19.056 306	63.34 155 105
26.4	19.933	62.56	55.259	38.08	42.639	44.94	19.372	62.29
11 5.3	20.210 277	60.50 206	55.753 494	37.12 96	42.929 290	42.69 225	19.724 352	61.77 52
15.3	20.516 306	58.43 207	56.296 543	36.78 34	43.250 321	40.48 221	20.113 389	61.84 7
25.3	20.846 330	56.38 205	56.872 576	37.08 30	43.597 347	38.38 210	20.527 414	62.50 66
12 5.2	21.192 346 351	54.43 195 179	57.460 588 580	38.03 95 157	43.951 364 370	36.46 192 169	20.955 428 427	63.75 125 179
15.2	21.543	52.64	58.040	39.60	44.331	34.77	21.382	65.54
25.2	21.889 346	51.07 157	58.593 553	41.74 214	44.697 366	33.38 139	21.793 411	67.82 228
35.2	22.219 330	49.78 129	59.100 507	44.38 264	45.047 350	32.34 104	22.175 382	70.53 271
平位	s 19.184	″ 74.47	s 55.090	″ 43.13	s 41.930	″ 59.04	s 18.748	″ 66.46
2回正中	3月3日		3月3日		3月3日		3月4日	
a b	+ 0.1632	− 0.0272	+ 0.1069	+ 0.1292	+ 0.1666	− 0.0378	+ 0.1284	+ 0.0729
a′ b′	− 0.9402	− 0.3407	− 0.9411	− 0.3383	− 0.9437	− 0.3309	− 0.9460	− 0.3243
FK3番號	405		406		407		408	

本初子午線正中時

星名	δ^2 Cham		53 Leon		ν Hyda		46 LMin	
等級	4.62		5.27		3.32		3.92	
スペクトル型	B3		A0		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 10 45	° ′ −80 14	h m 10 45	° ′ +10 50	h m 10 46	° ′ −15 53	h m 10 50	° ′ +34 30
	s	″	s	″	s	″	s	″
1 0.2	22.865	3.55	15.664	46.50	48.862	37.01	7.484	70.92
10.2	23.925 1060	6.21 265	15.959 295	44.88 162	49.151 289	39.45 244	7.829 345	70.18 74
20.1	24.815 890	9.31 310	16.224 265	43.51 137	49.407 256	41.88 243	8.141 312	69.87 31
30.1	25.511 696	12.74 343	16.449 225	42.40 111	49.623 216	44.25 237	8.408 267	69.98 11
2 9.1	25.997 486	16.41 367	16.630 181	41.58 82	49.795 172	46.50 225	8.625 217	70.49 51
	271	382	133	53	123	206	161	86
19.0	23.268	20.23	16.763	41.05	49.918	48.56	8.786	71.35
3 1.0	23.324 56	24.10 387	16.848 85	40.81 24	49.994 76	50.41 185	8.891 105	72.52 117
10.9	26.170 154	27.93 383	16.886 38	40.82 1	50.025 31	52.02 161	8.939 48	73.92 140
20.9	25.819 351	31.62 369	16.883 3	41.06 24	50.015 10	53.37 135	8.935 4	75.48 156
30.9	25.285 534	35.10 348	16.842 41	41.47 41	49.970 45	54.45 108	8.886 49	77.11 163
	699	320	70	56	75	82	88	164
4 9.9	24.586	38.30	16.772	42.03	49.895	55.27	8.793	78.75
19.9	23.742 844	41.16 286	16.678 94	42.69 66	49.798 97	55.82 55	8.680 118	80.32 157
29.9	22.777 965	43.60 244	16.569 109	43.40 71	49.685 113	56.12 30	8.540 140	81.75 143
5 9.8	21.712 1065	45.59 199	16.450 119	44.15 75	49.561 124	56.18 6	8.387 153	83.00 125
19.8	20.574 1138	47.09 150	16.327 123	44.88 73	49.432 129	55.99 19	8.228 159	84.03 103
	1185	96	121	72	128	41	158	77
29.8	19.389	48.05	16.203	45.60	49.304	55.58	8.070	84.80
6 8.7	18.184 1205	48.47 42	16.090 116	46.26 66	49.179 125	54.95 62	7.918 152	85.30 50
18.7	16.988 1196	48.34 13	15.983 107	45.86 60	49.061 118	54.14 82	7.777 141	85.51 21
28.7	15.832 1156	47.65 69	15.889 94	47.39 53	48.954 107	53.15 99	7.652 125	85.44 7
7 8.7	14.745 1087	46.44 121	15.809 80	47.82 43	48.859 95	52.01 114	7.545 107	85.08 36
	987	171	64	33	78	125	85	64
18.6	13.758	44.73	15.745	48.15	48.781	50.76	7.460	84.44
28.6	12.901 857	42.57 216	15.701 44	48.36 21	48.721 60	49.44 132	7.398 62	83.54 90
8 7.6	12.202 699	40.03 254	15.678 23	48.43 7	48.683 38	48.08 136	7.363 35	82.38 116
17.6	11.685 517	37.20 283	15.677 1	48.35 8	48.669 14	46.74 134	7.356 7	80.99 139
27.5	11.371 314	34.15 305	15.703 26	48.11 24	48.682 13	45.47 127	7.380 24	79.38 161
	93	315	54	44	44	113	58	182
9 6.5	11.278	31.00	15.757	47.67	48.725	44.34	7.438	77.56
16.5	11.412 134	27.87 313	15.843 86	47.03 64	48.804 78	43.41 93	7.533 95	75.56 200
26.4	11.782 370	24.86 301	15.931 118	46.17 86	48.919 115	42.72 69	7.665 132	73.41 215
10 6.4	12.378 596	22.09 277	16.116 185	45.08 109	49.071 152	42.33 39	7.838 173	71.13 228
16.4	13.183 805	19.68 241	16.305 189	43.77 131	49.251 180	42.29 4	8.052 214	68.77 236
	993	195	226	152	227	33	255	241
26.4	14.176	17.73	16.531	42.25	49.488	42.62	8.307	66.36
11 5.3	15.325 1149	16.32 141	16.790 259	40.55 170	49.750 262	43.35 73	8.600 293	63.98 238
15.3	16.589 1264	15.52 80	17.077 287	38.69 186	50.041 291	44.46 111	8.926 326	61.66 232
25.3	17.923 1334	15.36 16	17.389 312	35.74 195	50.354 313	45.93 147	9.281 355	59.49 217
12 5.3	19.281 1358	15.87 51	17.715 326	34.74 200	50.681 327	47.73 180	9.654 373	57.52 197
	1330	117	332	198	331	206	383	170
15.2	20.611	17.04	18.047	32.76	51.012	49.79	10.037	55.82
25.2	21.869 1258	18.83 179	18.375 328	30.86 190	51.336 324	52.05 227	10.416 379	54.46 136
35.2	23.013 1144	21.18 235	18.688 313	29.13 173	51.643 307	54.46 240	10.780 364	53.47 99
平位	s 16.282	″ 22.10	s 15.721	″ 50.34	s 48.621	″ 41.66	s 7.745	″ 81.41
2回正中	3月4日		3月4日		3月5日		3月5日	
a b	+0.0292	+0.3671	+0.1574	−0.0121	+0.1474	+0.0180	+0.1671	−0.0437
a′ b′	−0.9473	−0.3203	−0.9487	−0.3162	+0.9494	−0.3140	−0.9539	−0.3002
FK3番號	411.		409		410		412	

本初子午線正中時

星名	ι Antl		Br 1508 Drac		239 G. Velr		β UMaj	
等級	4.70		6.23		4.56		2.44	
スペクトル型	K0		G5		A2		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 54	° ′ −36 49	h m 10 55	° ′ +73 3	h m 10 57	° ′ −41 54	h m 10 58	° ′ +56 40
	s	″	s	″	s	″	s	″
1 0.2	4.007	40.04	26.482	76.58	32.707	58.48	24.408	63.12
10.2	4.330 323	42.82 278	27.607 1125	77.39 81	33.047 340	61.27 279	24.892 484	63.17 5
20.1	4.615 285	45.78 296	28.625 1018	78.79 140	33.348 301	64.29 302	25.332 440	63.76 59
30.1	4.854 239	48.85 307	29.501 876	80.73 194	33.600 252	67.46 317	25.713 381	64.88 112
2 9.1	5.042 188	51.95 310	30.204 703	83.11 238	33.799 199	70.70 324	26.024 311	66.45 157
	134	303	509	274	141	320	232	196
19.0	5.176 81	54.93 291	30.713 302	85.85 298	33.940 86	73.90 311	26.256 152	68.41 227
3 1.0	5.257 29	57.89 271	31.015 90	88.83 310	34.026 31	77.01 294	26.408 68	70.68 246
10.9	5.286 17	60.60 248	31.105 115	91.93 308	34.057 19	79.95 272	26.476 10	73.14 255
20.9	5.269 59	63.08 220	30.990 308	95.01 295	34.038 63	82.67 244	26.466 82	75.69 253
30.9	5.210 94	65.28 189	30.682 480	97.96 271	33.975 101	85.11 213	26.384 143	78.22 240
4 9.9	5.116 122	67.17 154	30.202 626	100.67 236	33.874 132	87.24 178	26.241 196	80.62 220
9.9	4.994 144	68.71 120	29.576 739	103.03 194	33.742 156	89.02 141	26.045 233	82.82 190
29.9	4.850 159	69.91 81	28.837 823	104.97 145	33.586 175	90.43 102	25.812 261	84.72 156
5 9.8	4.691 169	70.72 44	28.014 872	103.42 145	33.411 185	91.45 61	25.551 275	86.28 114
19.8	4.522 172	71.16 6	27.142 890	107.35 93	33.226 192	92.06 20	25.276 279	87.42 72
29.8	4.350	71.22	26.252	107.72	33.034	92.26	24.997	88.14
6 8.7	4.177 173	70.89 33	25.372 880	107.53 19	32.841 193	92.05 21	24.724 273	88.40 26
18.7	4.010 167	70.20 69	24.531 841	105.80 73	32.652 189	91.44 61	24.466 258	88.22 18
28.7	3.851 159	69.16 104	23.752 779	105.55 125	32.471 181	90.44 100	24.229 237	87.59 63
7 8.7	3.706 145	67.79 137	23.054 698	103.80 175	32.304 167	89.07 137	24.021 208	86.54 105
	128	164	596	218	149	167	174	145
18.6	3.578	66.15	22.458	101.62	32.155	87.40	23.847	85.09
28.6	3.473 105	64.28 187	21.976 482	99.04 258	32.029 126	85.44 196	23.710 137	83.27 182
8 7.6	3.393 80	62.22 206	21.620 356	96.12 292	31.932 97	83.28 216	23.616 94	81.12 215
17.6	3.344 49	60.07 215	21.400 220	92.94 318	31.867 65	80.97 231	23.567 49	78.69 243
27.5	3.329 15	57.88 219	21.322 78	89.55 339	31.840 27	78.62 235	23.567 0	76.02 267
	25	214	71	353	17	234	52	287
9 6.5	3.354 68	55.74	21.393 220	86.02	31.857	76.28	23.619	73.15
16.5	3.422 114	53.74 200	21.613 372	82.43 359	31.920 63	74.06 222	23.726 107	70.14 301
26.4	3.536 162	51.98 176	21.985 524	78.84 359	32.033 113	72.05 201	23.889 163	67.05 309
10 6.4	3.698 208	50.52 146	22.509 670	75.33 351	32.198 165	70.35 170	24.112 223	63.92 313
16.4	3.906 253	49.44 108	23.179 810	71.99 334	32.413 215	69.02 133	24.393 281	60.84 308
		63		311	265	86	338	298
26.4	4.159	48.81	23.989	68.88	32.678	68.16	24.731	57.86
11 5.3	4.454 295	48.68 13	24.927 938	66.09 279	32.987 309	67.79 37	25.125 394	55.06 280
15.3	4.783 329	49.06 38	25.977 1050	63.70 239	33.332 345	67.97 18	25.567 442	52.52 254
25.3	5.137 354	49.97 91	27.117 1140	61.77 193	33.706 374	68.71 74	26.049 482	50.31 221
12 5.3	5.507 370	51.38 141	28.318 1201	60.37 140	34.095 389	69.98 127	26.559 510	48.49 182
	373	188	1233	81	392	177	526	135
15.2	5.880	53.26	29.551	59.56	34.487	71.75	27.085	47.14
25.2	6.244 364	55.54 228	30.779 1228	59.35 21	34.871 384	73.97 222	27.610 525	46.30 84
35.2	6.586 342	58.16 262	31.962 1183	59.77 42	35.232 361	76.57 260	28.118 508	46.00 30
平位	s 3.407	″ 51.31	s 27.187	″ 93.88	s 31.990	″ 71.31	s 24.894	″ 78.16
2回正中	3月6日		3月7日		3月7日		3月7日	
a b	+0.1392	+0.0479	+0.2411	−0.3033	+0.1372	+0.0576	+0.1803	−0.0978
a′ b′	−0.9589	−0.2838	−0.9606	−0.2779	−0.9631	−0.2692	−0.9341	−0.2655
FK3番號	414		413		415		416	

本初子午線正中時

星名	α UMaj		χ Leon		χ^1 Hyda		ψ UMaj	
等級	1.95		4.66		5.06		3.15	
スペクトル型	K0		F0		F5		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 11 0	° ′ +62 2	h m 11 2	° ′ +7 38	h m 11 2	° ′ −26 58	h m 11 6	° ′ +44 47
	s	″	s	″	s	″	s	″
1 0.2	13.059	77.07	4.518	38.07	35.238	58.91	27.528	76.75
	13.611 552	77.29 22	4.818 300	36.29 178	35.546 308	61.52 261	27.925 397	76.27 48
10.2	14.114 503	78.07 78	5.089 271	34.72 157	35.823 277	64.24 272	28.288 363	76.28 1
20.1	14.550 436	79.39 132	5.323 234	33.40 132	36.059 236	66.99 275	28.606 318	76.78 50
30.1	14.906 356	81.18 179	5.515 192	32.36 104	36.248 189	69.71 272	28.868 262	77.74 96
2 9.1	15.172 266	83.35 217	5.660 145	31.61 75	36.388 140	72.32 261	29.069 201	79.09 135
19.1	15.344 172	85.82 247	5.760 100	31.14 47	36.480 92	74.77 245	29.206 137	80.77 168
3 1.0	15.419 75	88.48 266	5.813 53	30.94 20	36.524 44	77.02 225	29.278 72	82.70 193
10.9	15.403 16	91.21 273	5.824 11	30.97 3	36.524 0	79.02 200	29.290 12	84.78 208
20.9	15.302 101	93.89 268	5.799 25	31.22 25	36.487 37	80.74 172	29.247 43	86.91 213
30.9	175	254	57	41	70	144	91	210
4 9.9	15.127	93.43	5.742	31.63	35.417	82.18	29.156	89.01
19.9	14.891 236	93.72 229	5.661 81	32.16 53	35.321 96	83.32 114	29.026 130	90.99 198
29.9	14.607 284	100.69 197	5.563 98	32.78 62	35.205 116	84.15 83	28.866 160	92.77 178
5 9.8	14.289 318	102.23 157	5.453 110	33.46 68	35.075 130	84.67 52	28.686 180	94.30 153
19.8	13.953 336	103.40 114	5.337 116	34.17 71	35.936 139	84.87 20	28.494 192	95.52 122
	342	68	118	72	143	11	195	88
29.8	13.611	104.08	5.219	34.89	35.793	84.76	28.299	93.40
6 8.8	13.274 337	104.27 19	5.105 114	35.58 69	35.651 142	84.35 41	28.106 193	93.92 52
18.7	12.953 321	103.98 29	4.998 109	36.24 66	35.512 139	83.66 69	27.924 182	97.07 15
28.7	12.658 295	103.21 77	4.897 99	36.84 60	35.380 132	82.69 97	27.756 168	93.84 23
7 8.7	12.395 262	102.00 121	4.810 87	37.38 54	35.259 121	81.47 122	27.607 149	96.24 60
	222	163	74	45	106	142	125	95
18.6	12.174	100.37	4.736	37.83	35.153	80.05	27.482	95.29
28.6	11.997 177	98.35 202	4.680 56	38.18 35	35.064 89	78.46 159	27.382 100	94.01 128
8 7.6	11.871 126	95.99 236	4.642 38	38.40 22	34.998 66	76.76 170	27.313 69	92.42 159
17.6	11.799 72	93.35 264	4.626 16	38.49 9	34.956 42	75.00 176	27.276 37	90.55 187
27.5	11.785 14	90.46 289	4.635 9	38.41 8	34.944 12	73.24 176	27.274 2	88.42 213
	49	307	37	26	23	167	38	235
9 6.5	11.834	87.39	4.672	38.15	34.937	71.57	27.312	86.07
16.5	11.946 112	84.19 320	4.739 67	37.68 47	35.026 89	70.04 153	27.391 79	83.55 252
25.5	12.125 179	80.92 327	4.840 101	36.98 70	35.125 99	68.75 129	27.514 123	80.88 267
10 6.4	12.373 248	77.64 328	4.977 137	36.05 93	35.267 142	67.76 99	27.685 171	78.11 277
16.4	12.689 316	74.43 321	5.151 174	34.87 118	35.452 185	67.12 64	27.903 218	75.31 280
	382	307	211	141	227	24	266	279
26.4	13.071	71.36	5.332	33.46	35.679	66.88	28.169	72.52
11 5.3	13.516 445	68.51 285	5.608 276	31.84 162	35.945 266	67.09 21	28.481 312	69.81 271
15.3	14.017 501	65.94 257	5.885 277	30.03 181	36.244 299	67.76 67	28.834 353	67.25 256
25.3	14.564 547	63.74 220	6.188 303	28.08 195	36.570 326	68.88 112	29.221 387	64.91 234
12 5.3	15.144 580	61.99 175	6.509 321	26.05 203	36.911 341	70.43 155	29.633 412	62.87 204
	599	127	329	204	349	193	427	168
15.2	15.743	60.72	6.838	24.01	37.260	72.36	30.060	61.19
25.2	16.340 597	60.00 72	7.165 327	22.00 201	37.602 342	74.61 225	30.488 428	59.94 125
35.2	16.920 580	59.86 14	7.480 315	20.12 188	37.928 326	77.10 249	30.904 416	59.14 80
平位	s 13.614	″ 92.89	s 4.631	″ 40.37	s 34.909	″ 67.83	s 27.979	″ 89.42
2回正中	3月8日		3月8日		3月9日		3月10日	
a b	+0.1857	−0.1214	+0.1556	−0.0087	+0.1449	+0.0329	+0.1687	−0.0644
a′ b′	−0.9362	−0.2579	−0.9382	−0.2501	−0.9388	−0.2479	−0.9728	−0.2315
FK3番號	417		418		419		420	

本初子午線正中時

星名	β Crat		δ Leon		ϑ Leon		Grb 1757 UMaj	
等級	4.52		2.58		3.41		5.97	
スペクトル型	A2		A3		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 11 8	° ′ −22 30	h m 11 11	° ′ +20 49	h m 11 11	° ′ +15 44	h m 11 13	° ′ +49 46
	s	″	s	″	s	″	s	″
1 0.2	51.291	43.63	4.473	64.54	14.788	24.55	29.069	61.93
	51.599 308	46.14 251	4.794 321	63.15 139	15.101 313	22.99 156	29.500 431	61.60 38
10.2	51.875 276	48.73 259	5.088 294	62.09 106	15.387 286	21.72 127	29.897 397	61.75 15
20.1	52.113 238	51.33 260	5.344 256	61.38 71	15.636 249	20.77 95	30.246 349	62.42 67
30.1	52.307 194	53.86 253	5.558 214	61.04 34	15.843 207	20.14 63	30.537 291	63.57 115
2 9.1	147	241	165	0	161	30	225	156
19.1	52.454	56.27	5.723	61.04	16.004	19.84	30.762	65.13
3 1.0	52.553 99	58.49 222	5.840 117	61.36 32	16.117 113	19.86 2	30.918 156	67.03 190
11.0	52.606 53	60.51 202	5.907 67	61.95 59	16.182 65	20.14 28	31.004 86	69.18 215
20.9	52.617 11	62.27 176	5.929 22	62.78 83	16.204 22	20.67 53	31.023 19	71.48 230
30.9	52.590 27	63.78 151	5.911 18	63.76 98	16.187 17	21.37 70	30.981 42	73.83 235
	58	123	53	110	50	85	96	229
4 9.9	52.532	65.01	5.858	64.86	16.137	22.22	30.885	76.12
19.9	52.448 84	65.95 95	5.777 81	66.00 114	16.060 77	23.14 92	30.743 142	78.28 216
29.9	52.344 104	66.62 66	5.676 101	67.13 113	15.964 96	24.09 95	30.567 176	80.21 193
5 9.8	52.225 119	67.00 38	5.561 115	68.22 109	15.853 111	25.03 94	30.367 200	81.85 164
19.8	52.098 127	67.11 11	5.437 124	69.21 99	15.736 117	25.93 90	30.151 216	83.15 130
	132	17	126	86	121	82	222	93
29.8	51.936	65.94	5.311	70.07	15.615	26.75	29.929	84.08
6 8.8	51.834 132	65.50 44	5.186 125	70.79 72	15.496 119	27.47 72	29.708 221	84.61 53
18.7	51.705 129	65.82 68	5.068 118	71.34 55	15.383 113	28.07 60	29.497 211	84.72 11
28.7	51.581 124	64.91 91	4.958 110	71.71 37	15.277 106	28.54 47	29.300 197	84.42 30
7 8.7	51.458 113	63.79 112	4.861 97	71.88 17	15.184 93	28.87 33	29.123 177	83.72 70
	100	129	83	1	80	17	153	108
18.6	51.368	62.50	4.778	71.87	15.104	29.04	28.970	82.64
28.6	51.284 84	61.07 143	4.712 66	71.65 22	15.040 64	29.04 0	28.846 124	81.19 145
8 7.6	51.219 65	59.55 152	4.666 46	71.22 43	14.995 45	28.87 17	28.755 91	79.41 178
17.6	51.178 41	58.00 155	4.643 23	70.60 62	14.972 23	28.52 35	28.698 57	77.33 208
27.5	51.165 13	56.47 153	4.645 2	69.76 84	14.973 1	27.97 55	28.682 16	74.98 235
	19	143	31	106	30	76	26	258
9 6.5	51.184	55.04	4.676	68.70	15.003	27.21	28.708	72.40
16.5	51.238 54	53.76 128	4.739 63	67.43 127	15.064 61	26.25 96	28.779 71	69.65 275
26.5	51.330 92	52.70 106	4.836 97	65.96 147	15.159 95	25.07 118	28.900 121	66.76 289
10 6.4	51.464 134	51.94 76	4.972 136	64.29 167	15.290 131	23.66 141	29.072 172	63.78 298
16.4	51.639 175	51.51 43	5.145 173	62.44 185	15.460 170	22.07 159	29.296 224	60.79 299
	217	4	213	201	208	179	277	296
26.4	51.856	51.47	5.358	60.43	15.668	20.28	29.573	57.83
11 5.3	52.111 255	51.85 38	5.609 251	58.32 211	15.913 245	18.34 194	29.900 327	54.97 286
15.3	52.400 289	52.64 79	5.894 285	56.13 219	16.192 279	16.29 205	30.272 372	52.31 266
25.3	52.715 315	53.86 122	6.207 313	53.94 219	16.498 306	14.17 212	30.683 411	49.90 241
12 5.3	53.049 334	55.46 160	6.541 334	51.80 214	16.824 326	12.06 211	31.124 441	47.83 207
	341	195	345	201	337	205	457	167
15.2	53.390	57.41	6.886	49.79	17.161	10.01	31.581	46.16
25.2	53.727 337	59.63 222	7.233 347	47.96 183	17.499 338	8.10 191	32.042 461	44.94 122
35.2	54.051 324	62.05 243	7.569 336	46.38 158	17.827 328	6.38 172	32.492 450	44.23 71
平位	s 51.078	″ 51.48	s 4.754	″ 70.72	s 15.026	″ 29.15	s 29.618	″ 75.57
2回正中	3月10日		3月11日		3月11日		3月11日	
a b	+0.1472	+0.0269	+0.1587	−0.0248	+0.1573	−0.0184	+0.1692	−0.0772
a′ b′	−0.9752	−0.2213	−0.9773	−0.2118	−0.9775	−0.2111	−0.9795	−0.2015
FK3番號	421		422		423		424	

本初子午線正中時

星名	ν UMaj		δ Crat		σ Leon		π Cent	
等級	3.71				4.13		4.26	
スペクトル型	K0		K0		A0		B5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 11 15	° ′ +33 23	h m 11 16	° ′ −14 28	h m 11 18	° ′ + 6 20	h m 11 18	° ′ −54 10
	s	″	s	″	s	″	s	″
1 0.2	23.845	70.41	29.350	5.75	11.642	29.94	24.999	25.01
10.2	24.198 353	69.44 97	29.654 304	8.09 234	11.948 306	28.07 187	25.421 422	27.63 262
20.1	24.523 325	68.89 55	29.930 276	10.45 236	12.229 281	26.41 166	25.798 377	30.60 297
30.1	24.808 285	68.77 12	30.170 240	12.73 228	12.474 245	24.99 142	26.120 322	33.84 324
2 9.1	25.047 239	69.09 32	30.369 199	14.90 217	12.679 205	23.84 115	26.379 259	37.25 341
	186	70	153	200	161	86	193	350
19.1	25.233	69.79	30.522	16.90	12.840	22.98	26.572	40.75
3 1.0	25.365 132	70.84 105	30.630 108	18.69 179	12.955 115	22.40 58	26.698 126	44.23 348
11.0	25.443 78	72.16 132	30.693 63	20.24 155	13.025 70	22.10 30	26.759 61	47.63 340
20.9	25.469 26	73.69 153	30.715 22	21.55 131	13.052 27	22.03 4	26.757 2	50.87 324
30.9	25.448 21	75.33 164	30.701 14	22.60 105	13.043 9	22.23 17	26.699 58	53.89 302
	61	170	46	81	41	35	108	274
4 9.9	25.387	77.03	30.655	23.41	13.002	22.58	26.591	56.63
19.9	25.294 93	78.69 166	30.584 71	23.96 55	12.935 67	23.07 49	26.439 152	59.03 240
29.9	25.175 119	80.25 156	30.493 91	24.28 32	12.849 86	23.66 59	26.251 188	61.06 203
5 9.8	25.038 137	81.66 141	30.388 105	24.38 10	12.749 100	24.33 67	26.033 218	62.69 163
19.8	24.892 146	82.86 120	30.274 114	24.25 13	12.640 109	25.03 70	25.794 239	63.88 119
	151	97	119	32	112	72	256	73
29.8	24.741	83.83	30.155	23.93	12.528	25.75	25.538	64.61
6 8.8	24.591 150	84.52 69	30.035 120	23.41 52	12.416 112	26.46 71	25.273 265	64.87 26
18.7	24.447 144	84.94 42	29.918 117	22.72 69	12.307 109	27.14 68	25.006 267	64.66 21
28.7	24.314 133	85.06 12	29.805 113	21.87 85	12.204 103	27.78 64	24.742 264	63.98 68
7 8.7	24.194 120	84.89 17	29.701 104	20.89 98	12.111 93	28.33 55	24.489 253	62.86 112
	103	47	92	108	81	49	235	154
18.7	24.091 83	84.42 74	29.609 78	19.81 116	12.030 68	28.85 40	24.254 209	61.32 190
28.6	24.008 60	83.68 103	29.531 61	18.65 120	11.932 49	29.25 28	24.045 176	59.42 222
8 7.6	23.948 35	82.65 128	29.470 39	17.45 118	11.913 30	29.53 15	23.869 135	57.20 246
17.6	23.913 6	81.37 153	29.431 14	16.27 112	11.883 7	29.68 2	23.734 87	54.74 262
27.5	23.907 26	79.84 175	29.417 15	15.15 101	11.876 21	29.66 20	23.647 31	52.12 268
9 6.5	23.933	78.09	29.432	14.14	11.897	29.46	23.616	49.44
16.5	23.995 62	76.12 197	29.480 48	13.31 83	11.948 51	29.06 40	23.645 29	46.79 265
26.5	24.094 99	73.97 215	29.564 84	12.70 61	12.033 85	28.42 64	23.739 94	44.27 252
10 6.4	24.235 141	71.66 231	29.687 123	12.36 34	12.154 121	27.55 87	23.902 163	42.00 227
16.4	24.418 183	69.24 242	29.850 163	12.34 2	12.313 159	26.43 112	24.131 229	40.06 194
	226	250	203	33	198	137	294	150
26.4	24.644	66.74	30.053	12.67	12.511	25.06	24.425	38.56
11 5.4	24.912 268	64.23 251	30.294 241	13.36 69	12.746 235	23.46 160	24.779 354	37.56 100
15.3	25.217 305	61.76 247	30.569 275	14.42 106	13.014 268	21.67 179	25.181 402	37.12 44
25.3	25.554 337	59.40 236	30.871 302	15.83 141	13.310 296	19.73 194	25.622 441	37.27 15
12 5.3	25.916 362	57.22 218	31.193 322	17.55 172	13.627 317	17.68 205	26.086 464	38.02 75
	375	192	331	198	328	209	474	133
15.2	26.291	55.30	31.524	19.53	13.955	15.59	26.560	39.35
25.2	26.669 378	53.69 161	31.854 330	21.71 218	14.284 329	13.53 206	27.025 465	41.23 188
35.2	27.037 368	52.45 124	32.173 319	24.02 231	14.604 320	11.56 197	27.469 444	43.59 236
平位	s 24.258	″ 80.11	s 29.300	″ 11.37	s 11.832	″ 31.25	s 24.000	″ 42.06
2回正中	3月12日		3月12日		3月13日		3月13日	
a b	+ 0.1618	− 0.0431	+ 0.1501	+ 0.0169	+ 0.1547	− 0.0073	+ 0.1367	+ 0.0908
a′ b′	− 0.9811	− 0.1934	− 0.9820	− 0.1887	− 0.9834	− 0.1814	− 0.9836	− 0.1805
FK3番號	425		426		427		428	

1943 本初子午線正中時

星名	Grb 1771 U Maj		† ε Leon		γ Crat		58 U Maj	
等級	5.98		4.03		4.14		5.88	
スペクトル型	A0		F5		A5		F8	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 11 19	° ′ −64 38	h m 11 20	° ′ +10 50	h m 11 22	° ′ −17 22	h m 11 27	° ′ +43 28
	s	″	s	″	s	″	s	″
1 0.2	28.302	17.68	56.987	33.68	1.928	7.75	25.825	58.72
10.2	28.911 609	17.75 7	57.299 312	31.94 174	2.237 309	10.14 239	26.224 399	57.98 74
20.1	29.474 563	18.40 65	57.585 286	30.43 151	2.518 281	12.56 242	26.594 370	57.74 24
30.1	29.972 498	19.62 122	57.836 251	29.21 122	2.764 246	14.96 240	26.924 330	58.00 26
2 9.1	30.389 417	21.36 174	58.047 211	28.28 93	2.968 204	17.25 229	27.204 280	58.75 75
	325	216	167	61	159	215	222	118
19.1	30.714	23.52	58.214	27.67	3.127	19.40	27.426	59.93
3 1.0	30.939 225	26.01 249	58.334 120	27.37 30	3.241 114	21.35 195	27.588 162	61.47 154
11.0	31.060 121	28.73 272	58.409 75	27.34 3	3.310 69	23.08 173	27.688 100	63.30 183
20.9	31.081 21	31.56 283	58.440 31	27.57 23	3.337 27	24.57 149	27.728 40	65.33 203
30.9	31.008 73	34.37 281	58.434 6	28.00 43	3.327 10	25.80 123	27.713 15	67.46 213
	159	270	39	60	42	98	63	215
4 9.9	30.849	37.07	58.395	28.60	3.285	26.78	27.650	69.61
19.9	30.617 232	39.55 248	58.329 66	29.31 71	3.217 68	27.50 72	27.546 104	71.67 206
29.9	30.327 290	41.71 216	58.244 85	30.09 78	3.129 88	27.98 48	27.409 137	73.58 191
5 9.8	29.993 334	43.50 179	58.143 101	30.91 82	3.025 104	28.21 23	27.250 159	75.26 168
19.8	29.630 363	44.84 134	58.034 109	31.73 82	2.911 114	28.20 1	27.074 176	76.66 140
	377	88	114	79	120	23	184	107
29.8	29.253	45.72	57.920	32.52	2.791	27.97	25.890	77.73
6 8.8	28.874 379	45.09 37	57.807 113	33.26 74	2.669 122	27.52 45	25.704 186	78.46 73
18.7	28.504 370	45.96 13	57.696 111	33.92 66	2.548 121	26.87 65	26.523 181	78.82 36
28.7	28.156 348	45.34 62	57.592 104	34.49 57	2.432 116	26.04 83	26.352 171	78.80 2
7 8.7	27.837 319	44.25 109	57.497 95	34.96 47	2.322 110	25.06 98	26.195 157	78.41 39
	280	156	83	35	98	112	139	76
18.7	27.557	42.69	57.414	35.31	2.224	23.94	25.056	77.65
28.6	27.322 235	40.73 196	57.346 68	35.53 22	2.139 85	22.72 122	25.939 117	76.55 110
8 7.6	27.138 184	38.39 234	57.294 52	35.60 7	2.071 68	21.44 128	25.848 91	75.11 144
17.6	27.011 127	35.74 265	57.263 31	35.51 9	2.025 46	20.15 129	25.786 62	73.38 173
27.5	26.945 66	32.81 293	57.255 8	35.24 27	2.003 22	18.91 124	25.756 30	71.36 202
	1	315	19	47	8	115	8	227
9 6.5	26.946	29.66	57.274	34.77	2.011	17.76	25.764	69.09
16.5	27.016 70	26.35 331	57.324 50	34.08 69	2.053 42	16.77 99	25.811 47	66.61 248
26.5	27.160 144	22.95 340	57.408 84	33.18 90	2.131 78	16.00 77	25.903 92	63.96 265
10 6.4	27.381 221	19.53 342	57.528 120	32.04 114	2.250 119	15.50 50	26.041 138	61.17 279
16.4	27.677 296	16.15 338	57.687 159	30.67 137	2.409 159	15.31 19	26.227 186	58.31 286
	372	326	197	158	201	18	236	288
26.4	28.049	12.89	57.884	29.09	2.610	15.49	25.463	55.43
11 5.4	28.494 445	9.84 305	58.119 235	27.31 178	2.850 240	16.04 55	25.746 283	52.60 283
15.3	29.004 510	7.07 277	58.388 269	25.37 194	3.124 274	16.98 94	27.073 327	49.88 272
25.3	29.571 567	4.66 241	58.686 298	23.32 205	3.428 304	18.28 130	27.438 365	47.35 253
12 5.3	30.181 610	2.69 197	59.005 319	21.21 211	3.751 323	19.93 165	27.833 395	45.10 225
	636	146	332	210	335	194	414	192
15.2	30.817	1.23	59.337	19.11	4.086	21.87	28.247	43.18
25.2	31.462 645	0.32 91	59.670 333	17.09 202	4.420 334	24.04 217	28.668 421	41.67 151
35.2	32.095 633	0.00 32	59.995 325	15.22 187	4.743 323	26.37 233	29.082 414	40.61 106
平位	s 29.112	″ 33.63	s 57.235	″ 36.39	s 1.872	″ 14.59	s 26.415	″ 70.70
2回正中	3月13日		3月13日		3月13日		3月15日	
a b	+ 0.1781	− 0.1385	+ 0.1555	− 0.0126	+ 0.1499	+ 0.0206	+ 0.1623	− 0.0626
a′ b′	− 0.9844	− 0.1759	− 0.9855	− 0.1696	− 0.9863	− 0.1649	− 0.9899	− 0.1416
FK3番號	429		430		431		432	

本初子午線正中時

星名	λ Drac		ξ Hyda		λ Cent		C^2 Cent	
等級	4.06		3.72		3.34		5.42	
スペクトル型	M0		G5		B9		F0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 11 27	° ′ +69 38	h m 11 30	° ′ −31 32	h m 11 33	° ′ −62 41	h m 11 33	° ′ −47 19
1 0.2	s 61.541	″ 28.84	s 11.836	″ 19.23	s 9.790	″ 55.44	s 9.906	″ 15.02
10.2	62.274 733	28.94 10	12.170 334	21.74 251	10.314 524	57.84 240	10.297 391	17.53 251
20.2	62.957 683	29.67 73	12.474 304	24.43 269	10.788 474	60.66 282	10.653 356	20.37 284
30.1	63.566 609	30.97 130	12.740 266	27.22 279	11.198 410	63.83 317	10.963 310	23.44 307
2 9.1	64.082 516	32.80 183	12.932 222	30.03 281	11.534 336	67.25 342	11.221 258	26.65 321
	406	227	174	277	257	357	200	328
19.1	64.488	35.07 262	13.136	32.80 265	11.791	70.82 364	11.421	29.93
3 1.0	64.775 287	37.69 285	13.262 126	35.45 249	11.937 176	74.46 364	11.563 142	33.19 326
11.0	64.936 161	40.54 296	13.339 77	37.94 227	12.063 96	78.08 362	11.648 85	36.36 317
20.9	64.974 38	43.50 295	13.371 32	40.21 203	12.081 18	81.60 352	11.679 31	39.36 300
30.9	64.895 79	46.45 295	13.363 8	42.24 177	12.027 54	84.94 334	11.659 20	42.15 279
	187	282	45		120	311	64	253
4 9.9	64.708	49.27	13.318	44.01 146	11.907	88.05 280	11.595	44.68
19.9	64.427 281	51.87 260	13.244 74	45.47 117	11.728 179	90.85 245	11.493 102	46.89 221
29.9	64.070 357	54.13 226	13.146 98	46.64 84	11.499 229	93.30 204	11.353 135	48.77 188
5 9.9	63.653 417	56.00 187	13.028 118	47.48 52	11.225 274	95.34 161	11.196 162	50.27 150
19.8	63.195 458	57.41 141	12.897 131	48.00 19	10.916 309	96.95 113	11.013 183	51.37 110
	482	91	142		336		198	68
29.8	62.713	58.32	12.755	48.19	10.580	98.08	10.815	52.05
6 8.8	62.223 490	58.72 40	12.608 147	48.06 13	10.225 355	98.72 64	10.607 208	52.30 25
18.7	61.742 481	58.58 14	12.460 148	47.60 46	9.860 365	98.86 14	10.393 214	52.13 17
28.7	61.282 460	57.93 65	12.313 147	46.84 76	9.494 366	98.49 37	10.181 212	51.53 60
7 8.7	60.856 426	56.78 115	12.172 141	45.80 104	9.136 358	97.63 86	9.974 207	50.53 100
	380	163	130	130	339	134	195	138
18.7	60.476	55.15	12.042	44.50	8.797	96.29	9.779	49.15
28.6	60.149 327	53.09 206	11.925 117	42.98 152	8.487 310	94.52 177	9.602 177	47.44 171
8 7.6	59.884 265	50.64 245	11.828 97	41.29 169	8.218 269	92.38 214	9.451 151	45.44 200
17.6	59.689 195	47.86 278	11.754 74	39.49 180	7.999 219	89.92 246	9.331 120	43.21 223
27.6	59.570 119	44.79 307	11.708 46	37.65 184	7.841 158	87.23 269	9.249 82	40.85 236
	37	329	11	183	88	283	37	244
9 6.5	59.533	41.50	11.697	35.82	7.753	84.40	9.212	38.41
16.5	59.583 50	38.05 345	11.725 28	34.10 172	7.744 9	81.54 286	9.225 13	36.02 239
26.5	59.722 139	34.51 354	11.795 70	32.56 154	7.820 76	78.75 279	9.295 70	33.75 227
10 6.4	59.956 234	30.95 356	11.911 116	31.27 129	7.983 163	76.14 261	9.423 128	31.71 204
16.4	60.283 327	27.44 351	12.074 163	30.31 96	8.234 251	73.83 231	9.610 187	29.98 173
	420	337	210	57	335	192	246	132
26.4	60.703	24.07	12.284	29.74	8.569	71.91	9.853	28.66
11 5.4	61.213 510	20.92 315	12.539 255	29.60 14	8.981 412	70.48 143	10.157 301	27.81 85
15.3	61.804 591	18.07 285	12.832 293	29.93 33	9.458 477	69.59 89	10.505 348	27.48 33
25.3	62.466 662	15.60 247	13.158 326	30.73 80	9.986 528	69.31 28	10.891 386	27.71 23
12 5.3	63.183 717	13.60 200	13.506 348	31.98 125	10.548 562	69.64 33	11.304 413	28.49 78
	754	148	360	168	577	96	425	133
15.3	63.937	12.12	13.866	33.66	11.125	70.60	11.729	29.82
25.2	64.705 768	11.22 90	14.226 360	35.72 206	11.697 572	72.15 155	12.152 423	31.65 183
35.2	65.464 759	10.93 29	14.574 348	38.08 236	12.245 548	74.25 210	12.561 409	33.93 228
平位	s 62.591	″ 45.22	s 11.609	″ 30.99	s 8.461	″ 75.06	s 9.321	″ 31.34
2回正中	3月15日		3月16日		3月16日		3月16日	
a b	+0.1783	−0.1780	+0.1480	+0.0406	+0.1382	+0.1283	+0.1449	+0.0718
a′ b′	−0.9903	−0.1390	−0.9916	−0.1297	−0.9931	−0.1169	−0.9932	−0.1169
FK3番號	433		434		436		435	

本初子午線正中時

星名	υ Leon		π Cham		o Hyda		3 Drac	
等級	4.47		5.74		4.88		5.48	
スペクトル型	K0		F0		B8		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 11 34	° ′ −0 30	h m 11 34	° ′ −75 34	h m 11 37	° ′ −34 25	h m 11 39	° ′ +67 3
1 0.2	s 1.540	″ 30.39	s 56.793	″ 28.85	s 22.828	″ 29.65	s 17.514	″ 21.81
10.2	1.849 309	32.44 205	57.672 879	31.03 218	23.173 345	32.12 247	18.184 670	21.69 12
20.2	2.134 285	34.37 193	58.462 790	33.70 267	23.489 316	34.81 269	18.814 630	22.19 50
30.1	2.388 254	36.12 175	59.142 680	36.79 309	23.767 278	37.63 282	19.381 567	23.28 109
2 9.1	2.602 214	37.64 152	59.693 554	40.20 341	24.001 234	40.51 288	19.868 487	24.91 163
	173	127	417	364	186	286	392	210
19.1	2.775	38.91	60.113	43.84	24.187	43.37	20.230	27.01
3 1.0	2.903 128	39.91 100	60.389 276	47.62 378	24.322 135	46.13 276	20.547 287	29.49 248
11.0	2.988 85	40.65 74	60.524 135	51.44 382	24.409 87	48.75 262	20.723 176	32.24 275
20.9	3.031 43	41.12 47	60.520 4	55.21 377	24.450 41	51.18 243	20.790 67	35.13 289
30.9	3.038 7	41.36 24	60.385 135	58.86 365	24.449 1	53.37 219	20.750 40	38.05 292
	26	3	259	345	38	193	136	284
4 9.9	3.012	41.39	60.126	62.31	24.411	55.30	20.614	40.89
19.9	2.930 52	41.24 15	59.755 371	65.48 317	24.341 70	56.94 164	20.392 222	43.54 265
29.9	2.887 73	40.94 30	59.284 471	68.31 283	24.245 95	58.27 133	20.099 293	45.89 235
5 9.9	2.798 89	40.51 43	58.724 560	70.75 244	24.128 117	59.27 100	19.750 349	47.88 199
19.8	2.699 99	39.98 53	58.091 633	72.74 199	23.995 133	59.94 67	19.361 389	49.44 156
	106	60	691	151	145	32	415	108
29.8	2.593	39.38	57.400	74.25	23.850	60.23	18.946	50.52
6 8.8	2.484 109	38.72 66	56.666 734	75.24 99	23.698 152	60.24 2	18.521 425	51.09 57
18.7	2.376 108	38.03 69	55.909 757	75.69 45	23.542 156	59.88 36	18.098 423	51.15 6
28.7	2.271 105	37.32 71	55.146 763	75.59 10	23.387 155	59.20 68	17.689 409	50.70 45
7 8.7	2.172 99	36.61 71	54.398 748	74.95 64	23.237 150	58.20 100	17.305 383	49.75 95
	90	69	712	117	142	127	348	144
18.7	2.082	35.92	53.686	73.78	23.095	56.93	16.958	48.31
28.6	2.004 78	35.28 64	53.032 654	72.12 166	22.967 128	55.41 152	16.654 304	46.44 187
8 7.6	1.941 63	34.71 57	52.457 575	70.01 211	22.858 109	53.69 172	16.402 252	44.16 228
17.6	1.893 45	34.23 48	51.981 476	67.53 248	22.772 86	51.84 185	16.208 194	41.53 263
27.6	1.874 22	33.88 35	51.623 358	64.76 277	22.715 57	49.91 193	16.079 129	38.59 294
	4	18	220	298	21	193	58	319
9 6.5	1.878	33.70	51.403	61.78	22.694	47.98	16.021	35.40
16.5	1.911 33	33.70 0	51.331 72	58.71 307	22.711 17	46.13 185	16.038 17	32.02 338
23.5	1.979 68	33.93 23	51.418 87	55.65 306	22.774 63	44.44 169	16.136 98	28.52 350
10 6.4	2.084 105	34.41 48	51.667 249	52.73 292	22.884 110	42.99 145	16.319 183	24.97 355
16.4	2.228 144	35.16 75	52.076 409	50.06 267	23.044 160	41.86 113	16.587 268	21.45 352
	185	103	560	230	208	75	354	343
25.4	2.413	36.19	52.636	47.76	23.252	41.11	16.941	18.02
11 5.4	2.635 222	37.49 130	53.332 696	45.92 184	23.507 255	40.80 31	17.378 437	14.77 325
15.3	2.893 258	39.05 156	54.140 808	44.62 130	23.804 297	40.93 16	17.892 514	11.80 297
25.3	3.181 288	40.83 178	55.035 895	43.94 68	24.135 331	41.60 64	18.474 582	9.18 262
12 5.3	3.492 311	42.79 196	55.936 951	43.89 5	24.490 355	42.72 112	19.111 637	6.99 219
	325	207	973	60	368	157	675	168
15.3	3.817	44.86	56.959	44.49	24.858	44.29	19.786	5.31
25.2	4.145 328	46.99 213	57.920 961	45.74 125	25.228 370	46.26 197	20.479 693	4.18 113
35.2	4.466 321	49.10 211	58.838 918	47.58 184	25.587 359	48.57 231	21.169 690	3.67 51
平位	s 1.751	″ 31.99	s 53.733	″ 50.41	s 22.598	″ 42.63	s 18.631	″ 37.73
2回正中	3月17日		3月17日		3月17日		3月18日	
a b	+0.1533	+0.0003	+0.1250	+0.2577	+0.1488	+0.0455	+0.1675	−0.1559
a′ b′	−0.9936	−0.1131	−0.9940	−0.1093	−0.9951	−0.0986	−0.9959	−0.0902
FK3番號	437		438		439		440	

星名	λ Musc		χ U Maj		65 G. Cent		β Leon	
等級 スペクトル型	3.80	A5	3.85	K0	4.22	G0	2.23	A2
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 11 42	° ′ −65 24	h m 11 43	° ′ +48 5	h m 11 43	° ′ −60 51	h m 11 46	° ′ +14 53
	s	″	s	″	s	″	s	″
1 0.2	55.727	24.68	2.088	31.23	45.678 511	20.94 230	8.759 323	23.41
10.2	55.325 598	25.92 224	2.518 430	30.48 75	46.189 467	23.24 273	9.082 302	21.68 173
20.2	55.869 544	29.61 269	2.923 405	30.26 22	46.656 469	25.97 308	9.384 270	20.22 146
30.1	57.344 475	32.69 308	3.288 365	30.58 32	47.065 342	29.05 333	9.655 271	19.08 114
2 9.1	57.738 394 308	36.05 336 356	3.603 315 256	31.41 83 130	47.407 258	32.38 350	9.889 234 191	18.28 80 45
19.1	53.046	39.61	3.859	32.71 170	47.675	35.88	10.080 146	17.83
3 1.1	53.264 218	43.28 367	4.052 193	34.41 201	47.869 194	39.45 357	10.226 100	17.71 12
11.0	53.392 128	46.93 368	4.178 126	36.42 224	47.986 117	43.02 357	10.326 58	17.90 19
21.0	53.431 39	50.53 362	4.241 63	38.66 234	48.030 44	46.49 347	10.384 17	18.36 46
30.9	53.388 43 119	54.04 346 326	4.243 2 53	41.00 236	48.003 24 87	49.81 332 309	10.401 18	19.04 68 84
4 9.9	53.269	57.30	4.190	43.36 228	47.919	52.90	10.383	19.88
19.9	53.079 190	60.28 298	4.090 100	45.64 212	47.775 144	55.70 280	10.336 47	20.83 95
29.9	57.828 251	62.92 264	3.951 139	47.76 187	47.532 193	53.16 246	10.266 70	21.85 102
5 9.9	57.523 305	65.17 225	3.783 168	49.63 157	47.346 236	60.24 208	10.177 89	22.87 102
19.8	57.174 349 385	65.99 182 135	3.594 189 203	51.20 123	47.075 271 300	61.89 165 120	10.075 102 110	23.87 100 93
29.8	53.789	68.34	3.391	52.43 83	46.775	63.09	9.935	24.80
6 8.8	53.377 412	69.20 86	3.183 208	53.26 44	46.455 320	63.81 72	9.851 114	25.63 83
18.8	55.949 428	69.54 34	2.976 207	53.70 2	46.121 334	64.04 23	9.737 114	26.35 72
28.7	55.515 434	69.36 18	2.776 200	53.72 39	45.784 337	63.77 27	9.624 113	26.98 58
7 8.7	55.087 428 410	68.67 69 118	2.588 188 171	53.33 80	45.451 333 319	63.01 76 122	9.517 107 93	27.36 43 26
18.7	54.677	67.49	2.417	52.53 118	45.132	61.79	9.419	27.62
28.6	54.297 380	65.84 165	2.268 149	51.35 155	44.836 296	60.13 166	9.332 87	27.71 9
8 7.6	53.951 336	63.78 206	2.144 124	49.80 188	44.576 260	58.09 204	9.259 73	27.62 9
17.6	53.681 280	61.38 240	2.051 93	47.92 219	44.359 217	55.74 235	9.205 54	27.33 29
27.6	53.470 211 131	53.71 267 285	1.992 59 20	45.73 246	44.197 162 97	53.14 260 274	9.171 34 7	26.83 50 71
9 6.5	53.339	55.86	1.972	43.27 268	44.100	50.40 280	9.164	26.12
16.5	53.298 41	52.94 292	1.995 23	40.59 288	44.075 25	47.60 274	9.187 23	25.18 94
23.5	53.354 56	50.05 289	2.035 70	37.71 300	44.129 54	44.86 258	9.244 57	24.01 117
10 6.5	53.511 157	47.31 274	2.186 121	34.71 308	44.266 137	42.28 230	9.338 94	22.62 139
16.4	53.769 258 356	44.84 247 211	2.360 174 228	31.63 310	44.487 221 302	39.98 193	9.472 134 175	21.00 162 182
26.4	54.125	42.73	2.538	28.53	44.789	38.05	9.647	19.18
11 5.4	54.572 447	41.08 165	2.868 280	25.49 304	45.167 378	36.59 146	9.863 216	17.19 199
15.3	55.095 523	39.97 111	3.199 331	22.59 290	45.611 444	35.65 94	10.116 253	15.06 213
25.3	55.679 584	39.45 52	3.574 375	19.89 270	46.105 495	35.31 34	10.403 287	12.84 222
12 5.3	56.305 626 646	39.55 10 74	3.984 410 434	17.59 239 203	46.638 532 550	35.57 26 87	10.715 312 330	10.61 223 220
15.3	56.951	40.29	4.418	15.47	47.188	36.44	11.045	8.41
25.2	57.596 645	41.64 135	4.864 446	13.88 159	47.737 549	37.90 146	11.383 338	6.34 207
35.2	58.217 621	43.56 192	5.308 444	12.79 109	48.289 532	39.91 201	11.716 333	4.44 190
平位	s 54.241	″ 45.48	s 2.849	″ 43.90	s 44.618	″ 40.82	s 9.187	″ 26.63
2回正中	3月19日		3月19日		3月19日		3月20日	
a b	+0.1419	+0.1523	+0.1538	−0.0709	+0.1449	+0.1193	+0.1544	−0.0177
a′ b′	−0.9972	−0.0745	−0.9973	−0.0739	−0.9975	−0.0709	−0.9982	−0.0604
FK3番號	442		441		443		444	

星名	β Virg		B Cent		γ UMaj		† ε Cham *m*	
等級 スペクトル型	3.80	F8	4.71	K0	2.54	A0	5.05	B9
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 11 47	° ′ +2 4	h m 11 48	° ′ −44 51	h m 11 50	° ′ +54 0	h m 11 53	° ′ −77 53
	s	″	s	″	s	″	s	″
1 0.2	43.199	70.78 202	17.539	6.62	49.547 480	23.44 67	49.022 1078	52.55
10.2	43.514 315	68.76 188	17.928 389	9.00 238	50.027 453	27.77 9	50.100 989	54.41 186
20.2	43.808 294	65.88 165	18.286 358	11.70 270	50.480 413	27.68 48	51.089 874	53.80 239
30.1	44.072 264	65.22 142	18.604 318	14.63 293	50.893 359	28.16 102	51.963 739	59.65 285
2 9.1	44.299 227 186	63.80 115	18.873 269 216	17.72 309 315	51.252 295	29.18 151	52.702 588	62.87 322 350
19.1	44.485	62.65	19.039	20.87	51.547	30.69	53.290	66.37
3 1.1	44.628 143	61.78 87	19.250 161	24.01 314	51.772 225	32.61 192	53.718 428	70.06 369
11.0	44.727 99	61.19 59	19.357 107	27.03 305	51.923 151	34.86 225	53.983 265	73.85 379
21.0	44.785 58	60.87 32	19.411 54	29.97 291	52.001 78	37.32 246	54.086 103	77.66 381
30.9	44.805 21 12	60.78 9 12	19.418 7 37	32.68 271 247	52.010 9 55	39.89 257 258	54.032 54 205	81.39 373 358
4 9.9	44.794	60.90	19.381	35.15	51.955	42.47	53.827	84.97
19.9	44.754 40	61.20 30	19.305 76	37.33 218	51.845 110	44.95 248	53.480 347	88.32 335
29.9	44.692 62	61.62 42	19.197 108	39.19 186	51.688 157	47.24 229	53.005 475	91.38 306
5 9.9	44.612 80	62.16 54	19.062 135	40.69 150	51.494 194	49.25 202	52.413 592	94.09 271
19.8	44.521 91 100	62.77 61 65	18.904 158 175	41.82 113 74	51.273 221 238	50.93 167 130	51.720 693 778	96.38 229 183
29.8	44.421	63.43	18.729	42.53	51.035	52.23	50.942	98.21
6 8.8	44.316 105	64.12 69	18.541 188	42.90 34	50.787 248	53.10 87	50.097 845	99.54 133
18.8	44.210 106	64.81 69	18.346 195	42.83 7	50.538 249	53.52 42	49.207 890	100.34 80
28.7	44.105 105	65.49 68	18.148 198	42.36 47	50.295 243	53.50 2	48.293 914	100.59 25
7 8.7	44.005 100 93	66.14 65 65	17.952 196 188	41.49 87 122	50.065 230 212	53.02 48 92	47.379 914 887	100.28 31 84
18.7	43.912	66.74	17.764	40.27	49.853	52.10	46.492	99.44
28.6	43.829 83	67.27 53	17.590 174	38.71 156	49.665 188	50.76 134	45.658 834	93.07 137
8 7.6	43.759 70	67.70 43	17.437 153	36.87 184	49.506 159	49.03 173	44.904 754	96.22 185
17.6	43.705 53	68.03 33	17.310 127	34.80 207	49.381 125	45.95 208	44.257 647	93.95 227
27.6	43.674 32 6	68.21 18 1	17.218 92 51	32.59 221 229	49.295 86 42	44.54 241 270	43.740 517 361	91.34 261 288
9 6.5	43.638	68.22	17.167	30.30 228	49.253	41.84	43.379	88.46
16.5	43.691 23	68.03 19	17.163 4	28.02 216	49.260 7	38.92 292	43.190 189	85.42 304
26.5	43.748 57	67.62 41	17.211 48	25.86 197	49.320 60	35.81 311	43.189 1	82.34 308
10 6.5	43.842 94	66.97 65	17.316 105	23.89 167	49.437 117	32.53 323	43.382 193	79.32 302
16.4	43.975 133 174	66.03 91 118	17.479 163 220	22.22 130	49.613 176 238	29.28 330 328	43.769 387 574	76.50 282 252
23.4	44.149	64.88	17.699	20.92	49.851	26.00	44.343	73.98
11 5.4	44.364 215	63.45 143	17.975 276	20.06 86	50.149 298	22.80 320	45.089 746	71.88 210
15.3	44.614 250	61.78 167	18.300 325	19.70 36	50.503 354	19.76 304	45.982 893	70.27 161
25.3	44.893 284	59.91 187	18.664 364	19.87 17	50.908 405	16.98 278	46.994 1012	69.25 102
12 5.3	45.203 308 324	57.89 202 212	19.053 394 411	20.53 71 124	51.354 446 476	14.53 245 204	48.089 1095 1139	68.85 40 24
15.3	45.530	55.77	19.469	21.82	51.830	12.49	49.228	69.09
25.2	45.860 330	53.64 213	19.882 413	23.54 172	52.322 492	10.93 156	50.372 1144	69.98 89
35.2	46.186 326	51.54 210	20.286 404	25.70 216	52.814 492	9.90 103	51.483 1111	71.49 151
平位	s 43.509	″ 69.61	s 17.165	″ 23.08	s 50.467	″ 42.12	s 45.953	″ 75.55
2回正中	3月20日		3月20日		3月21日		3月22日	
a b	+0.1535	−0.0024	+0.1499	+0.0662	+0.1570	−0.0917	+0.1489	+0.3111
a′ b′	−0.9986	−0.0535	−0.9987	−0.0511	−0.9992	−0.0400	−0.9999	−0.0141
FK3番號	445		446		447		448	

星名		88 G. Cent		o Virg		Grb 1852 Caml		δ Cent	
等級	スペクトル型	5.28	F0	4.24	G5	5.93	K0	2.88	B3p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 12 0	° ′ −42 6	h m 12 2	° ′ +9 2	h m 12 2	° ′ +77 12	h m 12 5	° ′ −50 23
		s	″	s	″	s	″	s	″
1	0.2	42.148	37.19	17.849 322	57.72 191	20.691 1119	71.37 16	24.039 431	59.18 218
	10.2	42.533 385	39.48 229	18.171 303	55.81 170	21.810 1072	71.21 50	24.470 402	61.36 256
	20.2	42.891 358	42.07 259	18.474 275	54.11 143	22.882 989	71.71 112	24.872 402	63.92 285
	30.1	43.212 321	44.88 281	18.749 241	52.68 112	23.871 870	72.83 171	25.233 361	66.77 307
2	9.1	43.488 276	47.84 296	18.990 201	51.56 81	24.741 723	74.54 220	25.545 312	69.84 320
		227	302					256	
	19.1	43.715	50.86	19.191	50.75	25.464	76.74	25.801	73.04
3	1.1	43.891 176	53.87 301	19.349 158	50.27 48	26.018 554	79.35 261	26.000 199	76.28 324
	11.0	44.014 123	56.80 293	19.465 116	50.09 18	26.388 370	82.26 291	26.141 141	79.50 322
	21.0	44.088 74	59.60 280	19.538 73	50.19 10	26.558 180	85.34 308	26.225 84	82.63 313
	30.9	44.116 28	62.20 260	19.573 35	50.53 34	26.630 8	88.47 313	26.256 31	85.59 296
		15	237	0	53	188	305	19	276
4	9.9	44.101	64.57	19.573	51.06	26.372	91.52	26.237	88.35
	19.9	44.049 52	66.67 210	19.544 29	51.74 68	26.021 351	94.38 286	26.174 63	90.84 249
	29.9	43.955 84	68.46 179	19.491 53	52.53 79	25.527 494	96.94 256	26.073 101	93.02 218
5	9.9	43.853 112	69.93 147	19.418 73	53.38 85	24.914 613	99.12 218	25.937 136	94.87 185
	19.8	43.718 135	71.05 112	19.331 87	54.24 86	24.208 706	100.85 173	25.772 165	96.35 148
		153	75	99	86	773	123	189	107
	29.8	43.565	71.80	19.232	55.10	23.435	102.08	25.583	97.42
6	8.8	43.397 168	72.18 38	19.128 104	55.92 82	22.622 813	102.78 70	25.375 208	98.08 66
	18.8	43.220 177	72.17 1	19.019 109	56.67 75	21.795 827	102.92 14	25.154 221	98.30 22
	28.7	43.038 182	71.78 39	18.910 109	57.34 67	20.976 819	102.51 41	24.925 229	98.09 21
7	8.7	42.855 183	71.02 76	18.803 107	57.91 57	20.188 788	101.53 95	24.693 232	97.45 64
		177	110	102	44	737	147	226	104
	18.7	42.678	69.92	18.701	58.35	19.451	100.09	24.467	96.41
	28.7	42.511 167	68.49 143	18.608 93	58.67 32	18.783 668	98.15 194	24.252 215	94.99 142
8	7.6	42.360 151	66.80 169	18.526 82	58.84 17	18.199 584	95.76 239	24.053 196	93.22 177
	17.6	42.233 127	64.89 191	18.460 66	58.85 1	17.714 485	92.98 278	23.889 167	91.19 203
	27.6	42.137 96	62.82 207	18.413 47	58.67 18	17.341 373	89.88 310	23.757 132	88.93 226
		60	214	22	37	250	338	88	239
9	6.5	42.077	60.68	18.391	58.30	17.091	86.50	23.669	86.54
	16.5	42.032 15	58.55 213	18.297 6	57.71 59	16.973 118	82.93 357	23.634 35	84.11 243
	26.5	42.093 34	56.51 204	18.437 40	56.89 82	16.993 23	79.22 371	23.653 22	81.73 238
10	6.5	42.184 88	54.65 186	18.514 77	55.83 106	17.166 170	75.45 377	23.742 86	79.50 223
	16.4	42.328 144	53.07 158	18.631 117	54.53 130	17.486 320	71.71 374	23.894 152	77.52 198
		201	123	158	154	472	364	217	164
	26.4	42.529	51.84	18.789	52.99	17.958	68.07	24.111	75.88
11	5.4	42.784 255	51.03 81	18.989 200	51.24 175	18.577 619	64.63 344	24.391 280	74.66 122
	15.4	43.089 305	50.70 33	19.229 240	49.30 194	19.336 759	61.48 315	24.729 338	73.93 73
	25.3	43.435 346	50.86 16	19.503 274	47.22 208	20.221 885	58.69 279	25.113 384	73.73 20
12	5.3	43.812 377	51.55 69	19.805 302	45.05 217	21.213 992	56.36 233	25.535 422	74.08 35
		397	119	322	220	1072	179	443	91
	15.3	44.209	52.74	20.127	42.85	22.285 1122	54.57 121	25.978	74.99
	25.2	44.612 403	54.29 165	20.458 331	40.70 215	23.407 1138	53.36 58	26.429 451	76.42 143
	35.2	45.009 397	56.46 207	20.788 330	38.67 203	24.545	52.78	26.872 443	78.34 192
平位		s 41.951	″ 53.49	s 18.316	″ 58.42	s 22.883	″ 87.66	s 23.679	″ 77.86
2回正中		3月23日		3月24日		3月24日		3月24日	
a	b	+0.1535	+0.0303	+0.1532	−0.0106	+0.1503	−0.2940	+0.1552	+0.0805
a′	b′	−1.0000	+0.0021	−1.0000	+0.0101	−0.9999	+0.0104	−0.9997	+0.0235
FK3番號		449		450		451		452	

星名		ε Corv		Br 1634 Caml		δ Cruc		δ UMaj	
等級	スペクトル型	3.21	K0	5.12	A5	3.08	B3	3.44	A2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 12 7	° ′ +22 17	h m 12 9	° ′ +77 55	h m 12 12	° ′ −58 25	h m 12 12	° ′ +57 20
		s	″	s	″	s	″	s	″
1	0.2	11.152	59.57	30.667	42.19	6.877	33.67	35.598	
	10.2	11.485 333	61.83 226	31.845 1178	41.92 27	7.384 507	35.67 200	36.116 518	43.27
	20.2	11.797 312	64.20 237	32.981 1136	42.34 42	7.858 474	38.12 245	36.613 497	42.43 84
	30.2	12.080 283	66.62 242	34.034 1053	43.39 105	8.285 427	40.94 282	37.074 461	42.19 24
2	9.1	12.327 247	69.01 239	34.939 935	45.04 165	8.655 370	44.03 309	37.483 409	42.56 37
		206	230	784	216	308	330	347	43.50 94
	19.1	12.533	71.31	35.753	47.20	8.963	47.33	37.830	147
3	1.1	12.696 163	73.48 217	36.363 610	49.78 258	9.203 240	50.73 340	38.104 274	44.97
	11.0	12.815 119	75.47 199	36.780 417	52.67 289	9.376 173	54.17 344	38.301 197	46.90 193
	21.0	12.893 78	77.26 179	36.999 219	55.75 308	9.480 104	57.55 338	38.420 119	49.19 229
	30.9	12.932 39	78.82 156	37.018 19	58.89 314	9.521 41	60.82 327	38.464 44	51.74 255
		4	132	172	308	20	309	29	54.44 270
4	9.9	12.936	80.14	36.846	61.97	9.501	63.91	38.435	274
	19.9	12.910 26	81.21 107	36.497 349	64.88 291	9.426 75	66.75 284	38.343 92	57.18
	29.9	12.858 52	82.04 83	35.995 502	67.50 262	9.302 124	69.30 255	38.196 147	59.84 266
5	9.9	12.785 73	82.62 58	35.362 633	69.76 226	9.133 169	71.51 221	38.002 194	62.34 250
	19.9	12.695 90	82.96 34	34.624 738	71.55 179	8.925 208	73.33 182	37.773 229	64.57 223
		104	9	813	131	240	141	255	66.47 190
	29.8	12.591	83.05	33.811	72.86	8.685	74.74	37.518	152
6	8.8	12.477 114	82.91 14	32.950 861	73.64 78	8.418 267	75.71 97	37.246 272	67.99
	18.8	12.356 121	82.54 37	32.037 883	73.86 22	8.131 287	76.20 49	36.936 280	69.07 108
	28.7	12.231 125	81.96 58	31.187 880	73.53 33	7.831 300	76.23 3	36.685 281	69.68 61
7	8.7	12.105 126	81.17 79	30.335 852	72.66 87	7.527 304	75.77 46	36.412 273	69.83 15
		123	96	803	140	301	91	257	69.49 34
	18.7	11.982	80.21	29.532	71.26	7.226	74.86	36.155	80
	28.7	11.867 115	79.10 111	28.797 735	69.38 188	6.940 286	73.51 135	35.917 238	68.69
8	7.6	11.762 105	77.87 123	28.148 649	67.04 234	6.676 264	71.77 174	35.708 209	67.44 125
	17.6	11.674 88	76.57 130	27.600 548	64.31 273	6.446 230	69.68 209	35.532 176	65.75 169
	27.6	11.608 66	75.25 132	27.167 433	61.24 307	6.260 186	67.32 236	35.395 137	63.68 207
		39	129	304	335	132	255	91	61.25 243
9	6.6	11.569	73.96	28.863	57.89	6.128	64.77	35.304	275
	16.5	11.562 7	72.76 120	28.697 166	54.32 357	6.051 67	62.12 265	35.264 40	58.50
	26.5	11.594 32	71.73 103	28.680 17	50.61 371	6.035 4	59.48 264	35.281 17	55.49 301
10	6.5	11.667 73	70.91 82	28.818 138	46.83 378	6.146 81	56.94 254	35.360 79	52.27 322
	16.4	11.785 118	70.37 54	27.115 297	43.03 377	6.307 161	54.61 233	35.505 145	48.90 337
		165	22	458	368	242	201	211	45.45 345
	26.4	11.950	70.15	27.573	39.38	6.549	52.60	35.716	346
11	5.4	12.159 209	70.30 15	28.190 617	35.90 348	6.867 318	51.00 160	35.996 280	41.99
	15.4	12.411 252	70.83 53	28.957 767	32.68 322	7.254 387	49.88 112	36.341 345	38.59 340
	25.3	12.700 289	71.75 92	29.860 903	29.83 285	7.699 445	49.31 57	36.745 404	35.35 324
12	5.3	13.017 317	73.05 130	30.881 1021	27.43 240	8.187 488	49.32 1	37.199 454	32.36 299
		337	164	1111	188	516	59	493	29.69 267
	15.3	13.354	74.69	31.992	25.55	8.703	49.91	37.692	225
	25.3	13.699 345	76.62 193	33.163 1171	24.25 129	9.229 526	51.03 117	38.209 517	27.44
	35.2	14.041 342	78.79 217	34.357 1194	23.61 65	9.749 520	52.79 171	38.735 526	25.68 176
									24.46 122
平位		s 11.323	″ 70.02	s 33.125	″ 58.30	s 6.320	″ 54.43	s 35.784	″ 56.98
2回正中		3月25日		3月26日		3月25日		3月26日	
a	b	+0.1542	+0.0273	+0.1403	−0.3116	+0.1591	+0.1083	+0.1476	−0.1039
a′	b′	−0.9995	+0.0314	−0.9991	+0.0417	−0.9986	+0.0528	−0.9985	+0.0550
FK3番號		453		454		455		456	

星名	γ Corv		2 CVen		β Cham		η Virg	
等級	2.78		5.80		4.38		4.00	
スペクトル型	B8		K5		B5		A0	
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	° ′ −17 13	h m 12 13	° ′ +40 58	h m 12 14	° ′ −79 59	h m 12 16	° ′ −0 20
	s	″	s	″	s	″	s	″
1 0.2	51.978	23.07	15.545	28.16	60.344	20.89	58.811	57.48
10.2	52.306 328	25.28 221	15.942 397	26.88 128	61.557 1213	22.48 159	59.132 321	59.56 208
20.2	52.615 309	27.56 228	16.322 380	26.11 77	62.690 1133	24.63 215	59.436 304	61.51 195
30.2	52.897 282	29.83 227	16.673 351	25.86 25	63.711 1021	27.25 263	59.715 279	63.30 179
2 9.1	53.144 247 208	32.04 221 208	16.984 311 264	26.13 27 76	64.595 884 731	30.30 304 336	59.962 247 209	64.86 156 131
19.1	53.352 166	34.12	17.248 210	26.89 120	65.326 562	33.66	60.171 169	66.17 103
3 1.1	53.518 124	36.03 191	17.458 155	28.09 158	65.888 390	37.25 359	60.340 128	67.20 75
11.0	53.642 83	37.75 172	17.613 99	29.67 187	66.278 215	40.99 374	60.468 87	67.95 49
21.0	53.725 46	39.24 149	17.712 45	31.54 206	66.493 41	44.78 379	60.555 50	68.44 24
30.9	53.771 11	40.50 126 103	17.757 3	33.60 218	66.534 126	48.53 375 366	60.605 17	68.68 1
4 9.9	53.782 18	41.53 80	17.754	35.78 218	66.408 287	52.19	60.622	68.69
19.9	53.764 44	42.33 57	17.707 47	37.96 211	66.121 435	55.65 346	60.608 14	68.52 17
29.9	53.720 65	42.90 35	17.623 84	40.07 195	65.686 573	53.86 321	60.571 37	68.19 33
5 9.9	53.655 81	43.25 14	17.509 114	42.02 174	65.113 696	61.74 288	60.513 58	67.74 45
19.9	53.574 96	43.39 7	17.372 137 155	43.76 145	64.417 801	64.24 250 206	60.438 75 87	67.19 55 62
29.8	53.478	43.32	17.217	45.21 114	63.616 889	66.30	60.351	66.57
6 8.8	53.372 106	43.07 25	17.051 166	46.35 79	62.727 954	67.89 159	60.255 96	65.91 66
18.8	53.260 112	42.64 43	16.880 171	47.14 43	61.773 995	68.95 106	60.151 104	65.23 68
28.7	53.142 118	42.03 61	16.707 173	47.57 4 33	60.778 1012	69.47 52	60.044 107	64.54 69
7 8.7	53.023 119 116	41.23 75 89	16.539 168 160	47.61	59.766 996	69.43 4 58	59.937 107 105	63.87 67 65
18.7	52.907 111	40.39	16.379 148	47.28 72	58.770 953	68.85 113	59.832 100	63.22
28.7	52.795 101	39.40 99 106	16.231 131	46.53 107	57.817 880	67.72 163	59.732 91	62.64 58
8 7.6	52.695 86	38.34 109	16.100 110	45.49 142	53.937 776	66.09 208	59.641 77	62.12 52
17.6	52.609 66	37.25 109	15.990 84	44.07 176	53.161 641	64.01 246	59.564 60	61.70 42
27.6	52.543 40	36.16 109 103	15.906 52	42.31 205	55.520 480	61.55 277	59.504 36	61.41 29 14
9 6.6	52.503	35.13	15.854	40.26 232	55.040 296	58.78 298	59.468	61.27
16.5	52.493 10	34.22 91	15.837 17	37.94 257	54.744 93	55.80 307	59.460 8	61.32 5
26.5	52.519 26	33.47 75	15.862 25	35.37 276	54.651 120	52.73 306	59.484 24	61.57 25
10 6.5	52.586 67	32.95 52	15.932 70	32.61 291	54.771 336	49.67 291	59.546 62	62.07 50
16.4	52.696 110 155	32.69 26 6	16.051 119 170	29.70 300	55.107 547	46.76 266	59.648 102 145	62.82 75 102
26.4	52.851	32.75	16.221	26.70	55.654	44.10	59.793	63.84
11 5.4	53.051 200	33.14 39	16.442 221	23.67 303	56.399 745	41.81 229	59.981 188	65.13 129
15.4	53.292 241	33.90 76	16.713 271	20.68 299	57.317 918	39.98 183	60.209 228	66.67 154
25.3	53.571 279	35.00 110	17.029 316	17.81 287	58.378 1061	38.71 127	60.474 265	68.44 177
12 5.3	53.878 307 328	36.44 144 173	17.383 354 382	15.14 267 238	59.548 1170 1234	38.03 68 3	60.768 294 316	70.39 195 207
15.3	54.206	38.17	17.765	12.76	60.782	38.00	61.084	72.46
25.3	54.543 337	40.14 197	18.165 400	10.74 202	62.039 1257	38.60 60	61.411 327	74.60 214
35.2	54.879 336	42.30 216	18.570 405	9.15 159	63.279 1240	39.84 124	61.738 327	76.73 213
平位	s 52.247	″ 32.00	s 16.423	″ 38.33	s 57.575	″ 44.83	s 59.275	″ 60.60
2回正中	3月26日		3月27日		3月27日		3月27日	
a b	+0.1545	+0.0206	+0.1500	−0.0578	+0.1757	+0.3421	+0.1534	+0.0004
a′ b′	−0.9984	+0.0561	−0.9983	+0.0579	−0.9979	+0.0652	−0.9973	+0.0741
FK3番號	457		458		459		460	

星名	6 C Ven		α Cruc m		323 G. Hyda		σ Cent	
等級	5.22		1.58 2.09		5.68		4.16	
スペクトル型	K0		B1 B1		A0		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 23	° ′ +39 19	h m 12 23	° ′ −62 46	h m 12 23	° ′ −32 30	h m 12 24	° ′ −49 54
	s	″	s	″	s	″	s	″
1 0.2	1.739	55.13 141	25.589	38.73 180	50.889	36.66	56.959	35.11
10.2	2.129 390	53.72 92	26.163 574	40.53 228	51.248 359	38.81 215	57.397 438	37.09 198
20.2	2.505 376	52.80 39	26.703 540	42.81 269	51.589 341	41.19 238	57.812 415	39.46 237
30.2	2.855 350	52.41 12	27.195 492	45.50 302	51.901 312	43.72 253	58.190 378	42.14 268
2 9.1	3.167 312 267	52.53 62	27.627 432 365	48.52 326	52.177 276 234	46.33 261 262	58.524 334 282	45.05 291 307
19.1	3.434	53.15	27.992	51.78	52.411	48.95	58.806	48.12
3 1.1	3.651 217	54.22 107	28.282 290	55.19 341	52.601 190	51.52 257	59.034 228	51.26 314
11.1	3.814 163	55.68 146	28.497 215	58.69 350	52.745 144	53.99 247	59.206 172	54.41 315
21.0	3.924 110	57.45 177	28.637 140	62.17 348	52.846 101	56.30 231	59.323 117	57.48 307
31.0	3.981 57 10	59.44 199 212	28.703 66 3	65.58 341 325	52.905 59 21	58.43 213 190	59.387 64 15	60.43 295 276
4 9.9	3.991	61.56	28.700	68.83	52.926	60.33	59.402	63.19
19.9	3.957 34	63.72 216	28.633 67	71.88 305	52.913 13	62.00 167	59.372 30	65.73 254
29.9	3.887 70	65.82 210	28.506 127	74.65 277	52.870 43	63.41 141	59.301 71	67.98 225
5 9.9	3.787 100	67.80 198	28.324 182	77.10 245	52.801 69	64.54 113	59.194 107	69.93 195
19.9	3.661 126 143	69.57 177 152	28.095 229 271	79.17 207 166	52.711 90 110	65.38 84 55	59.055 139 167	71.52 159 122
29.8	3.518	71.09	27.824	80.83	52.601	65.93	58.888	72.74
6 8.8	3.362 156	72.31 122	27.518 306	82.05 122	52.476 125	66.18 25	58.698 190	73.57 83
18.8	3.198 164	73.20 89	27.185 333	82.79 74	52.340 136	66.13 5	58.491 207	73.98 41
28.8	3.031 167	73.72 52	26.832 353	83.04 25	52.195 145	65.79 34	58.270 221	73.96 2
7 8.7	2.865 166 159	73.88 16 21	26.470 362 360	82.80 24 73	52.046 149 149	65.15 64 90	58.042 228 227	73.53 43 84
18.7	2.706	73.67	26.110	82.07	51.897	64.25	57.815	72.69
28.7	2.556 150	73.08 59	25.760 350	80.88 119	51.752 145	63.10 115	57.594 221	71.47 122
8 7.6	2.421 135	72.13 95	25.435 325	79.25 163	51.617 135	61.74 136	57.387 207	69.89 158
17.6	2.305 116	70.82 131	25.146 289	77.24 201	51.499 118	60.22 152	57.204 183	68.02 187
27.6	2.213 92 63	69.19 163 194	24.905 241 179	74.91 233 256	51.402 97 67	58.59 163 168	57.053 151 111	65.92 210 227
9 6.6	2.150	67.25	24.726	72.35	51.335	56.91	56.942	63.65
16.5	2.122 28	65.02 223	24.619 107	69.64 271	51.303 32	55.25 166	56.880 62	61.30 235
26.5	2.133 11	62.55 247	24.593 26	66.88 276	51.313 10	53.69 156	56.875 5	58.97 233
10 6.5	2.189 56	59.85 270	24.656 63	64.20 268	51.370 57	52.30 139	56.932 57	56.75 222
16.5	2.293 104 154	57.00 285 298	24.811 155 247	61.68 252 223	51.477 107 158	51.16 114 83	57.055 123 190	54.73 202 171
26.4	2.447	54.02	25.058	59.45	51.635	50.33	57.245	53.02
11 5.4	2.653 206	51.00 302	25.394 336	57.60 185	51.845 210	49.87 46	57.500 255	51.70 132
15.4	2.909 256	47.99 301	25.811 417	56.21 139	52.102 257	49.82 5	57.815 315	50.83 87
25.3	3.210 301	45.08 291	26.295 484	55.36 85	52.401 299	50.21 39	58.182 367	50.46 37
12 5.3	3.551 341 370	42.35 273 246	26.834 539 572	55.09 27 32	52.734 333 356	51.04 83 126	58.590 408 436	50.63 17 71
15.3	3.921	39.89	27.406	55.41	53.090	52.30	59.026	51.34
25.3	4.310 389	37.76 213	27.995 589	56.33 92	53.458 368	53.94 164	59.474 448	52.57 123
35.2	4.703 396	35.05 171	28.580 585	57.81 148	53.825 367	55.93 199	59.922 448	54.29 172
平位	s 2.659	″ 64.58	s 25.000	″ 60.79	s 51.049	″ 51.07	s 56.821	″ 54.46
2回正中	3月29日		3月29日		3月29日		3月29日	
a b	+0.1478	−0.0544	+0.1665	+0.1290	+0.1577	+0.0423	+0.1619	+0.0787
a′ b′	−0.9950	+0.1004	−0.9948	+0.1020	−0.9946	+0.1039	−0.9941	+0.1086
FK3番號	461		462		463		464	

星名	20 Coma		δ Corv		74 UMaj		γ Cruc	
等級 スペクトル型	5.72	A2	3.11	A0	5.44	A5	1.61	M3
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 12 23	° ′ +21 12	h m 12 23	° ′ −16 11	h m 12 27	° ′ +58 42	h m 12 27	° ′ −56 47
1 0.2	s 50.749 341	″ 37.63 180	s ′ 54.282 330	″ 44.77 217	s 16.658	″ 55.47 99	s 59.733 499	″ 17.97 185
10.2	51.090 327	35.83 147	54.612 314	46.94 222	17.192 534 17.710 518	54.48 37	60.232 472	19.82 229
20.2	51.417 303	34.36 108	54.926 289	49.16 221	18.195 486	54.11 25	60.704 432	22.11 267
30.2	51.720 271	33.28 68	55.215 257	51.37 214	18.633 437	54.35 84	61.136 382	24.78 295
2 9.1	51.991 233	32.60 27	55.472 219	53.51 201	376	55.20 140	61.518 324	27.73 317
19.1	52.224 190	32.33 12	55.691 180	55.52 185	19.009	56.60 188	61.842 262	30.90 329
3 1.1	52.414 146	32.45 49	55.871 138	57.37 165	19.314 305 19.542 228	58.48 227	62.104 198	34.19 334
11.1	52.560 103	32.94 79	56.009 98	59.02 144	19.689 147	60.75 256	62.302 134	37.53 331
21.0	52.663 60	33.73 106	56.107 61	60.46 120	19.758 69	63.31 274	62.436 73	40.84 322
31.0	52.723 23	34.79 123	56.168 26	61.66 98	6	66.05 281	62.509 15	44.06 305
4 9.9	52.746 12	35.02	56.194	62.64 74	19.752 74	68.86 276	62.524 38	47.11 284
19.9	52.734 40	37.38 136	56.190 4	63.38 54	19.678 135	71.62 261	62.486 88	49.95 257
29.9	52.694 64	38.79 141	56.160 30	63.92 33	19.543 186	74.23 237	62.398 133	52.52 226
5 9.9	52.630 83	40.20 141	56.108 52	64.25 13	19.357 227	76.60 205	62.265 172	54.78 189
19.9	52.547 99	41.53 133 124	56.037 71 86	64.38 6	19.130 259	78.65 166	62.093 206	56.67 150
29.8	52.448 110	42.77 108	55.951 99	64.32 23	18.871 281	80.31 124	61.887 236	58.17 108
6 8.8	52.338 116	43.85 90	55.852 108	64.09 41	18.590 294	81.55 77	61.651 259	59.25 64
18.8	52.222 122	44.75 70	55.744 115	63.68 55	18.296 299	82.32 29	61.392 275	59.89 18
28.8	52.100 122	45.45 48	55.629 118	63.13 69	17.997 296	82.61 20	61.117 285	60.07 29
7 8.7	51.978 119	45.93 24	55.511 119	62.44 81	17.701 284	82.41 69	60.832 286	59.78 74
18.7	51.859	46.17	55.392	61.63 91	17.417 266	81.72 115	60.546 278	59.04 117
28.7	51.745 114	46.17 0	55.277 115	60.72 91	17.151 241	80.57 160	60.268 260	57.87 157
8 7.6	51.640 105	45.92 25	55.170 107	59.75 97	16.910 209	78.97 201	60.008 233	56.30 191
17.6	51.550 90	45.41 51	55.076 94	58.75 100	16.701 171	76.96 238	59.775 194	54.39 220
27.6	51.478 72 49	44.65 76 102	54.999 77 52	57.76 99 94	16.530 125	74.58 273	59.581 146	52.19 242
9 6.6	51.429	43.63	54.947	56.82 83	16.405	71.85 301	59.435 88	49.77 254
16.5	51.409 20	42.35 128	54.924 23	55.99 68	16.332 73	68.84 324	59.347 20	47.23 256
26.5	51.422 13	40.82 153	54.936 12	55.31 46	16.316 16	65.60 342	59.327	44.67 248
10 6.5	51.473 51	39.05 177	54.988 52	54.85 20	16.365 49	62.18 351	59.380 53	42.19 230
16.5	51.565 93 138	37.03 199 219	55.084 96 141	54.65 9	16.481 116 188	58.67 355	59.511 131 209	39.89 202
26.4	51.704	34.87	55.225 186	54.74 42	16.669	55.12 349	59.720 285	37.87 163
11 5.4	51.887 183	32.53 234	55.411 230	55.16 76	16.928 259	51.63 336	60.005 355	36.24 119
15.4	52.113 226	30.07 246	55.641 268	55.92 110	17.257 329	48.27 312	60.360 414	35.05 66
25.3	52.379 266	27.56 251	55.909 300	57.02 141	17.650 393	45.15 281	60.774 462	34.39 11
12 5.3	52.678 299 326	25.07 249 240	56.209 323	58.43 170	18.099 449 494	42.34 240	61.236 494	34.28 45
15.3	53.004	22.67	56.532	60.13 194	18.593 525	39.94 192	61.730	34.74 103
25.3	53.344 340	20.43 224	56.867 335	62.07 210	19.118 538	38.02 136	62.229 509	35.77 156
35.2	53.690 346	18.42 201	57.203 336	64.17	19.656	36.66	62.748	37.33
平位	s 51.476	″ 41.60	s 54.654	″ 53.86	s 18.019	″ 68.97	s 59.442	″ 39.00
2回正中	3月30日		3月30日		3月30日		3月30日	
a b	+0.1503	−0.0257	+0.1556	+0.0192	+0.1403	−0.1090	+0.1657	+0.1011
a′ b′	−0.9931	+0.1169	−0.9931	+0.1172	−0.9929	+0.1188	−0.9926	+0.1218
FK3番號	466		465		467		468	

星名	γ Musc		β CVen		χ Drac		β Corv	
等級 スペクトル型	4.04	B5	4.32	G0	3.88	B5p	2.84	G5
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 12 29	° ′ −71 48	h m 12 31	° ′ +41 39	h m 12 31	° ′ +70 5	h m 12 31	° ′ −23 4
1 0.3	s 3.254	″ 42.12	s 1.350	″ 51.29	s 1.651	″ 53.01	s 22.955	″ 42.64
10.2	4.052 798	43.67 155	1.749 399	49.88 141	2.412 761	52.26 75	23.293 341	44.77 213
20.2	4.807 755	45.76 209	2.135 386	48.93 90	3.156 744	52.17 9	23.621 325	47.04 227
30.2	5.497 690	48.32 256	2.493 361	48.61 37	3.858 702	52.72 55	23.921 300	49.38 234
2 9.1	6.105 609 516	51.27 295 326	2.821 325 280	48.79 18 69	4.493 635 548	53.89 117 174	24.188 267 229	51.71 233 227
19.1	6.622	54.53	3.101	49.48	5.041	55.63	24.417	53.98
3 1.1	7.036 414	58.01 348	3.329 228	50.63 115	5.487 446	57.84 221	24.605 188	56.13 215
11.1	7.344 308	61.62 361	3.503 174	52.19 156	5.817 330	60.44 260	24.751 146	58.13 200
21.0	7.544 200	65.28 366	3.622 119	54.07 188	6.028 211	63.31 287	24.857 106	59.94 181
31.0	7.639 95 8	68.91 363 353	3.687 65 15	56.18 211 225	6.117 89 28	65.33 302 305	24.924 67 31	61.55 161 138
4 9.9	7.631	72.44	3.702	58.43 227	6.039	69.38 295	24.935	62.93
19.9	7.525 106	75.78 334	3.671 31	60.70 223	5.952 137	72.34 234	24.935 0	64.08 115
29.9	7.329 196	78.87 309	3.602 69	62.93 209	5.718 234	75.09 275	24.927 28	65.00 92
5 9.9	7.047 282	81.67 280	3.499 103	65.02 188	5.399 319	77.56 247	24.875 52	65.68 68
19.9	6.689 358 425	84.09 242 200	3.370 129 150	66.90 161	5.012 387 442	79.65 209 165	24.804 71 90	66.13 45 22
29.8	6.234	86.09	3.220	68.51	4.570	81.30	24.714	65.35
6 8.8	5.782 482	87.64 155	3.055 165	69.81 130	4.092 478	82.46 116	24.611 103	66.34 1
18.8	5.255 527	88.69 105	2.881 174	70.75 94	3.590 502	83.11 65	24.496 115	65.10 24
28.8	4.697 558	89.23 54	2.702 179	71.32 57	3.080 510	83.23 12	24.373 123	65.66 44
7 8.7	4.121 576 576	89.23 0 52	2.524 178 174	71.50 18 22	2.576 504 486	82.81 42 94	24.245 128 129	65.91 65 83
18.7	3.545	88.71	2.350	71.28	2.090	81.87	24.116	64.18
28.7	2.986 559	87.66 105	2.186 164	70.68 60	1.634 456	80.44 143	23.990 126	63.19 99
8 7.7	2.462 524	86.14 152	2.036 150	69.69 99	1.219 415	78.53 191	23.871 119	62.07 112
17.6	1.992 470	84.17 197	1.906 130	68.34 135	0.856 363	76.19 234	23.765 106	60.86 121
27.6	1.595 397 305	81.83 234 264	1.799 107 77	66.63 171 202	0.555 301 229	73.47 272 306	23.678 87 62	59.60 126 124
9 6.6	1.290	79.19	1.722	64.61	0.326	70.41	23.616	58.36
16.5	1.091 199	76.35 284	1.680 42	62.30 231	0.176 150	67.03 333	23.585 31	57.17 119
23.5	1.013 78	73.41 294	1.679 1	59.72 258	0.115 61	63.54 354	23.591 6	56.12 105
10 6.5	1.064 51	70.48 293	1.723 44	56.93 279	0.149 34	59.86 368	23.639 48	55.25 87
16.5	1.250 186 321	67.68 280 255	1.817 94 146	53.93 295 308	0.284 135 239	56.11 375 373	23.732 93 142	54.63 62 32
23.4	1.571	65.13	1.933	50.90	0.523	52.38	23.374	54.31
11 5.4	2.019 448	62.93 220	2.163 200	47.79 311	0.867 344	48.75 363	24.034 190	54.33 2
15.4	2.582 563	61.17 176	2.414 251	44.70 309	1.313 446	45.32 343	24.298 234	54.72 39
25.3	3.244 662	59.95 122	2.714 300	41.72 298	1.853 540	42.18 314	24.574 276	55.49 77
12 5.3	3.932 738 790	59.31 64 2	3.055 341 374	38.93 279 251	2.477 624 692	39.42 276 230	24.882 308 332	56.63 114 148
15.3	4.772	59.29	3.429	36.42	3.169	37.12	25.214	58.11
25.3	5.585 813	59.89 60	3.823 394	34.26 216	3.908 739	35.35 176	25.559 345	59.90 179
35.2	6.398 811	61.10 121	4.227 404	32.53 173	4.673 765	34.21 115	25.903 347	61.93 203
平位	s 2.155	″ 65.81	s 2.329	″ 61.10	s 3.615	″ 67.91	s 23.286	″ 54.24
2回正中	3月30日		3月31日		3月31日		3月31日	
a b	+0.1790	+0.2014	+0.1453	−0.0588	+0.1284	−0.1825	+0.1572	+0.0281
a′ b′	−0.9920	+0.1264	−0.9909	+0.1350	−0.9908	+0.1351	−0.9906	+0.1365
FK3番號	469		470		472		471	

星名	24 Coma *sq*		*a* Musc		*χ* Virg		† *γ* Cent *m*	
等級	5.18		2.94		4.78		2.38	
スペクトル型	K0		B3		K0		A0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 12 32	° ′ +18 41	h m 12 33	° ′ −68 48	h m 12 36	° ′ −7 40	h m 12 38	° ′ −48 38
1 0.3	s 15.514	″ 23.23	s 46.445	″ 54.39	s 17.561	″ 49.44	s 21.698	″ 29.35
10.2	15.850 336	21.35 188	47.153 708	55.94 155	17.886 325	51.55 211	22.133 435	31.20 185
20.2	16.175 325	19.80 155	47.824 671	58.02 208	18.198 312	53.64 209	22.548 415	33.44 224
30.2	16.476 301	18.60 120	48.441 617	60.55 253	18.487 289	55.63 199	22.931 383	35.99 255
2 9.1	16.747 271	17.79 81	48.989 548	63.47 292	18.747 260	57.46 183	23.273 342	38.78 279
	234	41	467	321	224	165	295	295
19.1	16.981	17.38	49.456	66.68	18.971	59.11	23.568	41.73
3 1.1	17.174 193	17.35 3	49.835 379	70.10 342	19.157 186	60.52 141	23.811 243	44.77 304
11.1	17.323 149	17.69 34	50.122 287	73.65 355	19.303 146	61.70 118	24.000 189	47.82 305
21.0	17.430 107	18.33 64	50.316 194	77.25 360	19.410 107	62.62 92	24.137 137	50.82 300
31.0	17.493 66	19.24 91	50.419 103	80.80 355	19.480 70	63.31 69	24.222 85	53.70 288
	29	110	15	345	36	45	38	272
4 9.9	17.525	20.34	50.434	84.25	19.516	63.76	24.260	56.42
19.9	17.520 5	21.58 124	50.384 70	87.52 327	19.523 7	64.01 25	24.252 8	58.92 250
29.9	17.487 33	22.90 132	50.216 148	90.55 303	19.503 20	64.08 7	24.204 48	61.17 225
5 9.9	17.430 57	24.22 132	49.994 222	93.28 273	19.461 42	63.98 10	24.119 85	63.12 195
19.9	17.353 77	25.50 128	49.707 287	95.64 236	19.400 61	63.73 25	24.001 118	64.75 163
	92	120	346	196	77	36	147	128
29.8	17.261	26.70	49.361	97.60	19.323	63.37	23.854	66.03
6 8.8	17.157 104	27.77 107	48.965 396	99.11 151	19.234 89	62.90 47	23.682 172	66.92 89
18.8	17.045 112	28.68 91	48.529 436	100.14 103	19.135 99	62.35 55	23.490 192	67.42 50
28.8	16.927 118	29.42 74	48.064 465	100.66 52	19.028 107	61.73 62	23.282 208	67.52 10
7 8.7	16.808 119	29.95 53	47.582 482	100.67 1	18.917 111	61.05 68	23.055 227	67.21 31
	119	32	485	52	113	71	222	72
18.7	16.689	30.27	47.097	100.15	18.804	60.34	22.843	66.49
28.7	16.576 113	30.36 9	46.624 473	99.13 102	18.694 110	59.62 72	22.625 218	65.41 108
8 7.7	16.470 106	30.22 14	46.178 446	97.64 149	18.589 105	58.90 72	22.417 208	63.97 144
17.6	16.378 92	29.84 38	45.776 402	95.73 191	18.493 96	58.23 67	22.229 188	62.24 173
27.6	16.303 75	29.21 63	45.434 342	93.44 229	18.419 77	57.62 61	22.069 160	60.25 199
	53	88	266	258	56	50	123	215
9 6.6	16.250	28.33	45.168	90.86	18.363	57.12	21.946	58.10
16.5	16.225 25	27.20 113	44.993 175	88.09 277	18.335 28	56.76 36	21.869 77	55.85 225
26.5	16.232 7	25.82 138	44.921 72	85.22 287	18.339 4	56.59 17	21.846 23	53.59 226
10 6.5	16.278 46	24.20 162	44.930 39	82.36 286	18.382 43	55.64 5	21.884 38	51.42 217
16.5	16.365 87	22.34 186	45.116 156	79.63 273	18.466 84	56.94 30	21.986 102	49.44 198
	131	206	274	249	129	57	168	171
26.4	16.493	20.28	45.390	77.14	18.595	57.51	22.154	47.73
11 5.4	16.672 176	18.04 224	45.776 386	75.00 214	18.768 173	58.38 87	22.388 234	46.39 134
15.4	16.891 219	15.67 237	46.264 488	73.31 169	18.984 216	59.54 116	22.682 294	45.47 92
25.4	17.151 260	13.23 244	46.841 577	72.13 118	19.240 256	60.98 144	23.030 348	45.04 43
12 5.3	17.444 293	10.77 246	47.487 646	71.53 60	19.527 287	62.67 169	23.422 392	45.12 8
	320	240	693	1	312	189	422	60
15.3	17.764	8.37	48.180	71.54	19.839	64.56	23.844	45.72
25.3	18.100 336	6.11 226	48.897 717	72.15 61	20.165 326	66.59 203	24.283 439	46.84 112
35.2	18.441 341	4.06 205	49.615 718	73.37 122	20.495 331	68.71 212	24.725 442	48.44 160
平位	s 16.246	″ 26.19	s 45.692	″ 77.82	s 18.073	″ 55.84	s 21.730	″ 48.84
2回正中	3月31日		4月1日		4月1日		4月2日	
a b	+0.1502	−0.0223	+0.1786	+0.1702	+0.1547	+0.0089	+0.1659	+0.0747
a′ b′	−0.9901	+0.1403	−0.9892	+0.1468	−0.9875	+0.1577	−0.9830	+0.1666
FK3番號	473		474		475		476	

星名	† *γ* Virg *m*		76 UMaj		330 G. Hyda		† *β* Musc *m*	
等級	3.65 3.68		5.92		5.73		3.25	
スペクトル型	F0 F0		A0		K2		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 38	° ′ −1 8	h m 12 39	° ′ +63 0	h m 12 40	° ′ −28 0	h m 12 42	° ′ −67 47
1 0.3	s 45.589	″ 9.23	s 3.252	″ 78.67	s 57.488	″ 27.32	s 46.271	″ 23.49
10.2	45.912 323	11.31 208	3.847 595	77.64 103	57.841 353	29.37 205	46.959 688	24.94 145
20.2	46.223 311	13.29 198	4.431 584	77.24 40	58.179 338	31.61 224	47.616 657	26.92 198
30.2	46.512 289	15.11 182	4.983 552	77.47 23	58.493 314	33.98 237	48.224 608	29.36 244
2 9.1	46.772 260	16.72 161	5.486 503	78.33 86	58.774 281	36.40 242	48.769 545	32.18 282
	225	135	439	144	243	240	470	313
19.1	46.997	18.07	5.925	79.77	59.017	38.80	49.239	35.31
3 1.1	47.184 187	19.16 109	6.286 361	81.70 193	59.220 203	41.13 233	49.628 389	38.66 335
11.1	47.331 147	19.95 80	6.562 276	84.05 235	59.381 161	43.35 222	49.930 302	42.14 348
21.0	47.439 108	20.50 54	6.748 186	86.70 265	59.499 118	45.41 206	50.144 214	45.69 355
31.0	47.511 72	20.78 28	6.844 96	89.55 285	59.578 79	47.28 187	50.271 127	49.21 352
	37	6	9	293	43	166	42	342
4 9.9	47.548	20.84	6.853	92.48	59.621	48.94	50.313	52.63
19.9	47.555 7	20.70 14	6.781 72	95.37 289	59.630 9	50.38 144	50.274 39	55.89 326
29.9	47.537 18	20.39 31	6.638 143	98.10 273	59.610 20	51.59 121	50.160 114	58.93 304
5 9.9	47.495 42	19.96 43	6.431 207	100.61 251	59.563 47	52.54 95	49.973 187	61.67 274
19.9	47.435 60	19.43 53	6.172 259	102.77 216	59.494 69	53.25 71	49.723 250	64.08 241
	76	60	299	178	89	46	310	200
29.8	47.359	18.83	5.873	104.55	59.405	53.71	49.413	66.08
6 8.8	47.270 89	18.18 65	5.543 330	105.88 133	59.300 105	53.90 19	49.053 360	67.66 158
18.8	47.172 98	17.50 68	5.194 349	106.73 85	59.180 120	53.84 6	48.652 401	68.76 110
28.8	47.066 106	16.82 67	4.836 358	107.08 35	59.050 130	53.53 31	48.219 433	69.37 61
7 8.7	46.955 111	16.15 67	4.478 358	106.93 15	58.913 137	52.98 55	47.766 453	69.46 9
	111	64	348	67	140	78	460	41
18.7	46.844	15.51	4.130	106.23	58.773	52.20	47.306	69.05
28.7	46.734 110	14.92 59	3.800 330	105.11 115	58.633 140	51.21 99	46.853 453	68.13 92
8 7.7	46.631 103	14.40 52	3.496 304	103.48 163	58.501 132	50.05 116	46.422 431	66.74 139
17.6	46.538 93	13.97 43	3.227 269	101.43 205	58.380 121	48.75 130	46.029 393	64.92 182
27.6	46.460 78	13.65 32	3.000 227	98.98 245	58.278 102	47.36 139	45.689 340	62.72 220
	56	16	176	281	77	143	269	250
9 6.6	46.404	13.49	2.824	96.17	58.201	45.93	45.420	60.22
16.5	46.373 31	13.50 1	2.706 118	93.07 310	58.156 45	44.53 140	45.235 185	57.51 271
26.5	46.375 2	13.71 21	2.654 52	89.72 335	58.150 6	43.23 130	45.147 88	54.69 282
10 6.5	46.414 39	14.16 45	2.673 19	86.19 353	58.187 37	42.08 115	45.165 18	51.86 283
16.5	46.494 80	14.85 69	2.770 97	82.56 363	58.272 85	41.16 92	45.295 130	49.15 271
	123	96	177	367	136	62	243	250
26.4	46.617	15.81	2.947	78.89	58.408	40.54	45.538	46.65
11 5.4	46.785 168	17.04 123	3.206 259	75.28 361	58.595 187	40.25 29	45.891 353	44.49 216
15.4	46.996 211	18.52 148	3.546 340	71.81 347	58.829 234	40.34 9	46.345 454	42.75 174
25.4	47.245 249	20.24 172	3.951 415	68.57 324	59.106 277	40.83 49	46.888 543	41.51 124
12 5.3	47.528 283	22.14 190	4.442 481	65.66 291	59.419 313	41.72 89	47.501 613	40.84 67
	307	205	537	249	339	147	662	8
15.3	47.835	24.19	4.979	63.17	59.758	42.99	48.163	40.76
25.3	48.158 323	26.31 212	5.554 575	61.18 199	60.112 354	44.61 162	48.853 690	41.29 53
35.2	48.485 327	28.44 213	6.150 596	59.76 142	60.470 358	46.52 191	49.548 695	42.41 112
平位	s 46.175	″ 13.37	s 4.892	″ 92.43	s 57.835	″ 40.87	s 45.758	″ 47.04
2回正中	4月2日		4月2日		4月3日		4月3日	
a b	+0.1535	+0.0013	+0.1311	−0.1291	+0.1595	+0.0349	+0.1836	+0.1605
a′ b′	−0.9857	+0.1684	−0.9855	+0.1697	−0.9841	+0.1778	−0.9826	+0.1855
FK3番號	477		478		479		480	

本初子午線正中時

星名		β Cruc		150 G. Cent		ε UMaj		δ Virg	
等級	スペクトル型	1.50	B1	4.34	A5	1.68	A0P	3.66	M0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 12 44	° ′ −59 22	h m 12 50	° ′ −39 52	h m 12 51	° ′ +56 15	h m 12 52	° ′ +3 42
1	0.3	s 22.658	″ 16.47 160	s 15.973	″ 51.62 185	s 30.127	″ 55.86 134	s 43.120	″ 27.45 207
	10.2	23.195 537	18.07 207	16.333 393	53.47 217	30.629 502	54.52 74	43.444 324	25.38 192
	20.2	23.709 514	20.14 248	16.743 377	55.64 241	31.126 497	53.78 12	43.760 316	23.46 171
	30.2	24.186 477	22.62 281	17.096 353	58.05 259	31.599 473	53.66 14	44.056 296	21.75 144
2	9.2	24.614 428	25.43 306	17.414 318	60.64 268	32.033 434	54.15 49	44.325 269	20.31 116
		370		278		384	108	236	
	19.1	24.984	28.49 322	17.692	63.32 272	32.417	55.23 160	44.561 200	19.15 85
3	1.1	25.291 307	31.71 332	17.925 233	66.04 269	32.739 322	56.83 204	44.761 161	18.30 55
	11.1	25.533 242	35.03 333	18.113 188	68.73 260	32.992 253	58.87 240	44.922 122	17.75 25
	21.0	25.708 175	38.36 328	18.255 142	71.33 247	33.174 182	61.27 263	45.044 86	17.50 1
	31.0	25.818 110	41.64 315	18.352 97	73.80 230	33.283 109	63.90 277	45.130 51	17.51 25
		48		56		39			
4	9.9	25.866	44.79 297	18.408	76.10 209	33.322 26	66.67 278	45.181 20	17.76 43
	19.9	25.854 12	47.76 273	18.425 17	78.19 185	33.296 85	69.45 270	45.201 7	18.19 58
	29.9	25.788 66	50.49 244	18.407 18	80.04 159	33.211 137	72.15 251	45.194 31	18.77 69
5	9.9	25.669 119	52.93 211	18.357 50	81.63 130	33.074 180	74.66 224	45.163 52	19.46 76
	19.9	25.506 163	55.04 173	18.278 79	82.93 100	32.894 216	76.90 190	45.111 68	20.22 79
		206		104					
	29.9	25.300	56.77 131	18.174 126	83.93 67	32.678 243	78.80 150	45.043 84	21.01 79
6	8.8	25.058 242	58.08 88	18.048 146	84.60 35	32.435 262	80.30 107	44.959 95	21.80 78
	18.8	24.787 271	58.95 42	17.902 160	84.95 0	32.173 273	81.37 60	44.864 104	22.58 73
	28.8	24.492 295	59.38 6	17.742 171	84.95 34	31.900 278	81.97 13	44.760 111	23.31 67
7	8.7	24.182 310	59.32 52	17.571 177	84.61 66	31.622 274	82.10 36	44.649 114	23.98 58
		316							
	18.7		58.80 97	17.394 178	83.95 98	31.348 265	81.74 84	44.535 114	24.56 49
	28.7	23.866 313	57.83 141	17.216 171	82.97 125	31.083 248	80.90 129	44.421 109	25.05 38
8	7.7	23.553 299	56.42 178	17.045 158	81.72 150	30.835 223	79.61 173	44.312 101	25.43 24
	17.6	23.254 273	54.64 211	16.887 137	80.22 169	30.612 194	77.88 214	44.211 88	25.67 9
	27.6	22.981 236	52.53 236	16.750 108	78.53 182	30.418 154	75.74 250	44.123 67	25.76 9
		22.745 186							
9	6.6		50.17 253	16.642	76.71 188	30.264 109	73.24 283	44.056 43	25.67 28
	16.6	22.559 126	47.64 261	16.571 71	74.83 186	30.155 58	70.41 310	44.013 12	25.39 50
	26.5	22.433 55	45.03 257	16.545 26	72.97 176	30.097 2	67.31 332	44.001 25	24.89 74
10	6.5	22.378 23	42.46 244	16.570 25	71.21 157	30.099 66	63.99 348	44.026 65	24.15 99
	16.5	22.401 107	40.02 220	16.650 80	69.64 131	30.165 133	60.51 356	44.091 109	23.16 123
		22.508 192		139					
	26.4		37.82 185	16.789 196	68.33 97	30.298 204	56.95 356	44.200 154	21.93 149
11	5.4	22.700 276	35.97 143	16.935 252	67.36 57	30.502 273	53.39 348	44.354 198	20.44 171
	15.4	22.976 353	34.54 94	17.237 302	66.79 13	30.775 338	49.91 331	44.552 239	18.73 191
	25.4	23.329 422	33.60 39	17.539 343	66.66 32	31.113 398	46.60 304	44.791 274	16.82 207
12	5.3	23.751 477	33.21 17	17.882 373	66.98 80	31.511 446	43.56 268	45.065 301	14.75 215
		24.223 517							
	15.3		33.38	18.255	67.78	31.957	40.88	45.366	12.60
	25.3	24.745 539	34.13 75	18.646 391	69.01 123	32.438 481	38.65 223	45.685 319	10.41 219
	35.3	25.284 543	35.43 130	19.043 397	70.66 165	32.940 502	36.93 172	46.012 327	8.26 215
		25.827							
平位		s 22.509	″ 38.57	s 16.259	″ 69.03	s 31.619	″ 68.08	s 43.830	″ 24.57
2回正中		4月3日		4月5日		4月5日		4月6日	
a	b	+0.1750	+0.1105	+0.1654	+0.0543	+0.1311	−0.0973	+0.1523	−0.0042
a′	b′	−0.9813	+0.1924	−0.9760	+0.2176	−0.9748	+0.2229	−0.9737	+0.2281
FK3番號		481		482		483		484	

本初子午線正中時

星名		8 Drac		α CVen sq		δ Musc		ε Virg	
等級	スペクトル型	5.27	F0	2.90	A0p	3.63	K2	2.95	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 53	° ′ −65 44	h m 12 53	° ′ +38 37	h m 12 58	° ′ −71 14	h m 12 59	° ′ +11 15
1	0.3	s 10.792	″ 35.73	s 20.734	″ 24.65	s 19.520	″ 6.69	s 19.493	″ 54.87
	10.2	11.435 643	35.57 116	21.119 385	22.95 170	20.321 801	7.86 117	19.822 329	52.82 205
	20.2	12.072 637	35.06 51	21.498 379	21.74 121	21.099 778	9.57 171	20.142 320	51.01 181
	30.2	12.683 611	35.20 14	21.858 360	21.05 69	21.828 729	11.78 221	20.446 304	49.48 153
2	9.2	13.246 563	35.93 78	22.187 329	20.90 15	22.490 662	14.42 264	20.723 277	48.29 119
		498	137	290	37	583	298	246	84
	19.1	13.744	37.35	22.477	21.27	23.073	17.40	20.969	47.45
3	1.1	14.163 419	39.25 190	22.722 245	22.13 86	23.566 493	20.65 325	21.177 208	46.96 49
	11.1	14.490 327	41.59 234	22.918 196	23.43 130	23.962 396	24.09 344	21.347 170	46.83 13
	21.0	14.722 232	44.27 268	23.062 144	25.09 166	24.258 296	27.63 354	21.478 131	47.01 18
	31.0	14.855 133	47.16 289	23.157 95	27.03 194	24.454 196	31.19 356	21.571 93	47.48 47
		36	300	46	212	96	351	57	69
4	9.9	14.891	50.16	23.203	29.15 222	24.550 1	34.70 339	21.628	48.17 88
	19.9	14.835 55	53.13 297	23.206 3	31.37 221	24.549 94	38.09 320	21.652 24	49.05 100
	29.9	14.697 139	55.98 285	23.169 37	33.58 213	24.455 182	41.29 295	21.648 4	50.05 108
5	9.9	14.486 211	58.60 262	23.099 70	35.71 197	24.273 264	44.24 262	21.619 29	51.13 109
	19.9	14.212 274	60.90 230	22.999 100	37.68 174	24.009 340	45.86 226	21.569 50	52.22 107
		325	191	122				70	
	29.9	13.887	62.81	22.877 142	39.42 147	23.669 406	49.12 184	21.499 84	53.29 102
6	8.8	13.523 364	64.28 147	22.735 155	40.89 114	23.263 463	50.96 138	21.415 97	54.31 93
	18.8	13.132 391	65.27 99	22.580 164	42.03 80	22.800 507	52.34 88	21.318 108	55.24 81
	28.8	12.725 407	65.75 48	22.416 170	42.83 43	22.293 539	53.22 37	21.210 114	56.05 67
7	8.7	12.314 411	65.71 4	22.246 169	43.26 5	21.754 554	53.59 15	21.096 118	56.72 52
		406	57						
	18.7	11.908	65.14	22.077	43.31	21.200	53.44	20.978	57.24
	28.7	11.518 390	64.07 107	21.911 166	42.98 33	20.646 554	52.76 68	20.860 118	57.59 35
8	7.7	11.153 365	62.52 155	21.754 157	42.26 72	20.112 534	51.58 118	20.745 115	57.76 17
	17.6	10.823 330	60.51 201	21.611 143	41.17 109	19.616 496	49.94 164	20.638 107	57.74 2
	27.6	10.537 286	58.09 242	21.487 124	39.72 145	19.178 438	47.88 206	20.545 93	57.50 24
		232	280	98	178	359	241	75	46
9	6.6	10.305	55.29	21.389	37.94	18.819	45.47	20.470	57.04
	16.6	10.134 171	52.18 311	21.322 67	35.84 210	18.554 265	42.81 266	20.421 49	56.35 69
	26.5	10.034 100	48.81 337	21.293 29	33.45 239	18.401 153	39.97 284	20.402 19	55.42 93
10	6.5	10.012 22	45.23 358	21.307 14	30.81 264	18.370 31	37.08 289	20.419 17	54.24 118
	16.5	10.075 63	41.54 369	21.369 62	27.97 284	18.471 101	34.24 284	20.476 57	52.81 143
		152	375	112	300	235	266	102	167
	26.4	10.227	37.79	21.481	24.97	18.706	31.58	20.578	51.14
11	5.4	10.470 243	34.09 370	21.648 167	21.87 310	19.072 366	29.21 237	20.725 147	49.25 189
	15.4	10.802 332	30.51 358	21.866 218	18.75 312	19.560 488	27.22 199	20.918 193	47.18 207
	25.4	11.221 419	27.16 335	22.134 268	15.69 306	20.156 596	25.70 152	21.152 234	44.95 223
12	5.3	11.717 496	24.14 302	22.446 312	12.76 293	20.841 685	24.72 98	21.423 271	42.64 231
		561	262	348	270	751	38	300	234
	15.3	12.278	21.52	22.794	10.06	21.592	24.34	21.723	40.30
	25.3	12.887 609	19.40 212	23.168 374	7.68 238	22.383 791	24.55 21	22.044 321	38.00 230
	35.3	13.527 640	17.85 155	23.555 387	5.68 200	23.189 806	25.38 83	22.374 330	35.82 218
平位		s 12.725	″ 50.33	s 21.838	″ 32.87	s 19.143	″ 31.14	s 20.309	″ 54.41
2回正中		4月6日		4月6日		4月7日		4月7日	
a	b	+0.1193	−0.1440	+0.1410	−0.0518	+0.2027	+0.1900	+0.1499	−0.0128
a′	b′	−0.9732	+0.2301	−0.9730	+0.2307	−0.9378	+0.2517	−0.9367	+0.2560
FK3番號		486		485		487		488	

星名		ξ^2 Cent		ϑ Virg		17 CVen		β Coma	
等級	スペクトル型	4.40	B3	4.44	A0	6.04	F0	4.32	G0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 13 3	° ′ −49 35	h m 13 6	° ′ −5 14	h m 13 7	° ′ +38 47	h m 13 9	° ′ +28 9
		s	″	s	″	s	″	s	″
1	0.3	33.932	44.42	59.007	0.00	25.077	57.28	11.811	54.95
	10.2	34.381 449	45.97 155	59.333 326	2.06 206	25.462 385	55.46 182	12.162 351	53.02 193
	20.2	34.817 436	47.94 197	59.652 319	4.08 202	25.844 382	54.12 134	12.508 346	51.48 154
	30.2	35.227 410	50.24 230	59.954 302	5.98 190	26.209 365	53.31 81	12.839 331	50.41 107
2	9.2	35.602 375	52.82 258	60.231 277	7.71 173	26.547 338	53.04 27	13.145 306	49.78 63
		331	277	246	153	302	28	272	13
	19.1	35.933	55.59	60.477	9.24	26.849	53.32	13.417	49.65
	29.1	36.215 282	58.49 290	60.688 211	10.52 128	27.108 259	54.10 78	13.651 234	49.98 33
3	1.1	36.447 232	61.45 296	60.863 175	11.55 103	27.319 211	55.33 123	13.842 191	50.74 76
	11.1	36.626 179	64.39 294	61.000 137	12.32 77	27.480 161	56.96 163	13.990 148	51.87 113
	21.1	36.755 129	67.26 287	61.101 101	12.84 52	27.592 112	58.88 192	14.094 104	53.30 143
	31.0	79	275	68	29	64	213	63	166
	10.0	36.824	70.01	61.169	13.13	27.656	61.01	14.157	54.96
	19.9	36.868 34	72.59 258	61.206 37	13.22 9	27.676 20	63.26 225	14.183 26	56.77 181
4	29.9	36.857 11	74.95 236	61.215 9	13.13 9	27.655 21	65.53 227	14.174 9	58.65 188
	9.9	36.807 50	77.06 211	61.200 15	12.89 24	27.599 56	67.74 221	14.134 40	60.51 186
5	19.9	36.719 88	78.87 181	61.162 38	12.53 36	27.512 87	69.80 206	14.069 65	62.30 179
		122	148	56	45	114	185	88	164
	29.9	36.597	80.35	61.106	12.08	27.398	71.65	13.981	63.94
	8.8	36.445 152	81.49 114	61.032 74	11.55 53	27.264 134	73.23 158	13.875 106	65.40 146
6	18.8	36.266 179	82.24 75	60.945 87	10.96 59	27.113 151	74.49 126	13.754 121	66.62 122
	28.8	36.065 201	82.61 37	60.845 100	10.35 61	26.950 163	75.41 92	13.621 133	67.58 96
7	8.8	35.847 218	82.57 4	60.736 109	9.70 65	26.779 171	75.96 55	13.481 140	68.24 66
		227	44	116	64	174	17	145	36
	18.7	35.620	82.13	60.620	9.06	26.605	76.13	13.336	68.60
	28.7	35.389 231	81.31 82	60.502 118	8.43 63	26.432 173	75.90 23	13.191 145	68.65 5
8	7.7	35.163 226	80.12 119	60.386 116	7.84 59	26.266 166	75.28 62	13.050 141	68.37 28
	17.6	34.951 212	78.60 152	60.276 110	7.30 54	26.110 156	74.28 100	12.918 132	67.77 60
	27.6	34.763 188	76.80 180	60.178 98	6.85 45	25.973 137	72.91 137	12.801 117	66.85 92
		155	201	80	34	115	172	97	124
	6.6	34.608	74.79	60.098	6.51	25.858	71.19	12.704	65.61
	16.6	34.497 111	72.63 216	60.043 55	6.31 20	25.775 83	69.13 206	12.633 71	64.08 153
9	26.5	34.438 59	70.41 222	60.018 25	6.30 1	25.727 48	66.78 235	12.595 38	62.25 183
	6.5	34.439 1	68.23 218	60.030 12	6.49 19	25.722 5	64.16 262	12.595 0	60.16 209
10	16.5	34.506 67	66.17 206	60.083 53	6.92 43	25.764 42	61.31 285	12.639 44	57.83 233
		136	183	98	69	94	302	91	253
	26.5	34.642	64.34	60.181	7.61	25.858	58.29	12.730	55.30
	5.4	34.847 205	62.82 152	60.325 144	8.57 96	26.006 148	55.16 313	12.870 140	52.60 270
11	15.4	35.118 271	61.68 114	60.514 189	9.80 123	26.209 203	51.99 317	13.059 189	49.81 279
	25.4	35.448 330	60.99 69	60.746 232	11.28 148	26.462 253	48.85 314	13.295 236	46.99 282
12	5.3	35.828 380	60.79 20	61.015 269	12.99 171	26.762 300	45.84 301	13.572 277	44.20 279
		418	31	298	190	339	280	312	266
	15.3	36.246	61.10	61.313	14.89	27.101	43.04	13.884	41.54
	25.3	36.689 443	61.91 81	61.630 317	16.91 202	27.467 366	40.53 251	14.220 336	39.08 246
	35.3	37.140 451	63.21 130	61.958 328	18.99 208	27.851 384	38.41 212	14.571 351	36.91 217
平位		s 34.222	″ 64.81	s 59.728	″ 6.48	s 26.272	″ 65.02	s 12.853	″ 59.68
2回正中		4月8日		4月9日		4月9日		4月10日	
a	b	+0.1748	+0.0753	+0.1551	+0.0058	+0.1378	−0.0513	+0.1427	−0.0341
a′	b′	−0.9618	+0.2738	−0.9576	+0.2882	−0.9570	+0.2900	−0.9547	+0.2974
FK3番號		489		490		491		492	

星名		η Musc		20 CVen		γ Hyda		ι Cent	
等級	スペクトル型	4.95	B8	4.66	F0	3.33	G5	2.91	A2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 13 11	° ′ −67 35	h m 13 14	° ′ +40 51	h m 13 15	° ′ −22 52	h m 13 17	° ′ −36 24
		s	″	s	″	s	″	s	″
1	0.3	21.480	10.95	58.051	72.04	48.409	4.14	22.510	26.69
	10.3	22.178 698	12.02 107	58.442 391	70.17 187	48.755 346	6.02 188	22.892 382	28.35 166
	20.2	22.858 680	13.63 161	58.832 390	68.80 137	49.093 338	8.05 203	23.266 374	30.31 196
	30.2	23.502 644	15.72 209	59.208 376	67.98 82	49.415 322	10.16 211	23.621 355	32.48 217
2	9.2	24.095 593	18.22 250	59.558 350	67.72 26	49.712 297	12.30 214	23.947 326	34.82 234
		528	285	314	29	265	209	294	243
	19.1	24.623	21.07	59.872	68.01	49.977	14.39	24.241	37.25
	29.1	25.078 455	24.18 311	60.145 273	68.83 82	50.207 230	16.40 201	24.495 254	39.71 246
3	1.1	25.453 375	27.47 329	60.368 223	70.12 129	50.399 192	18.28 188	24.708 213	42.14 243
	11.1	25.745 292	30.88 341	60.542 174	71.81 169	50.553 154	19.99 171	24.879 171	44.51 237
	21.1	25.953 208	34.32 344	60.665 123	73.80 199	50.670 117	21.53 154	25.008 129	46.75 224
	31.0	125	339	73	223	82	134	90	209
	10.0	26.078	37.71	60.738	76.03	50.752	22.87	25.098	48.84
	19.9	26.121 43	41.00 329	60.765 27	78.37 234	50.802 50	24.02 115	25.151 53	50.75 191
4	29.9	26.086 35	44.11 311	60.750 15	80.74 237	50.821 19	24.96 94	25.169 18	52.46 171
	9.9	25.975 111	47.00 289	60.697 53	83.04 230	50.813 8	25.70 74	25.155 14	53.95 149
5	19.9	25.794 181	49.58 258	60.611 86	85.20 216	50.781 32	26.24 54	25.111 44	55.19 124
		247	224	115	194	56	35	72	98
	29.9	25.547	51.82	60.493	87.14	50.725	23.59	25.039	56.17
	8.8	25.240 307	53.66 184	60.359 137	88.80 166	50.649 76	26.73 14	24.943 96	55.87 70
6	18.8	24.882 358	55.07 141	60.202 157	90.14 134	50.555 94	23.68 5	24.824 119	57.29 42
	28.8	24.482 400	56.01 94	60.032 170	91.12 98	50.444 111	23.45 23	24.686 138	57.41 12
7	8.8	24.050 432	56.46 45	59.852 180	91.72 60	50.322 122	23.03 42	24.532 154	57.24 17
		452	6	184	19	132	59	165	46
	18.7	23.598	56.40	59.668	91.91	50.190	25.44	24.367	53.78
	28.7	23.141 457	55.84 56	59.483 185	91.70 21	50.053 137	24.69 75	24.193 174	55.03 75
8	7.7	22.693 448	54.79 105	59.304 179	91.07 63	49.916 137	23.81 88	24.026 167	55.03 100
	17.7	22.271 422	53.28 151	59.135 168	90.05 101	49.785 131	22.82 99	23.862 164	53.79 124
	27.6	21.891 380	51.37 191	58.985 151	88.65 140	49.667 118	21.77 105	23.714 148	52.38 141
		319	227	128	177	99	108	125	156
	6.6	21.572	49.10	58.857	85.89	49.568	20.69	23.589	50.82
	16.6	21.329 243	46.57 253	58.759 98	84.78 211	49.495 73	19.64 105	23.495 94	49.20 162
9	26.5	21.176 153	43.87 270	58.698 61	82.35 242	49.456 39	18.66 98	23.441 54	47.57 163
	6.5	21.126 50	41.09 278	58.680 18	79.66 270	49.457 1	17.83 83	23.434 7	46.02 155
10	16.5	21.186 60	38.35 274	58.711 31	76.73 293	49.504 47	17.18 65	23.480 46	44.61 141
		174	259	84	310	96	39	102	118
	26.5	21.360	35.76	58.795	73.63	49.600	16.79	23.582	43.43
	5.4	21.649 289	33.43 233	58.935 140	70.41 322	49.747 147	16.68 11	23.741 159	42.54 89
11	15.4	22.046 397	31.47 196	59.130 195	67.15 326	49.943 196	16.90 22	23.957 216	41.99 55
	25.4	22.539 493	29.96 151	59.379 249	63.94 321	50.186 243	17.46 56	24.224 267	41.85 14
12	5.4	23.114 575	28.96 100	59.677 298	60.84 310	50.468 282	18.37 91	24.536 312	42.12 27
		636	43	338	286	314	123	347	69
	15.3	23.750	28.53	60.015	57.98	50.782	19.60	24.883	42.81
	25.3	24.428 678	28.68 15	60.385 370	55.41 257	51.118 336	21.13 153	25.253 370	43.91 110
	35.3	25.125 697	29.42 74	60.774 389	53.25 216	51.465 347	22.91 178	25.635 382	45.38 147
平位		s 21.532	″ 35.13	s 59.328	″ 80.00	s 49.055	″ 16.93	s 23.069	″ 43.78
2回正中		4月10日		4月11日		4月11日		4月12日	
a	b	+0.2029	+0.1539	+0.1348	−0.0546	+0.1625	+0.0266	+0.1693	+0.0464
a′	b′	−0.9519	+0.3034	−0.9469	+0.3214	−0.9458	+0.3248	−0.9435	+0.3313
FK3番號		493		494		495		496	

本初子午線正中時

星名	ζ UMaj *pr*		*α* Virg		Grb 2001 UMin		69 H. UMaj	
等級 スペクトル型	2.40	A2P	1.21	B2	6.07	K5	5.41	A0
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 13 21	° ′ + 55 12	h m 13 22	° ′ − 10 51	h m 13 24	° ′ + 72 40	h m 13 26	° ′ + 60 13
	s	″	s	″	s	″	s	″
1 0.3	36.314	70.38	10.411	42.96	37.684	60.68	19.757	71.53
10.3	36.797 483	68.66 172	10.741 330	44.95 199	38.509 825	59.27 141	20.292 535	69.84 169
20.2	37.282 485	67.53 113	11.035 324	46.96 201	39.350 841	58.50 77	20.835 543	68.77 107
30.2	37.755 473	67.02 51	11.374 339	48.92 196	40.178 828	58.40 10	21.365 530	68.34 43
2 9.2	38.200 445	67.15 13	11.661 287	50.77 185	40.933 785	58.98 58	21.868 503	68.56 22
	404	74	258	171	718	120	457	84
19.2	38.604	67.89	11.919	52.48	41.681	60.18	22.325	69.40
3 1.1	38.955 351	69.19 130	12.144 225	53.99 151	42.303 625	61.95 178	22.725 400	70.83 143
11.1	39.244 289	71.00 181	12.334 190	55.28 129	42.821 515	64.23 227	23.057 332	72.76 193
21.1	39.469 225	73.22 222	12.487 153	56.35 107	43.213 392	66.90 267	23.314 257	75.12 236
31.0	39.625 156	75.74 252	12.605 118	57.19 84	43.473 260	69.83 293	23.494 180	77.78 266
	89	273	85	62	126	310	101	286
4 10.0	39.714	78.47 282	12.690	57.81	43.599	72.93	23.595	80.64
19.9	39.739 25	81.29 280	12.744 54	58.23 42	43.594 5	76.05 312	23.621 26	83.59 295
29.9	39.703 36	84.09 268	12.769 25	58.46 23	43.466 128	79.10 305	23.576 45	86.50 291
5 9.9	39.612 91	86.77 246	12.768 1	58.53 7	43.223 243	81.95 285	23.466 110	89.28 278
19.9	39.475 137	89.23 217	12.744 24	58.45 8	42.880 343	84.51 256	23.300 166	91.83 255
	179		46	21	429	219	217	224
29.9	39.296	91.40 181	12.698	58.24	42.451	86.70	23.083	94.07
6 8.9	39.083 213	93.21 140	12.633 65	57.93 31	41.950 501	88.46 176	22.826 257	95.93 186
18.8	38.844 239	94.61 96	12.550 83	57.51 42	41.395 555	89.74 128	22.537 289	97.35 142
28.8	38.584 260	95.57 48	12.453 97	57.02 49	40.802 593	90.50 76	22.224 313	98.32 97
7 8.8	38.312 272	96.05 1	12.344 109	56.46 56	40.186 616	90.73 23	21.895 329	98.79 47
	277		119	62	623	31	336	4
18.7	38.035	96.06 49	12.225	55.84	39.563	90.42	21.559	98.75
28.7	37.759 276	95.57 96	12.101 124	55.18 66	38.949 614	89.57 85	21.225 334	98.21 54
8 7.7	37.491 268	94.61 141	11.976 125	54.51 67	38.357 592	88.20 137	20.900 325	97.17 104
17.7	37.240 251	93.20 185	11.856 120	53.84 67	37.804 553	86.35 185	20.594 306	95.66 151
27.6	37.012 228	91.35 226	11.745 111	53.21 63	37.301 503	84.05 230	20.315 279	93.70 196
	197		94	57	436	272	242	238
9 6.6	36.815	89.09 262	11.651	52.64	36.865	81.33	20.073	91.32
16.6	36.659 156	86.47 295	11.581 70	52.18 46	36.506 359	78.26 307	19.875 198	88.58 274
26.6	36.550 109	83.52 321	11.541 40	51.85 33	36.238 268	74.89 337	19.732 143	85.50 308
10 6.5	36.496 54	80.31 343	11.537 4	51.71 14	36.073 165	71.29 360	19.651 81	82.16 334
16.5	36.504 8	76.88 356	11.576 39	51.79 8	36.021 52	67.52 377	19.639 12	78.62 354
	74		84	33	68	385	64	368
26.5	36.578	73.32 363	11.660	52.12	36.089	63.67	19.703	74.94
11 5.4	36.724 146	69.69 360	11.793 133	52.71 59	36.282 193	59.82 385	19.847 144	71.21 373
15.4	36.940 216	66.09 349	11.972 179	53.60 89	36.602 320	56.07 375	20.071 224	67.52 369
25.4	37.225 285	62.60 328	12.196 224	54.76 116	37.046 444	52.52 355	20.373 302	63.97 355
12 5.4	37.573 348	59.32 297	12.459 263	56.19 143	37.605 559	49.26 326	20.749 376	60.64 333
	403		295	166	662	287	438	299
15.3	37.976	56.35 256	12.754	57.85 184	38.267	46.39 238	21.187	57.65
25.3	38.423 447	53.79 208	13.070 316	59.69 197	39.012 745	44.01 182	21.677 490	55.08 257
35.3	38.898 475	51.71	13.389 329	61.66	39.818 806	42.19	22.202 525	53.02 206
平位	s 38.008	″ 81.17	s 11.184	″ 51.82	s 40.653	″ 73.66	s 21.700	″ 82.95
2回正中	4月13日		4月13日		4月14日		4月14日	
a b	+ 0.1199	− 0.0900	+ 0.1578	+ 0.0120	+ 0.0761	− 0.1994	+ 0.1104	− 0.1084
a′ b′	− 0.9372	+ 0.3487	− 0.9364	+ 0.3510	− 0.9325	+ 0.3511	− 0.9298	+ 0.3680
FK3番號	497		498		499		500	

本初子午線正中時

星名	ζ Virg		17 H. CVen		49 G. Cham		Grb 2029 UMin	
等級 スペクトル型	3.44	A2	4.93	F0	6.44	A0	5.67	K0
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 13 31	° ′ − 0 18	h m 13 32	° ′ + 37 28	h m 13 34	° ′ − 75 23	h m 13 35	° ′ + 71 31
	s	″	s	″	s	″	s	″
1 0.3	46.257	13.20	13.847	19.48	15.691	13.23	45.607	42.73
10.3	46.580 323	15.27 207	14.221 374	17.43 205	16.703 1012	13.79 56	46.377 770	41.14 159
20.2	46.900 320	17.24 197	14.597 376	15.84 159	17.707 1004	14.91 112	47.168 791	40.20 94
30.2	47.208 308	19.04 180	14.953 366	14.77 107	18.676 969	16.58 167	47.953 785	39.92 28
2 9.2	47.495 287	20.63 159	15.308 345	14.25 52	19.586 910	18.73 215	48.705 752	40.32 40
	260	134	314	3	830	257	692	104
19.2	47.755	21.97	15.622	14.28	20.416	21.30	49.397	41.36
3 1.1	47.984 229	23.03 106	15.898 276	14.83 55	21.150 734	24.21 291	50.009 612	42.99 163
11.1	48.180 196	23.79 76	16.132 234	15.88 105	21.776 626	27.40 319	50.521 512	45.15 216
21.1	48.339 159	24.27 48	16.319 187	17.34 146	22.285 509	30.78 338	50.920 399	47.71 256
31.0	48.464 125	24.49 22	16.459 140	19.15 181	22.672 387	34.26 348	51.198 278	50.58 287
	91	3	94	207	262	354	154	307
4 10.0	48.555	24.45	16.553	21.22	22.934	37.80	51.352	53.65
19.9	48.615 60	24.22 24	16.603 50	23.44 222	23.070 136	41.30 350	51.383 31	56.77 312
29.9	48.646 31	23.82 40	16.613 10	25.73 229	23.083 13	44.68 338	51.297 86	59.85 308
5 9.9	48.652 6	23.29 53	16.585 28	28.01 228	22.973 110	47.90 322	51.102 195	62.76 291
19.9	48.633 19	22.66 63	16.525 60	30.17 216	22.745 228	50.87 297	50.810 292	65.41 265
	41	69	90	199	339	267	378	231
29.9	48.592	21.97	16.435	32.16	22.406	53.54	50.432	67.72
6 8.9	48.532 60	21.25 72	16.321 114	33.92 176	21.935 441	55.84 230	49.984 448	69.62 190
18.8	48.455 77	20.52 73	16.185 136	35.38 146	21.431 534	57.72 188	49.479 505	71.05 143
28.8	48.362 93	19.81 71	16.033 152	36.51 113	20.818 613	59.14 142	48.933 546	71.97 92
7 8.8	48.256 106	19.13 68	15.857 166	37.29 78	20.144 674	60.06 92	48.350 573	72.37 40
	116	63	173	40	717	39	585	15
18.7	48.140	18.50	15.694	37.69	19.427	60.45	47.775	72.22
28.7	48.018 122	17.94 56	15.517 177	37.69 0	18.689 738	60.31 14	47.191 584	71.55 67
8 7.7	47.893 125	17.47 47	15.340 177	37.31 38	17.954 735	59.63 68	46.623 568	70.35 120
17.7	47.772 121	17.10 37	15.171 169	35.53 78	17.247 707	58.44 119	46.086 537	68.66 169
27.6	47.659 113	16.85 25	15.014 157	35.37 116	16.595 652	56.77 167	45.591 495	66.50 216
	98	10	136	153	570	209	436	258
9 6.6	47.561	16.75 6	14.878	33.84 188	16.025	54.68	45.155	63.92
16.6	47.484 77	16.81 26	14.768 110	31.96 221	15.532 463	52.23 245	44.788 367	60.96 296
26.6	47.436 48	17.07 48	14.691 77	29.75 250	15.230 332	49.51 272	44.504 284	57.68 328
10 6.5	47.423 13	17.55 71	14.655 36	27.25 275	15.047 183	46.63 288	44.314 190	54.14 354
16.5	47.449 26	18.23 96	14.665 10	24.50 297	15.028 19	43.70 293	44.230 84	50.41 373
	71		61		152	287	28	383
23.5	47.520	19.22	14.726	21.53	15.180	40.83	44.258	46.58
11 5.4	47.638 118	20.44 122	14.841 115	18.42 311	15.505 325	38.14 269	44.403 148	42.71 387
15.4	47.803 165	21.90 146	15.011 170	15.22 320	15.995 490	35.75 239	44.675 269	38.92 379
25.4	48.012 209	23.58 168	15.234 223	12.02 320	16.637 642	33.75 200	45.054 389	35.29 363
12 5.4	48.232 250	25.45 187	15.507 273	8.90 312	17.410 773	32.23 152	45.565 501	31.93 336
	282	202	314	294	878	98	601	298
15.3	48.544	27.47	15.821	5.96	18.288	31.25	46.166	28.95
25.3	48.850 306	29.56 209	16.169 348	3.27 269	19.242 954	30.85 40	46.852 686	26.42 253
35.3	49.171 321	31.67 211	16.538 369	0.94 233	20.241 999	31.05 20	47.600 748	24.43 199
平位	s 47.161	″ 18.65	s 15.166	″ 25.88	s 16.091	″ 38.66	s 48.559	″ 55.07
2回正中	4月15日		4月16日		4月16日		4月16日	
a b	+ 0.1535	+ 0.0003	+ 0.1333	− 0.0470	+ 0.2552	+ 0.2345	+ 0.0723	− 0.1824
a′ b′	− 0.9209	+ 0.3899	− 0.9201	+ 0.3917	− 0.9166	+ 0.3998	− 0.9133	+ 0.4030
FK3番號	501		502		503		505	

星名	ε Cent		1 Cent		τ Boot		η UMaj	
等級	2.56		4.36		4.51		1.91	
スペクトル型	B1		F5		F5		B3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 13 36	° ′ −53 10	h m 13 42	° ′ −32 45	h m 13 44	° ′ +17 44	h m 13 45	° ′ +49 35
	s	″	s	″	s	″	s	″
1 0.3	15.087	16.27	25.666	5.93	32.025	24.33	16.090	41.31
10.3	15.569 482	17.37 110	26.035 369	7.45 152	32.353 327	22.15 218	16.516 426	39.26 205
20.2	16.047 478	18.90 153	26.401 366	9.22 177	32.683 330	20.24 191	16.951 435	37.75 151
30.2	16.506 459	20.83 193	26.754 353	11.19 197	33.003 320	18.69 155	17.380 429	35.83 92
2 9.2	16.935 430	23.03 225	27.086 332	13.30 211	33.306 303	17.53 116	17.790 410	35.54 29
	391	252	302	219	277	74	378	31
19.2	17.327	25.60	27.388	15.49	33.583	16.79	18.168	36.85
3 1.1	17.674 347	28.30 270	27.657 269	17.69 220	33.830 247	16.47 32	18.505 337	37.75 90
11.1	17.971 297	31.14 284	27.889 232	19.86 217	34.042 212	16.56 9	18.793 288	39.19 144
21.1	18.216 245	34.02 288	28.083 194	21.95 209	34.217 175	17.03 47	19.026 233	41.08 189
31.1	18.409 193	36.91 289	28.239 156	23.94 199	34.355 138	17.83 80	19.202 176	43.33 225
	141	284	119	185	103	108	119	252
4 10.0	18.550	39.75 272	28.358	25.79 169	34.458	18.91	19.321	45.85
19.9	18.641 91	42.47 256	28.441 83	27.48 151	34.525 67	20.19 128	19.384 63	48.53 268
29.9	18.682 41	45.03 237	28.491 50	28.99 132	34.561 36	21.61 142	19.394 10	51.26 273
5 9.9	18.677 5	47.40 211	28.508 17	30.31 111	34.568 7	23.11 150	19.355 39	53.94 268
19.9	18.623 51	49.51 183	28.495 13	31.42 90	34.548 20	24.62 151	19.271 84	56.46 252
	93		42		45	147	122	231
29.9	18.533	51.34 151	28.453	32.32 66	34.503	26.09	19.149	58.77
6 8.9	18.400 133	52.85 115	28.384 69	32.98 43	34.436 67	27.46 137	18.992 157	60.77 200
18.8	18.231 169	54.00 77	28.290 94	33.41 17	34.350 86	28.69 123	18.807 185	62.42 165
28.8	18.030 201	54.77 38	28.174 116	33.58 7	34.246 104	29.75 106	18.598 209	63.67 125
7 8.8	17.802 228	55.15 4	28.039 135	33.51 32	34.129 117	30.61 86	18.372 226	64.48 81
	247		151		129	64	238	36
18.8	17.555	55.11	27.888	33.19	34.000	31.25	18.134	64.84
28.7	17.295 260	54.66 45	27.726 162	32.62 57	33.864 136	31.65 40	17.891 243	64.74 10
8 7.7	17.032 263	53.82 84	27.559 167	31.83 79	33.725 139	31.80 15	17.649 242	64.18 56
17.7	16.775 257	52.59 123	27.394 165	30.83 100	33.588 137	31.69 11	17.414 235	63.16 102
27.6	16.537 238	51.04 155	27.239 155	29.67 116	33.458 130	31.31 38	17.195 219	61.69 147
	208	185	136	129	115	65	197	188
9 6.6	16.329	49.19 206	27.103	28.38	33.343	30.66	16.998	59.81
16.6	16.163 166	47.13 220	26.992 111	27.01 137	33.248 95	29.73 93	16.833 165	57.54 227
26.6	16.048 115	44.93 225	26.916 76	25.63 138	33.181 67	28.52 121	16.707 126	54.92 262
10 6.5	15.996 52	42.68 221	26.883 33	24.31 132	33.148 33	27.03 149	16.627 80	51.98 294
16.5	16.013 17	40.47 206	26.900 17	23.11 120	33.155 7	25.28 175	16.602 25	48.79 319
	93		71	102	52	199	35	339
26.5	16.103	38.41 183	26.971	22.09	33.207	23.29	16.637	45.40
11 5.5	16.275 169	36.58 152	27.098 127	21.34 75	33.303 99	21.07 222	16.735 98	41.88 352
15.4	16.519 244	35.03 111	27.281 183	20.89 45	33.455 149	18.68 239	16.899 164	38.32 356
25.4	16.833 314	33.95 66	27.516 235	20.79 10	33.651 196	16.15 253	17.127 228	34.80 352
12 5.4	17.207 374	33.29 18	27.799 283	21.06 27	33.890 239	13.55 260	17.416 289	31.42 338
	423		321	65	276	259	342	315
15.3	17.630	33.11	28.120	21.71 102	34.166	10.93	17.758	28.27
25.3	18.089 459	33.44 33	28.469 349	22.73 102	34.470 304	8.46 250	18.143 385	25.46 281
35.3	18.567 478	34.26 82	28.835 366	24.08 135	34.794 324	6.11 235	18.560 417	23.08 238
平位	s 15.720	″ 37.98	s 26.454	″ 22.31	s 33.151	″ 24.51	s 17.762	″ 49.95
2回正中	4月17日		4月18日		4月19日		4月19日	
a b	+0.1896	+0.0813	+0.1719	+0.0387	+0.1439	−0.0191	+0.1186	−0.0702
a′ b′	−0.9131	+0.4078	−0.9018	+0.4323	−0.8977	+0.4405	−0.8963	+0.4435
FK3番號	504		506		507		509	

星名	μ Cent		89 Virg		10 Drac		η Boot	
等級	3.32		5.11		4.77		2.80	
スペクトル型	B2p		K0		M0		G0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 13 46	° ′ −42 11	h m 13 46	° ′ −17 50	h m 13 49	° ′ +64 59	h m 13 51	° ′ +18 40
	s	″	s	″	s	″	s	″
1 0.3	9.571	6.76	45.261	51.93	43.517	64.59	57.013	57.42
10.3	9.978 407	8.01 125	45.596 335	53.72 179	44.110 593	62.70 189	57.340 327	55.20 222
20.2	10.384 406	9.62 161	45.930 334	55.61 189	44.722 612	61.43 127	57.671 331	53.28 192
30.2	10.776 392	11.52 190	46.253 323	57.54 193	45.334 612	60.82 61	57.994 323	51.71 157
2 9.2	11.145 369	13.65 213	46.558 305	59.44 190	45.924 590	60.87 5	58.301 307	50.54 117
	338	230	279	183	549	71	282	75
19.2	11.483	15.95	46.837	61.27	45.473	61.58	58.583	49.79
3 1.1	11.785 302	18.33 241	47.086 249	62.98 171	46.934 491	62.90 132	58.836 253	49.49 30
11.1	12.047 262	20.82 246	47.301 215	64.54 156	47.384 420	64.77 187	59.054 218	49.60 11
21.1	12.237 220	23.28 246	47.482 181	65.92 138	47.723 339	67.10 233	59.237 183	50.10 50
31.1	12.445 178	25.68 240	47.623 146	67.11 119	47.974 251	69.78 268	59.382 145	50.94 84
	136	231	114	100	159	292	109	112
4 10.0	12.581	27.99	47.742	68.11	48.133	72.70	59.491	52.06
20.0	12.677 96	30.18 219	47.823 81	68.92 81	48.203 70	75.75 305	59.566 75	53.40 134
29.9	12.734 57	32.20 202	47.875 52	69.56 64	48.187 16	78.80 305	59.609 43	54.88 148
5 9.9	12.753 19	34.03 183	47.899 24	70.02 46	48.088 99	81.75 295	59.621 12	56.44 156
19.9	12.737 16	35.65 162	47.893 3	70.32 30	47.917 171	84.49 274	59.606 15	58.00 152
	50	136	28	14	237	245	41	
29.9	12.687	37.01	47.868	70.46	47.680	86.94	59.555	59.52
6 8.9	12.604 83	38.11 110	47.817 51	70.47 1	47.386 294	89.02 208	59.502 63	60.94 142
18.8	12.492 112	38.92 81	47.745 72	70.34 13	47.047 339	90.68 166	59.418 84	62.21 127
28.8	12.352 140	39.42 50	47.653 92	70.08 26	46.671 376	91.87 119	59.316 102	63.31 110
7 8.8	12.190 162	39.60 18	47.544 109	69.69 39	46.269 402	92.55 68	59.199 117	64.19 88
	181	14	123	49	418	17	129	66
18.8	12.009	39.46	47.421	69.20	45.851	92.72	59.070	64.85
28.7	11.815 194	38.99 47	47.288 133	68.61 59	45.427 424	92.36 36	58.933 137	65.25 40
8 7.7	11.616 199	38.22 77	47.150 138	67.92 69	45.008 419	91.49 87	58.791 142	65.39 14
17.7	11.418 198	37.15 107	47.012 138	67.18 74	44.604 404	90.12 137	58.650 141	65.27 12
27.6	11.232 186	35.83 132	46.881 131	66.41 77	44.227 377	88.27 185	58.517 133	64.86 41
	165	153	116	78	339	230	121	69
9 6.6	11.067	34.30 167	46.765	65.63	43.888	85.97 269	58.396	64.17
16.6	10.932 135	32.63 176	46.670 95	64.89 74	43.597 291	83.28 305	58.296 100	63.20 97
26.6	10.837 95	30.87 177	46.605 65	64.23 66	43.364 233	80.23 335	58.223 73	61.94 126
10 6.5	10.791 46	29.10 170	46.576 29	63.70 53	43.202 162	76.88 358	58.183 40	60.40 154
16.5	10.801 10	27.40 153	46.590 14	63.35 35	43.118 84	73.30 374	58.184 1	58.59 181
	71		62	13	3		45	205
26.5	10.872	25.87	46.652	63.22	43.121	69.56	58.229	56.54
11 5.5	11.007 135	24.56 131	46.764 112	63.35 13	43.216 95	65.74 382	58.323 94	54.26 228
15.4	11.205 198	23.57 99	46.926 162	63.76 41	43.405 189	61.93 381	58.466 143	51.81 245
25.4	11.461 256	22.94 63	47.133 210	64.46 70	43.689 284	58.23 370	58.657 191	49.22 259
12 5.4	11.771 310	22.71 23	47.389 253	65.46 100	44.062 373	54.74 349	58.891 234	46.58 264
	352	19	289	128	454	317	273	264
15.3	12.123	22.90	47.678	65.74	44.516	51.57	59.164	43.94
25.3	12.507 384	23.53 63	47.993 315	68.26 152	45.037 521	48.80 277	59.467 303	41.38 256
35.3	12.910 403	24.57 104	48.325 332	69.98 172	45.611 574	46.54 226	59.790 323	39.00 238
平位	s 10.355	″ 25.83	s 46.149	″ 63.67	s 45.957	″ 75.53	s 58.179	″ 57.70
2回正中	4月19日		4月19日		4月20日		4月21日	
a b	+0.1803	+0.0540	+0.1630	+0.0192	+0.0874	−0.1269	+0.1427	−0.0199
a′ b′	−0.8946	+0.4469	−0.8934	+0.4492	−0.8875	+0.4608	−0.8830	+0.4694
FK3番號	508		510		511		513	

星名	ζ Cent		294 G. Cent		47 Hyda		11 Boot	
等級	3.06		4.68		5.17		6.12	
スペクトル型	B2p		K0		B8		A3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
	h m 13 51	° ′ −47 0	h m 13 53	° ′ −63 24	h m 13 55	° ′ −24 41	h m 13 58	° ′ +27 39
月 日	s	″	s	″	s	″	s	″
1 0.3	57.483	10.27	29.155	5.73	17.960	26.99	34.053	37.48
10.3	57.917 434	11.34 107	29.767 612	6.33 60	18.306 346	28.59 160	34.392 339	35.21 227
20.3	58.351 434	12.80 146	30.382 615	7.45 112	18.653 347	30.36 177	34.736 344	33.31 190
30.2	58.772 421	14.60 180	30.981 599	9.03 158	18.991 338	32.25 189	35.076 340	31.84 147
2 9.2	59.171 399	16.68 208	31.549 568	11.04 201	19.310 319	34.19 194	35.400 324	30.86 98
	366	231	526	237	294	194	302	50
19.2	59.537	18.99	32.075	13.41	19.604	36.13	35.702	30.36
3 1.1	59.867 330	21.45 246	32.548 473	16.07 266	19.868 264	38.02 189	35.972 270	30.37 1
11.1	60.154 287	24.00 255	32.931 413	18.95 288	20.099 231	39.82 180	36.208 236	30.85 48
21.1	60.397 243	26.60 260	33.310 349	21.98 303	20.296 197	41.50 168	36.406 198	31.77 92
31.1	60.595 198	29.17 257	33.593 283	25.10 312	20.457 161	43.03 153	36.564 158	33.05 128
	153	252	215	314	128	137	120	158
4 10.0	60.748	31.69	33.808	28.24	20.585	44.40	36.684	34.63
20.0	60.857 109	34.10 241	33.954 146	31.33 309	20.679 94	45.60 120	36.765 81	36.43 193
29.9	60.924 67	36.37 227	34.032 78	34.33 300	20.743 64	46.64 104	36.811 46	38.36 193
5 9.9	60.949 25	38.46 209	34.043 11	37.17 284	20.776 33	47.49 85	36.823 12	40.35 199
19.9	60.935 14	40.33 187	33.989 54	39.78 261	20.781 5	48.18 69	36.805 18	42.32 197
	54	162	116	235	23	51	47	187
29.9	60.881	41.95	33.873	42.13	20.758	48.69	35.758	44.19
6 8.9	60.792 89	43.29 134	33.697 176	44.17 204	20.710 48	49.02 33	36.685 73	45.91 172
18.8	60.668 124	44.33 104	33.466 231	45.83 166	20.637 73	49.17 15	36.590 95	47.43 152
28.8	60.514 154	45.03 70	33.186 280	47.09 126	20.543 94	49.15 2	36.474 116	48.70 127
7 8.8	60.332 182	45.39 36	32.864 322	47.92 83	20.428 115	48.93 19	36.341 133	49.69 99
	202	0	354	37	130	37	145	69
18.8	60.130	45.29	32.510	48.29	20.298	48.59	36.196	50.38
28.7	59.913 217	45.03 36	32.126 374	48.19 10	20.155 143	48.06 53	36.041 155	50.74 36
8 7.7	59.688 225	44.32 71	31.752 384	47.61 58	20.005 150	47.37 69	35.881 160	50.77 3
17.7	59.465 223	43.28 104	31.374 378	46.58 103	19.854 151	46.56 81	35.721 160	50.46 31
27.7	59.253 212	41.94 134	31.016 358	45.13 145	19.710 144	45.65 91	35.569 152	49.81 65
	190	158	321	182	131	98	139	99
9 6.6	59.063	40.36	30.695	43.31	19.579	44.67	35.430	48.82
16.6	58.906 157	38.57 179	30.427 268	41.16 215	19.471 108	43.68 99	35.311 119	47.49 133
26.6	58.792 114	36.66 191	30.227 200	38.78 238	19.393 78	42.71 97	35.220 91	45.84 165
10 6.5	58.731 61	34.70 196	30.107 120	36.26 252	19.353 40	41.82 89	35.165 55	43.88 196
16.5	58.739 1	32.78 192	30.079 28	33.69 257	19.358 5	41.07 75	35.150 15	41.65 223
	66	178	71	250	55	55	32	249
26.5	58.793	31.00	30.150	31.19	19.413	40.52	35.182	39.16
11 5.5	58.930 134	29.42 158	30.322 172	28.85 234	19.520 107	40.20 32	35.265 83	36.46 270
15.4	59.132 202	28.14 128	30.594 272	26.78 207	19.681 161	40.18 2	35.399 134	33.61 285
25.4	59.399 267	27.22 92	30.930 366	25.08 170	19.892 211	40.46 28	35.585 186	30.67 294
12 5.4	59.723 324	26.71 51	31.409 449	23.81 127	20.149 257	41.07 61	35.817 232	27.71 296
	371	6	517	77	294	92	275	288
15.4	60.094	26.65	31.926	23.04	20.443	41.99	36.092	24.83
25.3	60.501 407	27.03 38	32.495 569	22.79 25	20.767 324	43.21 122	36.400 308	22.09 274
35.3	60.930 429	27.86 83	33.098 603	23.08 29	21.110 343	44.69 148	36.732 332	19.60 249
平位	s 58.313	″ 30.60	s 30.014	″ 29.49	s 18.876	″ 41.05	s 35.365	″ 40.14
2回正中	4月21日		4月21日		4月21日		4月22日	
a b	+0.1869	+0.0631	+0.2166	+0.1172	+0.1681	+0.0269	+0.1360	−0.0304
a′ b′	−0.8830	+0.4694	−0.8799	+0.4752	−0.8761	+0.4822	−0.8691	+0.4947
FK3番號	512		514		515		517	

星名	τ Virg		β Cent		α Drac		π Hyda	
等級	4.34		0.86		3.64		3.48	
スペクトル型	A2		B1		A0p		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
	h m 13 58	° ′ +1 48	h m 13 59	° ′ −60 5	h m 14 2	° ′ +64 38	h m 14 3	° ′ −26 24
月 日	s	″	s	″	s	″	s	″
1 0.3	43.500	75.92	45.944	33.10	48.068	41.78	6.162	16.39
10.3	43.817 317	73.84 208	46.503 559	33.72 62	48.642 574	39.73 205	6.511 349	17.89 150
20.3	44.138 321	71.88 196	47.065 562	34.82 110	49.241 599	38.29 144	6.862 351	19.59 170
30.2	44.451 313	70.10 178	47.615 550	35.37 155	49.844 603	37.50 79	7.206 344	21.42 183
2 9.2	44.748 297	68.54 156	48.139 524	38.32 195	50.432 588	37.38 12	7.532 326	23.33 191
	275	127	487	229	553	54	302	193
19.2	45.023	67.27	48.626	40.61	50.985	37.92	7.834	25.26
3 1.1	45.271 248	66.29 98	49.066 440	43.17 256	51.486 501	39.09 117	8.107 273	27.17 191
11.1	45.487 216	65.62 67	49.453 387	45.94 277	51.921 435	40.83 174	8.348 241	29.00 183
21.1	45.671 184	65.25 37	49.783 330	48.85 291	52.279 358	43.05 222	8.554 206	30.72 172
31.1	45.821 150	65.17 8	50.054 271	51.83 298	52.553 274	45.65 260	8.726 172	32.31 159
	118	18	211	300	186	288	138	145
4 10.0	45.939	65.35	50.265	54.83	52.739	48.53	8.864	33.76
20.0	46.026 87	65.73 38	50.414 149	57.79 296	52.836 97	51.57 304	8.969 105	35.05 129
29.9	46.084 58	66.30 57	50.503 89	60.65 286	52.848 12	54.64 307	9.042 73	36.18 113
5 9.9	46.114 30	66.99 69	50.533 30	63.35 270	52.778 70	57.65 301	9.084 42	37.13 95
19.9	46.118 4	67.76 77	50.504 29	65.86 251	52.633 145	60.47 282	9.097 13	37.92 79
	21	83	85	224	213	255	16	61
29.9	46.097	68.59 85	50.419	68.10 194	52.420 272	63.02 222	9.081 43	38.53 44
6 8.9	46.054 43	69.44 82	50.280 139	70.04 159	52.148 321	65.24 180	9.038 68	38.97 25
18.8	45.990 64	70.26 79	50.090 190	71.63 122	51.827 362	67.04 135	8.970 93	39.22 7
28.8	45.907 83	71.05 79	49.856 234	72.85 80	51.465 393	68.39 86	8.877 114	39.29 11
7 8.8	45.807 100	71.79 74	49.582 274	73.65 36	51.072 413	69.25 34	8.763 131	39.18 30
	113	65	305					
18.8	45.694	72.44	49.277	74.01 8	50.659	69.59	8.632	38.88
28.7	45.569 125	72.99 55	48.950 327	73.93 54	50.235 424	69.41 18	8.486 146	38.41 47
8 7.7	45.438 131	73.44 45	48.613 337	73.39 96	49.812 423	68.71 70	8.332 154	37.77 64
17.7	45.306 132	73.76 32	48.278 335	72.43 137	49.399 413	67.51 120	8.176 156	36.98 79
27.7	45.179 127	73.94 18	47.958 320	71.06 174	49.008 391	65.81 170	8.025 151	36.08 90
	116	2	288		357	215	138	99
9 6.6	45.063	73.96	47.670	69.32	48.651	63.66	7.887	35.09
16.6	44.965 98	73.79 17	47.425 245	67.29 203	48.337 314	61.10 256	7.770 117	34.06 103
26.6	44.893 72	73.43 36	47.240 185	65.03 226	48.079 258	58.15 295	7.683 87	33.04 102
10 6.5	44.854 39	72.85 58	47.127 113	62.63 240	47.888 191	54.90 325	7.635 48	32.08 96
16.5	44.854 0	72.03 82	47.095 32	60.19 244	47.774 114	51.37 353	7.632 3	31.24 84
	44	106	57	238	30	371	46	66
26.5	44.898	70.97	47.152	57.81	47.744	47.66	7.678	30.58
11 5.5	44.988 90	69.66 131	47.301 149	55.59 222	47.805 61	43.85 381	7.779 101	30.15 43
15.4	45.128 140	68.12 154	47.542 241	53.64 195	47.961 156	40.01 384	7.934 155	30.00 15
25.4	45.313 185	66.37 175	47.869 327	52.03 161	48.211 250	36.26 375	8.140 206	30.15 15
12 5.4	45.542 229	64.43 194	48.272 403	50.85 118	48.553 342	32.69 357	8.394 254	30.63 48
	265	206	468	71	424	328	293	81
15.4	45.807	62.37	48.740	50.14	48.977	29.41	8.687	31.44
25.3	46.101 294	60.24 213	49.257 517	49.94 20	49.472 495	26.51 290	9.011 324	32.54 110
35.3	46.414 313	58.11 213	49.805 548	50.25 31	50.024 552	24.10 241	9.355 344	33.92 138
平位	s 44.569	″ 70.49	s 46.886	″ 56.25	s 50.592	″ 51.99	s 7.129	″ 31.05
2回正中	4月22日		4月23日		4月23日		4月23日	
a b	+0.1523	−0.0018	+0.2112	+0.1005	+0.0815	−0.1210	+0.1703	+0.0284
a′ b′	−0.8688	+0.4952	−0.8665	+0.4992	−0.8598	+0.5107	−0.8591	+0.5117
FK3番號	516		518		521		519	

本初子午線正中時

星名	ϑ Cent		12 d Boot		4 UMin		χ Virg	
等級	2.26		4.82		5.00		4.31	
スペクトル型	K0		F5		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 14 3	° ′ −36 5	h m 14 7	° ′ +25 21	h m 14 8	° ′ +77 48	h m 14 9	° ′ −10 0
	s	″	s	″	s	″	s	″
1 0.3	18.212	8.02	46.585	37.62	57.432	44.14	49.982	23.98
10.3	18.589 377	9.28 126	46.916 331	35.31 231	58.473 1041	42.25 189	50.303 321	25.82 184
20.3	18.969 380	10.83 155	47.254 338	33.34 197	59.578 1105	40.99 126	50.628 325	27.68 186
30.2	19.339 370	12.62 179	47.589 335	31.78 156	60.708 1130	40.39 60	50.947 319	29.49 181
2 9.2	19.692 353	14.59 197	47.911 322	30.68 110	61.824 1116	40.48 9	51.252 305	31.21 172
	327	209	300	62	1060	75	283	156
19.2	20.019	16.68	48.211	30.06	62.884	41.23	51.535	32.77
3 1.2	20.314 295	18.83 215	48.484 273	29.93 13	63.853 969	42.61 138	51.792 257	34.14 137
11.1	20.575 261	21.00 217	48.723 239	30.27 34	64.698 845	44.55 194	52.020 228	35.31 117
21.1	20.798 223	23.14 214	48.927 204	31.04 77	65.393 695	46.96 241	52.217 197	36.24 93
31.1	20.984 186	25.21 207	49.092 165	32.19 115	65.918 525	49.74 278	52.381 164	36.95 71
	149	196	128	145	344	303	133	50
4 10.0	21.133	27.17	49.220	33.64	66.262	52.77	52.514	37.45
20.0	21.245 112	29.01 184	49.312 92	35.33 169	66.420 158	55.92 315	52.617 103	37.75 30
29.9	21.321 76	30.70 169	49.369 57	37.17 184	66.395 25	59.09 317	52.690 73	37.87 12
5 9.9	21.363 42	32.23 153	49.393 24	39.08 191	66.193 202	62.15 306	52.734 44	37.85 2
19.9	21.372 9	33.56 133	49.386 7	40.99 191	65.828 365	65.00 285	52.753 19	37.70 15
	24	113	36	184	513	255	8	26
29.9	21.348	34.69	49.350	42.83	65.315	67.55	52.745	37.44
6 8.9	21.293 55	35.59 90	49.288 62	44.53 170	64.673 642	69.73 218	52.713 32	37.10 34
18.9	21.209 84	36.26 67	49.203 85	46.06 153	63.923 750	71.46 173	52.658 55	35.69 41
28.8	21.098 111	36.68 42	49.096 107	47.36 130	63.087 836	72.70 124	52.582 76	36.22 47
7 8.8	20.963 135	36.84 16	48.971 125	48.40 104	62.187 900	73.43 73	52.485 97	35.72 50
	156	11	140	75	940	19	113	54
18.8	20.807	36.73	48.831	49.15	61.247	73.62	52.372	35.18
28.7	20.636 171	36.36 37	48.680 151	49.59 44	60.289 958	73.27 35	52.246 126	34.63 55
8 7.7	20.457 179	35.73 63	48.523 157	49.72 13	59.336 953	72.38 89	52.111 135	34.07 56
17.7	20.275 182	34.87 86	48.364 159	49.52 20	58.410 926	70.98 140	51.973 138	33.53 54
27.7	20.099 176	33.80 107	48.211 153	49.00 52	57.533 877	69.09 189	51.837 136	33.03 50
	160	125	142	87	807	235	125	45
9 6.6	19.939	32.55	48.069	48.13	56.726	66.74	51.712	32.58
16.6	19.803 136	31.19 136	47.945 124	46.95 118	56.010 716	63.99 275	51.605 107	32.22 36
26.6	19.701 102	29.76 143	47.849 96	45.44 151	55.406 604	60.87 312	51.523 82	31.99 23
10 6.6	19.642 59	28.34 142	47.786 63	43.62 182	54.932 474	57.45 342	51.474 49	31.91 8
16.5	19.634 8	26.99 135	47.763 23	41.52 210	54.607 325	53.81 364	51.465 9	32.01 10
	47	121	23	236	163	381	37	33
26.5	19.681	25.78	47.786	39.16	54.444	50.00	51.502	32.34
11 5.5	19.787 106	24.79 99	47.859 73	36.58 258	54.455 11	46.12 388	51.586 84	32.90 56
15.4	19.953 166	24.08 71	47.983 124	33.83 275	54.648 193	42.26 386	51.721 135	33.72 82
25.4	20.175 222	23.69 39	48.158 175	30.97 286	55.024 376	38.52 374	51.904 183	34.79 107
12 5.4	20.449 274	23.67 2	48.380 222	28.07 290	55.579 555	34.99 353	52.134 227	36.10 131
	317	35	265	286	720	320	265	153
15.4	20.766	24.02	48.645	25.21	56.299	31.79	52.396	37.63
25.3	21.116 350	24.74 72	48.943 298	22.48 273	57.166 867	29.01 278	52.691 295	39.33 170
35.3	21.487 371	25.82 108	49.267 324	19.96 252	58.153 987	26.74 227	53.006 315	41.15 182
平位	s 19.161	″ 25.51	s 47.913	″ 39.28	s 62.196	″ 55.11	s 51.049	″ 33.52
2回正中	4月24日		4月25日		4月25日		4月25日	
a b	+0.1782	+0.0417	+0.1366	−0.0268	−0.0115	−0.2611	+0.1596	+0.0099
a′ b′	−0.8587	+0.5125	−0.8485	+0.5292	−0.8456	+0.5338	−0.8437	+0.5368
FK3番號	520		522		524		523	

本初子午線正中時

星名	ε Virg		α Boot		ε Boot		λ Boot	
等級	4.16		0.24		4.78		4.26	
スペクトル型	F5		K0		A5		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 13	° ′ −5 43	h m 14 13	° ′ +19 28	h m 14 14	° ′ +51 37	h m 14 14	° ′ +46 20
	s	″	s	″	s	″	s	″
1 0.3	0.210	37.49	2.319	42.50	6.896	38.69	11.266	51.13
10.3	0.527 317	39.43 194	2.638 319	40.15 235	7.318 422	35.37 232	11.657 391	48.77 236
20.3	0.848 321	41.34 191	2.964 326	38.08 207	7.758 440	34.59 178	12.063 406	46.93 184
30.2	1.164 316	43.15 181	3.288 324	36.37 171	8.201 443	33.40 119	12.471 408	45.65 128
2 9.2	1.467 303	44.83 168	3.599 311	35.07 130	8.633 432	32.84 56	12.868 397	44.97 68
	283	147	291	86	408	8	374	6
19.2	1.750	46.30	3.890	34.21	9.041	37.92	13.242	44.91
3 1.2	2.007 257	47.54 124	4.155 265	33.79 42	9.414 373	33.62 70	13.583 341	45.44 53
11.1	2.235 228	48.54 100	4.388 233	33.81 2	9.742 328	34.89 127	13.884 301	46.55 111
21.1	2.432 197	49.28 74	4.588 200	34.24 43	10.019 277	36.67 178	14.138 254	48.15 160
31.1	2.597 165	49.77 49	4.753 165	35.03 79	10.240 221	38.86 219	14.343 205	50.16 201
	134	26	130	110	163	252	153	235
4 10.1	2.731	50.03	4.883	36.13	10.403	41.38	14.496	52.51
20.0	2.834 103	50.08 5	4.978 95	37.47 134	10.508 105	44.11 273	14.599 103	55.08 257
29.9	2.909 75	49.96 12	5.041 63	38.97 150	10.557 49	46.94 283	14.651 52	57.77 269
5 9.9	2.955 46	49.69 27	5.072 31	40.57 160	10.552 5	49.78 284	14.657 6	60.47 270
19.9	2.975 20	49.31 38	5.074 2	42.19 162	10.497 55	52.51 273	14.618 39	63.09 262
	6	46	25	159	101	254	79	246
29.9	2.969	48.85	5.049	43.78	10.396	55.05	14.539	65.55
6 8.9	2.939 30	48.32 53	4.997 52	45.28 150	10.254 142	57.32 227	14.422 117	67.76 221
18.9	2.886 53	47.76 56	4.923 74	46.63 135	10.076 178	59.25 193	14.274 148	69.66 190
28.8	2.811 75	47.18 58	4.827 96	47.81 118	9.866 210	60.80 155	14.098 176	71.20 154
7 8.8	2.717 94	46.60 58	4.712 115	48.77 96	9.632 234	61.92 112	13.898 200	72.35 115
	112		130	73	254	66	217	71
18.8	2.605	46.02	4.582	49.50	9.378	62.58	13.681	73.06
28.7	2.481 124	45.47 55	4.439 143	49.97 47	9.112 266	62.77 19	13.451 230	73.33 27
8 7.7	2.347 134	44.97 50	4.289 150	50.16 19	8.840 272	62.47 30	13.215 236	73.14 19
17.7	2.210 137	44.52 45	4.135 153	50.08 8	8.570 270	61.70 77	12.979 236	72.50 64
27.7	2.075 135	44.14 38	3.987 149	49.70 38	8.309 261	60.47 123	12.752 227	71.41 109
	125	28	139	67	241	169	212	153
9 6.6	1.950	43.86	3.848	49.03	8.068	58.78	12.540	69.88
16.6	1.841 109	43.71 15	3.726 122	48.06 97	7.854 214	56.67 211	12.353 187	67.94 194
26.6	1.758 83	43.69 17	3.629 97	46.79 127	7.676 178	54.18 249	12.199 154	65.62 232
10 6.6	1.707 51	43.86 37	3.565 64	45.23 156	7.544 132	51.33 285	12.087 112	62.95 267
16.5	1.694 13	44.23 60	3.539 26	43.40 183	7.466 78	48.18 315	12.023 64	59.98 297
	32		19	210	17	338	8	322
26.5	1.726	44.83	3.558	41.30	7.449	44.80	12.015	56.76
11 5.5	1.803 80	45.67 84	3.625 67	38.96 234	7.497 48	41.24 356	12.068 53	53.36 340
15.4	1.934 128	46.75 108	3.742 117	35.44 252	7.615 118	37.60 364	12.185 117	49.84 352
25.4	2.111 177	48.08 133	3.909 167	33.77 267	7.803 188	33.95 365	12.364 179	46.31 353
12 5.4	2.332 221	49.62 154	4.122 213	31.03 274	8.057 254	30.41 354	12.605 241	42.85 346
	260	173	254	276	314	334	295	330
15.4	2.592	51.35	4.376	28.27	8.371	27.07	12.900	39.55
25.3	2.882 290	53.21 186	4.664 288	25.60 267	8.737 366	24.02 305	13.242 342	36.53 302
35.3	3.192 310	55.16 195	4.975 311	23.08 252	9.144 407	21.38 264	13.620 378	33.88 265
平位	s 1.315	″ 45.70	s 3.607	″ 42.24	s 8.809	″ 46.32	s 13.015	″ 57.72
2回正中	4月26日		4月26日		4月26日		4月26日	
a b	+0.1570	+0.0056	+0.1404	−0.0197	+0.1068	−0.0702	+0.1147	−0.0582
a′ b′	−0.8362	+0.5484	−0.8331	+0.5485	−0.8335	+0.5525	−0.8334	+0.5527
FK3番號	525		526		528		527	

星名	υ Cent		10 G. Circ		ϑ Boot		52 Hyda	
等級	4.41		5.71		4.06		5.00	
スペクトル型	B5		A2p		F8		B8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 14 16	° ′ −56 7	h m 14 20	° ′ −67 55	h m 14 23	° ′ +52 6	h m 14 24	° ′ −29 13
	s	″	s	″	s	″	s	″
1 0.3	18.434	7.79	19.341	50.73	13.339	41.58	48.551	55.87
10.3	18.940 506	8.31 52	20.045 704	50.84 11	13.757 418	39.16 242	48.902 351	57.13 126
20.3	19.454 514	9.28 97	20.766 721	51.47 63	14.196 439	37.27 189	49.280 358	58.61 148
30.2	19.962 508	10.68 140	21.481 715	52.61 114	14.641 445	35.98 129	49.613 353	60.26 165
2 9.2	20.450 488	12.45 177	22.173 692	54.21 160	15.078 437	35.32 66	49.954 341	62.02 176
	458	208	654	201	416	2	320	182
19.2	20.908	14.53	22.827	56.22	15.494	35.30	50.274	63.84
3 1.2	21.328 420	16.88 235	23.429 602	58.59 237	15.876 382	35.90 60	50.568 294	65.68 184
11.1	21.704 376	19.42 254	23.971 542	61.25 266	16.215 339	37.09 119	50.833 265	67.48 180
21.1	22.031 327	22.10 268	24.443 472	64.13 288	16.505 290	38.81 172	51.064 231	69.21 173
31.1	22.306 275	24.85 275	24.841 398	67.16 303	16.740 235	40.95 214	51.263 199	70.84 163
	224	278	321	313	177	249	165	153
4 10.1	22.530	27.63	25.162	70.29	16.917	43.44	51.428	72.37
20.0	22.700 170	30.37 274	25.402 240	73.44 315	17.035 118	46.16 272	51.560 132	73.76 139
29.9	22.816 116	33.03 266	25.560 158	76.57 313	17.097 62	49.00 284	51.660 100	75.01 125
5 9.9	22.880 64	35.57 254	25.636 76	79.59 302	17.104 7	51.86 286	51.727 67	76.11 110
19.9	22.891 11	37.93 236	25.630 6	82.45 286	17.059 45	54.64 278	51.763 36	77.06 95
	41	213	88	265	92	259	4	79
29.9	22.850	40.06 187	25.542	85.10	16.967	57.23	51.767	77.85
6 8.9	22.758 92	41.93 157	25.376 166	87.47 237	16.831 136	59.56 233	51.742 25	78.46 61
18.9	22.620 138	43.50 121	25.137 239	89.52 205	16.656 175	61.57 201	51.687 55	78.91 45
28.8	22.437 183	44.71 85	24.829 308	91.18 166	16.449 207	63.20 163	51.604 83	79.17 26
7 8.8	22.215 222	45.56 45	24.462 367	92.42 124	16.213 236	64.40 120	51.496 108	79.23 6
	254		416	79	256	75	131	12
18.8	21.961	46.01	24.046	93.21	15.957	65.15	51.365	79.11
28.8	21.682 279	46.04 3	23.594 452	93.51 30	15.685 272	65.42 27	51.216 149	78.79 32
8 7.7	21.388 294	45.65 39	23.120 474	93.32 19	15.405 280	65.21 21	51.054 162	78.28 51
17.7	21.090 298	44.86 79	22.643 477	92.65 67	15.125 280	64.51 70	50.887 167	77.60 68
27.7	20.800 290	43.69 117	22.180 463	91.50 115	14.853 272	63.35 116	50.720 167	76.77 83
	267	153	428	158	256	163	156	95
9 6.6	20.533	42.16	21.752	89.92	14.597	61.72	50.564	75.82
16.6	20.301 232	40.34 182	21.377 375	87.96 196	14.369 228	59.67 205	50.426 138	74.78 104
26.6	20.118 183	38.30 204	21.075 302	85.68 228	14.175 194	57.21 246	50.317 109	73.71 107
10 6.6	19.996 122	36.10 220	20.864 211	83.18 250	14.027 148	54.39 282	50.245 72	72.66 105
16.5	19.945 51	33.85 225	20.756 108	80.54 264	13.932 95	51.26 313	50.217 28	71.69 97
	29	221	9	265	35	338	24	83
26.5	19.974	31.64	20.765	77.89	13.897	47.88	50.241	70.86
11 5.5	20.087 113	29.56 208	20.893 128	75.31 258	13.929 32	44.32 356	50.319 78	70.22 64
15.5	20.282 195	27.72 184	21.142 249	72.94 237	14.031 102	40.65 367	50.454 135	69.83 39
25.4	20.559 277	26.19 153	21.507 365	70.86 208	14.204 173	36.96 369	50.644 190	69.72 11
12 5.4	20.908 349	25.04 115	21.978 471	69.15 171	14.445 241	33.36 360	50.884 240	69.92 20
	412	71	560	124	304	341	284	53
15.4	21.320	24.33	22.538	67.91	14.749	29.95	51.168	70.45
25.3	21.780 460	24.09 24	23.171 633	67.17 74	15.106 357	26.82 313	51.487 319	71.28 83
35.3	22.274 494	24.33 24	23.855 684	66.96 21	15.507 401	24.09 273	51.830 343	72.40 112
平位	s 19.574	″ 30.05	s 20.757	″ 74.94	s 15.322	″ 48.82	s 49.671	″ 71.45
2回正中	4月27日		4月28日		4月29日		4月29日	
a b	+0.2089	+0.0822	+0.2479	+0.1346	+0.1032	−0.0695	+0.1754	+0.0301
a′ b′	−0.8282	+0.5604	−0.8183	+0.5748	−0.8109	+0.5852	−0.8069	+0.5907
FK3番號	529		530		531		532	

星名	φ Virg		ρ Boot		γ Boot		Grb 2125 Drac	
等級	4.97		3.78		3.00		6.18	
スペクトル型	K0		K0		F0		F0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 14 25	° ′ −1 58	h m 14 29	° ′ +30 36	h m 14 29	° ′ +38 33	h m 14 30	° ′ +60 28
	s	″	s	″	s	″	s	″
1 0.3	14.539	16.99	20.846	72.61	45.289	20.28	7.351	26.11
10.3	14.850 311	18.97 198	21.176 330	70.15 246	45.640 351	17.79 249	7.837 486	23.70 241
20.3	15.167 317	20.88 191	21.520 344	68.07 208	46.005 365	15.74 205	8.354 517	21.86 184
30.2	15.483 316	22.67 179	21.865 345	66.44 163	46.375 370	14.19 155	8.885 531	20.64 122
2 9.2	15.786 303	24.26 159	22.202 337	65.31 113	46.737 362	13.20 99	9.410 525	20.08 56
	286	137	319	61	344	41	505	11
19.2	16.072	25.63	22.521	64.70	47.081	12.79	9.915	20.19
3 1.2	16.335 263	26.73 110	22.816 295	64.63 7	47.399 318	12.96 17	10.382 467	20.94 75
11.1	16.570 235	27.55 82	23.080 264	65.07 44	47.683 284	13.68 72	10.800 418	22.31 137
21.1	16.775 205	28.09 54	23.309 229	65.98 91	47.929 246	14.90 122	11.158 358	24.21 190
31.1	16.950 175	28.35 26	23.500 191	67.31 133	48.134 205	16.56 166	11.448 290	26.55 234
	144	2	153	168	161	201	218	269
4 10.1	17.094	28.37	23.653	68.99	48.295	18.57	11.666	29.24
20.0	17.208 114	28.17 20	23.768 115	70.93 194	48.413 118	20.84 227	11.810 144	32.16 292
30.0	17.292 84	27.79 38	23.846 78	73.03 210	48.489 76	23.27 243	11.880 70	35.20 304
5 9.9	17.349 57	27.27 52	23.887 41	75.23 220	48.523 34	25.77 250	11.879 1	38.24 304
19.9	17.379 30	26.66 61	23.894 7	77.42 219	48.519 4	28.24 247	11.810 69	41.17 293
	2	69	25	213	40	237	131	274
29.9	17.381	25.97	23.869	79.55	48.479	30.61	11.679	43.91
6 8.9	17.359 22	25.25 72	23.814 55	81.53 198	48.404 75	32.79 218	11.491 188	46.37 246
18.9	17.312 47	24.51 74	23.730 84	83.31 178	48.299 105	34.73 194	11.253 238	48.47 210
28.8	17.243 69	23.80 71	23.621 109	84.84 153	48.166 133	36.36 163	10.972 281	50.16 169
7 8.8	17.152 91	23.11 69	23.490 131	86.07 123	48.009 157	37.65 129	10.655 317	51.40 124
	109	63	150	91	177	91	344	75
18.8	17.043	22.48	23.340	86.98	47.832	38.56	10.311	52.15
28.8	16.919 124	21.91 57	23.175 165	87.55 57	47.639 193	39.07 51	9.948 363	52.40 25
8 7.7	16.785 134	21.42 49	22.999 176	87.76 21	47.437 202	39.17 10	9.576 372	52.13 27
17.7	16.645 140	21.02 40	22.820 179	87.59 17	47.231 206	38.85 32	9.204 372	51.35 78
27.7	16.505 140	20.74 28	22.642 178	87.06 53	47.029 202	38.11 74	8.841 363	50.08 127
	132	16	168	91	192	116	341	175
9 6.6	16.373	20.58	22.474	86.15	46.837	36.95	8.500	48.33
16.6	16.256 117	20.57 1	22.323 151	84.87 128	46.664 173	35.40 155	8.191 309	46.13 220
26.6	16.163 93	20.73 16	22.197 126	83.25 162	46.518 146	33.46 194	7.925 266	43.51 262
10 6.6	16.100 63	21.09 36	22.103 94	81.28 197	46.407 111	31.17 229	7.712 213	40.53 298
16.5	16.075 25	21.66 57	22.050 53	79.01 227	46.340 67	28.56 261	7.564 148	37.24 329
	18	80	7	255	18	288	76	355
26.5	16.093	22.46	22.043	76.46	46.322	25.68	7.488	33.69
11 5.5	16.159 66	23.49 103	22.087 44	73.67 279	46.359 37	22.57 311	7.492 4	29.98 371
15.5	16.273 114	24.77 128	22.185 98	70.71 296	46.454 95	19.30 327	7.581 89	26.17 381
25.4	16.437 164	26.27 150	22.337 152	67.63 308	46.607 153	15.95 335	7.755 174	22.37 380
12 5.4	16.645 208	27.97 170	22.540 203	64.52 311	46.816 209	12.61 334	8.014 259	18.67 370
	248	185	250	305	260	324	336	348
15.4	16.893	29.82	22.790	61.47	47.076	9.37	8.350	15.19
25.3	17.173 280	31.78 196	23.079 289	58.56 291	47.380 304	6.33 304	8.756 406	12.03 316
35.3	17.477 304	33.79 201	23.399 320	55.88 268	47.717 337	3.58 275	9.218 462	9.29 274
平位	s 15.729	″ 24.22	s 22.349	″ 74.84	s 46.932	″ 24.42	s 9.780	″ 34.26
2回正中	4月29日		4月30日		4月30日		4月30日	
a b	+0.1547	+0.0019	+0.1294	−0.0314	+0.1210	−0.0422	+0.0816	−0.0933
a′ b′	−0.8058	+0.5922	−0.7950	+0.6066	−0.7939	+0.6080	−0.7939	+0.6093
FK3番號	533		534		535		536	

星名	η Cent		α Cent *cq*		33 Boot		α Circ	
等級	2.65		0.33 / 1.70		5.39		3.41	
スペクトル型	B3P, A2p		G0 / K5		A0		F0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 14 31	° ′ −41 54	h m 14 35	° ′ −60 35	h m 14 36	° ′ +44 38	h m 14 37	° ′ −64 43
	s	″	s	″	s	″	s	″
1 0.3	51.436 396	12.01 79	41.362 547	45.63 21	41.078 368	54.21 256	50.805 622	19.08 3
10.3	51.832 405	12.80 113	41.909 563	45.84 69	41.446 388	51.65 207	51.427 642	19.05 47
20.3	52.237 403	13.93 143	42.472 559	46.53 114	41.834 395	49.58 154	52.069 645	19.52 95
30.3	52.640 391	15.36 168	43.031 542	47.67 155	42.229 390	48.04 94	52.714 630	20.47 141
2 9.2	53.031 369	17.04 187	43.573 512	49.22 192	42.619 373	47.10 34	53.344 602	21.88 179
19.2	53.400 341	18.91 201	44.085 473	51.14 221	42.992 347	46.76 28	53.946 561	23.67 215
3 1.2	53.741 309	20.92 210	44.558 426	53.35 246	43.339 312	47.04 86	54.507 512	25.82 243
11.1	54.050 273	23.02 214	44.984 374	55.81 263	43.651 271	47.90 139	55.019 455	28.25 266
21.1	54.323 235	25.16 214	45.358 317	58.44 275	43.922 227	49.29 184	55.474 393	30.91 282
31.1	54.558 198	27.30 211	45.675 258	61.19 282	44.149 178	51.13 221	55.867 328	33.73 293
10.1	54.756 159	29.41 203	45.933 197	64.01 283	44.327 131	53.34 248	56.195 259	36.66 297
4 20.0	54.915 120	31.44 194	46.130 136	66.84 278	44.458 83	55.82 264	56.454 188	39.63 296
30.0	55.035 82	33.38 181	46.266 74	69.62 267	44.541 37	58.46 271	56.642 116	42.59 290
5 9.9	55.117 44	35.19 166	46.340 13	72.29 252	44.578 8	61.17 267	56.758 44	45.49 276
19.9	55.161 6	36.85 147	46.353 49	74.81 233	44.570 49	63.84 255	56.802 29	48.25 258
29.9	55.167 32	38.32 128	46.304 108	77.14 208	44.521 88	66.39 234	56.773 100	50.83 234
6 8.9	55.135 69	39.60 104	46.196 165	79.22 177	44.433 123	68.73 208	56.673 169	53.17 206
18.9	55.066 103	40.64 79	46.031 218	80.99 143	44.310 155	70.81 174	56.504 233	55.23 170
28.8	54.963 135	41.43 52	45.813 266	82.42 107	44.155 181	72.55 136	56.271 290	56.93 133
7 8.8	54.828 162	41.95 23	45.547 305	83.49 66	43.974 205	73.91 96	55.981 340	58.26 90
18.8	54.666 186	42.18 7	45.242 337	84.15 23	43.769 221	74.87 52	55.641 379	59.16 46
28.8	54.480 201	42.11 37	44.905 356	84.38 21	43.548 233	75.39 7	55.262 405	59.62 2
8 7.7	54.279 209	41.74 66	44.549 364	84.17 65	43.315 237	75.46 38	54.857 416	59.60 48
17.7	54.070 209	41.08 93	44.185 358	83.52 106	43.078 237	75.08 83	54.441 412	59.12 93
27.7	53.861 196	40.15 117	43.827 335	82.46 145	42.843 235 222	74.25 128	54.029 389	58.19 137
9 6.7	53.665 175	38.98 137	43.492 298	81.01 178	42.621 204	72.97 170	53.640 348	56.82 175
16.6	53.490 141	37.61 151	43.194 243	79.23 207	42.417 174	71.27 211	53.292 289	55.07 207
26.6	53.349 98	36.10 159	42.951 177	77.16 226	42.243 137	69.16 247	53.003 214	53.00 231
10 6.6	53.251 47	34.51 160	42.774 97	74.90 237	42.106 91	66.69 281	52.789 125	50.69 246
16.5	53.204 13	32.91 152	42.677 9	72.53 238	42.015 38	63.88 309	52.664 25	48.23 252
26.5	53.217 77	31.39 138	42.668 86	70.15 228	41.977 21	60.79 331	52.639 82	45.71 246
11 5.5	53.294 142	30.01 115	42.754 181	67.87 211	41.998 83	57.48 347	52.721 190	43.25 230
15.5	53.436 206	28.86 88	42.935 273	65.76 181	42.081 146	54.01 353	52.911 295	40.95 205
25.4	53.642 265	27.98 54	43.208 358	63.95 145	42.227 207	50.48 350	53.206 394	38.90 171
12 5.4	53.907 315	27.44 17	43.566 431	62.50 103	42.434 264	46.98 339	53.600 478	37.19 128
15.4	54.222 356	27.27 21	43.997 490	61.47 56	42.698 313	43.59 315	54.078 549	35.91 82
25.4	54.578 386	27.48 60	44.487 532	60.91 8	43.011 352	40.44 283	54.627 600	35.09 33
35.3	54.964	28.08	45.019	60.83	43.363	37.61	55.227	34.76
平位	s 52.642	″ 30.93	s 42.767	″ 65.17	s 42.895	″ 59.34	s 52.433	″ 42.46
2回正中	5月 1日		5月 2日		5月 2日		5月 2日	
a b	+ 0.1901	+ 0.0472	+ 0.2277	+ 0.0920	+ 0.1117	− 0.0511	+ 0.2431	+ 0.1090
a′ b′	− 0.7883	+ 0.6152	− 0.7779	+ 0.6284	− 0.7752	+ 0.6317	− 0.7720	+ 0.6357
FK3番號	537		538		540		539	

星名	α Lupi		† ζ Boot *m*		μ Virg		371 G. Cent	
等級	2.89		3.86		3.95		4.13	
スペクトル型	B2		A2		F5		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 14 38	° ′ −47 8	h m 14 38	° ′ +13 58	h m 14 40	° ′ − 5 24	h m 14 40	° ′ −34 55
	s	″	s	″	s	″	s	″
1 0.3	6.302 424	20.92	24.130 306	21.29 229	1.897 308	32.81 187	8.510 364	28.79 95
10.3	6.726 435	21.47 55	24.436 318	19.00 207	2.205 317	34.68 185	8.874 374	29.74 122
20.3	7.161 434	22.40 93	24.754 318	16.93 178	2.522 317	36.53 175	9.248 373	30.96 146
30.3	7.595 434	23.67 127	25.072 311	15.15 144	2.839 317	38.28 162	9.621 362	32.42 163
2 9.2	8.018 423 402	25.24 157 183	25.383 296	13.71 104	3.147 308 293	39.90 142	9.983 345	34.05 175
19.2	8.420	27.07 201	25.679	12.67 63	3.440 271	41.32 119	10.328 320	35.80 183
3 1.2	8.794 374	29.08 216	25.953 274	12.04 22	3.711 246	42.51 93	10.648 291	37.63 187
11.1	9.134 340	31.24 225	26.200 247	11.82 18	3.957 218	43.44 68	10.939 259	39.50 185
21.1	9.436 302	33.49 229	26.418 218	12.00 53	4.175 189	44.12 43	11.198 226	41.35 181
31.1	9.699 263 222	35.78 230	26.605 187 155	12.53 86	4.364 160	44.55 20	11.424 192	43.16 174
10.1	9.921 180	38.08 226	26.760 123	13.39 110	4.524 130	44.75 2	11.616 158	44.90 165
4 20.0	10.101 137	40.34 218	26.883 91	14.49 130	4.654 101	44.73 19	11.774 123	46.55 154
30.0	10.238 95	42.52 208	26.974 62	15.79 143	4.755 73	44.54 33	11.897 88	48.09 141
5 9.9	10.333 52	44.60 194	27.036 32	17.22 149	4.828 45	44.21 44	11.985 54	49.50 128
19.9	10.385 8	46.54 176	27.068 4	18.71 150	4.873 18	43.77 52	12.039 19	50.78 112
29.9	10.393	48.30 155	27.072	20.21 144	4.891 10	43.25 57	12.058 15	51.90 94
6 8.9	10.360 33	49.85 131	27.049 23	21.65 136	4.881 35	42.68 60	12.043 48	52.84 76
18.9	10.286 74	51.16 103	27.000 49	23.01 122	4.846 60	42.08 61	11.995 81	53.60 55
28.8	10.171 115	52.19 74	26.926 74	24.23 106	4.786 84	41.47 59	11.914 111	54.15 34
7 8.8	10.021 150 181	52.93 74 42	26.830 96 117	25.29 87	4.702 104	40.88 57	11.803 137	54.49 11
18.8	9.840 208	53.35 8	26.713 132	26.16 65	4.598 122	40.31 54	11.666 159	54.60 13
28.8	9.632 226	53.43 26	26.581 144	26.81 42	4.476 135	39.77 48	11.507 176	54.47 36
8 7.7	9.406 237	53.17 58	26.437 152	27.23 18	4.341 144	39.29 43	11.331 185	54.11 58
17.7	9.169 235	52.59 92	26.285 152	27.41 7	4.197 145	38.86 34	11.146 187	53.53 80
27.7	8.934 224	51.67 120	26.133 146	27.34 33	4.052 139	38.52 25	10.959 178	52.73 97
9 6.7	8.710 200	50.47 144	25.987 132	27.01 61	3.913 126	38.27 13	10.781 161	51.76 112
16.6	8.510 166	49.03 165	25.855 111	26.40 87	3.787 105	38.14 1	10.620 132	50.64 122
26.6	8.344 118	47.38 176	25.744 82	25.53 116	3.682 75	38.15 19	10.488 94	49.42 125
10 6.6	8.226 62	45.62 181	25.662 45	24.37 143	3.607 38	38.34 37	10.394 48	48.17 124
16.5	8.164 2	43.81 179	25.617 2	22.94 169	3.569 6	38.71 58	10.346 5	46.93 114
26.5	8.166	42.02 166	25.615	21.25 194	3.575	39.29 81	10.351 64	45.79 99
11 5.5	8.237 71	40.36 146	25.660 45	19.31 216	3.628 53	40.10 105	10.415 124	44.80 77
15.5	8.379 142	38.90 119	25.754 94	17.15 234	3.730 102	41.15 128	10.539 182	44.03 50
25.4	8.591 212	37.71 86	25.899 145	14.81 246	3.882 152	42.43 148	10.721 238	43.53 20
12 5.4	8.867 276 332	36.85 49	26.090 191 234	12.35 252	4.080 198 240	43.91 167	10.959 285	43.33 13
15.4	9.199	36.36	26.324	9.83	4.320	45.58	11.244	43.46
25.4	9.576 377	36.28 8	26.594 270	7.32 251	4.594 274	47.38 180	11.569 325	43.93 47
35.3	9.987 411	36.60 32	26.890 296	4.90 242	4.893 299	49.26 188	11.923 354	44.71 78
平位	s 7.605	″ 40.98	s 25.488	″ 18.62	s 3.151	″ 41.34	s 9.756	″ 45.85
2回正中	5月 2日		5月 2日		5月 3日		5月 3日	
a b	+ 0.1991	+ 0.0554	+ 0.1428	− 0.0128	+ 0.1574	+ 0.0048	+ 0.1833	+ 0.0356
a′ b′	− 0.7713	+ 0.6365	− 0.7704	+ 0.6375	− 0.7659	+ 0.6430	− 0.7656	+ 0.6433
FK3番號	541		543		545		544	

星名		α Apds		30 G. Lupi		109 Virg		α^2 Libr	
等級	スペクトル型	3.81	K5	5.20	K0	3.76	A0	2.90	A3
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	° ′ −78 47	h m 14 42	° ′ −52 8	h m 14 43	° ′ +2 7	h m 14 47	° ′ −15 48
		s	″	s	″	s	″	s	″
1	0.3	37.965	53.61	59.767	15.82	20.555	61.49	41.941	10.15
	10.3	39.217 1252	53.10 51	60.225 458	16.14 32	20.857 302	59.44 205	42.257 316	11.68 153
	20.3	40.522 1305	53.16 6	60.698 473	16.88 74	21.170 313	57.49 195	42.583 326	13.29 161
	30.3	41.843 1321	53.77 61	61.172 474	18.00 112	21.484 314	55.72 177	42.909 326	14.93 164
2	9.2	43.146 1303	54.92 115	61.635 463	19.48 148	21.790 306	54.16 156	43.228 319	16.54 161
		1253	164	442	176	291	128	303	153
	19.2	44.399	56.56	62.077	21.24	22.081	52.88	43.531	18.07
3	1.2	45.575 1176	58.64 208	62.489 412	23.25 201	22.352 271	51.91 97	43.815 284	19.49 142
	11.2	46.652 1077	61.11 247	62.867 378	25.46 221	22.598 246	51.25 66	44.073 258	20.74 125
	21.1	47.611 959	63.89 278	63.204 337	27.80 234	22.816 218	50.90 35	44.305 232	21.83 109
	31.1	48.435 824	66.92 303	63.498 294	30.22 242	23.006 190	50.86 4	44.507 202	22.74 91
		680	323	249	247	159	23	173	73
4	10.1	49.115	70.15	63.747	32.69	23.165	51.09	44.680	23.47
	20.0	49.638 523	73.48 333	63.950 203	35.15 246	23.295 130	51.55 46	44.824 144	24.03 56
	30.0	50.000 362	76.86 338	64.105 155	37.56 241	23.396 101	52.19 64	44.938 114	24.44 41
5	9.9	50.194 194	80.22 336	64.213 108	39.88 232	23.468 72	52.98 79	45.024 86	24.71 27
	19.9	50.218 24	83.48 326	64.272 59	42.07 219	23.512 44	53.86 88	45.080 56	24.85 14
		144	310	11	202	16	93	28	4
	29.9	50.074	86.58	64.283	44.09	23.528	54.79	45.108	24.89
6	8.9	49.764 310	89.43 285	64.245 38	45.90 181	23.518 10	55.74 95	45.106 2	24.84 5
	18.9	49.298 466	91.99 256	64.160 85	47.46 156	23.481 37	56.66 92	45.077 29	24.70 14
	28.9	48.688 610	94.18 219	64.030 130	48.72 126	23.420 61	57.54 88	45.020 57	24.49 21
7	8.8	47.948 740	95.95 177	63.860 170	49.68 96	23.335 85	58.35 81	44.938 82	24.20 29
		846	129	207	60	105	72	106	34
	18.8	47.102	97.24	63.653	50.28	23.230	59.07	44.832	23.86
	28.8	46.174 928	98.03 79	63.417 236	50.51 23	23.107 123	59.68 61	44.706 126	23.45 41
8	7.7	45.195 979	98.27 24	63.158 259	50.37 14	22.970 137	60.16 48	44.565 141	23.00 45
	17.7	44.196 999	97.98 29	62.889 269	49.85 52	22.826 144	60.52 36	44.414 151	22.51 49
	27.7	43.216 980	97.15 83	62.620 269	48.97 88	22.679 147	60.72 20	44.260 154	21.99 52
		925	136	257	121	141	3	149	52
9	6.7	42.291 831	95.79 182	62.363 232	47.76 151	22.538 129	60.75 14	44.111 136	21.47 49
	16.6	41.460 700	93.97 224	62.131 193	46.25 175	22.409 109	60.61 34	43.975 114	20.98 43
	26.6	40.760 537	91.73 256	61.938 141	44.50 191	22.300 79	60.27 56	43.861 83	20.55 35
10	6.6	40.223 346	89.17 280	61.797 81	42.59 201	22.221 43	59.71 77	43.778 46	20.20 21
	16.6	39.877 132	86.37 293	61.716 10	40.58 200	22.178 1	58.94 102	43.732 0	19.99 4
	26.5	39.745	83.44	61.706	38.58	22.177	57.92	43.732	19.95
11	5.5	39.838 93	80.51 293	61.773 67	36.67 191	22.222 45	56.67 125	43.781 49	20.10 15
	15.5	40.160 322	77.69 282	61.917 144	34.93 174	22.317 95	55.18 149	43.881 100	20.48 38
	25.4	40.704 544	75.09 260	62.138 221	33.45 148	22.461 144	53.48 170	44.033 152	21.10 62
12	5.4	41.454 750	72.82 227	62.429 291	32.30 115	22.652 191	51.61 187	44.234 201	21.97 87
		931	186	354	77	232	201	243	111
	15.4	42.385	70.96	62.783	31.53	22.884	49.60	44.477	23.08
	25.4	43.469 1084	69.60 136	63.189 406	31.18 35	23.151 267	47.51 209	44.756 279	24.38 130
	35.3	44.667 1198	68.76 84	63.632 443	31.26 8	23.444 293	45.41 210	45.062 306	25.86 148
平位		s 40.872	″ 78.55	s 61.180	″ 36.85	s 21.858	″ 55.19	s 43.214	″ 21.84
2回正中		5月 3日		5月 4日		5月 4日		5月 5日	
a	b	+0.3706	+0.2574	+0.2093	+0.0650	+0.1517	−0.0019	+0.1659	+0.0140
a′	b′	−0.7641	+0.6451	−0.7575	+0.6528	−0.7565	+0.6540	−0.7440	+0.6682
FK3番號		542		546		547		548	

星名		Grb 2164 Drac		β UMin		Pi 14h 221 Boot		β Lupi	
等級	スペクトル型	5.67	K2	2.24	K5	5.77	A0	2.81	B2P
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 14 49	° ′ +59 31	h m 14 50	° ′ +74 22	h m 14 53	° ′ +14 40	h m 14 54	° ′ −42 54
		s	″	s	″	s	″	s	″
1	0.3	56.879	23.19	46.581	70.33	30.243	35.11	45.842	1.46
	10.3	57.332 453	20.58 261	47.335 755	67.88 245	30.542 299	32.78 233	46.234 392	1.99 53
	20.3	57.823 491	18.50 208	48.168 832	66.01 187	30.855 313	30.66 212	46.640 406	2.85 86
	30.3	58.332 509	17.03 147	49.046 878	64.77 124	31.172 317	28.84 182	47.049 409	4.01 116
2	9.2	58.845 513	16.21 82	49.940 894	64.21 56	31.484 312	27.37 147	47.452 403	5.43 142
		498	15	877	12	300	108	385	163
	19.2	59.343	16.06	50.817	64.33	31.784	26.29	47.837	7.06
3	1.2	59.813 470	16.58 52	51.648 831	65.12 79	32.064 280	25.64 65	48.200 363	8.86 180
	11.2	60.240 427	17.72 114	52.406 758	65.53 141	32.321 257	25.40 24	48.533 333	10.78 192
	21.1	60.614 374	19.42 170	53.066 660	68.50 197	32.550 229	25.58 18	48.835 302	12.76 198
	31.1	60.927 313	21.61 219	53.610 544	70.93 243	32.749 199	26.13 55	49.101 266	14.78 202
		247	258	415	280	168	88	229	202
4	10.1	61.174	24.19	54.025	73.73	32.917	27.01	49.330	16.80
	20.0	61.350 176	27.04 285	54.300 275	76.77 304	33.055 138	28.15 114	49.522 192	18.77 197
	30.0	61.456 106	30.06 302	54.436 136	79.93 316	33.162 107	29.51 136	49.676 154	20.69 192
5	9.9	61.492 36	33.13 307	54.430 6	83.11 318	33.237 75	31.00 149	49.791 115	22.51 182
	19.9	61.460 32	35.14 301	54.290 140	86.19 308	33.283 46	32.56 156	49.865 74	24.22 171
		94	286	267	288	16	158	34	156
	29.9	61.336	39.00	54.023	89.07	33.299	34.14	49.899	25.78
6	8.9	61.212 154	41.62 262	53.639 384	91.66 259	33.287 12	35.67 153	49.893 6	27.17 139
	18.9	61.006 206	43.92 230	53.153 486	93.89 223	33.247 40	37.11 144	49.847 46	28.35 118
	28.9	60.752 254	45.83 191	52.578 575	95.69 180	33.180 67	38.42 131	49.762 85	29.31 96
7	8.8	60.458 294	47.31 148	51.929 649	97.03 134	33.090 90	39.55 113	49.641 121	30.01 70
		326	101	704	83	113	94	154	43
	18.8	60.132	48.32	51.225	97.86	32.977	40.49	49.487	30.44
	28.8	59.780 352	48.84 52	50.480 745	98.16 30	32.845 132	41.22 73	49.306 181	30.58 14
8	7.7	59.414 366	48.85 1	49.714 766	97.93 23	32.699 146	41.70 48	49.103 203	30.42 16
	17.7	59.042 372	48.34 51	48.945 769	97.18 75	32.543 156	41.93 23	48.887 216	29.98 44
	27.7	58.673 369	47.34 100	48.191 754	95.90 128	32.384 159	41.91 2	48.667 220	29.24 74
		353	151	721	177	154	30	213	99
9	6.7	58.320	45.83	47.470	94.13	32.230	41.61	48.454	28.25
	16.6	57.993 327	43.87 196	46.802 668	91.90 223	32.087 143	41.03 58	48.259 195	27.02 123
	26.6	57.703 290	41.47 240	46.205 597	89.24 266	31.963 124	40.17 86	48.093 166	25.62 140
10	6.6	57.462 241	38.67 280	45.698 507	86.20 304	31.868 95	39.03 114	47.958 125	24.10 152
	16.6	57.281 181	35.53 314	45.298 400	82.85 335	31.808 60	37.61 142	47.893 75	22.54 156
		113	342	279	361	19	170	16	155
	26.5	57.168	32.11	45.019	79.24	31.789	35.91	47.877	20.99
11	5.5	57.133 35	28.47 364	44.877 142	75.46 378	31.818 29	33.97 194	47.924 47	19.54 145
	15.5	57.180 47	24.70 377	44.880 3	71.58 388	31.896 78	31.80 217	48.039 115	18.27 127
	25.4	57.312 132	20.88 382	45.033 153	67.72 386	32.025 129	29.44 236	48.220 181	17.24 103
12	5.4	57.527 215	17.13 375	45.337 304	63.96 376	32.202 177	26.96 248	48.462 242	16.51 73
		295	359	449	354	221	255	298	40
	15.4	57.822	13.54	45.786	60.42	32.423	24.41	48.760	16 11
	25.4	58.188 366	10.24 330	46.368 582	57.21 321	32.681 258	21.86 255	49.104 344	16.07 4
	35.3	58.614 426	7.31 293	47.066 698	54.43 278	32.969 288	19.41 245	49.482 378	16.40 33
平位		s 59.367	″ 30.07	s 50.876	″ 78.56	s 31.674	″ 32.20	s 47.261	″ 20.27
2回正中		5月 5日		5月 6日		5月 6日		5月 7日	
a	b	+0.0768	−0.0835	−0.0085	−0.1753	+0.1413	−0.0127	+0.1961	+0.0448
a′	b′	−0.7373	+0.6756	−0.7348	+0.6783	−0.7268	+0.6869	−0.7230	+0.6908
FK3番號		549		550		551		552	

本初子午線正中時

星名		χ Cent		2 H. UMin		β Boot		σ Libr	
等級	スペクトル型	3.35	B3	4.86	M3	3.63	G5	3.41	M3
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m s 14 55	° ′ ″ −41 52	h m s 14 56	° ′ ″ +66 9	h m s 14 59	° ′ ″ +40 36	h m s 15 0	° ′ ″ −25 3
1	0.4	25.177 387	17.88 55	37.068 531	25.34 262	46.032 336	49.05 271	42.304 326	19.00 113
	10.3	25.564 400	18.43 88	37.599 581	22.72 207	46.368 359	46.34 229	42.630 340	20.13 131
	20.3	25.964 404	19.31 118	38.180 611	20.65 145	46.727 371	44.05 179	42.970 343	21.44 143
	30.3	26.368 397	20.49 142	38.791 621	19.20 79	47.098 370	42.26 122	43.313 338	22.87 151
2	9.2	26.765 381	21.91 163	39.412 609	18.41 11	47.468 360	41.04 64	43.651 324	24.38 153
	19.2	27.146 358	23.54 178	40.021 578	18.30 56	47.828 340	40.40 3	43.975 304	25.91 151
3	1.2	27.504 329	25.32 188	40.599 530	18.86 121	48.168 312	40.37 55	44.279 282	27.42 146
	11.2	27.833 298	27.20 196	41.129 465	20.07 178	48.480 277	40.92 110	44.561 254	28.88 137
	21.1	28.131 263	29.16 197	41.594 391	21.85 226	48.757 239	42.02 157	44.815 226	30.25 127
	31.1	28.394 228	31.13 197	41.985 307	24.11 266	48.996 198	43.59 198	45.041 197	31.52 116
4	10.1	28.622 190	33.10 192	42.292 218	26.77 294	49.194 155	45.57 229	45.238 166	32.68 103
	20.1	28.812 153	35.02 186	42.510 128	29.71 311	49.349 111	47.86 251	45.404 136	33.71 91
	30.0	28.965 114	36.88 177	42.638 38	32.82 315	49.460 69	50.37 262	45.540 105	34.62 80
5	9.9	29.079 75	38.65 165	42.676 50	35.97 309	49.529 27	52.99 263	45.645 74	35.42 68
	19.9	29.154 35	40.30 150	42.626 133	39.06 293	49.556 14	55.62 257	45.719 42	36.10 56
	29.9	29.189 4	41.80 134	42.493 210	41.99 268	49.542 53	58.19 241	45.761 10	36.66 44
6	8.9	29.185 41	43.14 113	42.283 279	44.67 235	49.489 88	60.60 219	45.771 21	37.10 32
	18.9	29.144 84	44.27 92	42.004 339	47.02 195	49.401 122	62.79 190	45.750 52	37.42 20
	28.9	29.060 117	45.19 67	41.665 392	48.97 151	49.279 152	64.69 156	45.698 83	37.62 7
7	8.8	28.943 150	45.86 40	41.273 432	50.48 102	49.127 178	66.25 119	45.615 109	37.69 6
	18.8	28.793 177	46.26 13	40.841 464	51.50 51	48.949 200	67.44 79	45.506 133	37.63 19
	28.8	28.616 199	46.39 17	40.377 484	52.01 0	48.749 216	68.23 36	45.373 151	37.44 33
8	7.8	28.417 211	46.22 45	39.893 491	52.01 54	48.533 225	68.59 8	45.222 165	37.11 46
	17.7	28.206 216	45.77 72	39.402 487	51.47 105	48.308 227	68.51 52	45.057 169	36.65 57
	27.7	27.990 209	45.05 98	38.915 467	50.42 155	48.081 221	67.99 95	44.888 166	36.08 66
9	6.7	27.781 192	44.07 119	38.448 436	48.87 203	47.860 207	67.04 138	44.722 154	35.42 74
	16.6	27.589 162	42.88 137	38.012 391	46.84 247	47.653 183	65.66 179	44.568 132	34.68 76
	26.6	27.427 124	41.51 147	37.621 332	44.37 287	47.470 151	63.87 218	44.436 101	33.92 75
10	6.6	27.303 73	40.04 152	37.289 259	41.50 321	47.319 110	61.69 254	44.335 61	33.17 69
	16.6	27.230 16	38.52 150	37.030 177	38.29 350	47.209 61	59.15 284	44.274 14	32.48 58
	26.5	27.214 46	37.02 139	36.853 83	34.79 371	47.148 5	56.31 311	44.260 39	31.90 42
11	5.5	27.260 113	35.63 121	36.770 16	31.08 384	47.143 53	53.20 330	44.299 93	31.48 23
	15.5	27.373 178	34.42 98	36.786 121	27.24 387	47.196 113	49.90 342	44.392 148	31.25 2
	25.5	27.551 239	33.44 68	36.907 224	23.37 380	47.309 173	46.48 345	44.540 200	31.27 27
12	5.4	27.790 294	32.76 35	37.131 324	19.57 362	47.482 229	43.03 339	44.740 246	31.54 53
	15.4	28.084 338	32.41 1	37.455 415	15.95 334	47.711 278	39.64 323	44.986 286	32.07 80
	25.4	28.422 373	32.42 36	37.870 493	12.61 294	47.989 319	36.41 295	45.272 315	32.87 103
	35.3	28.795	32.78	38.363	9.67	48.308	33.46	45.587	33.90
平位		s 26.592	″ 36.43	s 40.123	″ 32.56	s 47.853	″ 52.21	s 43.663	″ 33.25
2回正中		5月 7日		5月 7日		5月 8日		5月 8日	
a	b	+ 0.1947	+ 0.0431	+ 0.0482	− 0.1082	+ 0.1129	− 0.0405	+ 0.1754	+ 0.0220
a′	b′	− 0.7210	+ 0.6929	− 0.7173	+ 0.6968	− 0.7077	+ 0.7065	− 0.7049	+ 0.7093
FK3番號		553		554		555		556	

本初子午線正中時

星名		ψ Boot		ζ Lupi		ι Libr		3 Serp	
等級	スペクトル型	4.67	K0	3.50	K0	4.66	A0p	5.44	K0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m s 15 1	° ′ ″ +27 9	h m s 15 8	° ′ ″ −51 52	h m s 15 8	° ′ ″ −19 34	h m s 15 12	° ′ ″ +5 8
1	0.4	58.502 306	67.99 258	8.884 442	41.32 4	56.604 312	25.52 128	19.719 288	65.24 210
	10.3	58.808 323	65.41 226	9.326 463	41.36 43	56.916 326	26.80 140	20.007 303	63.14 199
	20.3	59.131 332	63.15 186	9.789 472	41.79 82	57.242 331	28.20 147	20.310 310	61.15 180
	30.3	59.463 330	61.29 140	10.261 468	42.61 116	57.573 327	29.67 149	20.620 307	59.35 154
2	9.2	59.793 319	59.89 90	10.729 453	43.77 146	57.900 315	31.16 145	20.927 298	57.81 125
	19.2	60.112 301	58.99 37	11.182 431	45.23 171	58.215 298	32.61 138	21.225 282	56.56 91
3	1.2	60.413 276	58.62 13	11.613 400	46.94 193	58.513 277	33.99 126	21.507 262	55.65 56
	11.2	60.689 248	58.75 63	12.013 365	48.87 208	58.790 251	35.25 114	21.769 237	55.09 23
	21.1	60.937 216	59.38 106	12.378 327	50.95 220	59.041 225	36.39 99	22.006 212	54.86 11
	31.1	61.153 182	60.44 145	12.705 285	53.15 227	59.266 197	37.38 85	22.218 184	54.97 41
4	10.1	61.335 148	61.89 174	12.990 242	55.42 231	59.463 169	38.23 71	22.402 156	55.38 65
	20.1	61.483 112	63.63 197	13.232 196	57.73 229	59.632 139	38.94 57	22.558 127	56.03 86
	30.0	61.595 78	65.60 210	13.428 149	60.02 225	59.771 110	39.51 44	22.685 99	56.89 101
5	10.0	61.673 44	67.70 216	13.577 99	62.27 216	59.881 79	39.95 34	22.784 69	57.90 111
	19.9	61.717 10	69.86 214	13.676 50	64.43 203	59.960 50	40.29 24	22.853 41	59.01 116
	29.9	61.727 22	72.00 204	13.726 0	66.46 187	60.010 18	40.53 14	22.894 11	60.17 116
6	8.9	61.705 52	74.04 188	13.726 70	68.33 166	60.028 13	40.67 6	22.905 17	61.33 113
	18.9	61.653 83	75.92 168	13.656 79	69.99 141	60.015 43	40.73 3	22.888 46	62.46 105
	28.9	61.570 109	77.60 142	13.577 145	71.40 113	59.972 73	40.70 11	22.842 72	63.51 96
7	8.8	61.461 133	79.02 114	13.432 186	72.53 81	59.899 99	40.59 19	22.770 98	64.47 84
	18.8	61.328 154	80.16 81	13.246 222	73.34 48	59.800 123	40.40 28	22.672 118	65.31 70
	28.8	61.174 170	80.97 48	13.024 250	73.82 11	59.677 143	40.12 35	22.554 137	66.01 54
8	7.8	61.004 179	81.45 13	12.774 269	73.93 25	59.534 157	39.77 42	22.417 150	66.55 37
	17.7	60.825 184	81.58 22	12.505 275	73.68 62	59.377 163	39.35 49	22.267 156	66.92 20
	27.7	60.641 180	81.36 60	12.230 269	73.06 96	59.214 161	38.86 52	22.111 155	67.12 0
9	6.7	60.461 168	80.76 95	11.961 251	72.10 128	59.053 152	38.34 55	21.956 146	67.12 21
	16.6	60.293 149	79.81 131	11.710 217	70.82 155	58.901 131	37.79 53	21.810 130	66.91 42
	26.6	60.144 120	78.50 166	11.493 172	69.27 175	58.770 103	37.26 48	21.680 104	66.49 66
10	6.6	60.024 83	76.84 198	11.321 114	67.52 188	58.667 66	36.78 39	21.576 70	65.83 89
	16.6	59.941 41	74.86 228	11.207 47	65.64 193	58.601 21	36.39 27	21.506 31	64.94 113
	26.5	59.900 9	72.58 255	11.160 28	63.71 191	58.580 28	36.12 9	21.475 16	63.81 137
11	5.5	59.909 61	70.03 277	11.188 106	61.80 177	58.608 82	36.03 10	21.491 64	62.44 161
	15.5	59.970 115	67.26 293	11.294 183	60.03 158	58.690 134	36.13 33	21.555 115	60.83 180
	25.5	60.085 166	64.33 301	11.477 258	58.45 130	58.824 186	36.46 56	21.670 163	59.03 199
12	5.4	60.251 216	61.32 302	11.735 323	57.15 96	59.010 231	37.02 80	21.833 207	57.04 210
	15.4	60.467 257	58.30 294	12.058 380	56.19 59	59.241 270	37.82 102	22.040 245	54.94 217
	25.4	60.724 291	55.36 294	12.438 423	55.60 18	59.511 300	38.84 121	22.285 275	52.77 217
	35.3	61.015	52.59 277	12.861	55.42	59.811	40.05	22.560	50.60
平位		s 60.099	″ 68.05	s 10.568	″ 61.66	s 58.001	″ 38.24	s 21.171	″ 59.28
2回正中		5月 8日		5月 10日		5月 10日		5月 11日	
a	b	+ 0.1289	− 0.0240	+ 0.2155	+ 0.0579	+ 0.1707	+ 0.0161	+ 0.1489	− 0.0040
a′	b′	− 0.7009	+ 0.7133	− 0.6814	+ 0.7319	− 0.6789	+ 0.7342	− 0.6680	+ 0.7442
FK3番號		557		558		559		562	

本初子午線正中時

星名		β Circ		δ Boot		γ TriA		β Libr	
等級	スペクトル型	4.16	A3	3.54	K0	3.06	A0	2.74	B8
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 15 13	° ′ −58 35	h m 15 13	° ′ +33 31	h m 15 13	° ′ −68 27	h m 15 13	° ′ −9 10
		s	″	s	″	s	″	s	″
1	0.4	0.037	2.75	10.453	34.14	30.948	52.64	54.711	15.97
	10.3	0.572 505	2.48 27	10.761 308	31.42 272	31.627 679	52.00 64	55.006 295	17.61 164
	20.3	1.104 532	2.65 17	11.093 332	29.05 237	32.347 720	51.86 14	55.316 310	19.26 165
	30.3	1.648 544	3.25 60	11.436 343	27.13 192	33.087 740	52.21 35	55.632 316	20.88 162
2	9.3	2.191 543	4.24 99	11.781 345	25.71 142	33.828 741	53.03 82	55.945 313	22.39 151
		528	136	337	87	725	126	303	137
	19.2	2.719	5.60 167	12.118	24.84	34.553 694	54.29 165	56.248	23.76
3	1.2	3.223 504	7.27 195	12.438 320	24.53 31	35.247 650	55.94 201	56.535 287	24.94 118
	11.2	3.695 472	9.22 216	12.735 297	24.79 26	35.897 596	57.95 230	56.802 267	25.92 98
	21.1	4.126 431	11.38 234	13.004 269	25.56 77	36.493 534	60.25 253	57.045 243	26.66 74
	31.1	4.513 387	13.72 246	13.239 235	26.82 126	37.027 465	62.78 273	57.263 218	27.19 53
		339		200	166			191	30
4	10.1	4.852	16.18 253	13.439	28.48 200	37.492 389	65.51 285	57.454	27.49
	20.1	5.139 287	18.71 257	13.603 164	30.48 223	37.881 310	68.36 293	57.618 164	27.61 12
	30.0	5.372 233	21.28 254	13.728 125	32.71 237	38.191 226	71.29 294	57.754 136	27.56 5
5	10.0	5.547 175	23.82 248	13.816 88	35.08 237	38.417	74.23 294	57.861 107	27.38 18
	19.9	5.664 117	26.30 236	13.866 50	37.52 244	38.556 139	77.12 289	57.940 79	27.09 29
		56		13	240	50	278	50	38
	29.9	5.720	28.66 220	13.879	39.92 230	38.603 40	79.90 262	57.990	26.71
6	8.9	5.714 6	30.86 198	13.856 23	42.22 212	38.566 127	82.52 239	58.010 20	26.29 42
	18.9	5.649 65	32.84 172	13.800 56	44.34 188	38.439 212	84.91 211	58.001 9	25.82 47
	28.9	5.524 125	34.53 142	13.710 90	46.22 160	38.227 291	87.02 176	57.962 39	25.34 48
7	8.8	5.344 180	35.98 107	13.590 120	47.82 127	37.936 361	88.78 137	57.896 66	24.85 49
		231		146				93	48
	18.8	5.113	37.05	13.444	49.09	37.575 421	90.15	57.803 116	24.37
	28.8	4.840 273	37.74 69	13.274 170	50.01 92	37.154 466	91.09 94	57.687 134	23.90 47
8	7.8	4.533 307	38.03 29	13.087 187	50.54 53	36.688 494	91.57 48	57.553 149	23.46 44
	17.7	4.204 329	37.90 13	12.887 200	50.68 14	36.194 504	91.57 0	57.404 155	23.04 42
	27.7	3.857 337	37.35 55	12.682 205	50.42 26	35.690 492	91.03 49	57.249 156	22.67 37
		331	95	202	66		95		30
9	6.7	3.536	35.40	12.480	49.76 107	35.198 459	90.12 141	57.093 146	22.37
	16.7	3.227 309	35.09 131	12.288 192	48.69 147	34.739 404	88.71 180	56.947 129	22.14 23
	25.6	2.956 271	33.44 165	12.116 172	47.22 183	34.335 328	86.91 214	56.818 103	22.01 13
10	6.6	2.738 218	31.53 191	11.972 144	45.39 219	34.007 233	84.77 239	56.715 68	22.00 1
	16.6	2.588 150	29.44 209	11.865 107	43.20 251	33.774 125	82.38 254	56.647 26	22.15 15
		72	220	62					33
	26.5	2.516	27.24	11.803	40.69	33.649 3	79.84	56.621	22.48
11	5.5	2.531 15	25.04 220	11.791 12	37.90 279	33.646 122	77.25 259	56.641 20	23.00 52
	15.5	2.637 106	22.93 211	11.834 43	34.88 302	33.768 248	74.71 254	56.712 71	23.74 74
	25.5	2.834 197	21.00 193	11.933 99	31.71 317	34.016 367	72.33 238	56.834 122	24.70 96
12	5.4	3.117 283	19.34 166	12.088 155	28.46 325	34.383 476	70.21 212	57.004 170	25.87 117
		362	133	208	324		178	215	136
	15.4	3.479	18.01	12.296	25.22	34.859 569	68.43 137	57.219	27.23
	25.4	3.907 428	17.06 95	12.549 253	22.09 313	35.428 644	67.06 141	57.472 253	28.74 151
	35.4	4.388 481	16.55 51	12.841 292	19.16 293	36.072	66.15 91	57.756 284	30.36 162
平位		s 1.995	″ 24.11	s 12.188	″ 35.19	s 33.420	″ 75.37	s 56.130	″ 25.86
2回正中		5月11日		5月11日		5月11日		5月11日	
a	b	+0.2348	+0.0727	+0.1203	−0.0294	+0.2797	+0.1122	+0.1614	+0.0071
a′	b′	−0.6658	+0.7462	−0.6652	+0.7467	−0.6641	+0.7477	−0.6628	+0.7488
FK3番號		561		563		560		564	

本初子午線正中時

星名		1 H. UMin		φ¹ Lupi		γ UMin		μ Boot *pr*	
等級	スペクトル型	5.23	G0	3.59	K5	3.14	A2	4.47	F0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 15 13	° ′ +67 33	h m 15 18	° ′ −35 3	h m 15 20	° ′ +72 1	h m 15 22	° ′ +37 34
		s	″	s	″	s	″	s	″
1	0.4	55.101	40.26	9.296	4.88	43.991	66.57	18.293	32.45
	10.3	55.629 528	37.48 278	9.646 350	5.44 56	44.600 609	63.79 278	18.602 309	29.63 282
	20.3	56.217 588	35.22 226	10.014 368	6.27 83	45.290 690	61.52 227	18.938 336	27.20 243
	30.3	56.846 629	33.56 166	10.389 375	7.34 107	46.037 747	59.86 166	19.289 351	25.22 198
2	9.3	57.494 648	32.56 100	10.762 373	8.59 125	46.814 777	58.85 101	19.645 356	23.77 145
		645	32	362	141	780	32	349	88
	19.2	58.139	32.24	11.124	10.00	47.594	58.53	19.994	22.89
3	1.2	58.760 621	32.60 36	11.469 345	11.50 150	48.350 756	58.88 35	20.330 336	22.60 29
	11.2	59.338 578	33.62 102	11.792 323	13.07 157	49.058 708	59.90 102	20.643 313	22.90 30
	21.1	59.855 517	35.23 161	12.088 296	14.67 160	49.695 637	61.51 161	20.928 285	23.75 85
	31.1	60.298 443	37.36 213	12.355 267	16.26 159	50.244 549	63.65 214	21.179 251	25.10 135
		359	256	236	157	445	257	215	178
4	10.1	60.657	39.92	12.591	17.83	50.689	66.22	21.394	26.88
	20.1	60.924 267	42.79 287	12.795 204	19.36 153	51.022 333	69.11 289	21.570 176	29.01 213
	30.0	61.097 173	45.86 307	12.966 171	20.82 146	51.235 213	72.21 310	21.707 137	31.39 238
5	10.0	61.174 77	49.03 317	13.102 136	22.20 138	51.328 93	75.41 320	21.803 96	33.93 254
	19.9	61.155 19	52.17 314	13.203 101	23.49 129	51.301 27	78.59 318	21.859 56	36.53 260
		109	302	63	119	142	305	16	258
	29.9	61.046	55.19	13.266	24.68	51.159	81.64	21.875	39.11
6	8.9	60.852 194	57.98 279	13.292 26	25.73 105	50.907 252	84.48 284	21.852 23	41.57 246
	18.9	60.580 272	60.47 249	13.280 12	26.65 92	50.557 350	87.01 253	21.792 60	43.85 228
	28.9	60.238 342	62.59 212	13.230 50	27.40 75	50.118 439	89.18 217	21.697 95	45.88 203
7	8.8	59.835 403	64.28 169	13.145 85	27.97 57	49.600 518	90.91 173	21.569 128	47.62 174
		453	122	119	36	580	127	158	138
	18.8	59.382	65.50	13.026	28.33 16	49.020 630	92.18	21.411	49.00
	28.8	58.889 493	66.22 72	12.877 149	28.49 76	48.390 666	92.94 76	21.229 182	50.01 101
8	7.8	58.370 519	66.41 19	12.704 173	28.42 7	47.724 683	93.18 24	21.026 203	50.62 61
	17.7	57.837 533	66.09 32	12.513 191	28.12 30	47.041 685	92.89 29	20.809 217	50.80 18
	27.7	57.303 534	65.24 85	12.314 199	27.61 51	46.356 670	92.08 81	20.586 223	50.56 24
		520	137	198	73		133	222	67
9	6.7	56.783	63.87	12.116	26.88 90	45.686 638	90.75 181	20.364	49.89
	16.7	56.290 493	62.02 185	11.929 187	25.98 104	45.048 586	88.94 228	20.152 212	48.80 109
	26.6	55.841 449	59.71 231	11.764 165	24.94 113	44.462 518	86.66 271	19.959 193	47.29 151
10	6.6	55.449 392	56.98 273	11.633 131	23.81 118	43.944 432	83.95 307	19.795 164	45.37 192
	16.6	55.129 320	53.88 310	11.544 89	22.63 115	43.512 331	80.88 339	19.667 128	43.10 227
		235	341	38				82	262
	26.5	54.894	50.47	11.506	21.48 106	43.181	77.49	19.585	40.48
11	5.5	54.755 139	46.81 366	11.525 19	20.42 92	42.966 215	73.85 364	19.555 30	37.58 290
	15.5	54.720 35	43.00 381	11.606 81	19.50 92	42.876 90	70.05 380	19.581 26	34.44 314
	25.5	54.795 75	39.11 389	11.748 142	18.79 71	42.919 43	66.18 387	19.666 85	31.15 329
12	5.4	54.981 186	35.26 385	11.948 200	18.33 46	43.099 180	62.34 384	19.809 143	27.77 338
		294	371	254	19	313	370	199	336
	15.4	55.275	31.55	12.202	18.14	43.412	58.64	20.008	24.41
	25.4	55.669 394	28.10 345	12.501 299	18.26 12	43.850 438	55.19 345	20.256 248	21.16 325
	35.4	56.153 484	25.01 309	12.837 336	18.67 41	44.401 551	52.10 309	20.547 291	18.13 303
平位		s 58.417	″ 46.51	s 10.837	″ 21.60	s 48.023	″ 72.69	s 20.136	″ 33.92
2回正中		5月11日		5月13日		5月13日		5月14日	
a	b	+0.0324	−0.1070	+0.1903	+0.0315	−0.0047	−0.1316	+0.1137	−0.0326
a′	b′	−0.6627	+0.7489	−0.6489	+0.7609	−0.6401	+0.7683	−0.6350	+0.7726
FK3番號		565		566		569		568	

本初子午線正中時

星名		τ^1 Serp		ι Drac		$\varkappa^1$ Apds		β CorB	
等級	スペクトル型	5.46	M0	3.47	K0	5.65	B5p	3.72	F0p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 15 23	° ′ +15 37	h m 15 23	° ′ +59 9	h m 15 25	° ′ −73 11	h m 15 25	° ′ +29 17
		s	″	s	″	s	″	s	″
1	0.4	7.074	41.66	36.779	49.69	12.112	17.52	26.918	64.52
	10.3	7.357 283	39.26 240	37.188 409	46.77 292	12.933 821	16.57 95	27.211 293	61.81 271
	20.3	7.658 301	37.07 219	37.642 454	44.34 243	13.813 880	16.12 45	27.526 315	59.42 239
	30.3	7.969 311	35.16 191	38.128 486	42.47 187	14.729 916	16.18 6	27.854 328	57.43 199
2	9.3	8.281 312	33.60 156	38.628 500	41.24 123	15.654 925	16.74 56	28.186 332	55.91 152
		305	116	498	57	914	103	326	102
	19.2	8.586	32.44	39.126	40.67	16.568	17.77	28.512	54.89
3	1.2	8.877 291	31.72 72	39.608 482	40.77 10	17.450 882	19.24 147	28.824 312	54.42 47
	11.2	9.149 272	31.43 29	40.059 451	41.54 77	18.285 835	21.09 185	29.117 293	54.48 6
	21.2	9.397 248	31.57 14	40.467 408	42.91 137	19.057 772	23.29 220	29.384 267	55.06 58
	31.1	9.619 222	32.11 54	40.824 357	44.82 191	19.754 697	25.77 248	29.621 237	56.12 106
		194	89	296	236	613	271	206	146
4	10.1	9.813	33.00	41.120	47.18	20.367	28.48	29.827	57.58
	20.1	9.978 165	34.19 119	41.353 233	49.90 272	20.886 519	31.37 289	29.999 172	59.38 180
	30.0	10.112 134	35.61 142	41.517 164	52.85 295	21.304 418	34.37 300	30.136 137	61.44 206
5	10.0	10.217 105	37.20 159	41.613 96	55.94 309	21.615 311	37.43 306	30.237 101	63.66 222
	19.9	10.290 73	38.88 168	41.641 28	59.05 311	21.813 198	40.47 304	30.304 67	65.97 231
		42	171	39	302	83	297	30	230
	29.9	10.332	40.59	41.602	62.07	21.896	43.44	30.334	68.27
6	8.9	10.344 12	42.27 168	41.500 102	64.92 285	21.863 33	46.26 282	30.330 4	70.50 223
	18.9	10.325 19	43.86 159	41.339 161	67.50 258	21.713 150	48.88 262	30.291 39	72.58 208
	28.9	10.276 49	45.33 147	41.123 216	69.75 225	21.453 260	51.23 235	30.220 71	74.46 188
7	8.9	10.198 78	46.62 129	40.859 264	71.61 186	21.088 365	53.25 202	30.118 102	76.08 162
		104	110	306	142	458	163	130	133
	18.8	10.094	47.72	40.553	73.03	20.630	54.88	29.988	77.41
	28.8	9.967 127	48.59 87	40.214 339	73.97 94	20.092 538	56.07 119	29.834 154	78.42 101
8	7.8	9.821 146	49.21 62	39.849 365	74.42 45	19.491 601	56.78 71	29.660 174	79.07 65
	17.7	9.661 160	49.57 36	39.468 381	74.36 6	18.851 640	56.99 21	29.471 189	79.36 29
	27.7	9.493 168	49.65 8	39.082 386	73.79 57	18.193 658	56.69 30	29.275 196	79.28 8
		169	20	381	108	648	81	197	48
9	6.7	9.324	49.45	38.701	72.71	17.545	55.88	29.078	78.80
	16.7	9.163 161	48.96 49	38.338 363	71.14 157	16.934 611	54.58 130	28.890 188	77.95 85
	26.6	9.018 145	48.18 78	38.004 334	69.10 204	16.387 547	52.85 173	28.719 171	76.72 123
10	6.6	8.897 121	47.10 108	37.711 293	66.62 248	15.931 456	50.73 212	28.574 145	75.12 160
	16.6	8.809 88	45.73 137	37.472 239	63.75 287	15.590 341	48.31 242	28.463 111	73.17 195
		49	165	175	321	206	263	70	227
	26.6	8.760	44.08	37.297	60.54	15.384	45.68	28.393	70.90
11	5.5	8.757 3	42.16 192	37.195 102	57.06 348	15.326 58	42.95 273	28.373 20	68.34 256
	15.5	8.804 47	40.00 216	37.174 21	53.37 369	15.425 99	40.23 272	28.405 32	65.54 280
	25.5	8.902 98	37.65 235	37.236 62	49.57 380	15.683 258	37.63 260	28.491 86	62.56 298
12	5.4	9.050 148	35.15 250	37.384 148	45.76 381	16.092 409	35.24 239	28.632 141	59.47 309
		194	258	231	373	549	206	191	311
	15.4	9.244	32.57	37.615	42.03	16.641	33.18	28.823	56.36
	25.4	9.479 235	29.98 259	37.923 308	38.52 351	17.314 673	31.50 168	29.060 237	53.31 305
	35.4	9.747 268	27.47 251	38.298 375	35.32 320	18.086 772	30.28 122	29.336 276	50.43 288
平位		s 8.634	″ 38.18	s 39.410	″ 54.48	s 15.359	″ 40.25	s 28.633	″ 64.15
2回正中		5月14日		5月14日		5月14日		5月14日	
a	b	+ 0.1389	− 0.0118	+ 0.0666	− 0.0704	+ 0.3256	+ 0.1380	+ 0.1241	− 0.0234
a′	b′	− 0.6322	+ 0.7748	− 0.6305	+ 0.7762	− 0.6251	+ 0.7806	− 0.6243	+ 0.7812
FK3番號		570		571		567		572	

1943 本初子午線正中時

星名		ν^1 Boot		ϑ CorB		†γ Lupi *m*		ε TriA	
等級	スペクトル型	5.15	K5	4.17	B5	2.95	B3	4.11	K0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 15 28	° ′ +41 1	h m 15 30	° ′ +31 32	h m 15 31	° ′ −40 58	h m 15 31	° ′ −66 7
		s	″	s	″	s	″	s	″
1	0.4	50.860	33.57	35.996	61.57	18.295	18.57	26.069	17.64
	10.3	51.173 313	30.67 290	36.288 292	58.80 277	18.657 362	18.81 24	26.675 606	16.86 78
	20.3	51.516 343	28.17 250	36.605 317	56.36 244	19.041 384	19.34 53	27.325 650	16.55 31
	30.3	51.876 360	26.14 203	36.936 331	54.32 204	19.436 395	20.15 81	28.000 675	16.69 14
2	9.3	52.244 368	24.66 148	37.273 337	52.77 155	19.832 396	21.20 105	28.682 682	17.29 60
		363	89	332	102	387	124	674	102
	19.2	52.607	23.77	37.605	51.75	20.219	22.44	29.356	18.31
3	1.2	52.958 351	23.49 28	37.924 319	51.28 47	20.592 373	23.85 141	30.008 652	19.71 140
	11.2	53.287 329	23.81 32	38.224 300	51.37 9	20.943 351	25.37 152	30.626 618	21.46 175
	21.2	53.588 301	24.71 90	38.499 275	51.98 61	21.269 326	26.97 160	31.200 574	23.51 205
	31.1	53.854 266	25.12 141	38.744 245	53.09 111	21.536 297	28.63 166	31.722 522	25.81 230
		229	187	214	153	266	168	464	249
4	10.1	54.083	27.99	38.958	54.62	21.832	30.31	32.186	28.30
	20.1	54.272 189	30.21 222	39.137 179	56.50 188	22.064 232	31.98 167	32.584 398	30.94 264
	30.0	54.419 147	32.70 249	39.280 143	58.64 214	22.262 198	33.63 165	32.914 330	33.68 274
5	10.0	54.522 103	35.36 266	39.387 107	60.95 231	22.422 160	35.24 161	33.170 256	36.46 278
	19.9	54.583 61	38.08 272	39.458 71	63.35 240	22.544 122	36.78 154	33.347 177	39.22 276
		18	270	33	240	82	144	97	269
	29.9	54.601	40.78	39.491	65.75	22.626	38.22	33.444	41.91
6	8.9	54.577 24	43.37 259	39.488 3	68.08 233	22.666 40	39.56 134	33.459 15	44.47 256
	18.9	54.513 64	45.76 239	39.450 38	70.25 217	22.665 1	40.75 119	33.392 67	46.85 238
	28.9	54.412 101	47.90 214	39.378 72	72.21 196	22.621 44	41.77 102	33.243 149	48.98 213
7	8.9	54.275 137	49.73 183	39.274 104	73.91 170	22.536 85	42.61 84	33.019 224	50.80 182
		169	147	134	140	123	61	294	148
	18.8	54.106	51.20	39.140	75.31	22.413	43.22	32.725	52.28
	28.8	53.911 195	52.27 107	38.981 159	76.36 105	22.257 156	43.59 37	32.371 354	53.35 107
8	7.8	53.694 217	52.92 65	38.801 180	77.06 70	22.072 185	43.71 12	31.938 403	54.00 65
	17.7	53.461 233	53.14 22	38.605 196	77.37 31	21.866 206	43.56 15	31.531 437	54.18 18
	27.7	53.221 240	52.91 23	38.402 203	77.29 8	21.648 218	43.15 41	31.078 453	53.90 28
		240	68	205	48	220	66	451	74
9	6.7	52.981	52.23	38.197	76.81	21.428	42.49	30.627	53.16
	16.7	52.751 230	51.10 113	38.000 197	75.94 87	21.219 209	41.59 90	30.199 428	51.97 119
	26.6	52.540 211	49.55 155	37.819 181	74.67 127	21.030 189	40.50 109	29.813 386	50.38 159
10	6.6	52.357 183	47.58 197	37.665 154	73.02 165	20.876 154	39.26 124	29.490 323	48.44 194
	16.6	52.212 145	45.23 235	37.544 121	71.01 201	20.764 112	37.92 134	29.248 242	46.24 220
		99	270	78	234	57	136	145	239
	26.6	52.113	42.53	37.466	68.67	20.707	36.56	29.103	43.85
11	5.5	52.068 45	39.53 300	37.436 30	66.04 263	20.709 2	35.23 133	29.065 38	41.38 247
	15.5	52.081 13	36.29 324	37.460 24	63.15 289	20.776 67	34.01 122	29.142 77	38.92 246
	25.5	52.154 73	32.89 340	37.539 79	60.09 306	20.909 133	32.97 104	29.334 192	36.58 234
12	5.4	52.289 135	29.41 348	37.673 134	56.92 317	21.105 196	32.16 81	29.638 304	34.46 212
		193	346	187	319	254	55	407	183
	15.4	52.482	25.95	37.860	53.73	21.359	31.61	30.045	32.63
	25.4	52.729 247	22.62 333	38.094 234	50.60 313	21.663 304	31.37 24	30.541 496	31.18 145
	35.4	53.021 292	19.50 312	38.368 274	47.65 295	22.007 344	31.44 7	31.112 571	30.14 104
平位		s 52.801	″ 35.36	s 37.762	″ 61.46	s 19.995	″ 36.01	s 28.667	″ 39.29
2回正中		5月15日		5月16日		5月16日		5月16日	
a	b	+ 0.1075	− 0.0355	+ 0.1208	− 0.0248	+ 0.1995	+ 0.0350	+ 0.2734	+ 0.0909
a′	b′	− 0.6126	+ 0.7904	− 0.6066	+ 0.7950	− 0.6041	+ 0.7939	− 0.6036	+ 0.7973
FK3番號		573		576		575		574	

本初子午線正中時 昭和18年

星名	α CorB		γ Libr		υ Libr		φ Boot	
等級	2.31		4.02		3.78		5.41	
スペクトル型	A0		K0		K2		G5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 15 32	° ′ +26 54	h m 15 32	° ′ −14 35	h m 15 33	° ′ −27 56	h m 15 35	° ′ +40 32
	s	″	s	″	s	″	s	″
1 0.4	14.664 285	20.77 268	18.465 292	51.83 135	31.891 316	37.33 79	44.710 306	15.57 293
10.4	14.949 309	18.09 240	18.757 310	53.18 142	32.207 336	38.12 97	45.016 336	12.64 254
20.3	15.258 322	15.69 203	19.067 319	54.60 143	32.543 346	39.09 111	45.352 355	10.10 208
30.3	15.580 326	13.66 158	19.386 319	56.03 140	32.889 346	40.20 123	45.707 364	8.02 154
2 9.3	15.906 321	12.08 108	19.705 311	57.43 131	33.235 338	41.43 128	46.071 361	6.48 96
19.2	16.227	11.00	20.016 299	58.74 119	33.573	42.71 131	46.432	5.52
3 1.2	16.537 310	10.43 57	20.315 282	59.93 104	33.898 325	44.02 129	46.783 351	5.17 35
11.2	16.828 291	10.39 4	20.597 260	60.97 86	34.205 307	45.31 125	47.113 330	5.42 25
21.2	17.095 267	10.86 47	20.857 236	61.83 69	34.489 284	46.56 119	47.417 304	6.26 84
31.1	17.335 240 209	11.80 94 134	21.093 212	62.52 51	34.748 259 233	47.75 112	47.688 271 235	7.62 136 181
4 10.1	17.544 178	13.14 169	21.305 185	63.03 35	34.981 204	48.87 103	47.923 195	9.43 219
20.1	17.722 144	14.83 194	21.490 158	63.38 22	35.185 175	49.90 96	48.118 154	11.62 246
30.1	17.866 110	16.77 213	21.648 130	63.60 9	35.360 144	50.86 86	48.272 112	14.08 264
5 10.0	17.976 75	18.90 221	21.778 101	63.69 2	35.504 112	51.72 79	48.384 70	16.72 272
19.9	18.051 41	21.11 223	21.879 70	63.67 9	35.616 78	52.51 69	48.454 27	19.44 272
29.9	18.092	23.34	21.949	63.58	35.694	53.20 61	48.481	22.16
6 8.9	18.098 6	25.50 216	21.988 39	63.43 15	35.737 43	53.81 50	48.465 16	24.76 260
18.9	18.070 28	27.54 204	21.995 7	63.23 20	35.745 8	54.31 41	48.410 55	27.19 243
28.9	18.010 60	29.39 185	21.970 25	62.98 25	35.717 28	54.72 28	48.316 94	29.38 219
7 8.9	17.918 92 120	31.01 162 134	21.915 55 85	62.71 27 30	35.655 62 95	55.00 16	48.186 130 163	31.27 189 152
18.8	17.798	32.35	21.830	62.41	35.560	55.16	48.023	32.79
28.8	17.652 146	33.39 104	21.719 111	62.08 33	35.435 125	55.18 2	47.832 191	33.94 115
8 7.8	17.485 167	34.09 70	21.585 134	61.73 35	35.286 149	55.06 12	47.618 214	34.67 73
17.8	17.303 182	34.44 35	21.434 151	61.37 36	35.117 169	54.80 26	47.388 230	34.96 29
27.7	17.113 190 193	34.44 0 38	21.272 162 163	61.00 37 36	34.937 180 182	54.40 40 53	47.148 240 241	34.81 15 60
9 6.7	16.920 186	34.06 75	21.109 158	60.64 34	34.755 176	53.87 64	46.907 233	34.21 105
16.7	16.734 170	33.31 111	20.951 142	60.30 30	34.579 158	53.23 71	46.674 215	33.16 148
26.6	16.564 145	32.20 148	20.809 118	60.00 22	34.421 130	52.52 76	46.459 187	31.68 189
10 6.6	16.419 112	30.72 182	20.691 84	59.78 12	34.291 93	51.76 75	46.272 151	29.79 229
16.6	16.307 72	28.90 214	20.607 42	59.66 2	34.198 48	51.01 70	46.121 106	27.50 264
26.6	16.235	26.76	20.565	59.68	34.150	50.31	46.015	24.86
11 5.5	16.211 24	24.33 243	20.569 4	59.86 18	34.154 4	49.71 60	45.962 53	21.92 294
15.5	16.238 27	21.65 268	20.625 56	60.23 37	34.214 60	49.26 45	45.966 4	18.73 319
25.5	16.319 81	18.78 287	20.732 107	60.81 58	34.330 116	49.00 26	46.031 65	15.36 337
12 5.4	16.453 134 185	15.79 299 304	20.890 158 205	61.59 78 99	34.502 172 222	48.95 5 20	46.157 126 185	11.90 346 346
15.4	16.638	12.75	21.095	62.58	34.724	49.15	46.342	8.44
25.4	16.868 230	9.76 299	21.341 246	63.74 116	34.991 267	49.59 44	46.579 237	5.09 335
35.4	17.135 267	6.91 285	21.619 278	65.05 131	35.292 301	50.27 68	46.863 284	1.96 313
平位	s 16.371	″ 19.62	s 19.979	″ 63.10	s 33.469	″ 51.84	s 46.663	″ 16.93
2回正中	5月16日		5月16日		5月16日		5月17日	
a b	+0.1263	−0.0203	+0.1672	+0.0104	+0.1817	+0.0211	+0.1072	−0.0336
a′ b′	−0.6009	+0.7994	−0.6007	+0.7995	−0.5964	+0.8027	−0.5886	+0.8085
FK3番號	578		577		579		580	

1943 本初子午線正中時

星名	†γ CorB		α Serp		β Serp		12 H. Drac	
等級	3.93		2.75		3.74		5.13	
スペクトル型	A0		K0		A2		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 40	° ′ +26 28	h m 15 41	° ′ +6 36	h m 15 43	° ′ +15 35	h m 15 45	° ′ +62 46
	s	″	s	″	s	″	s	″
1 0.4	19.099	31.79	25.895 270	19.34 213	31.658	60.33	44.442	27.16
10.4	19.377 278	29.09 270	26.165 291	17.21 201	31.928 270	57.90 243	44.851 409	24.08 308
20.3	19.680 303	26.67 242	26.456 302	15.20 182	32.219 291	55.67 223	45.319 468	21.45 263
30.3	19.997 317	24.61 206	26.758 305	13.38 156	32.524 305	53.72 195	45.830 511	19.37 208
2 9.3	20.320 323 320	22.99 162 113	27.063 301	11.82 126	32.832 308 306	52.10 162 122	46.368 538 547	17.92 145 79
19.2	20.640	21.86	27.364	10.56	33.138	50.88	46.915	17.13
3 1.2	20.950 310	21.24 62	27.654 290	9.65 91	33.433 295	50.08 80	47.453 538	17.02 11
11.2	21.243 293	21.15 9	27.928 274	9.11 54	33.713 280	49.73 35	47.966 513	17.58 56
21.2	21.513 270	21.57 42	28.183 255	8.93 18	33.972 259	49.82 9	48.440 474	18.78 120
31.1	21.758 245 215	22.46 89 131	28.415 232 207	9.09 16 48	34.209 237 210	50.31 49 87	48.862 422 360	20.55 177 227
4 10.1	21.973 184	23.77 165	28.622 181	9.57 76	34.419 183	51.18 118	49.222	22.82
20.1	22.157 151	25.42 193	28.803 154	10.33 98	34.602 154	52.36 142	49.513 291	25.47 265
30.1	22.308 118	27.35 211	28.957 126	11.31 114	34.756 124	53.78 161	49.730 217	28.41 294
5 10.0	22.426 84	29.46 222	29.083 96	12.45 125	34.880 93	55.39 172	49.870 140	31.53 312
20.0	22.510 48	31.68 224	29.179 66	13.70 131	34.973 61	57.11 177	49.932 16	34.71 318 314
29.9	22.558	33.92	29.245	15.01	35.034	58.88	49.916	37.85
6 8.9	22.572 14	36.10 218	29.281 36	16.33 132	35.064 30	60.62 174	49.826 90	40.84 299
18.9	22.552 20	38.17 207	29.285 4	17.60 127	35.061 3	62.30 168	49.665 161	43.60 276
28.9	22.498 54	40.07 190	29.259 26	18.80 120	35.027 34	63.85 155	49.438 227	46.06 246
7 8.9	22.411 87 116	41.73 166 140	29.202 57 85	19.89 109 96	34.961 66 94	65.24 139 119	49.152 286 339	48.15 209 166
18.8	22.295	43.13	29.117	20.85	34.867	66.43	48.813	49.81
28.8	22.153 142	44.22 109	29.005 112	21.65 80	34.746 121	67.40 97	48.431 382	51.01 120
8 7.8	21.988 165	44.98 76	28.872 133	22.28 63	34.603 143	68.12 72	48.014 417	51.71 70
17.8	21.806 182	45.40 42	28.722 150	22.72 44	34.443 160	68.57 45	47.574 440	51.90 19
27.7	21.614 192 194	45.46 6 30	28.560 162 165	22.97 25 4	34.272 171 175	68.76 19 11	47.122 452 452	51.57 33 84
9 6.7	21.420	45.16 68	28.395	23.01	34.097	68.65	46.670	50.73
16.7	21.230 190	44.48 104	28.234 161	22.82 19	33.926 171	68.26 39	46.231 439	49.38 135
26.6	21.056 174	43.44 141	28.086 148	22.41 41	33.768 158	67.56 70	45.819 412	47.54 184
10 6.6	20.904 152	42.03 175	27.960 126	21.76 65	33.632 136	66.57 99	45.448 371	45.23 231
16.6	20.785 119 80	40.28 208	27.865 95 57	20.87 89 114	33.527 105 67	65.27 130 158	45.131 317 250	42.51 272 309
26.6	20.705	38.20 238	27.808	19.73	33.460	63.69	44.881	39.42
11 5.5	20.672 33	35.82 263	27.794 14	18.34 139	33.437 23	61.84 185	44.709 172	36.01 341
15.5	20.690 18	33.19 283	27.829 35	16.73 161	33.462 25	59.75 209	44.622 87	32.37 364
25.5	20.762 72	30.36 296	27.914 85	14.90 183	33.539 77	57.44 231	44.629 7	28.58 379
12 5.5	20.887 125 176	27.40 302	28.049 135 180	12.90 200 213	33.666 127 175	54.97 247 256	44.731 102 195	24.73 385 379
15.4	21.063	24.38	28.229	10.77	33.841	52.41	44.926	20.94
25.4	21.284 221	21.39 299	28.451 222	8.58 219	34.058 217	49.82 259	45.212 286	17.31 363
35.4	21.544 260	18.54 285	28.706 255	6.39 219	34.312 254	47.29 253	45.578 366	13.97 334
平位	s 20.826	″ 30.25	s 27.471	″ 13.28	s 33.293	″ 56.32	s 47.424	″ 30.90
2回正中	5月18日		5月18日		5月19日		5月20日	
a b	+0.1261	−0.0190	+0.1470	−0.0044	+0.1379	−0.0104	+0.0453	−0.0716
a′ b′	−0.5723	+0.8200	−0.5684	+0.8228	−0.5608	+0.8280	−0.5527	+0.8334
FK3番號	581		582		583		587	

星名	ζ UMin				χ Serp				μ Serp				χ Lupi			
等級	4.34				4.28				3.63				4.11			
スペクトル型	A2				K5				A0				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	15 45		+77 57		15 46		+18 18		15 46		− 3 15		15 47		−33 27	
	s		″		s		″		s		″		s		″	
1 0.4	56.928	760	69.97	293	8.657	268	62.61	251	36.934	272	17.34	176	18.051	323	3.10	42
10.4	57.688	900	67.04	245	8.925	291	60.10	229	37.236	291	19.10	172	18.374	346	3.52	66
20.3	58.588	1009	64.59	189	9.216	305	57.81	200	37.527	303	20.82	163	18.720	359	4.18	85
30.3	59.597	1081	62.70	125	9.521	311	55.81	164	37.830	306	22.45	147	19.079	362	5.03	102
2 9.3	60.678	1112	61.45	58	9.832	308	54.17	122	38.136	302	23.92	127	19.441	358	6.05	113
19.3	61.790	1104	60.87	9	10.140	298	52.95	77	38.438	291	25.19	102	19.799	346	7.18	122
3 1.2	62.894	1058	60.93	76	10.438	283	52.18	30	38.729	277	26.21	75	20.145	330	8.40	127
11.2	63.952	975	61.72	138	10.721	263	51.88	16	39.006	258	26.96	48	20.475	308	9.67	128
21.2	64.927	859	63.10	194	10.984	239	52.04	58	39.264	237	27.44	21	20.783	285	10.95	128
31.1	65.786	720	65.04	240	11.223	214	52.62	97	39.501	214	27.65	5	21.068	258	12.23	126
4 10.1	66.506		67.44	277	11.437	185	53.59	130	39.715	188	27.60	27	21.326	229	13.49	123
20.1	67.065	559	70.21	302	11.622	156	54.89	156	39.903	163	27.33	46	21.555	200	14.72	117
30.1	67.451	386	73.23	317	11.778	126	56.45	174	40.066	132	26.87	60	21.755	167	15.89	113
5 10.0	67.657	206	76.40	319	11.904	94	58.19	185	40.201	135	26.27	71	21.922	133	17.02	107
20.0	67.679	22	79.59	312	11.993	61	60.04	190	40.308	107	25.56	78	22.055	96	18.09	100
		156								76						
29.9	67.523		82.71		12.059		61.94		40.384		24.78		22.151		19.09	
6 8.9	67.194	329	85.66	295	12.088	29	63.82	188	40.431	47	23.97	81	22.210	59	20.00	91
18.9	66.708	486	88.34	268	12.085	3	65.61	179	40.446	15	23.16	81	22.230	20	20.82	82
28.9	66.075	633	90.69	235	12.048	37	67.27	166	40.429	17	22.38	78	22.211	19	21.52	70
7 8.9	65.315	760	92.65	196	11.980	68	68.75	148	40.381	48	21.64	74	22.154	57	22.09	57
		867		151		97		127		78		67		94		42
18.8	64.448		94.16		11.883	124	70.02	102	40.303	104	20.97	60	22.060	128	22.51	25
28.8	63.493	955	95.18	102	11.759	147	71.04	76	40.199	128	20.37	50	21.932	157	22.76	7
8 7.8	62.472	1021	95.70	52	11.612	165	71.80	47	40.071	147	19.87	41	21.775	178	22.83	11
17.8	61.413	1059	95.70	0	11.447	176	72.27	17	39.924	158	19.46	31	21.597	194	22.72	31
27.7	60.337	1076	95.18	52	11.271	180	72.44	14	39.766	164	19.15	18	21.403	198	22.41	48
		1068		103												
9 6.7	59.269	1033	94.15	154	11.091	176	72.30	45	39.602	160	18.97	6	21.205	194	21.93	66
16.7	58.236	971	92.61	201	10.915	163	71.85	77	39.442	147	18.91	9	21.011	177	21.27	79
26.7	57.265	885	90.60	246	10.752	142	71.08	108	39.295	125	19.00	26	20.834	150	20.48	89
10 6.6	56.380	772	88.14	284	10.610	111	70.00	140	39.170	96	19.26	42	20.684	112	19.59	95
16.6	55.608	636	85.30	320	10.499	73	68.60	170	39.074	57	19.68	63	20.572	66	18.64	95
26.6	54.972	478	82.10		10.426		66.90		39.017		20.31		20.506		17.69	
11 5.5	54.494	301	78.63	347	10.398	28	64.93	197	39.004	13	21.13	82	20.494	12	16.79	90
15.5	54.193	111	74.95	368	10.418	20	62.70	223	39.039	35	22.17	104	20.540	46	16.00	79
25.5	54.082	88	71.16	379	10.490	72	60.26	244	39.126	87	23.41	124	20.646	106	15.36	64
12 5.5	54.170	287	67.35	381	10.612	122	57.66	260	39.261	135	24.83	142	20.811	165	14.93	43
				372		171		268		181		159		219		20
15.4	54.457	481	63.63		10.783	215	54.98	270	39.442	223	26.42	171	21.030	267	14.73	6
25.4	54.938	661	60.11	352	10.998	252	52.28	262	39.665	257	28.13	177	21.297	306	14.79	30
35.4	55.599		56.90	321	11.250		49.66		39.922		29.90		21.603		15.09	
平位	s 62.850		″ 74.59		s 10.320		″ 59.13		s 38.537		″ 25.81		s 19.766		″ 18.47	
2回正中	5月20日				5月20日				5月20日				5月20日			
a b	− 0.1076		− 0.1726		+ 0.1349		− 0.0122		+ 0.1565		+ 0.0021		+ 0.1902		+ 0.0241	
a′ b′	− 0.5518		+ 0.8340		− 0.5513		+ 0.8343		− 0.5496		+ 0.8354		− 0.5471		+ 0.8371	
FK3番號	590				584				585				586			

星名	ε Serp				β TriA				γ Serp				ε CorB			
等級	3.75				3.04				3.86				4.22			
スペクトル型	A2				F0				F5				K0			
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	15 47		+ 4 38		15 50		− 63 15		15 53		+15 50		15 55		+27 2	
	s		″		s		″		s		″		s		″	
1 0.4	56.720	267	59.42	205	3.302		4.19	89	47.399	262	51.14	247	11.755	267	32.38	276
10.4	56.987	288	57.37	196	3.834	532	3.30	46	47.661	286	48.67	229	12.022	294	29.60	249
20.3	57.275	300	55.41	178	4.412	578	2.84	4	47.947	301	46.38	202	12.316	311	27.11	214
30.3	57.575	304	53.63	155	5.019	607	2.80	39	48.248	307	44.36	168	12.627	320	24.97	170
2 9.3	57.879	300	52.08	126	5.638	619	3.19	79	48.555	306	42.68	128	12.947	321	23.27	122
19.3	58.179		50.82		6.255	603	3.98		48.861		41.40		13.268		22.05	
3 1.2	58.470	291	49.89	93	6.858	579	5.14	116	49.159	298	40.54	86	13.581	313	21.35	70
11.2	58.746	276	49.30	59	7.437	543	6.63	149	49.442	283	40.13	41	13.880	299	21.19	16
21.2	59.003	257	49.05	25	7.980	502	8.41	178	49.707	265	40.16	3	14.159	279	21.54	35
31.1	59.239	236	49.14	9	8.482	453	10.44	203	49.950	243	40.61	45	14.414	255	22.38	84
		213		41				224		219		82		228		128
4 10.1	59.452		49.55		8.935		12.68		50.169		41.43		14.642		23.66	
20.1	59.639	187	50.21	66	9.334	399	15.08	240	50.361	192	42.58	115	14.840	198	25.30	164
30.1	59.799	160	51.09	88	9.674	340	17.59	251	50.525	164	43.99	141	15.006	166	27.23	193
5 10.0	59.931	132	52.14	105	9.949	275	20.17	258	50.659	134	45.59	160	15.139	133	29.37	214
20.0	60.035	104	53.30	116	10.156	207	22.76	259	50.762	103	47.31	172	15.237	98	31.63	226
		73		122		134		255		71		176		63		230
29.9	60.108		54.52		10.290		25.31		50.833		49.07		15.300		33.93	
6 8.9	60.151	43	55.76	124	10.351	61	27.78	247	50.872	39	50.83	176	15.328	28	36.20	227
18.9	60.162	11	56.96	120	10.335	16	30.10	232	50.879	7	52.52	169	15.319	9	38.35	215
28.9	60.142	20	58.10	114	10.245	90	32.22	212	50.852	27	54.10	158	15.275	44	40.35	200
7 8.9	60.091	51	59.15	105	10.081	164	34.08	186	50.793	59	55.51	141	15.198	77	42.12	177
		81		91		231		155		89		121		110		150
18.8	60.010		60.06		9.850		35.63		50.704		56.72		15.088		43.62	
28.8	59.903	107	60.85	79	9.559	291	36.82	119	50.587	117	57.71	99	14.949	139	44.83	121
8 7.8	59.772	131	61.47	62	9.217	342	37.62	80	50.446	141	58.45	74	14.786	163	45.70	87
17.8	59.623	149	61.92	45	8.838	379	37.98	36	50.287	159	58.93	48	14.603	183	46.23	53
27.7	59.462	161	62.20	28	8.436	402	37.91	7	50.114	173	59.12	19	14.408	195	46.40	17
		165		8		408		51		177		9		200		21
9 6.7	59.297		62.28		8.028		37.40		49.937		59.03		14.208		46.19	
16.7	59.135	162	62.16	12	7.633	395	36.45	95	49.762	175	58.64	39	14.010	198	45.60	59
26.7	58.985	150	61.82	34	7.270	363	35.10	135	49.599	163	57.95	69	13.825	185	44.64	96
10 6.6	58.856	129	61.27	55	6.957	313	33.41	169	49.456	143	56.96	99	13.661	164	43.31	133
16.6	58.756	100	60.48	79	6.713	244	31.42	199	49.342	114	55.67	129	13.527	134	41.62	169
		61		103		162		219		76		159		95		203
26.6	58.695		59.45		6.551		29.23		49.266		54.08		13.432		39.59	
11 5.5	58.677	18	58.19	126	6.485	66	26.93	230	49.233	33	52.22	186	13.383	49	37.25	234
15.5	58.706	29	56.70	149	6.521	36	24.60	233	49.249	16	50.10	212	13.384	1	34.65	260
25.5	58.786	80	55.01	169	6.663	142	22.36	224	49.315	66	47.78	232	13.438	54	31.83	282
12 5.5	58.915	129	53.13	188	6.907	244	20.28	208	49.432	117	45.28	250	13.546	108	28.86	297
		176		201		340		182		165		259		160		303
15.4	59.091		51.12		7.247	427	18.46	149	49.597	209	42.69	263	13.706	206	25.83	302
25.4	59.308	217	49.03	209	7.674	497	16.97	112	49.806	245	40.06	257	13.912	248	22.81	291
35.4	59.559	251	46.92	211	8.171		15.85		50.051		37.49		14.160		19.90	
平位	s 58.314		″ 52.81		s 5.965		″ 24.53		s 49.069		″ 46.93		s 13.535		″ 30.39	
2回正中	5月20日				5月21日				5月22日				5月22日			
a b	+ 0.1488		− 0.0030		+ 0.2649		+ 0.0710		+ 0.1372		− 0.0099		+ 0.1242		− 0.0176	
a′ b′	− 0.5447		+ 0.8386		− 0.5369		+ 0.8436		− 0.5232		+ 0.8522		− 0.5179		+ 0.8554	
FK3番號	588				589				591				593			

星名		π Scor		Grb 2296 Drac		δ Scor		ϑ Drac	
等級	スペクトル型	3.00	B2	4.96	A5	2.54	B0	4.11	F8
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 15 55	° ′ −25 53	h m 15 56	° ′ +54 54	h m 15 53	° ′ −22 27	h m 16 0	° ′ +58 42
		s	″	s	″	s	″	s	″
1	0.4	22.203	51.87	23.512	34.11	55.819	26.94	46.238	58.58
	10.4	22.501 298	52.59 72	23.847 335	30.95 316	56.108 289	27.81 87	46.589 351	55.39 319
	20.3	22.822 321	53.46 87	24.230 383	28.21 274	56.420 312	28.81 100	46.994 405	52.63 276
	30.3	23.155 333	54.47 101	24.648 418	25.98 223	56.745 325	29.90 109	47.441 447	50.37 226
2	9.3	23.493 338	55.55 108	25.089 441	24.33 165	57.075 330	31.04 114	47.916 475	48.72 165
		335	112	448	101	326	114	486	102
	19.3	23.828	56.67	25.537	23.32	57.401	32.18	48.402	47.70
3	1.2	24.154 326	57.80 113	25.979 442	22.98 34	57.719 318	33.29 111	48.884 482	47.37 33
	11.2	24.465 311	58.90 110	26.404 425	23.30 32	58.023 304	34.33 104	49.349 465	47.70 33
	21.2	24.757 292	59.95 105	26.800 396	24.27 97	58.309 286	35.28 95	49.784 435	48.68 98
	31.1	25.028 271	60.92 97	27.158 358	25.80 153	58.574 265	35.13 85	50.177 393	50.26 158
		248	90	312	206	242	75	343	209
4	10.1	25.276	61.82 83	27.470	27.86 246	58.816	35.88 64	50.520 286	52.35 254
	20.1	25.497 221	62.65 74	27.739 260	30.32 278	59.033 217	37.52 55	50.803 224	54.86 284
	30.1	25.691 194	63.39 67	27.935 205	33.10 300	59.223 190	38.07 47	51.030 159	57.70 305
5	10.0	25.856 165	64.06 61	28.081 146	35.10 309	59.385 162	38.54 39	51.189 91	60.75 316
	20.0	25.990 134	64.67 53	28.168 87	39.19 309	59.517 132	38.93 33	51.280 23	63.91 315
		100		26		99			
	29.9	26.090	65.20	28.194	42.28	59.616	39.26	51.303 43	67.06
6	8.9	26.155 65	65.68 48	28.161 33	45.26 298	59.682 66	39.53 27	51.260 107	70.12 306
	18.9	26.185 30	66.08 40	28.071 90	48.06 280	59.712 30	39.74 21	51.153 168	72.98 286
	28.9	26.177 8	66.41 33	27.926 145	50.59 253	59.707 5	39.89 15	50.985 224	75.57 259
7	8.9	26.134 43	66.66 25	27.732 194	52.79 220	59.637 40	39.98 9	50.761 274	77.83 226
		79	16	240	180	75	3		186
	18.8	26.055	66.82 6	27.492	54.59	59.592	40.01	50.487	79.69
	28.8	25.944 111	66.88 5	27.214 278	55.96 137	59.485 107	39.95 5	50.169 318	81.11 142
8	7.8	25.804 140	66.83 17	26.903 311	56.87 91	59.351 134	39.84 12	49.816 353	82.05 94
	17.8	25.643 161	66.66 28	26.569 334	57.29 42	59.195 156	39.63 21	49.437 379	82.50 45
	27.7	25.466 177	66.38 39	26.220 349	57.21 8	59.024 171	39.35 28	49.041 396	82.44 6
		183		352	59	178	36	400	57
9	6.7	25.283 180	65.99 48	25.868 346	56.62 109	58.846 175	38.99 41	48.641 393	81.87 109
	16.7	25.103 167	65.51 55	25.522 326	55.53 158	58.671 163	38.58 46	48.248 373	80.78 158
	26.7	24.936 143	64.93 60	25.196 296	53.95 204	58.508 140	38.12 46	47.875 341	79.20 205
10	6.6	24.793 110	64.33 59	24.900 253	51.91 247	58.368 108	37.66 44	47.534 295	77.15 249
	16.6	24.683 68	63.77 56	24.647 201	49.44 287	58.260 67	37.22 38	47.239 238	74.66 289
	26.6	24.615 18	63.21 48	24.446 137	46.57 320	58.193 19	36.84 28	47.001 170	71.77 323
11	5.5	24.597 36	62.73 35	24.309 67	43.37 347	58.174 33	36.56 14	46.831 94	68.54 350
	15.5	24.633 92	62.38 18	24.242 8	39.90 366	58.207 88	36.42 3	46.737 12	65.04 369
	25.5	24.725 147	62.20 0	24.250 86	36.24 375	58.295 142	36.45 22	46.725 72	61.35 379
12	5.5	24.872 198	62.20 22	24.336 163	32.49 375	58.437 191	36.67 42	46.797 157	57.56 378
	15.4	25.070 243	62.42 42	24.499 235	28.74 362	58.623 237	37.09 61	46.954 238	53.78 366
	25.4	25.313 281	62.84 63	24.734 301	25.12 339	58.865 273	37.70 80	47.192 312	50.12 342
	35.4	25.594	63.47	25.035	21.73	59.138	38.50	47.504	46.70
平位		s 23.892	″ 65.43	s 25.017	″ 36.39	s 57.490	″ 39.77	s 48.970	″ 60.98
2回正中		5月22日		5月22日		5月22日		5月23日	
a	b	+0.1811	+0.0168	+0.0719	−0.0487	+0.1770	−0.0141	+0.0581	−0.0545
a′	b′	−0.5173	+0.8558	−0.5134	+0.8581	−0.5115	+0.8593	−0.4939	+0.8678
FK3番號		592		595		594		598	

星名		β Scor *pr*		δ Norm		ϑ Lupi		φ Herc	
等級	スペクトル型	2.90	B1	4.84	A3p	4.33	B3	4.26	B9p
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 16 2	° ′ −19 38	h m 16 2	° ′ −45 0	h m 16 2	° ′ −35 38	h m 16 6	° ′ +45 4
		s	″	s	″	s	″	s	″
1	0.4	5.410	51.43	25.189	56.05	48.659	40.36	53.118	59.89
	10.4	5.691 281	52.40 97	25.547 358	55.81 24	48.981 322	40.51 15	55.403 285	56.74 315
	20.3	5.995 304	53.48 108	25.935 388	55.87 6	49.330 349	40.90 39	56.728 325	53.96 278
	30.3	6.312 317	54.62 114	26.342 407	56.22 35	49.695 365	41.51 61	57.081 353	51.63 233
2	9.3	6.635 323	55.77 115	26.758 416	56.83 61	50.068 373	42.31 80	57.453 372	49.83 180
		321	113	414	84	371	95	378	121
	19.3	6.956	56.90	27.172	57.67	50.439	43.25	57.831	48.62
3	1.2	7.269 313	57.93 106	27.578 406	53.73 106	50.801 362	44.33 107	58.205 374	48.05 57
	11.2	7.570 301	58.93 97	27.969 391	59.96 123	51.150 349	45.48 115	58.567 362	48.11 6
	21.2	7.853 283	59.79 86	28.338 369	61.32 136	51.479 329	46.70 122	58.907 340	48.78 67
	31.2	8.116 263	60.52 73	28.682 344	62.80 148	51.786 307	47.94 124	59.218 311	50.03 125
		241	60	316	156	281	127	278	176
4	10.1	8.357	61.12	28.998	64.36	52.037	49.21	59.493	51.79
	20.1	8.575 218	61.60 48	29.281 283	65.93 162	52.321 254	50.47 126	59.734 238	53.98 219
	30.1	8.766 191	61.93 38	29.530 249	67.63 165	52.544 223	51.72 125	59.930 196	56.49 251
5	10.0	8.930 164	62.27 29	29.741 211	69.30 167	52.735 191	52.93 124	60.082 152	59.25 276
	20.0	9.064 134	62.48 21	29.911 170	70.95 165	52.891 156	54.15 119	60.187 105	62.13 288
		103	14	127	162	117	115	57	292
	29.9	9.167	62.62	30.038	72.57	53.008	55.30	60.244	65.05
6	8.9	9.235 69	62.72 10	30.119 81	74.11 154	53.086 78	56.38 108	60.254 10	67.91 286
	18.9	9.271 35	62.77 5	30.152 33	75.53 145	53.123 37	57.38 100	60.217 37	70.63 272
	28.9	9.271 0	62.78 1	30.137 15	76.88 132	53.117 6	58.28 90	60.134 83	73.12 249
7	8.9	9.235 36	62.75 3	30.075 62	78.02 114	53.069 48	59.04 76	60.009 125	75.33 221
		70	7	108	95	88	62	166	186
	18.9	9.165	62.68	29.937	78.97	52.981	59.66	59.843	77.19
	28.8	9.034 101	62.56 12	29.816 151	79.69 72	52.856 125	60.10 44	59.642 201	78.66 147
8	7.8	8.934 130	62.38 18	29.629 187	80.14 45	52.698 158	60.34 24	59.411 231	79.71 105
	17.8	8.783 151	62.16 22	29.413 216	80.32 18	52.513 185	60.39 5	59.156 255	80.32 61
	27.7	8.615 168	61.89 27	29.178 235	80.21 11	52.311 202	60.21 18	58.886 270	80.46 14
		175	32	244	41	210	38	278	34
9	6.7	8.440	61.57	28.934	79.80	52.101	59.83	58.608	80.12
	16.7	8.267 173	61.23 34	28.693 241	79.12 68	51.893 208	59.24 59	58.334 274	79.32 80
	26.7	8.105 162	60.87 36	28.469 224	78.18 94	51.699 194	58.47 77	58.073 261	78.04 128
10	6.6	7.934 141	60.52 35	28.274 195	77.02 116	51.530 169	57.56 91	57.835 238	76.31 173
	16.6	7.854 110	60.21 31	28.121 153	75.69 133	51.398 132	56.55 101	57.632 203	74.16 215
		70	23	100	144	85	106	160	255
	26.6	7.784	59.98	28.021	74.25	51.313	55.49	57.472	71.61
11	5.6	7.760 24	59.87 11	27.981 40	72.77 148	51.282 31	54.45 104	57.365 107	68.71 290
	15.5	7.788 28	59.89 2	28.009 28	71.33 144	51.311 29	53.47 98	57.316 49	65.52 319
	25.5	7.869 81	60.08 19	28.106 97	69.99 134	51.401 90	52.61 86	57.331 15	62.11 341
12	5.5	8.002 133	60.46 38	28.272 166	68.81 118	51.553 152	51.93 68	57.410 79	58.57 354
		183	57	230	95	209	46	144	358
	15.4	8.185	61.03	28.502	67.86	51.762	51.47	57.554	54.99
	25.4	8.413 228	61.78 75	28.789 287	67.17 69	52.022 260	51.24 23	57.758 204	51.47 352
	35.4	8.677 264	62.69 91	29.125 336	66.76 41	52.325 303	51.25 2	58.016 258	48.13 334
平位		s 7.090	″ 63.49	s 27.210	″ 73.05	s 50.517	″ 55.84	s 58.275	″ 60.34
2回正中		5月24日		5月24日		5月24日		5月25日	
a	b	+0.1741	+0.0117	+0.2115	+0.0327	+0.1936	+0.0243	+0.0944	−0.0317
a′	b′	−0.4920	+0.8706	−0.4907	+0.8713	−0.4892	+0.8722	−0.4734	+0.8808
FK3番號		597		596		599		601	

星名		χ Norm		δ TriA		δ Ophi		19 UMin	
等級	スペクトル型	5.09	K0	4.03	G0	3.03	M0	5.51	B8
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 16 8	° ′ −54 23	h m 16 10	° ′ −63 32	h m 16 11	° ′ −3 32	h m 16 12	° ′ +76 1
		s	″	s	″	s	″	s	″
1	0.4	55.831	48.00	10.924	13.35	19.653	47.97	19.855	16.12
	10.4	56.244 413	47.26 74	11.436 512	12.21 114	19.908 255	49.65 168	20.438 582	12.95 317
	20.3	56.696 452	46.87 39	12.000 564	11.47 74	20.187 279	51.30 165	21.154 716	10.21 274
	30.3	57.173 477	46.84 3	12.601 601	11.14 33	20.480 293	52.86 156	21.980 826	7.99 222
2	9.3	57.655 492	47.16 32	13.222 621	11.22 8	20.781 301	54.28 142	22.885 905	6.37 162
		493	63	626	48	301	122	951	97
	19.3	58.158	47.79	13.848	11.70	21.082	55.50	23.836	5.40
3	1.2	58.644 486	48.72 93	14.467 619	12.55 85	21.377 295	56.48 98	24.799 963	5.10 30
	11.2	59.114 470	49.91 119	15.068 601	13.74 119	21.662 285	57.20 72	25.740 941	5.49 39
	21.2	59.561 447	51.34 143	15.640 572	15.25 151	21.931 269	57.64 44	26.629 889	6.53 104
	31.2	59.979 418	52.96 162	16.175 535	17.02 177	22.182 251	57.81 17	27.436 807	8.16 163
		384	179	491	200	231	8	700	215
4	10.1	60.363	54.75	16.666	19.02	22.413	57.73	28.136	10.31
	20.1	60.709 346	56.67 192	17.106 440	21.22 220	22.622 209	57.42 31	28.710 574	12.88 257
	30.1	61.013 304	58.69 202	17.490 384	23.57 235	22.805 184	56.92 50	29.144 434	15.78 290
5	10.0	61.270 257	60.77 208	17.811 321	26.02 245	22.964 158	56.28 64	29.428 284	18.89 311
	20.0	61.477 207	62.88 211	18.064 253	28.53 251	23.095 131	55.53 75	29.556 128	22.10 321
		151	209	181	251	100	82	27	321
	29.9	61.628	64.97	18.245	31.04	23.195	54.71	29.529	25.31
6	8.9	61.724 96	67.01 204	18.350 105	33.51 247	23.264 69	53.86 85	29.349 180	28.41 310
	18.9	61.760 36	68.95 194	18.376 26	35.87 236	23.300 36	53.02 84	29.025 324	31.31 290
	28.9	61.736 24	70.74 179	18.324 52	38.07 220	23.302 2	52.21 81	28.566 459	33.93 262
7	8.9	61.653 83	72.34 160	18.194 130	40.05 198	23.271 31	51.45 76	27.985 581	36.20 227
		139	136	202	171	63	69	689	187
	18.9	61.514	73.70	17.992	41.76	23.208	50.76	27.296	38.07
	28.8	61.323 191	74.77 107	17.723 269	43.13 137	23.114 94	50.15 61	26.517 779	39.48 141
8	7.8	61.087 236	75.53 76	17.396 327	44.14 101	22.994 120	49.63 52	25.655 852	40.41 93
	17.8	60.816 271	75.95 42	17.024 372	44.73 59	22.851 143	49.22 41	24.763 902	40.84 43
	27.7	60.519 297	75.99 4	16.623 401	44.90 17	22.692 159	48.92 30	23.828 935	40.75 9
		307	33	416	29	168	19	943	62
9	6.7	60.212	75.66	16.207	44.61	22.524	48.73	22.885	40.13
	16.7	59.908 304	74.97 69	15.799 408	43.89 72	22.356 168	48.67 6	21.957 928	39.01 112
	26.7	59.623 285	73.93 104	15.412 387	42.75 114	22.197 159	48.74 7	21.067 890	37.38 163
10	6.6	59.372 251	72.58 135	15.071 341	41.23 152	22.057 140	48.97 23	20.238 829	35.28 210
	16.6	59.170 202	70.99 159	14.793 278	39.39 184	21.944 113	49.37 40	19.496 742	32.75 253
		140	179	198	209	78	58	634	293
	26.6	59.030	69.20	14.595	37.30	21.866	49.95	18.862	29.82
11	5 6	58.953 67	67.31 189	14.489 106	35.05 225	21.831 35	50.73 78	18.357 505	26.56 326
	15.5	58.975 12	65.39 192	14.484 5	32.72 233	21.843 12	51.70 97	18.000 357	23.03 353
	25.5	59.070 95	63.54 185	14.585 101	30.43 229	21.905 62	52.86 116	17.805 195	19.32 371
12	5.5	59.247 177	61.82 172	14.791 206	28.25 218	22.016 111	54.21 135	17.781 24	15.52 380
		255	151	306	197	160	151	153	377
	15.4	59.502	60.31	15.097	26.28	22.176	55.72	17.934	11.75
	25.4	59.827 325	59.07 124	15.493 396	24.60 168	22.378 202	57.34 162	18.259 325	8.10 365
	35.4	60.212 385	58.15 92	15.937 474	23.25 135	22.616 238	59.03 169	18.748 489	4.69 341
平位		s 58.221	″ 66.14	s 13.879	″ 32.56	s 21.321	″ 56.51	s 25.163	″ 18.78
2回正中		5月25日		5月26日		5月26日		5月26日	
a	b	+0.2330	+0.0435	+0.2722	+0.0617	+0.1570	+0.0019	−0.0855	−0.1212
a′	b′	−0.4657	+0.8849	−0.4609	+0.8875	−0.4565	+0.8897	−0.4524	+0.8918
FK3番號		600		602		603		606	

星名		ε Ophi		γ² Norm		σ Scor		τ Herc	
等級	スペクトル型	3.34	K0	4.14	K0	3.03	B1	3.91	B5
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 16 15	° ′ −4 33	h m 16 15	° ′ −50 0	h m 16 17	° ′ −25 27	h m 16 17	° ′ +46 26
		s	″	s	″	s	″	s	″
1	0.4	16.446	9.29	31.613	46.50	41.333	14.83	59.278	53.62
	10.4	16.699 253	10.91 162	31.987 374	45.90 60	41.614 281	15.42 59	59.554 276	50.41 321
	20.4	16.976 277	12.51 160	32.397 410	45.62 28	41.920 306	16.16 74	59.873 319	47.54 287
	30.3	17.269 293	14.03 152	32.832 435	45.65 3	42.244 324	17.01 85	60.224 351	45.12 242
2	9.3	17.570 301	15.41 138	33.279 447	45.99 34	42.576 332	17.93 92	60.596 372	43.22 190
		301	120	451	62	333	96	383	130
	19.3	17.871	16.61	33.730	46.61	42.909	18.89	60.979	41.92
3	1.2	18.168 297	17.58 97	34.175 445	47.48 87	43.237 328	19.84 95	61.361 382	41.25 67
	11.2	18.453 285	18.29 71	34.606 431	48.57 109	43.554 317	20.77 93	61.732 371	41.22 3
	21.2	18.725 272	18.74 45	35.018 412	49.86 129	43.856 302	21.64 87	62.084 352	41.82 60
	31.2	18.979 254	18.93 19	35.404 386	51.31 145	44.140 284	22.45 81	62.410 326	43.01 119
		235	6	358	160	263	74	292	171
4	10.1	19.214	18.87	35.762	52.91	44.403	23.19	62.702	44.72
	20.1	19.426 212	18.60 27	36.086 324	54.61 170	44.644 241	23.86 67	62.957 255	46.88 216
	30.1	19.615 189	18.14 46	36.373 287	56.38 177	44.858 214	24.46 60	63.168 211	49.39 251
5	10.1	19.777 162	17.53 61	36.619 246	58.22 184	45.045 187	25.01 55	63.335 167	52.17 278
	20.0	19.912 135	16.82 71	36.820 201	60.08 186	45.201 156	25.51 50	63.454 119	55.09 292
		105	77	153	184	124	45	70	297
	29.9	20.017	16.05 81	36.973	61.92	45.325	25.96	63.524	58.06
6	8.9	20.090 73	15.24 80	37.075 102	63.73 181	45.413 88	26.37 41	63.545 21	60.99 293
	18.9	20.131 41	14.44 78	37.124 49	65.45 172	45.465 52	26.74 37	63.516 29	63.80 281
	28.9	20.137 6	13.66 72	37.118 6	67.04 159	45.477 12	27.05 31	63.440 76	66.39 259
7	8.9	20.110 27	12.94 72	37.057 61	68.48 144	45.452 25	27.32 27	63.318 122	68.70 231
		60	66	112	122	62	19	165	199
	18.9	20.050	12.28	36.945	69.70	45.390	27.51	63.153	70.69
	28.8	19.958 92	11.69 59	36.784 161	70.68 98	45.292 98	27.63 12	62.950 203	72.28 159
8	7.8	19.839 119	11.19 50	36.581 203	71.38 70	45.163 129	27.66 3	62.714 236	73.46 118
	17.8	19.697 142	10.78 41	36.343 238	71.77 39	45.007 156	27.60 6	62.453 261	74.18 72
	27.8	19.539 158	10.47 31	36.081 262	71.84 7	44.833 174	27.43 17	62.173 280	74.44 26
		168	19	274	27	185	27	289	22
9	6.7	19.371	10.28	35.807	71.57	44.648	27.16	61.884	74.22
	16.7	19.203 168	10.19 9	35.533 274	70.97 60	44.462 186	26.80 36	61.596 288	73.52 70
	26.7	19.042 161	10.24 5	35.274 259	70.06 91	44.286 176	26.37 43	61.319 277	72.34 118
10	6.6	18.900 142	10.43 19	35.045 229	68.88 118	44.129 157	25.88 49	61.064 255	70.70 164
	16.6	18.784 116	10.78 35	34.859 186	67.47 141	44.003 126	25.38 50	60.842 222	68.62 208
		80	52	131	157	87	48	179	250
	26.6	18.704	11.30	34.728	65.90	43.916	24.90	60.663	66.12
11	5.6	18.666 38	12.01 71	34.662 66	64.23 167	43.876 40	24.47 43	60.536 127	63.27 285
	15.5	18.675 9	12.91 90	34.669 7	62.54 169	43.889 13	24.14 33	60.468 68	60.10 317
	25.5	18.734 59	14.00 109	34.750 81	60.91 163	43.957 68	23.94 20	60.464 4	56.70 340
12	5.5	18.843 109	15.28 128	34.907 157	59.41 150	44.080 123	23.91 3	60.526 62	53.15 355
		157	142	228	130	175	15	127	361
	15.5	19.000	16.70	35.135	58.11	44.255	24.06	60.653	49.54
	25.4	19.199 199	18.25 155	35.428 293	57.06 105	44.477 222	24.39 33	60.843 190	45.98 356
	35.4	19.435 236	19.87 162	35.775 347	56.29 77	44.740 263	24.91 52	61.090 247	42.58 340
平位		s 18.128	″ 18.03	s 33.887	″ 63.63	s 43.133	″ 27.67	s 61.501	″ 53.65
2回正中		5月27日		5月27日		5月28日		5月28日	
a	b	+0.1581	+0.0023	+0.2247	+0.0350	+0.1820	+0.0137	+0.0900	−0.0302
a′	b′	−0.4411	+0.8975	−0.4401	+0.8980	−0.4316	+0.9021	−0.4304	+0.9026
FK3番號		605		604		607		608	

星名	η UMin		γ Herc		ζ TriA		ω Herc	
等級	5.04		3.79		4.93		4.53	
スペクトル型	F0		F0		G0		A0p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 19	° ′ +75 53	h m 16 19	° ′ +19 17	h m 16 22	° ′ −69 57	h m 16 22	° ′ +14 9
1 −0.4	s 3.278	″ 12.54	s 22.439	″ 12.80	s 14.848	″ 12.41	s 45.230	″ 52.60
10.4	3.831 553	9.33 321	22.682 243	10.23 257	15.467 619	10.88 153	45.470 240	50.21 239
20.4	4.521 690	6.53 280	22.953 271	7.85 238	16.160 693	9.75 113	45.737 267	47.97 224
30.3	5.323 802	4.24 229	23.243 290	5.74 211	16.908 748	9.06 69	46.023 286	45.97 200
2 9.3	6.209 886	2.54 170	23.545 302	4.00 174	17.690 782	8.81 25	46.319 296	44.27 170
	935	106	305	134	797	18	301	133
19.3	7.144	1.48	23.850 302	2.66 89	18.487 795	8.99 61	46.620 297	42.94 92
3 1.2	8.097 953	1.10 38	24.152 292	1.77 40	19.282 778	9.60 101	46.917 288	42.02 48
11.2	9.034 937	1.40 30	24.444 278	1.37 7	20.060 747	10.61 137	47.205 275	41.54 5
21.2	9.923 889	2.36 96	24.722 260	1.44 52	20.807 704	11.98 169	47.480 257	41.49 37
31.2	10.734 811	3.91 155	24.982 238	1.93 94	21.511 651	13.67 199	47.737 237	41.86 75
	711	210						
4 10.1	11.445	6.01	25.220 213	2.90 129	22.162 586	15.66 224	47.974 214	42.61 108
20.1	12.084 452	8.54 253	25.433 186	4.19 159	22.748 514	17.90 244	48.188 189	43.69 137
30.1	12.486	11.40 286	25.619 156	5.78 181	23.262 432	20.34 259	48.377 160	45.06 157
5 10.1	12.791 305	14.50 310	25.775 126	7.59 196	23.694 344	22.93 270	48.537 131	46.63 172
20.0	12.942 151	17.71 321	25.901 93	9.55 203	24.038 248	25.63 273	48.668 100	48.35 179
	2	323						
30.0	12.940 154	20.94	25.994 58	11.58 203	24.286 147	28.36 272	48.768 66	50.14 180
6 8.9	12.786 299	24.07 313	26.052 24	13.61 197	24.433 44	31.08 265	48.834 33	51.94 176
18.9	12.487 435	27.02 295	26.076 12	15.58 185	24.477 61	33.73 249	48.867 3	53.70 166
28.9	12.052 560	29.71 269	26.054 47	17.43 168	24.416 164	36.22 229	48.864 37	55.36 151
7 8.9	11.492 667	32.03 235	26.017 80	19.11 148	24.252 261	38.51 201	48.827 71	56.87 134
		196						
18.9	10.825 762	34.02	25.937 112	20.59 123	23.991 350	40.52 168	48.756 103	58.21 113
28.8	10.063 838	35.53 151	25.825 140	21.82 96	23.641 428	42.20 129	48.653 130	59.34 89
8 7.8	9.225 892	35.57 104	25.685 162	22.78 67	23.213 489	43.49 85	48.523 153	60.23 65
17.8	8.333 926	37.10 53	25.523 179	23.45 36	22.724 533	44.34 39	48.370 171	60.88 37
27.8	7.407 940	37.12 2	25.344 189	23.81 5	22.191 554	44.73 10	48.199 180	61.25 10
		51						
9 6.7	6.467	33.61	25.155	23.86	21.637	44.63	48.019	61.35
16.7	5.538 929	35.60 101	24.956 189	23.58 28	21.084 553	44.04 59	47.836 183	61.17 18
26.7	4.643 895	34.08 152	24.784 182	22.97 61	20.559 525	42.98 106	47.661 175	60.69 48
10 6.6	3.805 838	32.08 200	24.619 165	22.03 94	20.087 472	41.48 150	47.502 159	59.91 78
16.6	3.050 755	29.63 245	24.481 138	20.76 127	19.690 397	39.60 188	47.369 133	58.84 107
	650	284	104	158	299	220	100	136
26.6	2.400	26.79	24.377	19.18	19.391	37.40	47.269	57.48
11 5.6	1.875 525	23.59 320	24.315 62	17.29 189	19.207 184	34.98 242	47.211 58	55.85 163
15.5	1.494 381	20.12 347	24.301 14	15.14 215	19.150 57	32.43 255	47.199 12	53.95 190
25.5	1.273 221	16.45 367	24.337 36	12.76 238	19.227 77	29.86 257	47.237 38	51.83 212
12 5.5	1.222 51	12.67 378	24.424 87	10.19 257	19.440 213	27.36 250	47.324 87	49.52 231
	123	378	137	268	342	233	137	243
15.5	1.345	8.89	24.561	7.51	19.782	25.03	47.461	47.09
25.4	1.641 296	5.23 366	24.744 183	4.79 272	20.243 461	22.95 207	47.643 182	44.60 249
35.4	2.101 460	1.79 344	24.938 224	2.12 267	20.809 566	21.22 174	47.864 221	42.13 247
平位	s 8.561	″ 14.71	s 24.207	″ 8.63	s 18.722	″ 31.46	s 46.974	″ 47.44
2回正中	5月28日		5月28日		5月29日		5月29日	
a b	−0.0865	−0.1130	+0.1322	−0.0099	+0.3197	+0.0756	+0.1380	−0.0069
a′ b′	−0.4260	+0.9047	−0.4250	+0.9052	−0.4135	+0.9105	−0.4116	+0.9114
FK3番號	612		609		610		613	

星名	Grb 2343 Drac		† η Drac		γ Apds		α Scor	
等級	5.66		2.89		3.90		1.22	
スペクトル型	A2		G5		K0		M0, 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 23	° ′ +55 19	h m 16 23	° ′ +61 38	h m 16 24	° ′ −78 46	h m 16 25	° ′ −26 18
1 0.4	s 7.727	″ 61.86	s 9.804	″ 32.98	s 31.904	″ 63.84	s 52.643	″ 13.19
10.4	8.026 299	58.54 332	10.137 333	29.64 334	32.914 1010	61.97 187	52.919 276	13.69 50
20.4	8.380 354	55.59 295	10.538 401	26.69 295	34.060 1146	60.54 143	53.223 304	14.33 64
30.3	8.777 397	53.10 249	10.993 455	24.22 247	35.308 1248	59.58 96	53.545 322	15.09 76
2 9.3	9.204 427	51.18 192	11.486 493	22.33 189	36.625 1317	59.10 48	53.877 332	15.92 83
	443	131	515	126	1352	1	334	88
19.3	9.647	49.87	12.001	21.07	37.977	59.11	54.211	16.80
3 1.2	10.094 447	49.23 64	12.522 521	20.48 59	39.334 1357	59.60 49	54.542 331	17.69 89
11.2	10.531 437	49.25 2	13.033 511	20.58 10	40.667 1333	60.54 94	54.863 321	18.56 87
21.2	10.947 416	49.93 68	13.519 486	21.34 76	41.950 1283	61.91 137	55.170 307	19.38 82
31.2	11.332 385	51.23 130	13.937 448	22.72 138	43.158 1208	63.67 176	55.461 291	20.16 78
	345	184	401	193	1115	210	271	71
4 10.1	11.677	53.07	14.338	24.65	44.273	65.77	55.732	20.87
20.1	11.975 298	55.33 231	14.709 341	27.05 240	45.272 999	68.17 240	55.981 249	21.53 66
30.1	12.220 245	58.05 267	14.986 277	29.82 277	46.139 867	70.82 265	56.204 223	22.13 60
5 10.1	12.408 188	60.99 294	15.193 207	32.84 302	46.858 719	73.67 285	56.401 197	22.69 56
20.0	12.537 129	64.09 310	15.326 133	35.02 318	47.416 558	76.64 297	56.567 166	23.20 51
	67	314	58	322	384	305	133	48
30.0	12.604	67.23	15.384	39.24	47.800	79.69	56.700	23.68
6 8.9	12.609 5	70.34 311	15.366 18	42.40 316	48.003 203	82.73 304	56.797 97	24.12 44
18.9	12.555 54	73.30 296	15.276 90	45.41 301	48.021 18	85.70 297	56.857 60	24.53 41
28.9	12.441 114	76.04 274	15.115 161	48.18 277	47.853 168	88.53 283	56.878 21	24.90 37
7 8.9	12.272 169	78.48 244	14.889 226	50.65 247	47.504 349	91.13 260	56.859 19	25.21 31
	220	209	286	210	518	231	56	25
18.9	12.052	80.57	14.603	52.75	46.983	93.44	56.803	25.46
28.8	11.786 266	82.25 168	14.233 340	54.42 167	46.313 673	95.39 195	56.709 94	25.64 18
8 7.8	11.481 305	83.48 123	13.880 383	55.63 121	45.507 806	96.92 153	56.582 127	25.72 8
17.8	11.147 334	84.24 76	13.492 418	56.36 73	44.593 911	97.97 105	56.428 154	25.71 1
27.8	10.791 356	84.50 26	13.021 441	56.57 21	43.613 983	98.51 54	56.254 174	25.60 11
	366	24	452	31	1018	0	187	23
9 6.7	10.425	84.26	12.539	56.26	42.595	98.51	56.067	25.37
16.7	10.059 366	83.50 76	12.118 451	55.44 82	41.581 1014	97.96 55	55.877 190	25.05 32
26.7	9.706 353	82.25 125	11.683 435	54.10 134	40.616 965	95.89 107	55.695 181	24.64 41
10 6.6	9.378 328	80.50 175	11.277 406	52.28 182	39.740 876	95.31 158	55.534 162	24.16 48
16.6	9.088 290	78.30 220	10.916 361	49.99 229	38.995 745	93.30 201	55.401 133	23.65 51
	242	263	306	272	580	237	95	50
26.6	8.846	75.67	10.610	47.27	38.415	90.93	55.306	23.15
11 5.6	8.664 182	72.67 300	10.374 236	44.17 310	38.030 385	88.27 266	55.259 47	22.69 46
15.5	8.549 115	69.35 332	10.217 157	40.77 340	37.862 168	85.45 282	55.263 4	22.31 38
25.5	8.510 39	65.79 356	10.146 71	37.13 364	37.924 62	82.56 289	55.323 60	22.05 26
12 5.5	8.548 38	62.08 371	10.167 21	33.36 377	33.218 294	79.72 284	55.438 115	21.94 11
	116	376	113	382	518	267	168	6
15.5	8.664	58.32	10.280	29.54	38.736	77.05	55.606	22.00
25.4	8.856 192	54.63 369	10.484 204	25.81 373	39.463 727	74.62 243	55.822 216	22.25 25
35.4	9.117 261	51.11 352	10.771 287	22.26 355	40.376 913	72.54 208	56.079 257	22.67 42
平位	s 10.315	″ 62.53	s 12.793	″ 34.15	s 38.366	″ 23.38	s 54.492	″ 25.93
2回正中	5月29日		5月29日		5月29日		5月30日	
a b	+0.0654	−0.0395	+0.0407	−0.0506	+0.4605	+0.1358	+0.1835	+0.0132
a′ b′	−0.4100	+0.9121	−0.4099	+0.9121	−0.4042	+0.9147	−0.3991	+0.9169
FK3番號	614		615		611		616	

本初子午線正中時

星名	β Herc		† λ Ophi *m*		A Drac		σ Herc	
等級 スペクトル型	2.81	K0	3.85	A0	4.98	B8p	4.25	A0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 16 27	° ′ ″ +21 36	h m s 16 28	° ′ ″ +2 6	h m s 16 28	° ′ ″ +68 53	h m s 16 32	° ′ ″ +42 33
1 0.4	44.244	49.16	0.435	33.72	1.228	28.14	13.671	14.29
10.4	44.480 236	46.50 266	0.674 239	31.83 189	1.618 390	24.80 334	13.922 251	11.08 321
20.4	44.746 266	44.04 246	0.939 265	30.01 182	2.102 484	21.84 296	14.213 291	8.17 291
30.3	45.034 288	41.87 217	1.222 283	28.32 169	2.661 559	19.37 247	14.535 322	5.67 250
2 9.3	45.334 300	40.03 181	1.515 293	26.83 149	3.277 616	17.48 189	14.880 345	3.66 201
	307	138	297	124	651	125	355	144
19.3	45.641	38.68	1.812	25.59	3.928 664	16.23	15.235	2.22
3 1.3	45.945 304	37.77 91	2.106 294	24.65 94	4.592 656	15.65 58	15.593 358	1.38 84
11.2	46.242 297	37.35 42	2.591 285	24.02 63	5.248 627	15.76 11	15.944 351	1.17 21
21.2	46.526 284	37.43 8	2.665 274	23.72 30	5.875 627	16.54 78	16.280 336	1.58 41
31.2	46.792 266	37.99 56	2.922 257	23.75 3	6.454 579	17.93 139	16.594 314	2.57 99
	245	99	239	32	515	196	286	153
4 10.1	47.037	38.98	3.161	24.07	6.969	19.89	16.880	4.10
20.1	47.257 220	40.34 136	3.380 219	24.67 60	7.407 438	22.32 243	17.134 254	6.09 199
30.1	47.451 194	42.02 168	3.574 194	25.48 81	7.757 350	25.11 279	17.351 217	8.45 236
5 10.1	47.615 164	43.93 191	3.744 170	26.46 98	8.013 256	28.17 306	17.528 177	11.09 264
20.0	47.748 133	46.00 207	3.886 142	27.57 111	8.168 155	31.38 321	17.662 134	13.91 282
	99	214	112	118	54	325	89	290
30.0	47.847	48.14	3.998	28.75	8.222 48	34.63	17.751	16.81
6 8.9	47.912 65	50.30 216	4.078 80	29.95 120	8.174 146	37.83 320	17.795 44	19.70 289
18.9	47.940 28	52.39 209	4.125 47	31.13 118	8.028 240	40.87 304	17.793 2	22.49 279
28.9	47.932 8	54.37 198	4.137 12	32.26 113	7.788 281	43.68 281	17.745 48	25.11 262
7 8.9	47.888 44	56.17 180	4.115 22	33.31 105	7.461 327	46.18 250	17.653 92	27.48 237
	80	158	56	93	406	211	134	206
18.9	47.808	57.75	4.059	34.24 81	7.055	48.29	17.519	29.54
28.8	47.695 112	59.09 134	3.971 88	35.05 67	6.581 474	49.99 170	17.347 172	31.25 171
8 7.8	47.555 141	60.13 104	3.854 117	35.72 51	6.050 531	51.22 123	17.141 206	32.56 131
17.8	47.390 165	60.87 74	3.713 141	36.23 35	5.474 576	51.95 73	16.908 233	33.45 89
27.8	47.206 184	61.29 42	3.554 159	36.58 17	4.869 605	52.17 22	16.655 253	33.89 44
	193	8	170		619	31	264	2
9 6.7	47.013	61.37	3.384	36.75 0	4.250	51.86	16.391	33.87
16.7	46.816 197	61.11 26	3.210 174	36.75 19	3.632 618	51.03 83	16.124 267	33.38 49
26.7	46.626 190	60.49 62	3.044 166	36.56 40	3.034 598	49.69 134	15.865 259	32.42 96
10 6.7	46.452 174	59.53 96	2.892 152	36.16 60	2.472 562	47.86 183	15.624 241	31.01 141
16.6	46.304 148	58.23 130	2.766 126	35.56 81	1.964 508	45.55 231	15.412 212	29.15 186
	114	163	93		437	273	174	227
26.6	46.190	56.60	2.673	34.75	1.527	42.82	15.238	26.88
11 5.6	46.117 73	54.65 195	2.620 53	33.71 104	1.177 350	39.72 310	15.112 126	24.24 264
15.5	46.091 26	52.43 222	2.613 7	32.46 125	0.926 251	36.30 342	15.040 72	21.27 297
25.5	46.116 25	49.96 247	2.656 43	31.01 145	0.784 142	32.65 365	15.028 12	18.03 324
12 5.5	46.192 76	47.31 265	2.747 91	29.37 164	0.761 23	28.86 379	15.076 48	14.62 341
	127	277	139	178	96	382	111	351
15.5	46.319	44.54	2.886	27.59	0.857	25.04	15.187	11.11
25.4	46.493 174	41.73 281	3.069 183	25.72 187	1.071 214	21.29 375	15.355 168	7.62 349
35.4	46.709 216	38.96 277	3.290 221	23.79 193	1.398 327	17.74 355	15.577 222	4.25 337
平位	s 46.051	″ 45.17	s 2.158	″ 26.29	s 5.002	″ 29.41	s 15.791	″ 13.10
2回正中	5月30日		5月30日		5月30日		5月31日	
a b	+0.1290	−0.0103	+0.1511	−0.0010	−0.0057	−0.0674	+0.0956	−0.0229
a′ b′	−0.3917	+0.9201	−0.3906	+0.9206	−0.3904	+0.9207	−0.3735	+0.9276
FK3番號	618		617		619		621	

本初子午線正中時

星名	τ Scor		Grb 2373 UMin		ζ Ophi		Br 2114 Ophi	
等級 スペクトル型	2.91	B0	6.39	G5	2.70	B0	5.04	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 16 32	° ′ ″ −28 5	h m s 16 32	° ′ ″ +77 33	h m s 16 33	° ′ ″ −10 27	h m s 16 38	° ′ ″ −17 37
1 0.4	17.857	45.35	57.799	38.98	59.248	1.96	14.523	49.80
10.4	18.133 276	45.71 36	58.355 556	35.70 328	59.493 245	3.22 126	14.774 251	50.68 88
20.4	18.436 303	46.23 52	59.074 719	32.80 290	59.765 272	4.51 129	15.052 278	51.63 95
30.3	18.760 324	46.87 64	59.929 855	30.39 241	60.054 289	5.78 127	15.350 298	52.62 99
2 9.3	19.094 334	47.61 74	60.891 962	28.54 185	60.355 301	6.97 119	15.659 309	53.60 98
	339	79	1031	122	304	107	313	93
19.3	19.433	48.40 83	61.922 1064	27.32 56	60.659	8.04 90	15.972	54.53
3 1.3	19.768 335	49.23 82	62.986 1058	26.76 13	60.930 301	8.94 72	16.284 312	55.38 85
11.2	20.096 328	50.05 81	64.044 1017	26.89 78	61.255 295	9.66 51	16.589 305	56.12 74
21.2	20.411 315	50.83 77	65.031 940	27.67 140	61.537 282	10.17 30	16.883 294	56.72 60
31.2	20.710 299	51.63 73	66.001 834	29.07 195	61.806 269	10.47 11	17.162 279	57.19 47
	279				250		263	34
4 10.1	20.989	52.36 69	66.835	31.02 242	62.056	10.58 8	17.425	57.53
20.1	21.247 258	53.05 66	67.537 702	33.44 277	62.287 231	10.50 22	17.667 242	57.74 21
30.1	21.480 233	53.71 62	68.090 553	36.21 304	62.496 209	10.28 34	17.888 221	57.86 12
5 10.1	21.686 206	54.33 58	68.479 389	39.25 318	62.680 184	9.94 42	18.083 195	57.89 3
20.0	21.861 175	54.91 57	68.695 216	42.43 323	62.836 156	9.52 49	18.250 167	57.85 4
	141		41		127		137	7
30.0	22.002	55.48	68.736	45.66	62.963	9.03	18.387	57.78
6 8.9	22.108 106	56.01 53	68.602 134	48.83 317	63.057 94	8.52 51	18.491 104	57.68 10
18.9	22.175 67	56.52 51	68.301 301	51.85 302	63.117 60	8.00 52	18.559 68	57.56 12
28.9	22.202 27	56.98 46	67.840 461	54.63 278	63.142 25	7.50 50	18.590 31	57.45 11
7 8.9	22.189 13	57.39 41	67.234 606	57.10 247	63.131 11	7.02 48	18.583 7	57.33 12
	54	35	736	210	47	44	44	12
18.9	22.135	57.74	66.498	59.20	63.084	6.58	18.539	57.21
28.8	22.044 91	58.00 26	65.649 849	60.87 167	63.003 81	6.19 39	18.460 79	57.08 13
8 7.8	21.918 126	58.17 17	64.706 943	62.09 122	62.892 111	5.84 35	18.347 113	56.95 13
17.8	21.764 154	58.23 6	63.695 1011	62.81 72	62.754 138	5.53 31	18.207 140	56.80 15
27.8	21.587 177	58.16 7	62.636 1059	63.03 22	62.597 157	5.28 25	18.046 161	56.63 17
	190	18	1082	31	171	20	175	18
9 6.7	21.397	57.93 30	61.554 1078	62.72 81	62.426	5.08	17.871	56.45
16.7	21.203 194	57.68 42	60.476 1049	61.91 132	62.252 174	4.94 14	17.691 180	56.26 19
26.7	21.016 187	57.26 49	59.427 991	60.59 181	62.084 168	4.86 8	17.517 174	56.06 20
10 6.7	20.847 169	56.77 55	58.436 906	58.78 227	61.931 153	4.88 2	17.358 159	55.88 18
16.6	20.707 140	56.22 55	57.530 797	56.51 268	61.803 128	4.99 11	17.224 134	55.73 15
	101	57			94	24	98	9
26.6	20.603	55.65 55	55.733 661	53.83 306	61.709	5.23	17.126	55.64
11 5.6	20.551 55	55.10 47	56.072 503	50.77 335	61.657 52	5.60 37	17.069 57	55.65 1
15.5	20.548 3	54.63 38	55.569 329	47.42 359	61.651 6	6.14 54	17.061 8	55.77 12
25.5	20.602 54	54.25 24	55.240 138	43.83 372	61.695 44	6.83 69	17.105 44	56.02 25
12 5.5	20.712 110	54.01 7	55.102 57	40.11 375	61.790 95	7.70 87	17.200 95	56.43 41
	164				143	102	146	56
15.5	20.876	53.94	55.159	35.36	61.933	8.72	17.346	56.99
25.4	21.088 212	54.05 11	55.414 255	32.68 368	62.121 188	9.87 115	17.538 192	57.70 71
35.4	21.343 255	54.33 28	55.860 446	29.20 348	62.348 227	11.12 125	17.770 232	58.53 83
平位	s 19.759	″ 58.17	s 63.742	″ 40.16	s 61.013	″ 11.64	s 16.345	″ 60.65
2回正中	5月31日		6月1日		6月1日		6月2日	
a b	+0.1863	+0.0133	−0.1274	−0.1119	+0.1648	+0.0045	+0.1732	+0.0074
a′ b′	−0.3733	+0.9277	−0.3703	+0.9289	−0.3664	+0.9304	−0.3491	+0.9371
FK3番號	620		623		622		624	

本初子午線正中時

星名	η Herc		α TriA		Grb 2377 Drac		ε Scor	
等級	3.61		1.88		4.88		2.36	
スペクトル型	K0		K2		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 16 40	° ′ +39 1	h m 16 42	° ′ −68 55	h m 16 44	° ′ +53 52	h m 16 46	° ′ −34 11
	s	″	s	″	s	″	s	″
1 0.4	54.315	48.79	32.570	15.92	9.988	59.93	25.940	16.38
10.4	54.551 236	45.62 317	33.125 555	14.21 171	10.261 273	56.54 342	26.217 277	16.32 6
20.4	54.827 276	42.72 290	33.759 634	12.87 134	10.596 335	53.44 310	26.526 309	16.45 13
30.3	55.134 307	40.20 252	34.451 692	11.94 93	10.980 384	50.78 266	26.859 333	16.74 29
2 9.3	55.464 330	38.14 206	35.185 734	11.41 53	11.403 423	48.64 214	27.207 348	17.18 44
	341	151	756	10	447	152	354	56
19.3	55.805	36.63	35.941	11.31	11.850	47.12	27.561	17.74
3 1.3	56.151 346	35.69 94	36.704 763	11.62 31	12.308 458	46.24 88	27.916 355	18.39 65
11.2	56.492 341	35.37 32	37.459 755	12.31 69	12.763 455	46.04 20	28.235 349	19.11 72
21.2	56.820 328	35.65 28	38.193 734	13.38 107	13.203 440	46.51 47	28.604 339	19.87 76
31.2	57.129 309	36.51 86	38.892 699	14.78 140	13.617 414	47.61 110	28.927 323	20.67 80
	286	139	655	171	378	168	306	81
4 10.2	57.415	37.90	39.547	16.49	13.995	49.29	29.233	21.48
20.1	57.670 255	39.75 185	40.147 600	18.47 198	14.328 333	51.47 218	29.517 284	22.32 84
30.1	57.893 223	41.98 223	40.684 537	20.67 220	14.609 281	54.06 259	29.776 259	23.17 85
5 10.1	58.078 185	44.50 252	41.148 464	23.07 240	14.834 225	56.95 289	30.008 232	24.03 86
20.0	58.224 146	47.21 271	41.530 382	25.60 253	14.997 163	60.05 310	30.207 199	24.90 87
	103	281	293	261	99	319	164	87
30.0	58.327 60	50.02 281	41.823 198	28.21 265	15.093	63.24 319	30.371 125	25.77 86
6 8.9	58.387 16	52.83 274	42.021 98	30.86 261	15.130 34	66.43 309	30.496 84	26.63 85
18.9	58.403 29	55.57 259	42.119 3	33.47 251	15.100 95	69.52 290	30.580 41	27.48 81
28.9	58.374 73	58.16 236	42.116 105	35.98 235	15.005 155	72.42 263	30.621 5	28.29 75
7 8.9	58.301 114	60.52 207	42.011 203	38.33 211	14.850 212	75.05 231	30.616 48	29.04 66
18.9	58.187	62.59	41.808	40.44	14.638	77.36	30.568	29.70
28.9	58.033 154	64.34 175	41.514 294	42.27 183	14.374 264	79.28 192	30.477 91	30.27 57
8 7.8	57.846 187	65.70 136	41.138 376	43.74 147	14.035 309	80.77 149	30.348 129	30.70 43
17.8	57.631 215	66.67 97	40.695 443	44.81 107	13.720 345	81.80 103	30.186 162	30.98 28
27.8	57.393 238	67.21 54	40.201 494	45.43 62	13.348 372	82.33 53	29.998 188	31.10 12
	250	9	524	15	388	3	206	6
9 6.7	57.143	67.30	39.677	45.58	12.930	82.36	29.792	31.04
16.7	56.888 255	66.94 36	39.146 531	45.26 32	12.567 393	81.87 49	29.581 211	30.80 24
26.7	56.639 249	66.12 82	38.630 516	44.45 81	12.182 385	80.87 100	29.374 207	30.39 41
10 6.7	56.406 233	64.86 126	38.155 475	43.19 126	11.818 364	79.37 150	29.184 190	29.82 57
16.6	56.199 207	63.17 169	37.745 410	41.53 166	11.488 330	77.39 198	29.022 162	29.14 68
	171	211	325	200	284	243	123	78
26.6	56.028	61.06	37.420	39.53	11.204	74.96	28.899	28.36
11 5.6	55.902 126	58.57 249	37.200 220	37.26 227	10.978 226	72.12 284	28.825 74	27.55 81
15.6	55.828 74	55.76 281	37.099 101	34.81 245	10.819 159	68.93 319	28.804 21	26.75 80
25.5	55.810 18	52.67 309	37.123 24	32.29 252	10.735 84	65.46 347	28.842 38	26.01 74
12 5.5	55.852 42	49.38 329	37.276 153	29.80 249	10.730 5	61.80 366	28.940 98	25.37 64
	100	339	279	237	77	375	155	49
15.5	55.952	45.99	37.555	27.43	10.807	58.05	29.095	24.88
25.4	56.109 157	42.58 341	37.952 397	25.26 217	10.963 156	54.32 373	29.304 209	24.55 33
35.4	56.319 210	39.26 332	38.453 501	23.37 189	11.194 231	50.72 360	29.558 254	24.41 14
平位	56.388	46.77	36.596	33.40	12.687	59.44	28.003	29.55
2回正中	6月 3日		6月 3日		6月 3日		6月 4日	
a b	+0.1025	−0.0183	+0.3166	+0.0573	+0.0567	−0.0332	+0.1963	+0.0143
a′ b′	−0.3382	+0.9411	−0.3313	+0.9435	−0.3247	+0.9458	−0.3154	+0.9490
FK3番號	626		625		627		628	

1943 本初子午線正中時

星名	49 Herc		† ζ² Scor		ζ Arae		x Ophi	
等級	6.41		3.75		3.03		3.42	
スペクトル型	A0p		K5		K5		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 16 49	° ′ +15 4	h m 16 50	° ′ −42 15	h m 16 53	° ′ −55 53	h m 16 54	° ′ +9 27
	s	″	s	″	s	″	s	″
1 0.4	27.193	12.07	31.708	42.33	50.784	53.09	56.284	50.41
10.4	27.415 217	9.65 242	32.008 300	41.81 52	51.155 371	51.85 124	56.497 213	48.24 217
20.4	27.663 248	7.37 228	32.346 338	41.52 29	51.577 422	50.90 95	56.740 243	46.17 207
30.3	27.933 270	5.31 206	32.711 365	41.45 7	52.037 460	50.27 63	57.006 266	44.28 189
2 9.3	28.219 286	3.55 176	33.093 382	41.60 15	52.524 487	49.95 32	57.287 281	42.64 164
	294	139	392	34	501	1	290	133
19.3	28.513	2.16	33.485	41.94	53.025	49.94	57.577	41.31
3 1.3	28.809 296	1.17 99	33.879 394	42.45 51	53.531 506	50.24 30	57.868 291	40.34 97
11.2	29.101 292	0.62 55	34.267 388	43.12 67	54.034 503	50.82 58	58.157 289	39.75 59
21.2	29.384 283	0.52 10	34.645 378	43.92 80	54.524 490	51.67 85	58.437 280	39.56 19
31.2	29.654 270	0.85 33	35.008 363	44.83 91	54.995 471	52.75 108	58.706 269	39.77 21
	253	74	343	101	445	130	253	57
4 10.2	29.907	1.59	35.351	45.84	55.440	54.05	58.959	40.34
20.1	30.140 233	2.69 110	35.670 319	46.94 110	55.855 415	55.55 150	59.194 235	41.24 90
30.1	30.350 210	4.08 139	35.962 292	48.10 116	56.232 377	57.21 166	59.407 213	42.40 116
5 10.1	30.533 183	5.71 163	36.222 260	49.33 123	56.566 334	59.02 181	59.595 188	43.79 139
20.0	30.689 156	7.51 180	36.447 225	50.61 128	56.852 286	60.93 191	59.757 162	45.33 154
	124	189	185	131	232	199	132	162
30.0	30.813	9.40	35.632	51.92	57.084	62.92	59.889	46.95
6 8.9	30.903 90	11.32 192	35.773 141	53.23 131	57.257 173	64.94 202	59.988 99	48.61 166
18.9	30.958 55	13.21 189	35.868 95	54.52 129	57.367 110	66.95 201	60.052 64	50.25 164
28.9	30.977 19	15.01 180	35.913 45	55.77 125	57.412 45	68.90 195	60.081 29	51.82 157
7 8.9	30.959 18	16.68 167	35.908 5	56.94 117	57.390 22	70.73 183	60.072 9	53.27 145
	55	149	54	106	87	168	44	131
18.9	30.904	18.17	36.854	58.00	57.303	72.41	60.028	54.58
28.9	30.815 89	19.45 128	35.752 102	58.91 91	57.154 149	73.86 145	59.948 80	55.71 113
8 7.8	30.695 120	20.50 105	35.607 145	59.64 73	56.948 206	75.05 119	59.837 111	56.64 93
17.8	30.547 148	21.29 79	35.424 183	60.15 51	56.693 255	75.94 89	59.697 140	57.36 72
27.8	30.378 169	21.80 51	35.212 212	60.43 28	56.401 292	76.48 54	59.536 161	57.85 49
	183	23	232	3	318	17	177	24
9 6.7	30.195	22.03	35.980	60.46	56.083	76.65	59.359	58.09
16.7	30.006 189	21.97 6	35.741 239	60.23 23	55.756 327	76.44 21	59.176 183	58.09 0
26.7	29.820 186	21.60 37	35.507 234	59.75 48	55.435 321	75.86 58	58.995 181	57.84 25
10 6.7	29.646 174	20.93 67	35.290 217	59.03 72	55.137 298	74.91 95	58.825 170	57.33 51
16.6	29.495 151	19.95 98	35.104 186	58.12 91	54.878 259	73.65 126	58.677 148	56.54 79
	121	127	143	107	205	154	119	104
26.6	29.374	18.68	34.961	57.05	54.673	72.11	58.558	55.50
11 5.6	29.291 83	17.12 156	34.871 90	55.87 118	54.535 138	70.37 174	58.477 81	54.20 130
15.6	29.253 38	15.28 184	34.840 31	54.65 122	54.474 61	68.50 187	58.439 38	52.65 155
25.5	29.263 10	13.21 207	34.874 34	53.45 120	54.495 22	66.58 192	58.449 10	50.88 177
12 5.5	29.323 60	10.93 228	34.974 100	52.32 113	54.603 107	64.68 190	58.508 59	48.92 196
	109	241	164	100	190	178	107	211
15.5	29.432	8.52	35.138	51.32	54.793	62.90	58.615	46.81
25.4	29.588 156	6.04 248	35.361 223	50.49 83	55.060 267	61.28 162	58.768 153	44.61 220
35.4	29.785 197	3.55 249	35.636 275	49.86 63	55.396 336	59.90 138	58.961 193	42.38 223
平位	29.007	6.58	33.984	56.39	53.656	68.53	58.085	44.05
2回正中	6月 5日		6月 5日		6月 6日		6月 6日	
a b	+0.1332	−0.0054	+0.2112	+0.0181	+0.2477	+0.0280	+0.1427	−0.0031
a′ b′	−0.3029	+0.9530	−0.2984	+0.9545	−0.2845	+0.9587	−0.2800	+0.9600
FK3番號	629		630		631		633	

星名	ε^1 Arae		ε Herc		60 Herc		Grb 2415 Herc	
等級 スペクトル型	4.15	K2	3.92	A0	4.91	A3	6.27	A2
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 16 54	° ′ −53 4	h m 16 58	° ′ +31 0	h m 17 2	° ′ +12 48	h m 17 5	° ′ +40 35
	s	″	s	″	s	″	s	″
1 0.4	59.237	14.94	4.438	35.79	42.144	69.78	52.893	25.39
10.4	59.587 350	13.83 111	4.649 211	33.80 299	42.350 206	67.46 232	53.102 209	22.12 327
20.4	59.984 397	12.99 84	4.897 248	31.01 279	42.587 237	65.27 219	53.356 254	19.10 302
30.4	60.416 432	12.45 54	5.175 278	28.55 246	42.849 262	63.27 200	53.645 289	16.41 269
2 9.3	60.873 457	12.20 25	5.474 299	25.48 207	43.128 279	61.54 173	53.962 317	14.18 223
	471	4	313	160	288	139	336	172
19.3	61.344	12.24	5.787	24.88	43.416	60.15	54.298	12.46
3 1.3	61.820 476	12.56 32	6.105 318	23.82 106	43.709 293	59.15 100	54.644 346	11.32 114
11.2	62.292 472	13.13 57	6.421 316	23.31 51	43.999 290	58.56 59	54.990 346	10.79 53
21.2	62.752 460	13.94 81	6.730 309	23.37 6	44.284 285	58.40 16	55.330 340	10.88 9
31.2	63.194 442	14.97 103	7.025 295	23.97 60	44.556 272	58.66 26	55.656 326	11.57 69
	420	122	276	112	259	65	306	125
4 10.2	63.614	16.19	7.301	25.09	44.815	59.31	55.932	12.82
20.1	64.004 390	17.59 140	7.555 254	25.65 156	45.056 241	60.32 101	56.242 280	14.56 174
30.1	64.330 356	19.14 155	7.781 226	28.59 194	45.275 219	61.62 130	56.491 249	16.73 217
5 10.1	64.677 347	20.81 167	7.977 196	30.83 224	45.471 196	63.16 154	56.705 214	19.22 249
20.1	64.950 273	22.59 178	8.139 162	33.27 244	45.639 168	64.86 170	56.879 174	21.95 273
	222	184	125	257	137	181	132	287
30.0	65.172	24.43	8.264	35.84	45.776	65.67	57.011	24.82
6 8.9	65.340 168	25.30 187	8.350 86	38.45 261	45.880 104	68.52 185	57.098 87	27.74 292
18.9	65.449 109	23.17 187	8.396 46	41.01 256	45.950 70	70.34 182	57.138 40	30.62 288
28.9	65.497 48	29.97 180	8.401 5	43.46 245	45.982 32	72.09 175	57.132 6	33.38 276
7 8.9	65.484 13	31.68 171	8.364 37	45.73 227	45.978 4	73.72 163	57.078 54	35.95 257
	75	156	78	203	43	146	99	230
18.9	65.409	33.24	8.286	47.76	45.935	75.18	56.979	38.25
23.9	65.275 134	34.59 135	8.171 115	49.50 174	45.857 78	76.46 128	56.837 142	40.23 198
8 7.8	65.088 187	35.70 111	8.020 151	50.92 142	45.745 111	77.51 105	56.656 181	41.86 163
17.8	64.854 234	36.52 82	7.840 180	51.99 107	45.603 140	78.33 82	56.442 214	43.09 123
27.8	64.586 268	37.02 50	7.637 203	52.68 69	45.443 163	78.88 55	56.202 240	43.90 81
	293	16	220	28	179	29	258	36
9 6.8	64.293	37.18	7.417	52.96	45.264	79.17	55.944	44.26
16.7	63.990 303	36.98 20	7.190 227	52.84 12	45.077 187	79.19 2	55.676 268	44.16 10
26.7	63.692 298	36.43 55	6.966 224	52.31 53	44.890 187	78.92 27	55.410 266	43.59 57
10 6.7	63.416 276	35.54 89	6.753 213	51.36 95	44.714 176	78.36 56	55.156 254	42.56 103
16.6	63.176 240	34.36 118	6.562 191	50.01 135	44.558 156	77.51 85	54.924 232	41.08 148
	190	144	159	175	127	113	200	192
26.6	62.986	32.92	6.403	48.26	44.431	76.38	54.724	39.16
11 5.6	62.860 126	31.29 163	6.284 119	46.15 211	44.341 90	74.97 141	54.567 157	36.83 233
15.6	62.805 55	29.55 174	6.211 73	43.71 244	44.294 47	73.29 168	54.459 108	34.15 268
25.5	62.828 23	27.77 178	6.189 22	40.98 273	44.294 0	71.37 192	54.407 52	31.15 300
12 5.5	62.930 102	26.02 175	6.222 33	38.04 294	44.343 49	69.26 211	54.413 6	27.92 323
	180	164	87	309	97	226	66	338
15.5	63.110	24.38	6.309	34.95	44.440	67.00	54.479	24.54
25.5	63.363 253	22.91 147	6.447 138	31.81 314	44.584 144	64.65 235	54.604 125	21.11 343
35.4	63.680 317	21.66 125	6.634 187	28.71 310	44.769 185	62.28 237	54.784 180	17.73 338
平位	s 61.959	″ 30.00	s 6.399	″ 33.13	s 43.969	″ 63.80	s 55.026	″ 22.35
2回正中	6月 6日		6月 7日		6月 9日		6月 9日	
a b	+0.2385	+0.0248	+0.1147	−0.0107	+0.1386	−0.0038	+0.0978	−0.0134
a′ b′	−0.2797	+0.9691	−0.2668	+0.9638	−0.2473	+0.9689	−0.2338	+0.9723
FK3番號	632		634		635		636	

星名	† η Ophi *m*		η Scor		ζ Drac		† α Herc *pr*	
等級 スペクトル型	2.63	A2	3.44	F2	3.22	B5	3.1—3.9	M3
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 17 7	° ′ −15 39	h m 17 8	° ′ −43 9	h m 17 8	° ′ +65 46	h m 17 12	° ′ +14 27
	s	″	s	″	s	″	s	″
1 0.4	4.470	11.94	1.526	44.52	33.559	66.73	0.947	20.08
10.4	4.694 224	12.78 84	1.812 286	43.83 69	33.827 268	63.18 355	1.145 198	17.70 238
20.4	4.949 255	13.68 90	2.138 326	43.34 49	34.185 358	59.92 326	1.374 229	15.45 225
30.4	5.227 278	14.58 90	2.495 357	43.06 28	34.621 436	57.07 285	1.630 256	13.39 206
2 9.3	5.520 293	15.46 88	2.874 379	42.99 7	35.121 500	54.71 236	1.904 274	11.61 178
	303	80	391	12	545	176	285	143
19.3	5.823	16.26	3.235	43.11	35.666	52.95	2.189	10.18
3 1.3	6.128 305	16.96 70	3.663 398	43.41 30	36.240 574	51.83 112	2.481 292	9.14 104
11.3	6.432 304	17.53 57	4.058 395	43.86 45	36.824 584	51.40 43	2.772 291	8.53 61
21.2	6.730 298	17.95 42	4.447 389	44.47 61	37.399 575	51.64 24	3.058 286	8.37 16
31.2	7.018 288	18.21 26	4.823 376	45.20 73	37.949 550	52.54 90	3.335 277	8.64 27
	275	12	360	85	510	151	264	68
4 10.2	7.293	18.33 1	5.183	46.05	38.459	54.05	3.599	9.32
20.1	7.552 259	18.32 12	5.521 338	47.00 95	38.915 456	56.10 205	3.846 247	10.37 105
30.1	7.792 240	18.20 20	5.835 314	48.06 106	39.306 391	58.60 250	4.072 226	11.73 136
5 10.1	8.009 217	18.00 26	6.118 283	49.20 114	39.622 316	61.46 286	4.275 203	13.33 160
20.1	8.201 192	17.74 29	6.367 249	50.41 121	39.855 233	64.57 311	4.450 175	15.12 179
	162		209	127	148	325	145	190
30.0	8.353	17.45	6.576	51.68	40.003	67.82	4.595	17.02
6 9.0	8.493 130	17.15 30	6.741 165	52.98 130	40.031 58	71.12 330	4.707 112	18.97 195
18.9	8.588 95	16.86 29	6.859 118	54.30 132	40.030 31	74.35 323	4.783 76	20.90 193
28.9	8.644 56	16.58 28	6.927 68	55.60 130	39.910 120	77.44 309	4.822 39	22.76 186
7 8.9	8.662 18	16.34 24	6.942 15	55.85 125	39.706 204	80.30 286	4.823 1	24.50 174
	21	21	36	116	283	256	37	157
18.9	8.641	16.13	6.906	58.01	39.423	82.86	4.786	25.07
28.9	8.581 60	15.95 18	6.818 88	59.04 103	39.067 356	85.05 219	4.712 74	27.44 137
8 7.8	8.485 96	15.79 16	6.684 134	59.91 87	38.648 419	86.83 178	4.603 109	28.59 115
17.8	8.358 127	15.65 14	6.509 175	60.58 67	38.176 472	88.15 132	4.465 138	29.48 89
27.8	8.205 153	15.53 12	6.301 208	61.02 44	37.663 513	88.93 83	4.302 163	30.10 62
	171	11	232	18	540	33	181	35
9 6.8	8.034	15.42	6.039	61.20	37.123	89.31	4.121	30.45
16.7	7.854 180	15.32 10	5.826 243	61.13 7	36.570 553	89.11 20	3.931 190	30.50 5
23.7	7.674 180	15.23 9	5.583 243	60.79 34	36.020 550	88.38 73	3.740 191	30.26 24
10 6.7	7.504 170	15.17 6	5.355 228	60.21 58	35.489 531	87.14 124	3.558 182	29.72 54
16.7	7.356 148	15.15 2	5.154 201	59.39 82	34.993 496	85.39 175	3.395 163	28.87 85
	119	3	161	99	444	223	135	114
26.6	7.237	15.18	4.993	58.40	34.549	83.16	3.260	27.73
11 5.6	7.158 79	15.30 12	4.883 110	57.26 114	34.172 377	80.49 267	3.161 99	25.29 144
15.6	7.124 34	15.52 22	4.831 52	56.04 122	33.875 297	77.44 305	3.103 58	24.58 171
25.5	7.139 15	15.85 33	4.843 12	54.80 124	33.670 205	74.06 338	3.093 10	22.62 196
12 5.5	7.205 66	16.31 46	4.921 78	53.60 120	33.534 106	70.45 361	3.130 37	20.46 216
	115	59	144	110	1	376	87	232
15.5	7.320	16.90	5.065	52.50	33.563	66.69	3.217	18.14
25.5	7.483 163	17.62 72	5.269 204	51.53 97	33.668 105	62.91 378	3.351 134	15.73 241
35.4	7.687 204	18.44 82	5.528 259	50.73 80	33.877 209	59.22 369	3.526 175	13.30 243
平位	s 6.374	″ 21.68	s 3.928	″ 57.63	s 36.962	″ 65.06	s 2.793	″ 14.18
2回正中	6月 9日		6月 9日		6月 10日		6月 10日	
a b	+0.1715	+0.0043	+0.2143	+0.0140	+0.0088	−0.0330	+0.1365	−0.0036
a′ b′	−0.2288	+0.9735	−0.2247	+0.9744	−0.2223	+0.9750	−0.2077	+0.9782
FK3番號	637		638		639		640	

本初子午線正中時

星名	δ Herc		π Herc		ε Apds		ϑ Ophi	
等級	3.16		3.35		5.60		3.37	
スペクトル型	A2		K5		B8		B3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 17 12	° ′ +24 54	h m 17 13	° ′ +36 52	h m 17 15	° ′ −70 3	h m 17 18	° ′ −24 56
	s	″	s	″	s	″	s	″
1 0.4	39.394	23.24	1.526	24.04	38.982	44.35	28.317	29.47
10.4	39.589 195	20.44 280	1.724 198	20.86 318	39.490 508	42.28 207	28.545 228	29.73 26
20.4	39.820 231	17.80 264	1.964 240	17.89 297	40.092 602	40.52 176	28.807 262	30.09 36
30.4	40.080 260	15.43 237	2.239 275	15.24 265	40.769 677	39.11 141	29.094 287	30.52 43
2 9.3	40.362 282	13.40 203	2.541 302	13.00 224	41.504 735	38.09 102	29.400 306	31.00 48
	295	161	320	174	773	64	317	49
19.3	40.657	11.79	2.861	11.26	42.277	37.45	29.717	31.49
3 1.3	40.960 303	10.67 112	3.191 330	10.07 119	43.072 795	37.23 22	30.039 322	31.97 48
11.3	41.263 303	10.05 62	3.524 333	9.48 59	43.875 803	37.40 17	30.362 323	32.43 46
21.2	41.562 299	9.96 9	3.851 327	9.48 0	44.668 793	37.95 55	30.680 318	32.83 40
31.2	41.850 288	10.39 43	4.167 316	10.07 59	45.439 771	38.87 92	30.990 310	33.18 35
	274	90	299	113	737	127	298	30
4 10.2	42.124	11.29	4.466	11.20	46.176	40.14	31.288	33.48
20.1	42.379 255	12.63 134	4.741 275	12.83 163	46.866 690	41.71 157	31.571 283	33.73 25
30.1	42.611 232	14.34 171	4.989 248	14.87 204	47.498 632	43.58 187	31.835 264	33.95 22
5 10.1	42.816 205	16.34 200	5.205 216	17.25 238	48.062 564	45.69 211	32.076 241	34.14 19
20.1	42.991 175	18.55 221	5.384 179	19.87 262	48.545 483	48.00 231	32.291 215	34.33 19
	142	235	140	277	394	247	184	20
30.0	43.133	20.90	5.524	22.64	48.939	50.47	32.475	34.53
6 9.0	43.239 106	23.30 240	5.622 98	25.47 283	49.235 296	53.04 257	32.626 151	34.74 21
18.9	43.303 67	25.68 238	5.676 54	28.27 280	49.426 191	55.66 262	32.739 113	34.97 23
28.9	43.334 28	27.97 229	5.685 9	30.96 269	49.508 82	58.25 259	32.811 72	35.22 25
7 8.9	43.321 13	30.11 214	5.649 36	33.48 252	49.479 29	60.75 250	32.841 30	35.48 26
	53	194	81	227	139	234	12	26
18.9	43.238	32.05	5.568	35.75	49.340	63.09	32.829	35.74
28.9	43.177 91	33.74 169	5.445 123	37.74 199	49.095 245	65.19 210	32.774 55	35.99 25
8 7.8	43.050 127	35.15 141	5.284 161	39.38 164	48.754 341	67.00 181	32.680 94	36.20 21
17.8	42.892 158	36.24 109	5.090 194	40.64 126	48.329 425	68.44 144	32.551 129	36.37 17
27.8	42.709 183	36.99 75	4.869 221	41.50 86	47.836 493	69.48 104	32.392 159	36.48 11
	200	39	241	44	540	57	179	4
9 6.8	42.509	37.38	4.628	41.94	47.295	70.05	32.213	36.52
16.7	42.298 211	37.40 2	4.378 250	41.93 1	46.731 565	70.15 10	32.022 191	36.47 5
26.7	42.087 211	37.06 34	4.127 251	41.48 45	46.167 564	69.75 40	31.829 193	36.34 13
10 6.7	41.885 202	36.33 73	3.887 240	40.58 90	45.629 538	68.87 88	31.645 184	36.15 19
16.7	41.703 182	35.22 111	3.666 221	39.23 135	45.143 486	67.54 133	31.482 163	35.89 26
	155	147	190	177	408	174	132	29
26.6	41.548	33.75	3.476	37.46	44.735	65.80	31.350	35.60
11 5.6	41.431 117	31.94 181	3.326 150	35.29 217	44.425 310	63.72 208	31.257 93	35.31 29
15.6	41.356 75	29.80 214	3.223 103	32.76 253	44.231 194	61.39 233	31.211 46	35.04 27
25.5	41.330 26	27.38 242	3.172 51	29.92 284	44.164 67	58.90 249	31.217 6	34.83 21
12 5.5	41.356 26	24.73 265	3.177 5	26.84 308	44.230 66	56.33 257	31.276 59	34.70 13
	76	280	62	325	200	253	112	2
15.5	41.432	21.93	3.239	23.59	44.430	53.80	31.388	34.68
25.5	41.558 126	19.04 289	3.357 118	20.28 331	44.758 328	51.59 241	31.549 161	34.78 10
35.4	41.729 171	16.16 288	3.527 170	16.99 329	45.204 446	49.18 221	31.756 207	34.99 21
平位	s 41.305	″ 18.47	s 3.590	″ 20.37	s 43.668	″ 59.20	s 30.362	″ 39.94
2回正中	6月11日		6月11日		6月11日		6月12日	
a b	+0.1230	−0.0063	+0.1044	−0.0102	+0.3337	+0.0353	+0.1838	+0.0056
a′ b′	−0.2050	+0.9788	−0.2034	+0.9791	−0.1920	+0.9814	−0.1801	+0.9837
FK3番號	641		643		642		644	

本初子午線正中時

星名	β Arae		27 H. Ophi		45 Ophi		77 Herc	
等級	2.80		4.61		4.37		5.81	
スペクトル型	K2		F0		F5		A2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 17 20	° ′ −55 28	h m 17 23	° ′ −5 2	h m 17 23	° ′ −29 48	h m 17 25	° ′ +48 18
	s	″	s	″	s	″	s	″
1 0.5	30.284	28.72	34.393	8.03	40.546	51.61	11.095	28.80
10.4	30.614 330	27.27 145	34.591 198	9.40 137	40.779 233	51.56 5	11.286 191	25.35 345
20.4	31.000 386	26.07 120	34.821 230	10.76 136	41.047 268	51.63 7	11.532 246	22.12 323
30.4	31.430 430	25.14 93	35.075 254	12.06 130	41.343 296	51.80 17	11.824 292	19.22 290
2 9.3	31.892 462	24.50 64	35.347 272	13.23 117	41.659 316	52.06 26	12.154 330	16.77 245
	484	35	284	101	328	32	357	192
19.3	32.376	24.15	35.631	14.24	41.987	52.38	12.511	14.85
3 1.3	32.873 497	24.08 7	35.921 290	15.02 78	42.322 335	52.74 36	12.886 375	13.52 133
11.3	33.372 499	24.28 20	36.212 291	15.57 55	42.659 337	53.11 37	13.269 383	12.83 69
21.2	33.866 494	24.75 47	36.499 287	15.86 29	42.991 332	53.49 38	13.649 380	12.79 4
31.2	34.347 481	25.48 73	36.780 281	15.89 .3	43.316 325	53.87 38	14.019 370	13.38 59
	464	95	276	22	314	38	351	120
4 10.2	34.811	25.43	37.050	15.67	43.630	54.25	14.370	14.58
20.2	35.248 437	27.60 117	37.306 256	15.24 43	43.928 298	54.63 38	14.694 324	16.32 174
30.1	35.655 407	28.97 137	37.546 240	14.61 63	44.207 279	55.01 38	14.984 290	18.53 221
5 10.1	36.022 367	30.52 155	37.765 219	13.84 77	44.464 257	55.41 40	15.235 251	21.11 258
20.1	36.346 324	32.21 169	37.960 195	12.97 87	44.693 229	55.83 42	15.441 206	23.97 286
	272	181	167	94	198	45	158	304
30.0	36.618	34.02	38.127	12.03	44.891	56.28	15.599	27.01
6 9.0	36.834 216	35.92 190	38.262 135	11.07 96	45.053 162	56.76 48	15.704 105	30.14 313
18.9	36.988 154	37.86 194	38.365 103	10.12 95	45.175 122	57.27 51	15.756 52	33.26 312
28.9	37.077 89	39.79 193	38.430 65	9.22 90	45.255 80	57.80 53	15.752 4	36.27 301
7 8.9	37.098 21	41.66 187	38.456 26	8.39 83	45.291 36	58.33 53	15.693 59	39.11 284
	47	177	12	75	9	52	111	259
18.9	37.051	43.43	38.444	7.64	45.282	58.85	15.582	41.70
28.9	36.938 113	45.03 160	38.394 50	6.99 65	45.229 53	59.33 48	15.420 162	43.97 227
8 7.9	36.764 174	46.41 138	38.308 86	6.45 54	45.133 96	59.76 43	15.212 208	45.88 191
17.8	36.536 228	47.52 111	38.190 118	6.02 43	45.000 133	60.11 35	14.955 247	47.38 150
27.8	36.263 273	48.32 80	38.045 145	5.71 31	44.837 163	60.36 25	14.685 280	48.43 105
	304	45	165	20	187	13	303	59
9 6.8	35.959	48.77	37.880	5.51	44.650	60.49	14.382	49.02
16.7	35.636 323	48.86 9	37.703 177	5.43 8	44.449 201	60.49 0	14.055 317	49.12 10
26.7	35.311 325	48.57 29	37.524 179	5.46 3	44.247 202	60.36 13	13.746 319	48.73 39
10 6.7	35.001 310	47.91 66	37.353 171	5.63 17	44.053 194	60.11 25	13.435 311	47.83 90
16.7	34.722 279	46.90 101	37.199 154	5.93 30	43.879 174	59.75 36	13.145 290	46.45 138
	231	131	128	45	142	44	258	186
26.6	34.491	45.59	37.071	6.38	43.737	59.31	12.887	44.59
11 5.6	34.320 171	44.03 156	36.979 92	6.97 59	43.636 101	58.81 50	12.672 215	42.29 230
15.6	34.220 100	42.29 174	36.928 51	7.73 76	43.582 54	58.31 50	12.509 163	39.59 270
25.6	34.200 20	40.43 186	36.923 5	8.65 92	43.582 0	57.82 49	12.405 104	35.54 305
12 5.5	34.263 63	38.55 188	36.966 43	9.71 106	43.638 56	57.40 42	12.364 41	33.22 332
	144	184	91	121	110	34	26	350
15.5	34.407	36.71	37.057	10.92	43.748	57.06	12.390	29.72
25.5	34.630 223	34.98 173	37.194 137	12.23 131	43.911 163	55.84 22	12.482 92	26.14 358
35.4	34.925 295	33.43 155	37.372 178	13.61 138	44.120 209	56.73 11	12.638 156	22.58 356
平位	s 33.332	″ 42.11	s 36.269	″ 16.10	s 42.689	″ 62.36	s 13.433	″ 25.34
2回正中	6月13日		6月13日		6月13日		6月14日	
a b	+0.2488	+0.0166	+0.1591	+0.0009	+0.1911	+0.0030	+0.0793	−0.0113
a′ b′	−0.1713	+0.9852	−0.1581	+0.9874	−0.1577	+0.9875	−0.1512	+0.9885
FK3番號	645		647		646		650	

星名	δ Arae		υ Scor		α Arae		β Drac	
等級	3.79		2.80		2.97		2.99	
スペクトル型	B8		B3		B3p		G0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 17 25	° ′ −60 37	h m 17 26	° ′ −37 14	h m 17 27	° ′ −49 49	h m 17 29	° ′ +52 20
	s	″	s	″	s	″	s	″
1 0.5	53.330 362	66.07 174	50.783 247	56.92 50	23.099 290	47.10 121	6.052 190	37.84 352
10.4	53.692 427	64.33 148	51.030 286	56.42 35	23.389 340	45.89 99	6.242 251	34.32 330
20.4	54.119 479	62.85 119	51.316 316	56.07 20	23.729 378	44.90 77	6.493 303	31.02 296
30.4	54.598 521	61.66 88	51.632 339	55.87 6	24.107 408	44.13 53	6.796 346	28.06 251
2 9.3	55.119 548	60.78 56	51.971 355	55.81 7	24.515 427	43.60 29	7.142 377	25.55 198
19.3	55.667	60.22	52.326 362	55.88 18	24.942 439	43.31 6	7.519 400	23.57
3 1.3	56.230 563	59.99 23	52.688 364	56.06 28	25.381 443	43.25 16	7.919 409	22.19 138
11.3	56.801 571	60.08 9	53.052 364	56.34 37	25.824 439	43.41 38	8.328 409	21.47 72
21.2	57.367 566	60.48 40	53.413 361	56.71 44	26.263 439	43.79 57	8.737 397	21.40 7
31.2	57.921 554 533	61.18 70 97	53.767 354 341	57.15 51	26.693 430 415	44.36 76	9.134 378	21.99 59 120
4 10.2	58.454 505	62.15 124	54.108 326	57.66 58	27.108 395	45.12 94	9.512 349	23.19 176
20.2	58.959 469	63.39 147	54.434 305	58.24 65	27.503 368	46.06 111	9.861 312	24.95 223
30.1	59.428 425	64.86 169	54.739 280	58.89 71	27.871 338	47.17 125	10.173 269	27.18 263
5 10.1	59.853 373	66.55 187	55.019 251	59.60 78	28.209 299	48.42 138	10.442 219	29.81 291
20.1	60.226 314	68.42 201	55.270 216	60.38 84	28.508 256	49.80 150	10.661 166	32.72 311
30.0	60.540	70.43 212	55.486	61.22 89	28.764	51.30 158	10.827	35.83
6 9.0	60.788 248	72.55 218	55.663 177	62.11 93	28.971 207	52.88 163	10.936 109	39.03 320
18.9	60.965 177	74.73 217	55.797 134	63.04 95	29.124 153	54.51 164	10.986 50	42.23 320
28.9	61.066 101	76.90 217	55.885 88	63.99 94	29.220 96	56.15 160	10.975 11	45.33 310
7 8.9	61.088 22 55	79.03 213 201	55.924 39 10	64.93 90	29.257 37 25	57.75 153	10.905 70 128	48.25 292 267
18.9	61.033	81.04 183	55.914	65.83 84	29.232 83	59.28 140	10.777	50.92
28.9	60.900 133	82.87 160	55.856 58	66.67 73	29.149 140	60.68 122	10.594 183	53.27 235
8 7.9	60.697 203	84.47 130	55.751 105	67.40 60	29.009 188	61.90 101	10.362 232	55.26 199
17.8	60.430 267	85.77 97	55.606 145	68.00 44	28.821 230	62.91 74	10.087 275	56.83 157
27.8	60.112 318 357	86.74 58	55.426 180 204	68.44 26	28.591 261	63.65 45	9.776 311 336	57.95 112 64
9 6.8	59.755	87.32	55.222 220	68.70	28.330	64.10	9.440	58.59
16.7	59.377 378	87.50 18	55.002 224	68.75 5	28.052 278	64.23 13	9.089 351	58.74 15
26.7	58.995 382	87.25 25	54.778 224	68.60 15	27.770 282	64.03 20	8.734 355	58.37 37
10 6.7	58.628 367	86.59 66	54.564 214	68.25 35	27.499 271	63.51 52	8.388 346	57.50 87
16.7	58.294 334 281	85.54 105 141	54.372 192 159	67.72 53 69	27.253 246 204	62.69 82 108	8.063 325 291	56.12 138 186
26.6	58.013	84.13	54.213	67.03 80	27.049	61.61	7.772	54.26
11 5.6	57.800 213	82.43 170	54.097 116	66.23 87	26.897 152	60.31 130	7.524 248	51.94 232
15.6	57.666 134	80.50 193	54.033 64	65.36 90	26.807 90	58.84 147	7.332 192	49.21 273
25.6	57.623 43	78.43 207	54.027 6	64.46 87	26.787 20	57.28 156	7.201 131	46.12 309
12 5.5	57.674 51 144	76.30 213 212	54.081 54 113	63.59 81	26.840 53 126	55.70 158 154	7.139 62 9	42.75 337 356
15.5	57.818	74.18 201	54.194	62.78 70	26.966	54.16 145	7.148 82	39.19 365
25.5	58.054 236	72.17 185	54.364 170	62.08 57	27.161 195	52.71 129	7.230 150	35.54 362
35.4	58.372 318	70.32	54.585 221	61.51	27.419 258	51.42	7.380	31.92
平位	s 56.825	″ 79.41	s 53.102	″ 68.23	s 25.873	″ 59.49	s 8.538	″ 34.36
2回正中	6月14日		6月14日		6月14日		6月15日	
a b	+0.2705	+0.0175	+0.2035	+0.0073	+0.2315	+0.0112	+0.0677	−0.0116
a′ b′	−0.1480	+0.9890	−0.1440	+0.9896	−0.1416	+0.9899	−0.1342	+0.9910
FK3番號	648		649		651		653	

星名	λ Scor		ν¹ Drac		ν² Drac		27 Drac	
等級	1.71		4.98		4.95		5.21	
スペクトル型	B2		A5		A5		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 17 29	° ′ −37 3	h m 17 31	° ′ +55 13	h m 17 31	° ′ +55 12	h m 17 32	° ′ +68 10
	s	″	s	″	s	″	s	″
1 0.5	41.764 243	39.88 50	0.420 192	24.76 356	5.847 191	43.50 356	7.573 223	20.48
10.4	42.007 283	39.38 37	0.612 257	21.20 334	6.038 257	39.94 334	7.796 329	16.87 361
20.4	42.290 314	39.01 21	0.869 314	17.86 299	6.295 314	36.60 299	8.125 422	13.49 338
30.4	42.604 336	38.80 8	1.183 362	14.87 255	6.609 362	33.61 255	8.547 502	10.46 303
2 9.3	42.940 352	38.72 5	1.545 397	12.32 200	6.971 397	31.06 201	9.049 563	7.90 256 202
19.3	43.292	38.77	1.942 421	10.32 140	7.368 421	29.05	9.612 606	5.88
3 1.3	43.653 361	38.92 15	2.363 434	8.92 74	7.789 433	27.66 139	10.218 629	4.49 139
11.3	44.016 363	39.17 25	2.797 434	8.18 8	8.222 434	26.91 75	10.847 632	3.76 73
21.2	44.377 361	39.51 34	3.231 422	8.10 58	8.656 422	26.84 7	11.479 616	3.72 4
31.2	44.730 353 342	39.92 41 48	3.653 402	8.68 121	9.078 402	27.42 58 120	12.095 581	4.34 62 126
4 10.2	45.072	40.40	4.055	9.89	9.480	28.62	12.676	5.60
20.2	45.399 327	40.94 54	4.425 370	11.66 177	9.850 370	30.39 177	13.206 530	7.43 183
30.1	45.705 306	41.56 62	4.756 331	13.91 225	10.181 331	32.64 225	13.670 464	9.75 232
5 10.1	45.988 283	42.24 68	5.039 283	16.57 266	10.465 284	35.29 265	14.058 388	12.47 272
20.1	46.240 252 219	42.99 75 82	5.270 231 173	19.51 294 315	10.695 230 173	38.24 295 314	14.359 301 207	15.49 302 322
30.0	46.459	43.81	5.443	22.66	10.868	41.38	14.566	18.71
6 9.0	46.639 180	44.68 87	5.554 111	25.90 324	10.979 111	44.63 325	14.674 108	22.03 332
18.9	46.776 137	45.59 91	5.601 47	29.14 324	11.027 48	47.86 323	14.683 9	25.34 331
28.9	46.867 91	46.52 93	5.584 17	32.28 314	11.010 17	51.01 315	14.592 91	28.56 322
7 8.9	46.910 43 7	47.45 93 90	5.503 81 144	35.25 297 272	10.929 81 143	53.98 297 272	14.404 188 279	31.59 303 277
18.9	46.903	48.35	5.359	37.97	10.786	56.70	14.125	34.36
28.9	46.847 56	49.18 83	5.158 201	40.37 240	10.585 201	59.10 240	13.760 365	36.81 245
8 7.9	46.745 102	49.92 74	4.904 254	42.40 203	10.331 254	61.13 203	13.318 442	38.87 206
17.8	46.602 143	50.53 61	4.605 299	44.01 161	10.032 299	62.74 161	12.813 505	40.50 163
27.8	46.425 177 203	50.98 45 28	4.268 337 364	45.16 115 67	9.695 337 364	63.90 116 67	12.255 558 597	41.67 117 66
9 6.8	46.222	51.26	3.904	45.83	9.331	64.57	11.658	42.33
16.7	46.003 219	51.33 7	3.523 381	46.00 17	8.951 380	64.73 16	11.040 618	42.48 15
26.7	45.780 223	51.21 12	3.139 384	45.65 35	8.567 384	64.39 34	10.416 624	42.11 37
10 6.7	45.565 215	50.88 33	2.763 376	44.78 87	8.191 376	63.52 87	9.804 612	41.21 90
16.7	45.372 193 161	50.37 51 66	2.409 354 320	43.41 137 187	7.837 354 320	62.15 137 187	9.222 582 534	39.79 142 193
26.6	45.211	49.71	2.089	41.54	7.517	60.28	8.688	37.86
11 5.6	45.094 117	48.93 78	1.816 273	39.21 233	7.244 273	57.95 233	8.219 469	35.47 239
15.6	45.027 67	48.07 86	1.600 216	36.45 276	7.028 216	55.20 275	7.831 388	32.65 282
25.6	45.018 9	47.19 88	1.450 150	33.34 311	6.877 151	52.09 311	7.537 294	29.48 317
12 5.5	45.068 50 110	46.32 87 80	1.371 79 2	29.95 339 359	6.799 78 3	48.69 340 359	7.349 188 77	26.01 347 366
15.5	45.178 166	45.52 70	1.369 74	26.33 369	6.796 74	45.10 368	7.272	22.35
25.5	45.344 217	44.82 57	1.443 148	22.67 366	6.870 148	41.42 366	7.311 39	18.60 375
35.4	45.561	44.25	1.591	19.01	7.018	37.76	7.466 155	14.88 372
平位	s 44.090	″ 51.00	s 3.033	″ 21.28	s 8.459	″ 40.01	s 11.231	″ 17.26
2回正中	6月15日		6月15日		6月15日		6月16日	
a b	+0.2032	+0.0066	+0.0581	−0.0121	+0.0581	−0.0121	−0.0119	−0.0201
a′ b′	−0.1317	+0.9913	−0.1260	+0.9920	−0.1256	+0.9921	−0.1210	+0.9927
FK3番號	652		655		657		659	

星名	α Ophi		ϑ Scor		ξ Serp		ω Drac	
等級 スペクトル型	2.14	A5	2.04	F0	3.64	A5	4.87	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 32	° ′ +12 35	h m 17 33	° ′ −42 57	h m 17 34	° ′ −15 21	h m 17 37	° ′ +68 46
	s	″	s	″	s	″	s	″
1 0.5	15.341 180	66.68 233	10.663 257	37.43 87	17.251 200	43.06 75	13.089 213	67.75 361
10.4	15.521 213	64.35 218	10.920 300	36.56 70	17.451 232	43.81 78	13.302 322	64.14 340
20.4	15.734 241	62.17 200	11.220 334	35.86 52	17.683 259	44.59 78	13.624 420	60.74 306
30.4	15.975 262	60.17 175	11.554 361	35.34 34	17.942 279	45.37 75	14.044 503	57.68 260
2 9.4	16.237 276	58.42 144	11.915 379	35.00 17	18.221 291	46.12 66	14.547 570	55.08 207
19.3	16.513 285	56.98 106	12.294 389	34.83 0	18.512 298	46.78 56	15.117 615	53.01 144
3 1.3	16.798 289	55.92 65	12.683 394	34.83 16	18.810 302	47.34 43	15.732 643	51.57 79
11.3	17.087 286	55.27 23	13.077 391	34.99 30	19.112 300	47.77 27	16.375 648	50.78 10
21.2	17.373 281	55.04 19	13.468 384	35.29 43	19.412 294	48.04 12	17.023 633	50.68 56
31.2	17.654 271	55.23 60	13.852 373	35.72 56	19.706 286	48.16 2	17.656 601	51.24 121
4 10.2	17.925 258	55.83 96	14.225 356	36.28 68	19.992 274	48.14 16	18.257 549	52.45 178
20.2	18.183 239	56.79 128	14.581 334	36.96 80	20.266 257	47.98 26	18.806 484	54.23 228
30.1	18.422 219	58.07 153	14.915 308	37.76 91	20.523 238	47.72 34	19.290 407	56.51 269
5 10.1	18.641 193	59.60 172	15.223 276	38.67 102	20.761 214	47.38 38	19.697 317	59.20 301
20.1	18.834 164	61.32 184	15.499 239	39.69 110	20.975 187	47.00 41	20.014 222	62.21 321
30.1	18.998 132	63.16 190	15.738 196	40.79 118	21.162 155	46.59 41	20.236 121	65.42 332
6 9.0	19.130 97	65.06 189	15.934 150	41.97 124	21.317 120	46.18 38	20.357 18	68.74 333
18.9	19.227 59	66.95 183	16.084 99	43.21 126	21.437 82	45.80 34	20.375 84	72.07 324
28.9	19.286 21	68.78 173	16.183 46	44.47 124	21.519 42	45.46 29	20.291 185	75.31 307
7 8.9	19.307 19	70.51 157	16.229 8	45.71 121	21.561 0	45.17 24	20.106 280	78.38 282
18.9	19.288	72.08 139	16.221 61	46.92 111	21.561 40	44.93 18	19.826 369	81.20 250
28.9	19.230 58	73.47 118	16.160 111	48.03 99	21.521 78	44.75 14	19.457 448	83.70 213
8 7.9	19.136 94	74.65 93	16.049 157	49.02 83	21.443 114	44.61 10	19.009 515	85.83 170
17.8	19.009 127	75.58 69	15.892 194	49.85 62	21.329 143	44.51 7	18.494 571	87.53 124
27.8	18.855 154 174	76.27 42	15.698 223	50.47 39	21.186 165	44.44 4	17.923 612	88.77 75
9 6.8	18.681 187	76.69 15	15.475 241	50.86 15	21.021 180	44.40 3	17.311 637	89.52 23
16.8	18.494 191	76.84 14	15.234 245	51.01 13	20.841 183	44.37 1	16.674 644	89.75 29
26.7	18.303 185	76.70 42	14.989 238	50.88 37	20.658 178	44.36 2	16.030 634	89.46 82
10 6.7	18.118 170	76.28 71	14.751 215	50.51 62	20.480 161	44.38 4	15.396 634	88.64 134
16.7	17.948 144	75.57 100	14.536 180	49.89 84	20.319 134	44.42 10	14.791 605 558	87.30 185
26.6	17.804 112	74.57 129	14.356 135	49.05 100	20.185 100	44.52 15	14.233 493	85.45 232
11 5.6	17.692 71	73.28 155	14.221 79	48.05 113	20.085 57	44.67 24	13.740 412	83.13 276
15.6	17.621 27	71.73 179	14.142 19	46.92 119	20.028 11	44.91 32	13.328 317	80.37 313
25.6	17.594 21	69.94 200	14.123 47	45.73 121	20.017 39	45.23 44	13.011 210	77.24 342
12 5.5	17.615 68	67.94 217	14.170 110	44.52 116	20.056 89	45.67 54	12.801 95	73.82 363
15.5	17.683 115	65.77 227	14.280 172	43.36 107	20.145 135	46.21 65	12.703 23	70.19
25.5	17.798 157	63.50 231	14.452 228	42.29 94	20.280 178	46.86 73	12.729 141	66.46 373
35.5	17.955	61.19	14.680	41.35	20.458	47.59	12.870	62.74 372
平位	s 17.207	″ 60.33	s 13.182	″ 48.82	s 19.224	″ 51.90	s 16.819	″ 64.19
2回正中	6月16日		6月16日		6月16日		6月17日	
a b	+0.1385	−0.0018	+0.2150	+0.0072	+0.1715	+0.0020	−0.0176	−0.0170
a′ b′	−0.1206	+0.9927	−0.1166	+0.9932	−0.1118	+0.9937	−0.0990	+0.9951
FK3番號	656		654		658		664	

星名	ι Herc		χ Scor		μ Arae		η Pavo	
等級 スペクトル型	3.79	B3	2.51	B2	5.23	G5	3.58	K0
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	° ′ +46 1	h m 17 38	° ′ −38 59	h m 17 39	° ′ −51 48	h m 17 40	° ′ −64 41
	s	″	s	″	s	″	s	″
1 0.5	48.949 172	72.97 343	30.074 239	58.83 67	33.951 283	9.61 139	3.976 375	45.16 204
10.4	49.121 226	69.54 323	30.313 280	58.16 53	34.234 336	8.22 119	4.351 455	43.12 179
20.4	49.347 270	66.31 293	30.593 313	57.63 38	34.570 380	7.03 98	4.806 519	41.33 151
30.4	49.617 309	63.38 251	30.906 339	57.25 24	34.950 413	6.05 73	5.325 571	39.82 120
2 9.4	49.926 337	60.87 201	31.245 356	57.01 10	35.363 436	5.32 50	5.896 608	38.62 85
19.3	50.233	58.86	31.601	56.91	35.799	4.82	6.504	37.77
3 1.3	50.619 356	57.42 144	31.968 367	56.93 2	36.250 451	4.57 25	7.137 633	37.26 51
11.3	50.986 367	56.61 81	32.339 371	57.03 13	36.703 458	4.55 2	7.783 646	37.09 17
21.2	51.354 368	56.43 18	32.709 370	57.30 24	37.166 458	4.77 22	8.429 646	37.27 18
31.2	51.714 360	56.89 46	33.073 364	57.64 34	37.617 451	5.20 43	9.066 637	37.79 52
	346	107	355	42	439	65	618	83
4 10.2	52.060	57.96	33.428	58.06	38.056	5.85	9.684	38.62
20.2	52.382 322	59.57 161	33.768 340	58.58 52	38.475 419	6.70 85	10.272 588	39.76 114
30.1	52.676 294	61.66 209	34.089 321	59.18 60	38.870 395	7.74 104	10.822 550	41.17 141
5 10.1	52.934 258	64.14 248	34.386 297	59.88 70	39.233 363	8.96 122	11.324 502	42.85 168
20.1	53.151 217	66.92 278	34.653 267	60.67 79	39.559 326	10.33 137	11.769 445	44.75 190
	172	298	233	86	281	152	379	208
30.1	53.323	69.90	34.886	61.53	39.840	11.85	12.148	46.83
6 9.0	53.446 123	72.99 309	35.080 194	62.47 94	40.071 231	13.47 162	12.452 304	49.05 222
19.0	53.517 71	76.10 311	35.230 150	63.46 99	40.246 175	15.17 170	12.674 222	51.37 232
28.9	53.535 18	79.12 302	35.333 103	64.49 103	40.362 116	16.90 173	12.810 136	53.72 235
7 8.9	53.500 35	82.00 288	35.386 53	65.53 104	40.415 53	18.61 171	12.855 45	56.04 232
	88	264	1	101	11	166	46	222
18.9	53.412	84.64	35.387	66.54	40.404	20.27	12.809	58.26
28.9	53.274 138	86.99 235	35.337 50	67.49 95	40.329 75	21.81 154	12.673 136	60.32 206
8 7.9	53.089 185	89.00 201	35.239 98	68.35 86	40.195 134	23.18 137	12.453 220	62.16 184
17.8	52.854 225	90.62 162	35.098 141	69.07 72	40.008 187	24.34 116	12.159 294	63.70 154
27.8	52.605 249 284	91.81 119 74	34.920 178 207	69.63 56 37	39.775 233 268	25.24 90 60	11.801 358 406	64.90 120 80
9 6.8	52.321	92.55	34.713	70.00	39.507	25.84	11.395	65.70
16.8	52.021 300	92.80 25	34.489 224	70.16 16	39.217 290	26.11 27	10.958 437	66.07 37
26.7	51.716 305	92.58 22	34.259 230	70.10 6	38.920 297	26.04 7	10.512 446	65.98 9
10 6.7	51.417 299	91.85 72	34.035 224	69.81 29	38.632 288	25.62 42	10.078 434	65.45 53
16.7	51.135 282 253	90.65 121 169	33.832 203 172	69.32 49 67	38.367 265 226	24.88 74 104	9.676 402 348	64.48 97 137
26.6	50.882	88.96	33.660	68.65	38.141	23.84	9.328	63.11
11 5.6	50.669 213	86.83 213	33.530 130	67.83 82	37.967 174	22.55 129	9.053 275	61.39 172
15.6	50.503 166	84.29 254	33.453 77	67.03 91	37.856 111	21.06 149	8.865 188	59.39 200
25.6	50.393 110	81.38 291	33.432 21	65.94 98	37.815 41	19.44 162	8.776 89	57.19 220
12 5.5	50.342 51 14	78.18 320 340	33.472 40 101	64.97 97 94	37.849 34 110	17.77 167 167	8.792 16 123	54.88 231 233
15.5	50.356 76	74.78	33.573 158	64.03 85	37.959 182	16.10 160	8.915	52.55
25.5	50.432 138	71.27 351	33.731 212	63.18 73	38.141 249	14.50 147	9.142 227	50.28 227
35.5	50.570	67.76 351	33.943	62.45	38.390	13.03	9.465 324	48.15 213
平位	s 51.217	″ 68.75	s 32.488	″ 69.54	s 36.895	″ 21.20	s 8.043	″ 57.51
2回正中	6月17日		6月17日		6月18日		6月18日	
a b	+0.0845	−0.0067	+0.2071	+0.0050	+0.2377	+0.0075	+0.2938	+0.0122
a′ b′	−0.0935	+0.9953	−0.0935	+0.9956	−0.0888	+0.9961	−0.0866	+0.9962
FK3番號	663		660		662		661	

本初子午線正中時

星名		β Ophi		ψ Drac *pr*		ι^1 Scor		μ Herc	
等級	スペクトル型	2.94	K0	4.90	F5	3.14	F5p	3.48	G5
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 17 40	° ′ + 4 35	h m 17 42	° ′ + 72 10	h m 17 43	° ′ − 40 6	h m 17 44	° ′ + 27 45
1	0.5	s 37.424	″ 29.39	s 52.503	″ 42.49	s 33.256	″ 14.44	s 11.588	″ 15.69
	10.4	37.600 176	27.55 184	52.716 213	38.86 363	33.492 236	13.67 77	11.752 164	12.78 291
	20.4	37.809 209	25.76 179	53.060 344	35.44 342	33.771 279	13.04 63	11.955 203	10.01 277
	30.4	38.045 236	24.10 166	53.524 464	32.34 310	34.084 313	12.56 48	12.191 236	7.47 254
2	9.4	38.302 257	22.63 147	54.090 566	29.68 266	34.423 339	12.23 33	12.454 263	5.26 221
		271	122	648	212	359	19	284	179
	19.3	38.573	21.41	54.738	27.56	34.782	12.04	12.738	3.47
3	1.3	38.854 281	20.48 93	55.447 709	26.04 152	35.152 370	11.98 6	13.034 296	2.15 132
	11.3	39.139 285	19.90 58	56.192 745	25.18 86	35.528 376	12.05 7	13.338 304	1.36 79
	21.2	39.424 285	19.66 24	56.947 755	24.99 19	35.904 376	12.23 18	13.643 305	1.10 26
	31.2	39.704 280	19.77 11	57.688 741	25.47 48	36.275 371	12.51 28	13.942 299	1.39 29
		272	46	705	112	362	39	290	80
4	10.2	39.976	20.23	58.393	26.59	36.637	12.90	14.232	2.19
	20.2	40.237 261	20.98 75	59.040 647	28.29 170	36.985 348	13.40 50	14.508 276	3.47 128
	30.1	40.482 245	22.00 102	59.609 569	30.50 221	37.314 329	14.00 60	14.763 255	5.15 168
5	10.1	40.707 225	23.23 123	60.087 478	33.13 263	37.619 305	14.70 70	14.995 232	7.18 203
	20.1	40.910 203	24.62 139	60.460 373	36.08 295	37.896 277	15.50 80	15.198 203	9.45 227
		175	148	259	318	241	89	170	246
	30.1	41.085	26.10	60.719	39.26	38.137	16.39	15.368	11.91
6	9.0	41.229 144	27.63 153	60.858 139	42.55 329	38.340 203	17.36 97	15.502 134	14.46 255
	19.0	41.339 110	29.16 153	60.876 18	45.86 331	38.498 158	18.40 104	15.596 94	17.02 256
	28.9	41.413 74	30.63 147	60.770 106	49.09 323	38.607 109	19.48 108	15.649 53	19.52 250
7	8.9	41.447 34	32.01 138	60.547 223	52.17 308	38.666 59	20.58 110	15.658 9	21.90 238
		5	126	337	284	6	107	33	218
	18.9	41.442	33.27	60.210	55.01	38.672	21.65	15.625	24.08
	28.9	41.398 44	34.38 111	59.768 442	57.53 252	38.626 46	22.67 102	15.549 76	26.03 195
8	7.9	41.317 81	35.32 94	59.232 536	59.70 217	38.531 95	23.59 92	15.434 115	27.70 167
	17.8	41.203 114	36.07 75	58.615 617	61.45 175	38.390 141	24.38 79	15.284 150	29.04 134
	27.8	41.060 143	36.63 56	57.933 682	62.74 129	38.212 178	25.01 63	15.104 180	30.05 101
		165	36	732	81	209	42	204	63
9	6.8	40.895	36.99	57.201	63.55	38.003	25.43	14.900	30.68
	16.8	40.717 178	37.14 15	56.438 763	63.84 29	37.776 227	25.64 21	14.682 218	30.93 25
	26.7	40.533 184	37.08 6	55.665 773	63.62 22	37.541 235	25.62 2	14.459 223	30.79 14
10	6.7	40.354 179	36.80 28	54.900 765	62.87 75	37.313 228	25.36 26	14.240 219	30.24 55
	16.7	40.189 165	36.30 50	54.167 733	61.59 128	37.103 210	24.88 48	14.035 205	29.30 94
		141	72	682	178	178	67	180	133
	26.6	40.048	35.58	53.485	59.81	36.925	24.21	13.855	27.97
11	5.6	39.939 109	34.63 95	52.876 609	57.54 227	36.788 137	23.38 83	13.707 148	25.25 172
	15.6	39.869 70	33.47 116	52.358 518	54.84 270	36.703 85	22.42 96	13.600 107	24.19 206
	25.6	39.843 26	32.10 137	51.950 408	51.76 308	36.676 27	21.40 102	13.539 61	21.82 237
12	5.5	39.863 20	30.54 156	51.663 287	48.37 339	36.710 34	20.36 104	13.523 11	19.18 264
		67	170	152	360	95	101	39	283
	15.5	39.930	28.84	51.511	44.77	36.805	19.35	13.567	16.35
	25.5	40.042 112	27.03 181	51.497 14	41.05 372	36.959 154	18.42 93	13.657 90	13.41 294
	35.5	40.197 155	25.17 186	51.624 127	37.34 371	37.168 209	17.59 83	13.795 138	10.44 297
平 位		s 39.279	″ 22.43	s 56.780	″ 38.55	s 35.723	″ 24.89	s 13.541	″ 10.37
2回正中		6月18日		6月18日		6月18日		6月19日	
a	b	+ 0.1480	− 0.0005	− 0.0535	− 0.0154	+ 0.2093	+ 0.0040	+ 0.1183	− 0.0024
a′	b′	− 0.0843	+ 0.9964	− 0.0743	+ 0.9972	− 0.0715	+ 0.9974	− 0.0338	+ 0.9976
FK3番號		665		670		666		667	

1943 本初子午線正中時

星名		γ Ophi		G Scor		35 Drac		ξ Drac	
等級	スペクトル型	3.74	A0	3.25	K2	5.04	F5	3.90	K0
世界時		赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月	日	h m 17 45	° ′ + 2 43	h m 17 45	° ′ − 37 1	h m 17 51	° ′ + 76 58	h m 17 52	° ′ + 56 52
1	0.5	s 0.087	″ 45.03	s 56.215	″ 27.32	s 54.242	″ 22.93	s 29.790	″ 56.32
	10.4	0.260 173	43.30 173	56.440 225	26.72 60	54.451 209	19.34 359	29.946 156	52.72 360
	20.4	0.466 206	41.60 170	56.707 267	26.23 49	54.844 393	15.93 341	30.174 228	49.29 343
	30.4	0.700 234	40.02 158	57.007 300	25.88 35	55.405 561	12.83 310	30.465 291	46.16 313
2	9.4	0.955 255	38.61 141	57.332 325	25.65 23	56.114 709	10.13 270	30.810 345	43.44 272
		270	117	343	11	831	218	389	221
	19.3	1.225	37.44	57.675	25.54	56.945	7.95	31.199	41.23
3	1.3	1.504 279	35.55 89	58.031 356	25.52 2	57.867 922	6.35 160	31.621 422	39.60 163
	11.3	1.789 285	35.98 57	58.391 360	25.60 8	58.848 981	5.40 95	32.062 441	38.62 98
	21.3	2.074 285	35.74 24	58.753 362	25.76 16	59.851 1003	5.11 29	32.511 449	38.31 31
	31.2	2.355 281	35.83 9	59.110 357	25.00 24	60.843 992	5.49 38	32.954 443	38.65 34
		274	42	349	31	948	102	429	100
4	10.2	2.629	36.25	59.459	23.31	61.791	6.51	33.383	39.65
	20.2	2.892 263	36.95 70	59.795 336	23.70 39	62.663 872	8.11 160	33.784 401	41.23 158
	30.1	3.140 248	37.91 96	60.113 318	27.16 46	63.434 771	10.23 212	34.149 365	43.33 210
5	10.1	3.389 229	39.06 115	60.409 296	27.71 55	64.081 647	12.77 254	34.469 320	45.86 253
	20.1	3.576 207	40.37 131	60.678 269	28.34 63	64.586 505	15.66 289	34.736 267	48.73 287
		180	139	236	71	349	312	208	312
	30.1	3.756	41.76	60.914	29.05	64.935	18.78	34.944	51.85
6	9.0	3.905 149	43.20 144	61.112 198	29.84 79	65.122 187	22.04 326	35.089 145	55.11 326
	19.0	4.021 116	44.63 143	61.268 156	30.70 86	65.141 19	25.34 330	35.168 79	58.41 330
	28.9	4.099 78	46.02 139	61.378 110	31.60 90	64 993 148	28.59 325	35.178 10	61.66 325
7	8.9	4.139 40	47.31 129	61.438 60	32.52 92	64.682 311	31.69 310	35.120 58	64.78 312
		1	118	11	91	464	289	125	290
	18.9	4.140	48.49	61.449	33.43	64.218	34.58	34.995	67.68
	28.9	4.101 39	49.52 103	61.409 40	34.31 88	63.610 608	37.18 260	34.806 189	70.29 261
8	7.9	4.024 77	50.40 88	61.322 87	35.11 80	62.874 736	39.43 225	34.559 247	72.56 227
	17.8	3.913 111	51.10 70	61.191 131	35.81 70	62.028 846	41.29 186	34.261 298	74.43 187
	27.8	3.773 140	51.62 52	61.022 169	36.36 55	61.091 937	42.70 141	33.919 342	75.87 144
		162	33	197	39	1008	94	376	96
9	6.8	3.611	51.95	60.825	36.75	60.083	43.64	33.543	76.83
	16.8	3.434 177	52.09 14	60.608 217	36.95 20	59.030 1053	44.08 44	33.146 397	77.29 46
	26.7	3.251 183	52.04 5	60.385 223	36.94 1	57.958 1072	44.01 7	32.739 407	77.24 5
10	6.7	3.072 179	51.78 26	60.166 219	36.74 20	56.892 1066	43.42 59	32.335 404	76.66 58
	16.7	2.907 165	51.33 45	59.966 200	36.34 40	55.861 1031	42.30 112	31.948 387	75.56 110
		142	66	171	56	969	162	357	160
	26.7	2.765	50.67	59.795	35.78	54.892	40.68	31.591	73.96
11	5.6	2.655 110	49.80 87	59.663 132	35.07 71	54.013 879	38.57 211	31.278 313	71.86 210
	15.6	2.583 72	48.73 107	59.581 82	34.27 80	53.249 764	36.02 255	31.019 259	69.32 254
	25.6	2.555 28	47.46 127	59.555 26	33.42 85	52.626 623	33.08 294	30.824 195	66.38 294
12	5.5	2.573 18	46.01 145	59.587 32	32.55 87	52.162 464	29.81 327	30.700 124	63.11 327
		64	159	90	82	288	349	46	351
	15.5	2.637	44.42	59.677	31.73	51.874	26.32	30.654	59.60
	25.5	2.747 110	42.72 170	59.824 147	30.97 76	51.773 101	22.68 364	30.686 32	55.96 364
	35.5	2.899 152	40.96 176	60.023 199	30.31 66	51.864 91	19.02 366	30.796 110	52.29 367
平 位		s 1.968	″ 37.96	s 58.599	″ 37.39	s 59.780	″ 18.34	s 32.457	″ 51.62
2回正中		6月19日		6月19日		6月21日		6月21日	
a	b	+ 0.1502	− 0.0002	+ 0.2035	+ 0.0031	− 0.1346	− 0.0101	+ 0.0512	− 0.0033
a′	b′	− 0.0653	+ 0.9979	− 0.0612	+ 0.9981	− 0.0349	+ 0.9994	− 0.0325	+ 0.9995
FK3番號		668		669		675		671	

本初子午線正中時

星名	ϑ Herc		γ Drac		ξ Herc		ν Ophi	
等級	3.99		2.42		3.82		3.50	
スペクトル型	K0		K5		K0		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 17 54	° ′ +37 15	h m 17 55	° ′ +51 29	h m 17 55	° ′ +29 15	h m 17 55	° ′ −9 45
1 0.5	s 15.713	″ 30.38	s 14.407	″ 45.48	s 30.924	″ 15.66	s 51.251	″ 58.25
10.5	15.863 150	27.17 321	14.556 149	42.94 354	31.075 151	12.71 295	51.425 174	59.24 99
20.4	16.059 196	24.10 307	14.765 210	39.57 337	31.266 191	9.89 282	51.632 207	60.24 100
30.4	16.295 236	21.28 282	15.032 266	36.48 309	31.493 227	7.29 260	51.868 236	61.20 96
2 9.4	16.564 269	18.83 245	15.344 312	33.78 270	31.749 256	5.02 227	52.125 257	62.07 87
19.3	295	201	349	220	278	187	273	75
19.3	16.859	16.82	15.693	31.58	32.027	3.15	52.398	62.82
3 1.3	17.173 314	15.32 150	16.070 377	29.95 163	32.322 295	1.76 139	52.683 285	63.40 58
11.3	17.499 326	14.41 91	16.465 395	28.95 100	32.626 304	0.90 86	52.973 290	63.79 39
21.3	17.828 329	14.09 32	16.865 400	28.61 34	32.934 308	0.58 32	53.265 292	63.97 18
31.2	18.154 326	14.36 27	17.263 398	28.91 30	33.239 305	0.82 24	53.556 291	63.94 3
	318	85	385	94	298	77	285	23
4 10.2	18.472	15.21	17.648	29.85	33.537	1.59	53.841	63.71
20.2	18.774 302	16.59 138	18.011 363	31.37 152	33.822 285	2.84 125	54.117 276	63.31 40
30.2	19.055 281	18.44 185	18.344 333	33.40 203	34.089 267	4.52 168	54.380 263	62.75 56
5 10.1	19.309 254	20.67 223	18.640 296	35.86 246	34.333 244	6.56 204	54.626 246	62.07 68
20.1	19.530 221	23.21 254	18.891 251	38.66 280	34.548 215	8.88 232	54.851 225	61.32 75
	185	275	201	305	183	252	199	79
30.1	19.715	25.93	19.092	41.71	34.731	11.40	55.050	60.53
6 9.0	19.859 144	28.85 289	19.238 146	44.89 318	34.878 147	14.02 262	55.219 169	59.73 80
19.0	19.958 99	31.76 291	19.327 89	48.13 324	34.985 107	16.68 266	55.354 135	58.96 77
28.9	20.011 53	34.63 287	19.356 29	51.32 319	35.049 64	19.30 262	55.452 98	58.24 72
7 8.9	20.017 6	37.38 275	19.324 32	54.38 306	35.070 21	21.80 250	55.511 59	57.60 64
	43	256	91	286	24	232	17	56
18.9	19.974	39.94	19.233	57.24	35.046	24.12	55.528	57.04
28.9	19.885 89	42.24 230	19.084 149	59.81 257	34.979 67	26.21 209	55.504 24	56.57 47
8 7.9	19.751 134	44.25 201	18.883 201	62.05 225	34.870 109	28.03 182	55.440 64	56.20 37
17.8	19.579 172	45.90 165	18.634 249	63.92 186	34.724 146	29.52 149	55.340 100	55.91 29
27.8	19.373 206	47.17 127	18.346 288	65.35 143	34.546 178	30.68 116	55.208 132	55.72 19
	232	85	320	98	203	77	157	11
9 6.8	19.141	43.02	18.026	66.33	34.343	31.45	55.051	55.61
16.8	18.891 250	48.45 43	17.686 340	66.81 48	34.123 220	31.84 39	54.878 173	55.58 3
26.7	18.634 257	48.42 3	17.337 349	66.80 1	33.896 227	31.83 1	54.697 181	55.62 4
10 6.7	18.379 255	47.94 48	16.990 347	66.27 53	33.671 225	31.41 42	54.518 179	55.74 12
16.7	18.137 242	47.01 93	16.658 332	65.23 104	33.458 213	30.57 84	54.352 166	55.95 21
	219	139	306	153	191	124	144	29
26.7	17.918	45.62	16.352	63.70	33.267	29.33	54.208	56.24
11 5.6	17.733 185	43.81 181	16.086 266	61.68 202	33.108 159	27.70 163	54.095 113	56.63 39
15.6	17.589 144	41.59 222	15.868 218	59.22 246	32.987 121	25.71 199	54.021 74	57.13 50
25.6	17.493 96	39.02 257	15.707 161	56.37 285	32.912 75	23.38 233	53.990 31	57.74 61
12 5.5	17.449 44	36.15 287	15.611 96	53.18 319	32.886 26	20.78 260	54.007 17	58.47 73
	12	309	29	342	24	282	63	83
15.5	17.461	33.06	15.582	49.76	32.910	17.96	54.070	59.30
25.5	17.527 66	29.83 323	15.623 41	46.20 356	32.986 76	15.01 295	54.180 110	60.23 93
35.5	17.647 120	26.56 327	15.732 109	42.59 361	33.109 123	12.02 299	54.332 152	61.22 99
平位	s 17.784	″ 25.09	s 16.832	″ 41.53	s 32.893	″ 10.02	s 53.213	″ 65.95
2回正中	6月21日		6月21日		6月22日		6月22日	
a b	+0.1026	−0.0013	+0.0695	−0.0017	+0.1160	−0.0007	+0.1648	+0.0002
a′ b′	−0.0249	+0.9997	−0.0203	+0.9993	−0.0194	+0.9998	−0.0180	+0.9998
FK3番號	672		676		674		673	

本初子午線正中時

星名	67 Ophi		γ Sgtr		66 G. Apds		72 Ophi	
等級	3.92		3.07		5.69		3.73	
スペクトル型	B5p		K0		K5		A3	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 17 57	° ′ +2 55	h m 18 2	° ′ −30 25	h m 18 3	° ′ −75 53	h m 18 4	° ′ +9 33
1 0.5	s 45.414	″ 64.79	s 6.431	″ 27.35	s 10.252	″ 37.58	s 36.865	″ 22.01
10.5	45.575 161	63.08 171	6.625 194	27.06 29	10.761 509	34.93 265	37.015 150	19.96 205
20.4	45.770 195	61.41 167	6.859 234	26.85 21	11.421 660	32.49 244	37.200 185	17.98 198
30.4	45.994 224	59.84 157	7.125 266	26.72 13	12.210 789	30.33 216	37.416 216	16.12 186
2 9.4	46.241 247	58.45 139	7.416 291	26.64 8	13.106 896	28.51 182	37.655 239	14.48 164
	262	116	310	3	982	145	259	136
19.3	46.503	57.29	7.726	26.61	14.088	27.06	37.914	13.12
3 1.3	46.778 275	56.41 88	8.049 323	26.61 0	15.130 1042	25.01 105	38.185 271	12.09 103
11.3	47.060 282	55.84 57	8.381 332	26.64 3	16.213 1083	25.38 63	38.466 281	11.43 66
21.3	47.344 284	55.61 23	8.716 335	26.67 3	17.313 1100	25.16 22	38.749 283	11.17 26
31.2	47.627 283	55.72 11	9.050 334	26.71 4	18.410 1097	25.37 21	39.033 284	11.30 13
	277	43	329	5	1075	61	279	52
4 10.2	47.904	55.15	9.379	26.76	19.485	25.98	39.312	11.82
20.2	48.172 268	56.87 72	9.699 320	26.83 7	20.518 1033	25.99 101	39.582 270	12.69 87
30.2	48.428 256	57.85 98	10.004 305	26.94 11	21.490 972	28.37 138	39.840 258	13.86 117
5 10.1	48.665 237	59.04 119	10.292 288	27.08 14	22.384 894	30.10 173	40.080 240	15.30 144
20.1	48.882 217	60.38 134	10.555 264	27.29 21	23.180 796	32.13 203	40.299 219	16.92 162
	190	144	236	27	683	230	193	176
30.1	49.072	61.82	10.792	27.56	23.863	34.43	40.492	18.68
6 9.0	49.233 161	63.30 148	10.994 202	27.91 35	24.418 555	35.95 252	40.654 162	20.51 183
19.0	49.360 127	64.78 148	11.157 163	28.32 41	24.831 413	39.62 267	40.783 129	22.35 184
28.9	49.450 90	66.21 143	11.279 122	28.80 48	25.092 261	42.38 276	40.873 90	24.14 179
7 8.9	49.501 51	67.56 135	11.354 75	29.34 54	25.193 104	45.16 278	40.925 52	25.84 170
	11	122	29	57	57	271	11	157
18.9	49.512	68.78	11.383	29.91	25.139	47.87	40.936	27.41
28.9	49.482 30	69.86 108	11.363 20	30.49 58	24.923 216	50.44 257	40.905 31	28.81 140
8 7.9	49.414 68	70.78 92	11.297 66	31.06 57	24.558 365	52.79 235	40.836 69	30.02 121
17.9	49.310 104	71.52 74	11.189 108	31.59 53	24.055 503	54.83 204	40.730 106	31.01 99
27.8	49.176 134	72.08 56	11.044 145	32.04 45	23.435 620	53.51 168	40.593 137	31.78 77
	159	37	175	36	715	123	162	52
9 6.8	49.017	72.45	10.869	32.40	22.720	57.74	40.431	32.30
16.8	48.842 175	72.62 17	10.673 196	32.64 24	21.940 780	58.49 75	40.251 180	32.57 27
26.7	48.659 183	72.60 2	10.468 205	32.75 11	21.128 812	58.72 23	40.063 188	32.58 1
10 6.7	48.478 181	72.38 22	10.254 204	32.72 3	20.318 810	58.41 31	39.876 187	32.34 24
16.7	48.309 169	71.95 43	10.073 181	32.56 16	19.548 770	57.57 84	39.699 177	31.83 51
	148	64	166	27	696	134	157	77
26.7	48.161	71.31	9.907	32.29	18.852	56.23	39.542	31.06
11 5.6	48.043 118	70.47 84	9.776 131	31.92 37	18.264 588	54.44 179	39.414 128	30.02 104
15.6	47.962 81	69.42 105	9.688 88	31.48 44	17.811 453	52.26 218	39.322 92	28.74 128
25.6	47.922 40	68.18 124	9.650 38	31.01 47	17.518 293	49.77 249	39.271 51	27.23 151
12 5.6	47.929 7	66.77 141	9.654 14	30.54 47	17.397 121	47.08 269	39.264 7	25.50 173
	52	157	69	44	60	281	40	189
15.5	47.981	65.20	9.733	30.10	17.457	44.27	39.304	23.61
25.5	48.078 97	63.54 166	9.854 121	29.71 39	17.697 240	41.46 281	39.389 85	21.60 201
35.5	48.218 140	61.81 173	10.024 170	29.40 31	18.112 415	38.73 273	39.517 128	19.54 206
平位	s 47.307	″ 57.86	s 8.699	″ 35.97	s 17.345	″ 48.18	s 38.751	″ 15.44
2回正中	6月22日		6月23日		6月24日		6月24日	
a b	+0.1499	−0.0000	+0.1925	−0.0004	+0.4186	−0.0038	+0.1421	+0.0002
a′ b′	−0.0097	+1.0000	−0.0094	+1.0000	+0.0144	+0.9999	+0.0203	+0.9998
FK3番號	677		679		678		680	

星名		o Herc		μ Sgtr		36 Drac		η Sgtr	
等級	スペクトル型	3.83	A0	4.01	B8p	5.03	F5	3.16	M3
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 18 5	° ′ +28 45	h m 18 10	° ′ −21 4	h m 18 13	° ′ +64 22	h m 18 13	° ′ −36 46
		s	″	s	″	s	″	s	″
1	0.5	17.078	18.28	19.090	24.07	30.899	45.80	43.679	42.57
	10.5	17.217 139	15.36 292	19.263 173	24.03 4	31.017 118	42.14 366	43.872 193	41.84 73
	20.4	17.398 181	12.55 281	19.472 209	24.04 1	31.229 212	38.61 353	44.108 236	41.20 64
	30.4	17.615 217	9.96 259	19.711 239	24.09 5	31.528 299	35.33 328	44.381 273	40.64 56
2	9.4	17.863 248	7.66 230	19.975 264	24.17 8	31.904 376	32.41 292	44.682 301	40.19 45
		271	189	282		440	243	324	37
	19.3	18.134	5.77	20.257	24.25	32.344	29.98	45.006	39.82
3	1.3	18.422 288	4.34 143	20.553 296	24.32 7	32.835 491	28.11 187	45.347 341	39.53 29
	11.3	18.722 300	3.42 92	20.858 305	24.36 4	33.362 527	26.87 124	45.699 352	39.33 20
	21.3	19.028 306	3.05 37	21.166 308	24.36 0	33.908 546	26.30 57	46.056 357	39.20 13
	31.2	19.333 305	3.23 18	21.476 310	24.32 4	34.456 548	26.40 10	46.415 359	39.14 6
		299	70	306	8	536	76	355	2
4	10.2	19.632	3.93	21.782	24.24	34.992	27.16	46.770	39.16
	20.2	19.920 288	5.13 120	22.081 299	24.15 9	35.501 509	28.53 137	47.117 347	39.28 12
	30.2	20.192 272	6.76 163	22.368 287	24.04 11	35.967 466	30.46 193	47.451 334	39.48 20
5	10.1	20.442 250	8.76 200	22.640 272	23.95 9	36.380 413	32.87 241	47.767 316	39.78 30
	20.1	20.666 224	11.04 228	22.892 252	23.88 7	36.728 348	35.66 279	48.030 293	40.19 41
		192	250	225	1	275	309	262	52
	30.1	20.858	13.54	23.117	23.87	37.003	38.75	48.322	40.71
6	9.0	21.014 156	16.16 262	23.312 195	23.91 4	37.198 195	42.02 327	48.549 227	41.34 63
	19.0	21.131 117	18.82 266	23.472 160	24.03 12	37.309 111	45.38 336	48.736 187	42.08 74
	28.9	21.206 75	21.44 262	23.593 121	24.21 18	37.333 24	48.74 336	48.876 140	42.90 82
7	8.9	21.237 31	23.97 253	23.672 79	24.46 25	37.270 63	52.01 327	48.968 92	43.78 88
		14	235	34	30	149	309	41	92
	18.9	21.223	26.32	23.706	24.76	37.121	55.10	49.009	44.70
	28.9	21.164 59	28.46 214	23.696 10	25.10 34	36.891 230	57.94 284	48.998 11	45.62 92
8	7.9	21.064 100	30.33 187	23.643 53	25.46 36	36.585 306	60.47 253	48.935 63	46.51 89
	17.9	20.926 138	31.89 156	23.549 94	25.82 36	36.212 373	62.62 215	48.826 109	47.34 83
	27.8	20.754 172	33.11 122	23.420 129	26.14 32	35.781 431	64.35 173	48.676 150	48.05 71
		198	85	158	28	478	126	185	58
9	6.8	20.556	33.96	23.262	26.42	35.303	65.61	48.491	48.63
	16.8	20.339 217	34.44 48	23.084 178	26.62 20	34.793 510	66.39 78	48.283 208	49.03 40
	26.7	20.114 225	34.51 7	22.895 189	26.74 12	34.264 529	66.65 26	48.061 222	49.25 22
10	6.7	19.888 226	34.17 34	22.706 189	26.78 4	33.733 531	66.37 28	47.839 222	49.26 1
	16.7	19.674 214	33.43 74	22.528 178	26.73 5	33.214 519	65.56 81	47.628 211	49.07 19
		194	115	156	13	489	133	186	37
	26.7	19.480	32.28	22.372	26.60	32.725	64.23	47.442	48.70
11	5.6	19.315 165	30.74 154	22.246 126	26.41 19	32.281 444	62.37 186	47.290 152	48.16 54
	15.6	19.188 127	28.83 191	22.160 86	26.19 22	31.896 385	60.04 233	47.183 107	47.49 67
	25.6	19.105 83	26.59 224	22.118 42	25.95 24	31.584 312	57.27 277	47.127 56	46.72 77
12	5.6	19.070 35	24.06 253	22.124 6	25.74 21	31.355 229	54.13 314	47.128 1	45.90 82
		15	275	56	18	137	343	57	84
	15.5	19.085	21.31	22.180	25.56	31.218	50.70	47.185	45.06
	25.5	19.150 65	18.41 290	22.285 105	25.43 13	31.177 41	47.09 361	47.298 113	44.25 81
	35.5	19.263 113	15.46 295	22.434 149	25.36 7	31.234 57	43.39 370	47.464 166	43.50 75
平位		s 19.037	″ 12.36	s 21.204	″ 32.06	s 34.022	″ 39.86	s 46.137	″ 50.71
2回正中		6月24日		6月25日		6月26日		6月26日	
a	b	+0.1168	+0.0008	+0.1790	−0.0012	+0.0146	+0.0082	+0.2031	−0.0030
a′	b′	+0.0232	+0.9997	+0.0452	+0.9990	+0.0592	+0.9983	+0.0600	+0.9982
FK3番號		681		682		685		683	

星名		Grb 2533 Lyra		δ Sgtr		ξ Pavo		η Serp	
等級	スペクトル型	5.42	B5	2.84	K0	4.25	K2	3.42	K0
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	° ′ +42 8	h m 18 17	° ′ −29 51	h m 18 17	° ′ −61 31	h m 18 18	° ′ −2 54
		s	″	s	″	s	″	s	″
1	0.5	50.141	25.82	18.382	7.58	54.533	12.21	19.599	47.88
	10.5	50.265 124	22.48 334	18.559 177	7.25 33	54.807 274	10.08 213	19.744 145	49.22 134
	20.4	50.440 175	19.26 322	18.777 218	6.93 27	55.156 349	8.10 198	19.924 180	50.54 132
	30.4	50.661 221	16.26 300	19.027 250	6.77 21	55.571 415	6.32 178	20.134 210	51.78 124
2	9.4	50.922 261	13.61 265	19.305 278	6.60 17	56.040 469	4.77 155	20.369 235	52.90 112
		294	221	299	13	512	127	253	93
	19.4	51.216	11.40	19.604	6.47	56.552	3.50	20.622	53.83
3	1.3	51.534 318	9.70 170	19.919 315	6.35 12	57.097 545	2.51 99	20.890 268	54.54 71
	11.3	51.869 335	8.59 111	20.244 325	6.24 11	57.663 566	1.82 69	21.167 277	54.99 45
	21.3	52.214 345	8.09 50	20.575 331	6.13 11	58.242 579	1.44 38	21.450 283	55.17 18
	31.2	52.561 347	8.21 12	20.908 333	6.03 10	58.823 581	1.37 7	21.734 284	55.07 10
		340	72	330	10	577	24	283	37
4	10.2	52.901	8.93	21.238	5.93	59.400	1.61	22.017	54.70
	20.2	53.229 328	10.22 129	21.562 324	5.86 7	59.961 561	2.16 55	22.294 277	54.08 62
	30.2	53.537 308	12.02 180	21.874 312	5.81 5	60.498 537	3.00 84	22.561 267	53.25 83
5	10.1	53.818 281	14.24 222	22.171 297	5.82 1	61.002 504	4.13 113	22.814 253	52.26 99
	20.1	54.067 249	16.82 258	22.446 275	5.88 15	61.464 462	5.52 139	23.047 233	51.14 112
		209	283	249		409	162	210	120
	30.1	54.276	19.65	22.695	6.03	61.873	7.14	23.257	49.94
6	9.1	54.443 167	22.65 300	22.910 215	6.25 22	62.221 348	8.97 183	23.438 181	48.72 122
	19.0	54.562 119	25.72 307	23.089 179	6.57 32	62.500 279	10.97 200	23.587 149	47.52 120
	28.9	54.632 70	28.78 306	23.226 137	6.97 40	62.702 202	13.08 211	23.699 112	46.36 116
7	8.9	54.649 17	31.75 297	23.318 92	7.44 47	62.823 121	15.25 217	23.772 73	45.29 107
		35	279	43	53	37	216	32	96
	18.9	54.614	34.54	23.361	7.97	62.860	17.41	23.804	44.33
	28.9	54.528 86	37.10 256	23.357 4	8.54 57	62.812 48	19.51 210	23.793 11	43.50 83
8	7.9	54.394 134	39.37 227	23.305 52	9.10 56	62.682 130	21.46 195	23.743 50	42.80 70
	17.9	54.215 179	41.29 192	23.209 96	9.65 55	62.475 207	23.21 175	23.654 89	42.25 55
	27.8	53.999 216	42.82 153	23.074 135	10.15 50	62.201 274	24.69 148	23.532 122	41.85 40
		247	111	166	42	329	116	150	25
9	6.8	53.752	43.93	22.908	10.57	61.872	25.85	23.382	41.60
	16.8	53.482 270	44.60 67	22.718 190	10.89 32	61.503 369	26.63 78	23.213 169	41.49 11
	26.8	53.201 281	44.81 21	22.515 203	11.08 19	61.111 392	26.99 36	23.033 180	41.53 4
10	6.7	52.919 282	44.53 28	22.311 204	11.15 7	60.716 395	26.93 6	22.851 182	41.71 18
	16.7	52.646 273	43.77 76	22.118 193	11.09 6	60.336 380	26.44 49	22.679 172	42.04 33
		252	124	172	19	343	91	155	48
	26.7	52.394	42.53	21.946	10.90	59.993	25.53	22.524	42.52
11	5.6	52.173 221	40.83 170	21.806 140	10.61 29	59.704 289	24.24 129	22.397 127	43.15 63
	15.6	51.992 181	38.70 213	21.707 99	10.25 36	59.484 220	22.62 162	22.304 93	43.93 78
	25.6	51.859 133	36.17 253	21.655 52	9.83 42	59.345 139	20.73 189	22.252 52	44.86 93
12	5.6	51.778 81	33.31 286	21.654 1	9.39 44	59.295 49	18.66 207	22.244 8	45.93 107
		24	312	53	42	44	218	37	119
	15.5	51.754	30.19	21.707	8.97	59.340	16.48	22.231	47.12
	25.5	51.789 35	26.89 330	21.810 103	8.58 39	59.477 137	14.26 222	22.362 81	48.41 129
	35.5	51.879 90	23.52 337	21.953 153	8.24 34	59.703 226	12.09 217	22.485 123	49.76 135
平位		s 52.280	″ 19.85	s 20.669	″ 15.23	s 58.466	″ 20.86	s 21.532	″ 54.69
2回正中		6月26日		6月27日		6月27日		6月27日	
a	b	+0.0931	+0.0036	+0.1915	−0.0029	+0.2758	−0.0096	+0.1567	−0.0003
a′	b′	+0.0605	+0.9982	+0.0756	+0.9971	+0.0784	+0.9969	+0.0800	+0.9968
FK3番號		684		687		686		688	

星名	ε Sgtr		109 Herc		† φ Drac *m*		χ Drac	
等級	1.95		3.92		4.24		3.69	
スペクトル型	A0		K0		A0p		F8	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 20	° ′ −34 24	h m 18 21	° ′ +21 44	h m 18 21	° ′ +71 18	h m 18 21	° ′ +72 42
	s	″	s	″	s	″	s	″
1 0.5	20.916 181	41.07 62	14.143 127	39.45 261	30.602 91	35.36 365	60.878 95	37.74 365
10.5	21.097 224	40.45 55	14.270 166	39.84 253	30.693 221	31.71 354	60.973 235	34.09 355
20.4	21.321 259	39.90 48	14.436 200	34.31 237	30.914 342	28.17 332	61.208 368	30.54 331
30.4	21.580 288	39.42 40	14.636 229	31.94 211	31.256 454	24.85 297	61.576 488	27.23 297
2 9.4	21.868 311	39.02 34	14.865 253	29.83 177	31.710 548	21.88 251	62.064 589	24.26 251
19.4	22.179 328	38.68 28	15.118 271	28.06 136	32.258 623	19.37 197	62.653 672	21.75 196
3 1.3	22.507 340	38.40 22	15.389 284	26.70 90	32.881 678	17.40 134	63.325 730	19.79 134
11.3	22.847 347	38.18 18	15.673 291	25.80 41	33.559 710	16.06 69	64.055 765	18.45 69
21.3	23.194 349	38.00 13	15.964 294	25.39 9	34.269 717	15.37 1	64.820 773	17.76 1
31.2	23.543 347	37.87 7	16.258 292	25.48 57	34.986 704	15.36 64	65.593 757	17.75 64
4 10.2	23.890 340	37.80 1	16.550 284	26.05 103	35.690 669	16.00 127	66.350 717	18.39 127
20.2	24.230 329	37.79 7	16.834 273	27.08 143	36.359 612	17.27 184	67.067 657	19.66 183
30.2	24.559 312	37.86 16	17.107 254	28.51 177	36.971 540	19.11 232	67.724 577	21.49 231
5 10.1	24.871 290	38.02 25	17.361 233	30.28 204	37.511 452	21.43 272	68.301 481	23.80 272
20.1	25.161 262	38.27 35	17.594 205	32.32 224	37.933 353	24.15 303	68.782 373	26.52 302
30.1	25.423 229	38.62 47	17.799 173	34.56 237	38.316 243	27.18 325	69.155 254	29.54 323
6 9.1	25.652 189	39.09 56	17.972 137	36.93 241	38.559 129	30.43 335	69.409 131	32.77 334
19.0	25.841 145	39.65 66	18.109 97	39.34 239	38.688 11	33.78 337	69.540 3	36.11 335
29.0	25.986 98	40.31 74	18.205 56	41.73 230	38.699 106	37.15 330	69.543 123	39.46 328
7 8.9	26.084 48	41.05 78	18.262 12	44.03 216	38.593 221	40.45 314	69.420 246	42.74 312
18.9	26.132 3	41.83 81	18.274 32	46.19 197	38.372 330	43.59 291	69.174 363	45.86 289
28.9	26.129 53	42.64 80	18.242 73	48.16 174	38.042 431	46.50 260	68.811 471	48.75 258
8 7.9	26.076 99	43.44 75	18.169 112	49.90 146	37.611 520	49.10 225	68.340 567	51.33 223
17.9	25.977 141	44.19 67	18.057 146	51.36 117	37.091 598	51.35 184	67.773 649	53.56 182
27.8	25.836 174	44.86 56	17.911 174	52.53 84	36.493 662	53.19 139	67.124 716	55.38 136
9 6.8	25.662	45.42	17.737	53.37	35.831	54.58	66.408	56.74
16.8	25.462 200	45.83 41	17.542 195	53.88 51	35.125 706	55.48 90	65.644 764	57.63 89
26.8	25.249 213	46.08 25	17.337 205	54.04 16	34.392 733	55.88 40	64.852 792	58.00 37
10 6.7	25.033 216	46.15 7	17.129 208	53.84 20	33.650 742	55.74 14	64.051 801	57.84 16
16.7	24.828 205	46.04 11	16.929 200	53.28 56	32.921 729	55.07 67	63.264 787	57.15 69
	184	27	182	93	695	120	751	122
23.7	24.644	45.77	16.747	52.35	32.226	53.87	62.513	55.93
11 5.6	24.494 150	45.34 43	16.591 156	51.08 127	31.583 643	52.14 173	61.819 694	54.19 174
15.6	24.386 108	44.80 54	16.469 122	49.47 161	31.014 569	49.92 222	61.204 615	51.97 222
25.6	24.327 59	44.16 64	16.388 81	47.56 191	30.536 478	47.26 266	60.686 518	49.29 268
12 5.6	24.321 6	43.48 68	16.351 37	45.37 219	30.164 372	44.21 305	60.282 404	46.24 305
	50	70	10	240	253	336	276	337
15.5	24.371	42.78	16.361	42.97	29.911	40.85	60.006	42.87
25.5	24.475 104	42.10 68	16.417 56	40.41 256	29.786 125	37.28 357	59.868 138	39.30 357
35.5	24.630 155	41.47 63	16.519 102	37.78 263	29.793 7	33.61 367	59.872 4	35.63 367
平位	s 23.321	″ 48.67	s 16.049	″ 33.09	s 34.537	″ 28.83	s 65.064	″ 31.27
2回正中	6月28日		6月28日		6月28日		6月28日	
a b	+ 0.1938	− 0.0041	+ 0.1239	+ 0.0025	− 0.0428	+ 0.0185	− 0.0598	+ 0.0206
a′ b′	+ 0.0888	+ 0.9960	+ 0.0927	+ 0.9957	+ 0.0940	+ 0.9956	+ 0.0962	+ 0.9954
FK3番號	689		690		693		695	

星名	*α* Tele		† 39 Drac		*λ* Sgtr		*γ* Scut	
等級	3.76		4.85		2.94		4.73	
スペクトル型	B3		A2		K0		A3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 22	° ′ −45 59	h m 18 23	° ′ +58 45	h m 18 24	° ′ −25 27	h m 18 25	° ′ −14 36
	s	″	s	″	s	″	s	″
1 0.5	41.986 203	58.89 132	1.890 100	68.38 362	24.927 163	10.84 8	54.822 150	7.13 59
10.5	42.189 254	57.57 123	1.990 178	64.76 352	25.090 202	10.76 4	54.972 185	7.72 60
20.4	42.443 297	56.34 110	2.168 249	61.24 329	25.292 235	10.72 1	55.157 217	8.32 57
30.4	42.740 334	55.24 96	2.417 313	57.95 294	25.527 261	10.71 0	55.374 241	8.89 52
2 9.4	43.074 361	54.28 80	2.730 368	55.01 249	25.788 283	10.71 1	55.615 262	9.41 42
19.4	43.435 383	53.48 65	3.098 411	52.52 194	26.071 299	10.70 4	55.877 277	9.83 30
3 1.3	43.818 398	52.83 48	3.509 442	50.58 132	26.370 310	10.66 7	56.154 288	10.13 16
11.3	44.216 407	52.35 32	3.951 461	49.26 68	26.680 316	10.59 11	56.442 295	10.29 0
21.3	44.623 409	52.03 15	4.412 466	48.58 0	26.996 320	10.48 17	56.737 297	10.29 16
31.2	45.032 408	51.88 2	4.878 460	48.58 65	27.316 319	10.31 19	57.034 297	10.13 32
4 10.2	45.440 400	51.90 19	5.338 440	49.23 128	27.635 313	10.12 23	57.331 293	9.81 44
20.2	45.840 386	52.09 38	5.778 410	50.51 183	27.948 304	9.89 22	57.624 283	9.37 55
30.2	46.226 366	52.47 55	6.188 370	52.34 232	28.252 289	9.67 22	57.907 271	8.82 63
5 10.1	46.592 339	53.02 73	6.558 319	54.66 272	28.541 270	9.45 17	58.178 252	8.19 67
20.1	46.931 305	53.75 90	6.877 262	57.38 303	28.811 245	9.28 12	58.430 228	7.52 67
30.1	47.236 265	54.65 106	7.139 197	60.41 323	29.056 215	9.16 5	58.658 201	6.85 65
6 9.1	47.501 219	55.71 119	7.336 128	63.64 334	29.271 179	9.11 4	58.859 167	6.20 60
19.0	47.720 166	56.90 131	7.464 55	66.98 335	29.450 138	9.15 12	59.026 129	5.60 53
29.0	47.886 111	58.21 138	7.519 17	70.33 328	29.588 96	9.27 20	59.155 90	5.07 44
7 8.9	47.997 51	59.59 141	7.502 91	73.61 312	29.684 50	9.47 28	59.245 46	4.63 35
18.9	48.048 8	61.00 140	7.411 161	76.73 289	29.734 2	9.75 33	59.291 2	4.28 25
28.9	48.040 67	62.40 134	7.250 227	79.62 259	29.736 43	10.08 38	59.293 40	4.03 17
8 7.9	47.973 122	63.74 122	7.023 287	82.21 223	29.693 87	10.46 38	59.253 81	3.86 8
17.9	47.851 171	64.96 107	6.736 339	84.44 183	29.606 125	10.84 38	59.172 117	3.78 2
27.8	47.680 211	66.03 86	6.397 380	86.27 137	29.481 156	11.22 34	59.055 146	3.76 4
9 6.8	47.469 240	63.89 61	6.017 412	87.64 89	29.325 180	11.56 28	58.909 168	3.80 8
16.8	47.229 257	67.50 34	5.605 430	88.53 39	29.145 193	11.84 21	58.741 181	3.88 12
26.8	46.972 261	67.84 5	5.175 435	88.92 14	28.952 196	12.05 12	58.560 183	4.00 14
10 6.7	46.711 250	67.89 24	4.740 425	88.78 68	28.756 188	12.17 4	58.377 176	4.14 18
16.7	46.461 225	67.65 53	4.315 403	88.10 120	28.568 167	12.21 4	58.201 157	4.32 20
23.7	46.236	67.12	3.912	86.90	28.401	12.17	58.044	4.52
11 5.6	46.049 187	66.33 79	3.546 366	85.18 172	28.263 138	12.03 11	57.913 131	4.76 24
15.6	45.911 138	65.32 101	3.229 317	82.98 220	28.163 100	11.91 15	57.819 94	5.05 29
25.6	45.830 81	64.14 118	2.973 256	80.33 265	28.107 56	11.73 18	57.765 54	5.40 35
12 5.6	45.811 19	62.84 130	2.783 187	77.39 303	28.101 6	11.55 18	57.756 9	5.81 41
	46	137	111	333	43	16	38	48
15.5	45.857	61.47	2.675	73.97	28.144	11.39	57.794	6.29
25.5	45.938 111	60.09 138	2.644 31	70.42 355	28.237 93	11.26 13	57.878 84	6.83 54
35.5	46.139 171	58.75 134	2.694 50	66.78 364	28.376 139	11.17 9	58.005 127	7.42 59
平位	s 44.809	″ 66.64	s 4.582	″ 61.92	s 27.135	″ 17.94	s 55.866	″ 13.94
2回正中	6月28日		6月29日		6月29日		6月29日	
a b	+ 0.2220	− 0.0038	+ 0.0439	+ 0.0111	+ 0.1849	− 0.0034	+ 0.1705	− 0.0020
a′ b′	+ 0.0991	+ 0.9951	+ 0.1005	+ 0.9949	+ 0.1065	+ 0.9943	+ 0.1130	+ 0.9936
FK3番號	691		694		692		696	

星名		ϑ CorA		Grb 2655 Drac		α Lyra		ζ Pavo	
等級	スペクトル型	4.69	G5	5.84	K0	0.14	A0	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 s 18 29	° ′ ″ − 42 21	h m s 18 32	° ′ ″ + 77 30	h m s 18 34	° ′ ″ + 38 43	h m s 18 36	° ′ ″ − 71 28
1	0.5	23.264	13.09	25.330	22.06	58.598	52.84	17.416	42.58
	10.5	23.450 186	11.95 114	25.360 30	18.46 360	58.500 102	49.64 320	17.731 315	39.91 267
	20.4	23.684 234	10.88 107	25.587 227	14.94 352	58.650 150	46.51 313	18.166 435	37.37 254
	30.4	23.959 275	9.92 96	26.002 415	11.61 333	58.845 195	43.57 294	18.707 541	35.03 234
2	9.4	24.268 309	9.06 86	26.590 588	8.59 302	59.079 234	40.93 264	19.339 632	32.94 209
		336	73	740	260	268	224	707	179
	19.4	24.604	8.33	27.330	5.99	59.347	38.69	20.046	31.15
3	1.3	24.962 358	7.71 62	28.193 863	3.92 207	59.641 294	36.93 176	20.812 766	29.69 146
	11.3	25.335 373	7.22 49	29.149 956	2.44 148	59.955 314	35.71 122	21.623 811	28.59 110
	21.3	25.717 382	6.86 36	30.162 1013	1.61 83	60.281 326	35.09 62	22.460 837	27.87 72
	31.3	26.104 387	6.63 23	31.196 1034	1.43 18	60.614 333	35.06 3	23.311 851	27.53 34
		336	10	1022	48	332	57	849	4
4	10.2	26.490	6.53	32.218	1.91	60.946	35.63	24.160	27.57
	20.2	26.870 380	6.58 5	33.192 974	3.01 110	61.271 325	35.76 113	24.992 832	28.01 44
	30.2	27.238 368	6.78 20	34.087 895	4.68 167	61.580 309	38.40 164	25.793 801	28.82 81
5	10.1	27.589 351	7.14 36	34.878 791	6.86 218	61.868 288	40.49 209	26.549 756	29.99 117
	20.1	27.917 328	7.65 51	35.538 660	9.45 259	62.129 261	42.93 244	27.243 694	31.50 151
		296	68	513	292	226	272	618	183
	30.1	28.213	8.33	36.051	12.37	62.355	45.65	27.861	33.33
6	9.1	28.473 260	9.15 82	36.403 352	15.53 316	62.543 188	48.57 292	28.590 529	35.42 209
	19.0	28.690 217	10.11 96	36.585 182	18.82 329	62.686 143	51.58 301	28.818 428	37.72 230
	29.0	28.858 168	11.19 108	36.593 8	22.16 334	62.783 97	54.61 303	29.133 315	40.19 247
7	8.9	28.974 116	12.35 116	36.427 166	25.45 329	62.830 47	57.57 296	29.328 195	42.76 257
		60	122	335	317	5	282	70	259
	18.9	29.034	13.57	36.092	23.62	62.825	60.59	29.398	45.35
	28.9	29.036 2	14.79 122	35.596 496	31.58 296	62.771 54	63.00 261	29.341 57	47.89 254
8	7.9	28.983 53	15.99 120	34.950 646	34.27 269	62.668 103	65.35 235	29.160 181	50.29 240
	17.9	28.877 106	17.10 111	34.172 778	35.62 235	62.520 148	67.38 203	28.863 297	52.48 219
	27.8	28.724 153	18.09 99	33.278 894	38.59 197	62.333 187	69.05 167	28.461 402	54.38 190
		192	82	990	153	220	128	489	154
9	6.8	28.532	18.91	32.288	40.12	62.113	70.33	27.972	55.92
	16.8	28.311 221	19.52 61	31.228 1060	41.19 107	61.868 245	71.18 85	27.415 557	57.03 111
	26.8	28.072 239	19.89 37	30.121 1107	41.77 58	61.609 259	71.59 41	26.816 599	57.67 64
10	6.7	27.829 243	20.01 12	28.995 1126	41.83 6	61.344 265	71.54 5	26.201 615	57.81 14
	16.7	27.594 235	19.87 14	27.878 1117	41.36 47	61.086 258	71.02 52	25.597 604	57.43 38
		212	39	1078	100	242	99	561	87
	26.7	27.382	19.48	26.800	40.36	60.844	70.03	25.036	56.56
11	5.7	27.204 178	18.85 63	25.789 1011	38.83 153	60.628 216	68.59 144	24.542 494	55.21 135
	15.6	27.071 133	18.03 82	24.874 915	36.81 202	60.447 181	66.71 188	24.140 402	53.44 177
	25.6	26.991 80	17.04 99	24.082 792	34.33 248	60.310 137	64.44 227	23.850 290	51.31 213
12	5.6	26.939 22	15.95 109	23.438 644	31.44 289	60.221 89	61.81 263	23.685 165	48.91 240
		39	116	475	322	37	291	30	259
	15.5	27.008	14.79	22.963	28.22	60.184	58.90	23.655	46.32
	25.5	27.107 99	13.61 118	22.672 291	24.76 346	60.201 17	55.79 311	23.761 106	43.64 268
	35.5	27.262 155	12.46 115	22.576 96	21.17 359	60.271 70	52.58 321	24.002 241	40.95 269
平位		s 25.949	″ 20.20	s 30.745	″ 14.69	s 60.442	″ 46.19	s 23.240	″ 49.62
2回正中		6月30日		7月1日		7月2日		7月2日	
a	b	+ 0.2136	− 0.0078	− 0.1445	+ 0 0425	+ 0.1005	+ 0.0081	+ 0.3498	− 0.0315
a′	b′	+ 0.1281	+ 0.9918	+ 0.1414	+ 0.9900	+ 0.1522	+ 0.9884	+ 0.1581	+ 0.9874
FK3番號		697		700		699		698	

星名		Grb 2640 Drac		ε Scut		110 Herc		λ Pavo	
等級	スペクトル型	6.00	A3	5.09	G5	4.26	F5	4.42	B2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m s 18 35	° ′ ″ + 65 26	h m s 18 40	° ′ ″ − 8 19	h m s 18 43	° ′ ″ + 20 29	h m s 18 46	° ′ ″ − 62 15
1	0.5	59.416	22.46	22.963	53.23	10.545	32.22	52.317	14.24
	10.5	59.511 95	18.82 364	23.093 130	54.16 93	10.649 104	29.71 251	52.535 219	11.94 230
	20.5	59.705 194	15.25 357	23.259 166	55.07 91	10.793 144	27.23 245	52.836 300	9.73 221
	30.4	59.988 283	11.86 339	23.455 196	55.93 86	10.972 179	24.94 232	53.207 371	7.66 207
2	9.4	60.354 366	8.80 306	23.678 223	56.70 77	11.182 210	22.85 209	53.641 434	5.78 188
		435	263	245	62	235	178	484	165
	19.4	60.789	6.17	23.923	57.32	11.417	21.07	54.125	4.13
3	1.3	61.280 491	4.07 210	24.184 261	57.77 45	11.674 257	19.68 139	54.651 526	2.74 139
	11.3	61.812 532	2.57 150	24.459 275	58.01 24	11.946 272	18.72 96	55.208 557	1.63 111
	21.3	62.387 555	1.72 85	24.742 283	58.04 3	12.230 284	18.24 48	55.786 578	0.81 82
	31.3	62.930 563	1.54 18	25.031 289	57.83 21	12.521 291	18.24 0	56.376 590	0.31 50
		553	48	290	42	292	48	594	18
4	10.2	63.483	2.02	25.321	57.41	12.813	18.72	53.970	0.13
	20.2	64.012 529	3.14 112	25.610 289	56.80 61	13.102 289	19.65 93	57.556 586	0.27 14
	30.2	64.500 488	4.84 170	25.891 281	56.02 78	13.382 280	20.99 134	58.127 571	0.74 47
5	10.2	64.935 435	7.05 222	26.161 270	55.12 90	13.649 267	22.68 169	58.672 545	1.52 78
	20.1	65.305 370	9.70 264	26.415 254	54.13 99	13.893 247	24.65 197	59.180 508	2.60 108
		295	298	232	103	222	219	460	137
	30.1	65.600	12.68	26.647	53.10	14.118	25.84	59.640	3.97
6	9.1	65.814 214	15.89 321	26.853 206	52.03 104	14.311 193	29.16 232	60.044 404	5.60 163
	19.0	65.940 126	19.25 336	27.025 173	51.05 100	14.469 158	31.55 239	60.380 336	7.45 185
	29.0	65.976 36	22.66 341	27.164 138	50.13 93	14.538 119	33.93 238	60.641 261	9.47 202
7	8.9	65.922 54	26.03 337	27.262 98	49.28 85	14.665 77	35.23 233	60.820 179	11.61 214
		144	323	55	73	33	219	93	221
	18.9	65.778	29.26	27.317	48.55	14.698	38.45	60.913	13.82
	28.9	65 548 230	32.29 303	27.330 13	47.93 62	14.688 10	40.47 202	60.916 3	16.01 219
8	7.9	65 239 309	35.04 275	27.300 30	47.44 49	14.634 54	42.27 180	60.832 84	18.13 212
	17.9	64.858 381	37.45 241	27.229 71	47.08 36	14.540 94	43.81 154	60.665 167	20.10 197
	27.9	64.417 441	39.47 202	27.122 107	46.83 25	14.409 131	45.07 126	60.423 242	21.84 174
		491	158	137	13	161	96	308	145
9	6.8	63.926	41.05	26.985	46.70	14.248	46.03	60.115	23.29
	16.8	63.399 527	42.15 110	26.823 162	46.68 2	14.033 185	46.66 63	59.758 357	24.40 111
	26.8	62.851 548	42.76 61	26.648 175	46.75 7	13.833 200	46.95 29	59.357 391	25.11 71
10	6.7	62.298 553	42.83 7	26.468 180	46.91 16	13.658 205	46.90 5	58.931 406	25.39 28
	16.7	61.756 542	42.36 47	26.292 176	47.17 26	13.457 201	46.50 40	58.562 399	25.23 16
		514	100	160	34	187	76	374	60
	26.7	61.242	41.36	26.132	47.51	13.270	45.74	58.188	24.63
11	5.7	60.771 471	39.82 154	25.997 135	47.95 44	13.107 163	44.64 110	57.859 329	23.60 103
	15.6	60.358 413	37.77 205	25.893 104	48.48 53	12.973 134	43.20 144	57.592 267	22.20 140
	25.6	60.018 340	35.23 251	25.828 65	49.11 63	12.878 95	41.46 174	57.401 191	20.48 172
12	5.6	59.761 257	32.33 293	25.805 23	49.84 73	12.824 54	39.43 203	57.295 106	18.49 199
		165	326	21	81	10	224	15	216
	15.6	59.596	29.07	25.823	50.65	12.814	37.19	57.280	16.33
	25.5	59.529 67	25.56 351	25.892 66	51.54 89	12.850 36	34.77 242	57.359 79	14.06 227
	35.5	59.532 33	21.92 364	25.999 107	52.47 93	12.929 79	32.23 251	57.529 170	11.76 230
平位		s 62.503	″ 15.14	s 24.947	″ 59.44	s 12.428	″ 25.62	s 56.461	″ 20.03
2回正中		7月2日		7月3日		7月4日		7月5日	
a	b	+ 0.0093	+ 0.0228	+ 0.1629	+ 0.0017	+ 0.1289	+ 0.0047	+ 0.2774	− 0.0258
a′	b′	+ 0.1566	+ 0.9877	+ 0.1754	+ 0.9845	+ 0.1874	+ 0.9823	+ 0.2034	+ 0.9791
FK3番號		701		702		703		704	

星名		β Lyra		o Drac		σ Sgtr		ϑ Serp *pr*	
等級		3.4–4.3		4.78		2.14		4.50	
スペクトル型		B8p, B2p		K0		B3		A5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 18 47	° ′ +33 17	h m 18 50	° ′ +59 18	h m 18 51	° ′ −26 21	h m 18 53	° ′ + 4 7
		s	″	s	″	s	″	s	″
1	0.5	56.480 89	50.36 300	18.980 48	73.46 358	41.630 136	64.12 24	21.208 107	46.91 162
	10.5	56.569 134	47.36 296	19.028 127	69.88 355	41.766 175	63.88 22	21.315 143	45.29 160
	20.5	56.703 175	44.40 280	19.155 204	66.33 339	41.941 211	63.66 23	21.458 175	43.69 150
	30.4	56.878 212	41.60 255	19.359 273	62.94 310	42.152 240	63.43 22	21.633 204	42.19 135
2	9.4	57.090 245	39.05 218	19.632 333	59.84 271	42.392 264	63.21 25	21.837 227	40.84 113
	19.4	57.335 270	36.87 174	19.965 386	57.13 219	42.656 285	62.96 27	22.064 246	39.71 86
3	1.4	57.605 291	35.13 124	20.351 426	54.94 162	42.941 300	62.69 31	22.310 261	38.85 55
	11.3	57.896 305	33.89 68	20.777 454	53.32 99	43.241 312	62.38 35	22.571 273	38.30 22
	21.3	58.201 314	33.21 7	21.231 469	52.33 32	43.553 319	62.03 39	22.844 281	38.08 14
	31.3	58.515 316	33.10 11	21.700 472	52.01 34	43.872 323	61.64 41	23.125 284	38.22 47
	10.2	58.831 313	33.55 99	22.172 461	52.35 97	44.195 323	61.23 43	23.409 284	38.69 78
4	20.2	59.144 302	34.54 148	22.633 438	53.32 157	44.518 316	60.80 42	23.693 278	39.47 107
	30.2	59.446 285	36.02 191	23.071 405	54.89 209	44.834 307	60.38 38	23.971 268	40.54 130
5	10.2	59.731 263	37.93 228	23.476 360	56.98 253	45.141 290	60.00 33	24.239 253	41.84 148
	20.1	59.994 233	40.21 254	23.836 305	59.51 289	45.431 268	59.67 25	24.492 232	43.32 160
	30.1	60.227 199	42.75 274	24.141 244	62.40 316	45.699 240	59.42 15	24.724 206	44.92 167
6	9.1	60.426 160	45.49 286	24.385 176	65.56 332	45.939 206	59.27 5	24.930 175	46.59 169
	19.0	60.586 115	48.35 288	24.561 103	68.88 339	46.145 167	59.22 8	25.105 139	48.28 165
	29.0	60.701 70	51.23 283	24.664 29	72.27 338	46.312 124	59.30 18	25.244 101	49.93 157
7	8.9	60.771 21	54.06 271	24.693 47	75.65 328	46.436 78	59.48 29	25.345 58	51.50 145
	18.9	60.792	56.77 252	24.646 121	78.93 309	46.514 29	59.77 37	25.403 16	52.95 131
	28.9	60.765 27	59.29 229	24.525 193	82.02 284	46.543 19	60.14 44	25.419 27	54.26 113
8	7.9	60.691 74	61.58 199	24.332 257	84.86 252	46.524 65	60.58 48	25.392 67	55.39 95
	17.9	60.572 119	63.57 167	24.075 314	87.38 215	46.459 107	61.06 49	25.325 104	56.34 74
	27.9	60.414 158 191	65.24 130	23.761 364	89.53 173	46.352 142	61 55 47	25.221 135	57.08 54
	6.8	60.223 217	66.54 91	23.397 402	91.26 126	46.210 170	62.02 43	25.086 160	57.62 33
9	16.8	60.006 234	67.45 49	22.995 428	92.52 78	46.040 189	62.45 35	24.926 175	57.95 12
	26.8	59.772 241	67.94 7	22.567 440	93.30 25	45.851 196	62.80 26	24.751 183	58.07 9
10	6.7	59.531 237	68.01 37	22.127 438	93.55 27	45.655 193	63.06 17	24.568 179	57.98 30
	16.7	59.294 224	67.64 81	21.689 423	93.28 82	45.462 178	63.23 6	24.389 167	57.68 51
	26.7	59.070 202	66.83 125	21.266 394	92.46 135	45.284 153	63.29 3	24.222 145	57.17 73
11	5.7	58.868 169	65.58 166	20.872 351	91.11 187	45.131 119	63.26 11	24.077 116	56.44 92
	15.6	58.699 131	63.92 204	20.521 297	89.24 234	45.012 77	63.15 17	23.961 81	55.52 112
	25.6	58.568 87	61.88 239	20.224 232	86.90 278	44.935 33	62.98 21	23.880 41	54.40 129
12	5.6	58.481 38	59.49 267	19.992 161	84.12 313	44.902 16	62.77 23	23.839 1	53.11 145
	15.6	58.443 11	56.82 288	19.831 83	80.99 339	44.918 65	62.54 24	23.840 44	51.66 156
	25.5	58.454 59	53.94 300	19.748 3	77.60 356	44.983 111	62.30 22	23.884 84	50.10 162
	35.5	58.513	50.94	19.745	74.04	45.094	62.08	23.968	48.48
平位		s 58.433	″ 43.34	s 21.597	″ 65.50	s 43.882	″ 69.57	s 23.100	″ 40.80
2回正中		7月 5日		7月 5日		7月 6日		7月 6日	
a b		+ 0.1105	+ 0.0910	+ 0.0437	+ 0.0245	+ 0.1855	− 0.0074	+ 0.1486	+ 0.0011
a′ b′		+ 0.2078	+ 0.9782	+ 0.2180	+ 0.9760	+ 0.2238	+ 0.9746	+ 0.2308	+ 0.9730
FK3番號		705		707		706		709	

星名		R Lyra		λ Tele		ξ^2 Sgtr		υ Drac	
等級		4.0–4.5		5.03		3.61		4.91	
スペクトル型		M3		B9		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 18 53	° ′ +43 52	h m 18 53	° ′ −53 0	h m 18 54	° ′ −21 10	h m 18 55	° ′ +71 13
		s	″	s	″	s	″	s	″
1	0.5	33.866	19.86	51.109	50.22 185	17.610 127	54.66 8	2.386	25.84
	10.5	33.936 70	16.55 331	51.284 175	48.37 185	17.737 166	54.74 8	2.376 10	22.24 360
	20.5	34.060 124	13.27 328	51.521 237	46.58 179	17.903 200	54.82 8	2.496 120	18.66 358
	30.4	34.234 174	10.15 312	51.812 291	44.88 170	18.103 228	54.88 6	2.743 247	15.21 345
2	9.4	34.454 220	7.30 285	52.150 338	43.32 156	18.331 252	54.92 4	3.108 365	12.02 319
		260	247	378	140		3	470	279
	19.4	34.714	4.83 200	52.528 410	41.92 122	18.583 272	54.89 9	3.578	9.23
3	1.4	35.008 294	2.83 146	52.938 434	40.70 101	18.855 287	54.80 18	4.137 559	6.92 231
	11.3	35.328 320	1.37 86	53.372 452	39.69 80	19.142 298	54.62 28	4.767 630	5.18 174
	21.3	35.667 339	0.51 24	53.824 463	38.89 58	19.440 307	54.34 37	5.447 680	4.07 111
	31.3	36.018 351	0.27 37	54.287 468	38.31 33	19.747 310	53.97 45	6.153 706 712	3.62 45 21
	10.2	36.372	0.64	54.755	37.98	20.057	53.52	6.865	3.83
4	20.2	36.722 350	1.61 97	55.220 465	37.89 9	20.367 310	53.01 51	7.558 693	4.69 86
	30.2	37.059 337	3.13 152	55.677 457	38.06 17	20.673 306	52.45 56	8.213 655	6.16 147
5	10.2	37.377 318	5.13 200	56.115 438	38.49 43	20.969 296	51.88 57	8.810 597	8.16 200
	20.1	37.666 289 254	7.54 241 274	56.528 413 379	39.17 68 93	21.250 281 259	51.33 55 51	9.331 521 433	10.62 246 284
	30.1	37.920	10.28	56.907	40.10 115	21.509	50.82	9.764	13.46
6	9.1	38.134 214	13.25 297	57.244 337	41.25 137	21.743 234	50.39 43	10.095 331	16.59 313
	19.1	38.301 167	16.37 312	57.531 287	42.62 154	21.943 200	50.04 35	10.316 221	19.90 331
	29.0	38.418 117	19.54 317	57.759 228	44.16 167	22.106 163	49.80 24	10.423 107	23.31 341
7	8.9	38.481 63 8	22.69 315 304	57.924 165 98	45.83 176	22.228 122 77	49.67 13 2	10.411 12 128	26.72 341 333
	18.9	38.489	25.73	58.022	47.59 179	22.305	49.65 8	10.283	30.05
	28.9	38.442 47	28.58 285	58.049 27	49.38 175	22.335 30	49.73 16	10.041 242	33.22 317
8	7.9	38.342 100	31.20 262	58.007 42	51.13 175	22.319 16	49.89 24	9.690 351	36.15 293
	17.9	38.192 150	33.51 231	57.898 109	52.79 166	22.259 60	50.13 28	9.242 448	38.77 262
	27.9	37.997 195 232	35.46 195 157	57.728 170 222	54.30 151 129	22.158 101 136	50.41 31	8.706 536 610	41.04 227 186
	6.8	37.765	37.03	57.506	55.59 102	22.022	50.72	8.096	42.90
9	16.8	37.503 262	38.16 113	57.243 263	56.61 70	21.860 162	51.02 30	7.427 669	44.30 140
	26.8	37.222 281	38.84 68	56.951 292	57.31 70	21.679 181	51.31 29	6.718 709	45.21 91
10	6.8	36.931 291	39.04 20	56.647 304	57.66 35	21.491 188	51.56 25	5.986 732	45.61 40
	16.7	36.642 289 277	38.75 29 78	56.346 301 281	57.66 0 37	21.306 185 171	51.76 20 16	5.252 734 716	45.47 14 69
	26.7	36.365	37.97	56.065	57.29	21.135	51.92	4.536	44.78
11	5.7	36.113 252	36.69 128	55.817 248	56.56 73	20.987 148	52.04 12	3.858 678	43.55 123
	15.6	35.893 220	34.95 174	55.618 199	55.52 104	20.871 116	52.12 8	3.238 620	41.79 176
	25.6	35.715 178	32.77 218	55.476 142	54.20 132	20.795 76	52.19 7	2.696 542	39.53 226
12	5.6	35.585 130 77	30.19 258 290	55.401 75 4	52.66 154 170	20.762 33 13	52.25 6 6	2.248 448 340	36.83 270 308
	15.6	35.508	27.29	55.397	50.96	20.775	52.31	1.908	33.75
	25.5	35.487 21	24.15 314	55.464 67	49.16 180	20.835 60	52.39 8	1.688 220	30.38 337
	35.5	35.523 36	20.86 329	55.602 138	47.33 183	20.939 104	52.48 9	1.595 93	26.82 356
平位		s 35.956	″ 12.30	s 54.407	″ 55.28	s 19.764	″ 60.05	s 6.075	″ 17.22
2回正中		7月 6日		7月 6日		7月 6日		7月 7日	
a b		+ 0.0910	+ 0.0149	+ 0.2394	− 0.0206	+ 0.1784	− 0.0061	− 0.0371	+ 0.0467
a′ b′		+ 0.2317	+ 0.9728	+ 0.2331	+ 0.9725	+ 0.2348	+ 0.9720	+ 0.2381	+ 0.9712
FK3番號		711		708		710		714	

星名	γ Lyra		ε Aqil		†ζ Sgtr *m*		ζ Aqil	
等級	3.30		4.21		2.71		3.02	
スペクトル型	A0p		K0		A2		A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 18 56	° ′ +32 36	h m 18 57	° ′ +14 59	h m 18 58	° ′ −29 57	h m 19 2	° ′ +13 46
1 0.5	s 46.659	″ 43.94	s 0.193	″ 28.66	s 56.828	″ 43.75	s 45.489	″ 44.87
10.5	46.738 79	40.99 295	0.287 94	26.47 219	56.959 131	43.26 49	45.579 90	42.75 212
20.5	46.862 124	38.06 293	0.420 133	24.30 217	57.132 173	42.78 48	45.707 128	40.66 209
30.4	47.027 165	35.27 279	0.587 167	22.25 205	57.342 210	42.31 47	45.869 162	38.68 198
2 9.4	47.230 203	32.73 254	0.784 197	20.40 185	57.583 241	41.84 47	46.061 192	36.88 180
	235	219	223	158	267	46	218	154
19.4	47.465	30.54	1.007	18.82	57.850	41.38	46.279	35.34
3 1.4	47.728 263	28.77 177	1.251 244	17.57 125	58.139 289	40.92 46	46.520 241	34.14 120
11.3	48.012 284	27.50 127	1.513 262	16.72 85	58.446 307	40.44 48	46.778 258	33.31 83
21.3	48.312 300	26.77 73	1.787 274	16.30 42	58.765 319	39.97 47	47.050 272	32.89 42
31.3	48.622 310	26.60 17	2.070 283	16.31 1	59.093 328	39.49 48	47.331 281	32.90 1
	315	40	288	45	334	48	287	44
4 10.2	48.937	27.00	2.358	16.76	59.427	39.01	47.618	33.34
20.2	49.250 313	27.93 93	2.645 287	17.62 86	59.760 333	38.57 44	47.905 287	34.18 84
30.2	49.554 304	29.35 142	2.926 281	18.85 123	60.090 330	38.17 40	48.187 282	35.39 121
5 10.2	49.844 290	31.21 186	3.196 270	20.40 155	60.409 319	37.84 33	48.460 273	36.91 152
20.1	50.112 268	33.44 223	3.450 254	22.21 181	60.713 304	37.60 24	48.717 257	38.68 177
	240	251	232	201	282	14	236	196
30.1	50.352	35.95	3.682	24.22	60.995	37.46 1	48.953	40.64
6 9.1	50.559 207	38.66 271	3.887 205	26.35 213	61.249 254	37.45 12	49.163 210	42.73 209
19.1	50.728 169	41.49 283	4.059 172	28.53 218	61.468 219	37.57 24	49.341 178	44.87 214
29.0	50.853 125	44.36 287	4.194 135	30.72 219	61.648 180	37.81 38	49.482 141	47.01 214
7 9.0	50.933 80	47.19 283	4.290 96	32.83 211	61.783 135	38.19 48	49.583 101	49.09 208
	32	272	52	201	87		59	196
18.9	50.965	49.91	4.342	34.84	61.870	38.67	49.642	51.05
28.9	50.948 17	52.46 255	4.350 8	36.68 184	61.907 37	39.24 57	49.657 15	52.86 181
8 7.9	50.884 64	54.78 232	4.316 34	38.32 164	61.894 13	39.87 63	49.629 28	54.47 161
17.9	50.775 109	56.82 204	4.240 76	39.74 142	61.833 61	40.53 66	49.559 70	55.86 139
27.9	50.625 150	58.53 171	4.127 113	40.89 115	61.728 105	41.19 66	49.452 107	57.00 114
	183	136	145	89	143	62	140	88
9 6.8	50.442	59.89	3.982	41.78	61.585	41.81	49.312	57.88
16.8	211	60.87 98	3.812 170	42.38 60	61.412 173	42.35 54	49.147 165	58.48 60
26.8	50.231 228	61.44 57	3.626 186	42.69 31	61.219 193	42.80 45	48.964 183	58.79 31
10 6.8	50.003 237	61.59 15	3.432 194	42.69 0	61.016 203	43.12 32	48.773 191	58.81 2
16.7	49.766 235	61.30 29	3.240 192	42.39 30	60.816 200	43.30 18	48.583 190	58.53 28
	49.531 224	72	180	61	187	5	179	57
26.7	49.307	60.58	3.060	41.78	60.629	43.35	48.404	57.96
11 5.7	202	59.43 115	2.901 159	40.86 92	60.467 162	43.26 9	48.245 159	57.09 87
15.6	49.105 173	57.86 157	2.770 131	39.65 121	60.339 128	43.05 21	48.113 132	55.94 115
25.6	48.932 135	55.90 196	2.674 96	38.16 149	60.252 87	42.74 31	48.015 98	54.53 141
12 5.6	48.797 92	53.60 230	2.618 56	36.43 173	60.211 41	42.35 39	47.956 59	52.87 166
	48.705 46	260	15	194	9	44	17	187
15.6	48.659	51.00	2.603	34.49	60.220	41.91	47.939	51.00
25.5	2	48.19 281	2.632 29	32.39 210	60.278 58	41.45 46	47.963 24	48.99 201
35.5	48.712 51	45.25 294	2.703 71	30.20 219	60.383 105	40.98 47	47.977 14	46.87 212
平位	s 48.588	″ 36.73	s 2.054	″ 22.19	s 59.165	″ 48.65	s 47.344	″ 38.47
2回正中	7月 7日		7月 7日		7月 8日		7月 9日	
a b	+0.1120	+0.0105	+0.1360	+0.0044	+0.1905	−0.0098	+0.1376	+0.0044
a′ b′	+0.2453	+0.9694	+0.2463	+0.9692	+0.2545	+0.9671	+0.2706	+0.9627
FK3番號	713		712		715		716	

星名	λ Aqil		ι Lyra		α CorA		π Sgtr	
等級	3.55		5.13		4.12		3.02	
スペクトル型	B9		B5		A2		F2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 19 3	° ′ −4 57	h m 19 5	° ′ +36 0	h m 19 5	° ′ −37 59	h m 19 6	° ′ −21 6
1 0.5	s 11.450	″ 64.93	s 14.014	″ 42.74	s 33.207	″ 38.34	s 20.319	″ 52.89
10.5	11.554 104	65.99 106	14.079 65	39.69 305	33.340 133	37.34 100	20.434 115	52.94 5
20.5	11.695 141	67.04 105	14.191 112	36.66 303	33.519 179	36.34 100	20.587 153	52.98 4
30.4	11.868 173	68.02 98	14.348 157	33.75 291	33.739 220	35.38 96	20.775 188	53.00 2
2 9.4	12.069 201	68.88 86	14.545 197	31.08 267	33.995 256	34.45 93	20.992 217	52.97 3
	224	70	232	233	286	88	243	9
19.4	12.293	69.58	14.777	28.75	34.281	33.57	21.235	52.88
3 1.4	12.538 245	70.08 50	15.039 262	26.86 189	34.592 311	32.75 82	21.498 263	52.72 16
11.3	12.799 261	70.35 27	15.326 287	25.47 139	34.923 331	31.98 77	21.779 281	52.46 26
21.3	13.072 273	70.37 2	15.632 306	24.62 85	35.270 347	31.29 69	22.073 294	52.10 36
31.3	13.354 282	70.12 25	15.950 318	24.36 26	35.627 357	30.68 61	22.376 303	51.65 45
	288	49	324	32	365	52	310	53
4 10.3	13.642	69.63	16.274	24.68	35.992	30.16	22.686	51.12
20.2	13.931 289	68.91 72	16.598 324	25.55 87	36.357 365	29.74 42	22.997 311	50.52 60
30.2	14.216 285	67.99 92	16.913 315	26.95 140	36.718 361	29.45 29	23.306 309	49.88 64
5 10.2	14.494 278	66.91 108	17.215 302	28.80 185	37.070 352	29.31 14	23.607 301	49.23 65
20.1	14.758 264	65.72 119	17.495 280	31.04 224	37.405 335	29.32 1	23.895 288	48.61 62
	244	125	251	256	312	17	267	58
30.1	15.002	64.47	17.746	33.60	37.717	29.49	24.162	48.03
6 9.1	15.222 220	63.19 128	17.964 218	36.38 278	37.998 281	29.84 35	24.405 243	47.52 51
19.1	15.412 190	61.93 126	18.142 178	39.30 292	38.242 244	30.35 51	24.616 211	47.12 40
29.0	15.567 155	60.74 119	18.275 133	42.29 299	38.444 202	31.03 68	24.790 174	46.82 30
7 9.0	15.683 116	59.64 110	18.361 86	45.25 296	38.597 153	31.85 82	24.923 133	46.65 17
	74	98	36	286	100	93	88	5
18.9	15.757	58.66	18.397	48.11	38.697	32.78	25.011	46.60
28.9	15.787 30	57.82 84	18.382 15	50.81 270	38.743 46	33.80 102	25.053 42	46.66 6
8 7.9	15.775 12	57.12 70	18.318 64	53.29 248	38.733 10	34.86 106	25.048 5	46.82 16
17.9	15.720 55	56.58 54	18.208 110	55.49 220	38.671 62	35.92 106	24.997 51	47.07 25
27.9	15.627 93	56.18 40	18.054 154	57.36 187	38.560 111	36.94 102	24.905 92	47.37 30
	125	24	189	151	153	92	127	33
9 6.8	15.502	55.94	17.865	58.87	38.407	37.86	24.778	47.70
16.8	15.349 153	55.83 11	17.647 218	59.99 112	38.219 188	38.65 79	24.620 158	48.05 35
26.8	15.180 169	55.86 3	17.408 239	60.70 71	38.007 212	39.26 61	24.444 176	48.37 32
10 6.8	15.002 178	56.01 15	17.160 248	60.96 26	37.784 223	39.68 42	24.257 187	48.67 30
16.7	14.826 176	56.29 28	16.911 249	60.77 19	37.562 222	39.87 19	24.072 185	48.93 26
	165	40	238	65	209	3	174	21
26.7	14.661	56.69	16.673	60.12	37.353	39.84	23.898	49.14
11 5.7	14.516 145	57.20 51	16.454 219	59.02 110	37.169 184	39.59 25	23.745 153	49.30 16
15.7	14.399 117	57.84 64	16.265 189	57.48 154	37.020 149	39.15 44	23.623 122	49.42 12
25.6	14.318 81	58.58 74	16.112 153	55.53 195	36.915 105	38.52 63	23.538 85	49.50 8
12 5.6	14.275 43	59.44 86	16.002 110	53.21 232	36.860 55	37.75 77	23.495 43	49.58 8
	0	95	63	263	1	87	2	6
15.6	14.275	60.39	15.939	50.58	36.859	36.88	23.497	49.64
25.5	14.316 41	61.42 103	15.925 14	47.71 287	36.911 52	35.93 95	23.545 48	49.71 7
35.5	14.399 83	62.49 107	15.960 35	44.68 303	37.015 104	34.95 98	23.636 91	49.77 6
平位	s 13.396	″ 10.45	s 15.957	″ 35.16	s 35.780	″ 42.57	s 22.474	″ 57.60
2回正中	7月 9日		7月 9日		7月 9日		7月 10日	
a b	+0.1589	+0.0016	+0.1068	+0.0136	+0.2033	−0.0147	+0.1780	−0.0074
a′ b′	+0.2724	−0.9622	+0.2809	+0.9597	+0.2823	+0.9593	+0.2856	+0.9584
FK3番號	717		719		718		720	

星名	† 60 G. Pavo *m*		δ Drac		43 Sgtr		ϑ Lyra	
等級	5.57		3.24		5.03		4.46	
スペクトル型	A2		K0		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 s 19 11	° ′ ″ − 66 45	h m s 19 12	° ′ ″ + 67 33	h m s 19 14	° ′ ″ − 19 3	h m s 19 14	° ′ ″ + 38 1
1 0.5	24.070 184	41.32 259	29.642	50.17 356	15.905 104	17.58 15	21.342 52	60.09
10.5	24.254 281	38.73 255	29.608 34	46.61 358	16.009 143	17.73 14	21.394 100	57.00 309
20.5	24.535 370	36.18 245	29.683 75	43.03 349	16.152 177	17.87 11	21.494 146	53.91 309
30.4	24.905 451	33.73 229	29.864 181	39.54 326	16.329 207	17.98 4	21.640 188	50.94 297
2 9.4	25.356 517	31.44 207	30.146 282 373	36.28 291	16.536 232	18.02 3	21.828 226	48.19 275 242
19.4	25.873	29.37 182	30.519	33.37 246	16.768 255	17.99 13	22.054 259	45.77 199
3 1.4	26.447 574	27.55 154	30.971 452	30.91 191	17.023 272	17.86 24	22.313 286	43.78 150
11.3	27.067 620	26.01 122	31.488 517	29.00 130	17.295 286	17.62 36	22.599 308	42.28 94
21.3	27.721 654	24.79 88	32.054 566	27.70 65	17.581 298	17.26 47	22.907 321	41.34 36
31.3	28.398 677 689	23.91 53	32.651 597 609	27.05 2	17.879 305	16.79 59	23.228 331	40.98 23
10.3	29.087 690	23.38 17	33.260 603	27.07 68	18.184 308	16.20 66	23.559 331	41.21 81
4 20.2	29.777 677	23.21 20	33.863 580	27.75 128	18.492 306	15.54 73	23.890 116	42.02 134
30.2	30.454 655	23.41 57	34.443 539	29.03 185	18.798 300	14.81 76	24.215 325	43.36 181
5 10.2	31.109 617	23.98 92	34.982 483	30.88 234	19.098 288	14.05 75	24.527 312	45.17 223
20.1	31.726 568	24.90 126	35.465 414	33.22 274	19.386 269	13.30 72	24.817 290 263	47.40 256
30.1	32.294	26.16 158	35.879	35.96 307	19.655 245	12.58 64	25.080 228	49.96 280
6 9.1	32.800 506	27.74 185	36.213 334	39.03 328	19.900 215	11.94 56	25.308 189	52.76 297
19.1	33.232 432	29.59 209	36.458 245	42.31 342	20.115 179	11.38 44	25.497 143	55.73 304
29.0	33.578 346	31.68 225	36.607 149	45.73 346	20.294 138	10.94 33	25.640 94	58.77 304
7 9.0	33.832 254 152	33.93 238	36.658 51 49	49.19 341	20.432 95	10.61 19	25.734 44	61.81 296
18.9	33.984 48	36.31 241	36.609 148	52.60	20.527 48	10.42 7	25.778 8	64.77 280
28.9	34.032 57	38.72 237	36.461 243	55.88 328	20.575 2	10.35 5	25.770 60	67.57 259
8 7.9	33.975 158	41.09 225	36.218 330	58.95 307	20.577 43	10.40 14	25.710 108	70.16 233
17.9	33.817 251	43.34 206	35.888 410	61.75 280	20.534 85	10.54 22	25.602 152	72.49 200
27.9	33.566 334	45.40 178	35.478 478	64.21 246 207	20.449 122	10.76 28	25.450 191	74.49 164
9 6.8	33.232 402	47.18 144	35.000 534	66.23	20.327 151	11.04 31	25.259 221	76.13 125
16.8	32.830 450	48.62 103	34.466 574	67.91 163	20.176 172	11.35 31	25.038 242	77.38 82
26.8	32.380 479	49.65 58	33.892 600	69.07 116	20.004 182	11.66 31	24.796 256	78.20 38
10 6.8	31.901 483	50.23 11	33.292 607	69.71 64	19.822 183	11.97 31	24.540 257	78.58 8
16.7	31.418 465	50.34 38	32.685 598	69.82 11 44	19.639 173	12.26 29 26	24.283 248	78.50 55
26.7	30.953 424	49.96 86	32.087	69.38	19.466 154	12.52 23	24.035 231	77.95 102
11 5.7	30.529 362	49.10 130	31.517 570	68.39 99	19.312 125	12.75 20	23.804 202	76.93 146
15.7	30.167 282	47.80 169	30.990 527	66.85 154	19.187 89	12.95 19	23.602 167	75.47 190
25.6	29.885 190	46.11 203	30.524 466	64.80 205	19.098 48	13.14 18	23.435 125	73.57 229
12 5.6	29.695 88	44.08 228	30.133 391 303	62.23 252 294	19.050 6	13.32 17	23.310 79	71.28 261
15.6	29.607 18	41.80 246	29.830 206	59.34	19.044 38	13.49 18	23.231 29	68.67 288
25.5	29.625 125	39.34 256	29.624 102	56.09 325	19.032 82	13.67 18	23.202 21	65.79 305
35.5	29.750	36.78	29.522	52.60 349	19.164	13.85 18	23.223	62.74
平位	s 28.968	″ 44.57	s 32.740	″ 40.69	s 18.022	″ 21.93	s 23.284	″ 52.14
2 周正中	7 月 11 日		7 月 11 日		7 月 12 日		7 月 12 日	
a b	+ 0.3011	− 0.0476	− 0.0001	+ 0.0503	+ 0.1752	− 0.0073	+ 0.1039	+ 0.0166
a′ b′	+ 0.3069	+ 0.9518	+ 0.3113	+ 0.9503	+ 0.3186	+ 0.9479	+ 0.3189	+ 0.9478
FK3番號	721		723		722		724	

星名	ω Aqil		χ Cygn		τ Drac		υ Sgtr	
等級	5.14		3.98		4.63		4.58	
スペクトル型	A5		K0		K0		B8p,F2p	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m s 19 15	° ′ ″ + 11 29	h m s 19 15	° ′ ″ + 53 15	h m s 19 16	° ′ ″ + 73 14	h m s 19 18	° ′ ″ − 16 3
1 0.5	6.543	34.80	44.845	54.28	35.722	71.05	25.708	44.74
10.5	6.623 80	32.85 195	44.864 19	50.85 343	35.624 98	67.53 352	25.806 98	45.08 34
20.5	6.740 117	30.91 194	44.950 86	47.40 345	35.672 48	63.97 356	25.942 136	45.39 31
30.5	6.891 151	29.05 185	45.100 150	44.05 335	35.864 192	60.47 350	26.111 169	45.66 27
2 9.4	7.072 181 209	27.38 168 144	45.310 210 265	40.93 312 277	36.193 329 455	57.19 328 296	26.310 199 225	45.85 19 10
19.4	7.231	25.94	45.575	38.16	36.648	54.23	26.535	45.95
3 1.4	7.512 231	24.81 113	45.887 312	35.83 233	37.213 565	51.72 251	26.781 246	45.93 2
11.3	7.762 250	24.04 77	46.238 351	34.04 179	37.869 656	49.74 198	27.046 265	45.77 16
21.3	8.028 266	23.66 38	46.619 381	32.86 118	38.593 724	48.35 139	27.326 280	45.46 31
31.3	8.306 278 284	23.68 2 43	47.021 402 412	32.31 55 9	39.330 767 785	47.62 73 8	27.617 291 299	45.00 46 60
10.3	8.590	24.11	47.433	32.40	40.145	47.54	27.916	44.40
4 20.2	8.878 288	24.93 82	47.844 411	33.13 73	40.923 778	48.12 58	28.219 303	43.69 71
30.2	9.163 285	26.09 116	48.244 400	34.46 133	41.668 745	49.31 119	28.521 302	42.89 80
5 10.2	9.440 277	27.56 147	48.623 379	36.32 186	42.360 692	51.06 175	28.818 297	42.03 86
20.2	9.704 264 244	29.27 171 189	48.971 348 308	38.66 234 272	42.976 616 523	53.32 226 268	29.102 284 268	41.15 88 87
30.1	9.948	31.16	49.279	41.38	43.499	56.00	29.370	40.28
6 9.1	10.168 220	33.17 201	49.540 261	44.40 302	43.916 417	59.00 300	29.613 243	39.47 81
19.1	10.357 189	35.24 207	49.745 205	47.63 323	44.214 298	62.24 324	29.828 215	38.74 73
29.0	10.511 154	37.30 206	49.891 146	50.97 334	44.386 172	65.63 339	30.006 178	38.11 63
7 9.0	10.625 114 73	39.30 200 189	49.973 82 16	54.34 337 330	44.428 42 90	69.07 344 341	30.146 140 96	37.60 51 38
18.9	10.698	41.19	49.989	57.64	44.338	72.48	30.242	37.22
28.9	10.726 28	42.93 174	49.940 49	60.82 318	44.120 218	75.78 330	30.293 51	36.97 25
8 7.9	10.711 15	44.49 156	49.826 114	63.78 296	43.779 341	78.89 311	30.298 5	36.84 13
17.9	10.654 57	45.83 134	49.653 173	66.46 268	43.323 456	81.74 285	30.258 40	36.84 0
27.9	10.558 96 129	46.95 112 85	49.424 229 275	68.80 234 196	42.765 558 648	84.26 252 215	30.177 81 117	36.93 9 16
9 6.9	10.429	47.80	49.149	70.76	42.117	86.41	30.030	37.09
16.8	10.272 157	48.40 60	48.834 315	72.29 153	41.395 722	88.13 172	29.913 147	37.32 23
23.8	10.096 176	48.73 33	48.493 341	73.35 106	40.619 776	89.38 125	29.745 168	37.58 26
10 6.8	9.911 185	48.79 6	48.134 359	73.92 57	39.808 811	90.13 75	29.567 178	37.87 29
16.7	9.724 187 177	48.57 22 50	47.772 362 355	73.96 4 48	38.983 825 817	90.35 22 33	29.386 181 171	38.17 30 30
26.7	9.547	48.07	47.417	73.48	38.166	90.02	29.215	38.47
11 5.7	9.387 160	47.30 77	47.083 334	72.47 101	37.379 787	89.14 88	29.063 152	38.77 30
15.7	9.253 134	46.27 103	46.781 302	70.94 153	36.646 733	87.71 143	28.938 125	39.08 31
25.6	9.151 102	44.98 129	46.520 261	68.92 202	35.987 659	85.76 195	28.847 91	39.39 31
12 5.6	9.085 66 25	43.47 151 171	46.311 209 151	66.44 248 285	35.422 565 453	83.33 243 285	28.796 51 9	39.71 32 33
15.6	9.060	41.76	46.160	63.59	34.969	80.48	28.787	40.04
25.6	9.077 17	39.91 185	46.071 89	60.42 317	34.642 327	77.28 320	28.820 33	40.39 35
35.5	9.133 56	37.96 195	46.049 22	57.04 338	34.453 189	73.84 344	23.896 76	40.75 36
平位	s 8.385	″ 28.62	s 47.093	″ 45.37	s 39.556	″ 61.10	s 27.776	″ 49.05
2 周正中	7 月 12 日		7 月 12 日		7 日 12 月		7 月 13 日	
a b	+ 0.1405	+ 0.0044	+ 0.0688	+ 0.0290	− 0.0559	+ 0.0727	+ 0.1714	− 0.0064
a′ b′	+ 0.3220	+ 0.9467	+ 0.3247	+ 0.9458	+ 0.3283	+ 0.9446	+ 0.3357	+ 0.9420
FK3番號	725		726		729		727	

星名		α Sgtr		δ Aqil		186 G. Sgtr		Grb 2900 Drac	
等級		4.11		3.44		5.68		6.00	
スペクトル型		B8		F0		B9		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 19	° ′ −40 43	h m 19 22	° ′ +2 59	h m 19 23	° ′ −29 51	h m 19 25	° ′ +79 29
		s	″	s	″	s	″	s	″
1	0.5	53.711 118	27.22 121	35.553 80	64.31 147	18.124 104	24.38	4.847 262	35.93
	10.5	53.829 166	26.01 121	35.633 116	62.84 145	18.228 145	23.84 54	4.585 29	32.51 342
	20.5	53.995 210	24.80 121	35.749 150	61.39 137	18.373 184	23.27 57	4.556 204	29.00 351
	30.5	54.205 248	23.59 121	35.899 179	60.02 123	18.557 216	22.68 59	4.760 430	25.53 347
2	9.4	54.453 282	22.42 117	36.078 205	58.79 104	18.773 246	22.07 62	5.190 637	22.24 329
	19.4	54.735 310	21.30 106	36.283 227	57.75 78	19.019 270	21.45 65	5.827 823	19.24 260
3	1.4	55.045 333	20.24 99	36.510 247	56.97 49	19.289 291	20.80 67	6.650 976	16.64 208
	11.3	55.378 352	19.25 89	36.757 262	56.48 17	19.580 308	20.13 68	7.626 1093	14.56 152
	21.3	55.730 365	18.36 80	37.019 275	56.31 17	19.888 321	19.45 69	8.719 1170	13.04 89
	31.3	56.095 375	17.56 68	37.294 283	56.48 49	20.209 330	18.76 69	9.889 1205	12.15 24
4	10.3	56.470 380	16.88 54	37.577 287	56.97 79	20.539 335	18.07 66	11.094 1198	11.91 40
	20.2	56.850 378	16.34 39	37.864 286	57.76 108	20.874 335	17.41 62	12.292 1151	12.31 102
	30.2	57.228 370	15.95 22	38.150 281	58.84 130	21.209 329	16.79 54	13.443 1067	13.33 159
5	10.2	57.598 355	15.73 3	38.431 270	60.14 149	21.538 317	16.25 44	14.510 949	14.92 209
	20.2	57.953 333	15.70 17	38.701 252	61.63 161	21.855 298	15.81 31	15.459 803	17.01 253
	30.1	58.286	15.87	38.953 228	63.24	22.153	15.50 18	16.262 634	19.54 288
6	9.1	58.590 304	16.24 37	39.181 200	64.93 169	22.426 273	15.32 3	16.896 448	22.42 313
	19.1	58.857 267	16.80 56	39.381 167	66.63 170	22.658 242	15.29 13	17.344 252	25.55 331
	29.0	59.080 223	17.56 76	39.548 127	68.30 167	22.871 203	15.42 28	17.596 47	28.86 339
7	9.0	59.253 173 120	18.48 92 105	39.675 87	69.90 160 147	23.031 160 113	15.70 42	17.643 157	32.25 338
	18.9	59.373 63	19.53 116	39.762	71.37	23.144 62	16.12 55	17.486 358	35.63
	28.9	59.436 6	20.69 122	39.805 43	72.71 134	23.206 11	16.67 64	17.128 550	38.92 329
8	7.9	59.442 51	21.91 123	39.804 1	73.87 116	23.217 38	17.31 70	16.578 727	42.06 314
	17.9	59.391 103	23.14 119	39.761 43	74.84 97	23.179 84	18.01 72	15.851 889	44.96 290
	27.9	59.288 149	24.33 109	39.679 117	75.62 78 58	23.095 126	18.73 72	14.962 1031	47.57 261 226
9	6.9	59.139 187	25.42 96	39.532 145	76.20 37	22.989 159	19.45 66	13.931 1147	49.83 185
	16.8	58.952 214	26.38 77	39.417 165	76.57 17	22.810 183	20.11 58	12.784 1239	51.68 141
	26.8	58.738 230	27.15 55	39.252 176	76.74 4	22.627 197	20.69 47	11.545 1302	53.09 92
10	6.8	58.508 233	27.70 30	39.076 177	76.70 23	22.430 200	21.16 34	10.243 1331	54.01 40
	16.7	58.275 222	28.00 5	38.899 170	76.47 43	22.230 191	21.50 19	8.912 1330	54.41 14
	26.7	58.053	28.05 20	38.729 154	76.04 62	22.039 171	21.69 4	7.582 1294	54.27 68
11	5.7	57.854 199	27.85 45	38.575 128	75.42 82	21.868 142	21.73 9	6.288 1224	53.59 123
	15.7	57.688 166	27.40 66	38.447 97	74.60 98	21.726 105	21.64 22	5.064 1119	52.36 175
	25.6	57.565 123	26.74 85	38.350 61	73.62 116	21.621 62	21.42 32	3.945 983	50.61 226
12	5.6	57.491 74 21	25.89 99	38.239 22	72.46 129	21.559 15	21.10 41	2.962 815	48.35 269
	15.6	57.470	24.90 109	38.267 18	71.17 140	21.544	20.69	2.147 622	45.66
	25.6	57.505 35	23.81 117	38.285 58	69.77 147	21.576 32	20.22 47	1.525 408	42.61 305
	35.5	57.593 88	22.64	38.343	68.30	21.654 78	19.71 51	1.117	39.28 333
平位		s 56.390	″ 30.18	s 37.422	″ 58.86	s 20.459	″ 27.59	s 10.380	″ 25.25
2回正中		7月13日		7月14日		7月14日		7月14日	
a	b	+0.2073	−0.0196	+0.1501	+0.0012	+0.1891	−0.0136	−0.1815	+0.1305
a′	b′	+0.3418	+0.9398	+0.3528	+0.9357	+0.3557	+0.9346	+0.3631	+0.9317
FK3番號		728		730		731		734	

星名		ι Cygn		β Cygn *pr*		ι Tele		52 Sgtr	
等級		3.94		3.24		5.02		4.66	
スペクトル型		A2		K0, A0		K0		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 28	° ′ +51 36	h m 19 28	° ′ +27 50	h m 19 30	° ′ −48 13	h m 19 33	° ′ −24 60
		s	″	s	″	s	″	s	″
1	0.5	13.958	36.67	23.451	26.96 268	56.515 109	24.94 167	12.189 89	37.07 26
	10.5	13.962 4	33.32 335	23.500 49	24.28 268	56.624 166	23.27 170	12.278 129	36.81 30
	20.5	14.031 69	29.91 341	23.592 92	21.60 259	56.790 216	21.57 168	12.407 166	36.51 34
	30.5	14.160 129	26.59 332	23.723 131	19.01 241	57.006 263	19.89 163	12.573 198	36.17 39
2	9.4	14.348 188 241	23.46 313 281	23.891 168 202	16.60 212	57.269 302	18.26 156	12.771 226	35.78 44
	19.4	14.589	20.65 238	24.093	14.48	57.571	16.70	12.997	35.34
3	1.4	14.878 289	18.27 186	24.323 230	12.73 175	57.907 336	15.25 145	13.248 251	34.84 50
	11.4	15.208 330	16.41 128	24.579 256	11.43 130	58.272 365	13.92 133	13.520 272	34.27 57
	21.3	15.568 360	15.13 67	24.855 276	10.61 82	58.661 389	12.74 118	13.810 290	33.63 64
	31.3	15.952 384 397	14.46 2	25.147 292 301	10.31 30 24	59.068 407 419	11.73 101 83	14.114 304 315	32.93 70 74
4	10.3	16.349	14.44 62	25.448	10.55 74	59.487	10.90	14.429	32.19
	20.2	16.750 401	15.06 120	25.755 307	11.29 123	59.913 426	10.29 61	14.750 321	31.42 77
	30.2	17.143 393	16.26 176	26.059 304	12.52 165	60.339 426	9.89 40	15.073 323	30.65 77
5	10.2	17.520 377	18.02 223	26.356 297	14.17 202	60.758 419	9.74 15	15.392 319	29.91 74
	20.2	17.870 350 315	20.25 264	26.638 282 260	16.19 232	61.162 404 379	9.84 10 36	15.701 309 293	29.23 68 58
	30.1	18.185	22.89	26.898	18.51	61.541	10.20	15.994	28.65
6	9.1	18.455 270	25.84 295	27.130 232	21.04 253	61.889 348	10.81 61	16.264 270	28.17 48
	19.1	18.675 220	29.02 318	27.328 198	23.72 268	62.197 308	11.67 86	16.504 240	27.83 34
	29.1	18.838 163	32.34 332	27.488 160	26.46 274	62.456 259	12.75 108	16.708 204	27.64 19
7	9.0	18.940 102 39	35.70 336 332	27.605 117 71	29.19 273 265	62.660 204 144	14.03 128 144	16.872 164 118	27.60 4 11
	18.9	18.979	39.02	27.676	31.84	62.804	15.47	16.990	27.71
	28.9	18.954 25	42.22 320	27.699 23	34.36 252	62.885 81	17.01 154	17.060 70	27.95 24
8	7.9	18.866 88	45.24 302	27.675 24	36.67 231	62.900 15	18.62 161	17.081 21	28.32 37
	17.9	18.718 148	47.99 275	27.603 69	38.75 208	62.851 49	20.22 160	17.054 27	28.78 46
	27.9	18.516 202 250	50.43 244 206	27.494 112 148	40.54 179 148	62.742 109 163	21.77 155 141	16.982 72 113	29.31 53 55
9	6.9	18.266	52.49	27.346	42.02	62.579	23.18	16.869	29.86
	16.8	17.976 290	54.14 165	27.167 179	43.14 112	62.371 208	24.41 123	16.723 146	30.42 56
	26.8	17.658 318	55.34 120	26.966 201	43.91 77	62.130 241	25.40 99	16.552 171	30.94 52
10	6.8	17.320 338	56.05 71	26.752 214	44.28 37	61.868 262	26.11 71	16.367 185	31.40 46
	16.8	16.976 344 339	56.25 20 32	26.534 218 212	44.25 3 43	61.600 268 260	26.51 40 6	16.177 190 183	31.77 37 29
	26.7	16.637	55.93	26.322	43.82	61.340	26.57	15.994	32.06
11	5.7	16.314 323	55.07 86	26.126 196	42.99 83	61.102 238	26.30 27	15.829 165	32.25 19
	15.7	16.020 294	53.70 137	25.954 172	41.76 123	60.898 204	25.72 58	15.689 140	32.34 9
	25.6	15.763 257	51.83 187	25.813 141	40.16 160	60.740 158	24.84 88	15.584 105	32.34 0
12	5.6	15.554 209 156	49.51 232 273	25.708 105 63	38.21 195 224	60.636 104 46	23.70 114 134	15.518 66 23	32.26 8 13
	15.6	15.398	46.78	25.645	35.97	60.590	22.36	15.495	32.13
	25.6	15.301 97	43.73 305	25.625 20	33.50 247	60.605 15	20.85 151	15.517 22	31.94 19
	35.5	15.267 34	40.45 328	25.648 23	30.86 264	60.681 76	19.24 161	15.583 66	31.71 23
平位		s 16.100	″ 27.34	s 25.277	″ 19.49	s 59.544	″ 26.61	s 14.406	″ 39.91
2回正中		7月15日		7月15日		7月16日		7月16日	
a	b	+0.0754	+0.0316	+0.1207	+0.0132	+0.2221	−0.0289	+0.1819	−0.0123
a′	b′	+0.3757	+0.9267	+0.3763	+0.9265	+0.3867	+0.9222	+0.3957	+0.9184
FK3番號		733		732		735		736	

星名		ξ Aqil		ϑ Cygn		15 Cygn		† δ Cygn	
等級	スペクトル型	5.04	B0	4.64	F5	5.02	K0	2.97	A0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 19 33	° ′ − 7 9	h m 19 34	° ′ + 50 5	h m 19 42	° ′ + 37 12	h m 19 43	° ′ + 44 59
		s	″	s	″	s	″	s	″
1	0.5	47.544 76	16.44 85	52.615 17	27.17 329	11.311 20	64.69 295	9.614 1	36.08 316
	10.5	47.620 113	17.29 81	52.598 45	23.88 336	11.331 67	61.74 300	9.615 56	32.92 322
	20.5	47.733 145	18.10 75	52.643 106	20.52 329	11.398 113	58.74 293	9.671 109	29.70 318
	30.5	47.878 176	18.85 65	52.749 164	17.23 311	11.511 156	55.81 277	9.780 159	26.52 318
2	9.4	48.054 202	19.50 49	52.913 218	14.12 280	11.667 195	53.04 248	9.939 205	23.52 300 271
	19.4	48.256 225	19.99 32	53.131 267	11.32 239	11.862 232	50.56 210	10.144 249	20.81 233
3	1.4	48.481 245	20.31 9	53.398 310	8.93 188	12.094 263	48.46 164	10.393 284	18.48 184
	11.4	48.726 262	20.40 13	53.708 345	7.05 132	12.357 289	46.82 112	10.677 316	16.64 130
	21.3	48.988 276	20.27 37	54.053 372	5.73 70	12.646 309	45.70 55	10.993 338	15.34 70
	31.3	49.264 286	19.90 60	54.425 389	5.03 7	12.955 324	45.15 3	11.331 355	14.64 9
4	10.3	49.550 292	19.30 81	54.814 398	4.96 56	13.279 330	45.18 59	11.686 362	14.55 52
	20.2	49.842 293	18.49 99	55.212 394	5.52 115	13.609 330	45.77 114	12.048 360	15.07 110
	30.2	50.135 290	17.50 112	55.606 383	6.67 170	13.939 323	46.91 163	12.408 350	16.17 163
5	10.2	50.425 281	16.38 123	55.989 360	8.37 219	14.262 306	48.54 206	12.758 332	17.80 210
	20.2	50.706 265	15.15 128	56.349 328	10.56 259	14.568 284	50.60 243	13.090 304	19.90 250
	30.1	50.971	13.87	56.677	13.15	14.852	53.03	13.394	22.40
6	9.1	51.215 244	12.58 129	56.966 289	16.06 291	15.106 254	55.74 271	13.663 269	25.22 282
	19.1	51.431 216	11.34 124	57.206 240	19.21 315	15.322 216	58.64 290	13.889 226	28.27 305
	29.1	51.614 183	10.16 118	57.393 187	22.50 329	15.497 175	61.66 302	14.068 179	31.46 319
7	9.0	51.760 146 103	9.09 107 94	57.521 128 66	25.84 334 332	15.624 127 77	64.72 306 301	14.194 126 70	34.71 325 322
	18.9	51.863 60	8.15 80	57.587 3	29.16 321	15.701 25	67.73 290	14.264 13	37.93 312
	28.9	51.923 15	7.35 64	57.590 61	32.37 302	15.726 26	70.63 272	14.277 45	41.05 295
8	7.9	51.938 28	6.71 48	57.529 121	35.39 278	15.700 77	73.35 248	14.232 99	44.00 271
	17.9	51.910 70	6.23 33	57.408 177	38.17 247	15.623 123	75.83 219	14.133 150	46.71 242
	27.9	51.840 106	5.90 18	57.231 227	40.64 211	15.500 164	78.02 186	13.983 195	49.13 208
	6.9	51.734	5.72	57.004	42.75	15.336	79.88	13.788	51.21
9	16.8	51.593 136	5.67 5	56.735 269	44.45 170	15.137 199	81.37 149	13.555 233	52.89 168
	26.8	51.440 158	5.74 7	56.433 302	45.71 126	14.913 224	82.46 109	13.293 262	54.14 125
10	6.8	51.269 171	5.93 19	56.110 323	46.49 78	14.671 242	83.11 65	13.012 281	54.94 80
	16.8	51.094 175 169	6.22 29 38	55.775 335 333	46.76 27 24	14.423 248 245	83.32 21 26	12.723 289 288	55.25 31 18
	26.7	50.925	6.60	55.442	46.52	14.178	83.06	12.435	55.07
11	5.7	50.772 153	7.07 47	55.122 320	45.75 77	13.945 233	82.34 72	12.161 274	54.38 69
	15.7	50.643 129	7.62 55	54.825 297	44.47 128	13.735 210	81.17 117	11.910 251	53.20 118
	25.6	50.544 99	8.26 64	54.562 263	42.69 178	13.555 180	79.55 162	11.690 220	51.53 167
12	5.6	50.481 63 25	8.97 71 78	54.341 221 170	40.45 224 265	13.411 144 101	77.53 202 238	11.510 180 134	49.41 212 251
	15.6	50.456	9.75	54.171	37.80	13.310	75.15	11.376	46.90
	25.6	50.472 16	10.58 83	54.057 114	34.83 297	13.254 56	72.48 267	11.291 85	44.07 283
	35.5	50.526 54	11.44 86	54.002 55	31.61 322	13.245 9	69.60 288	11.260 31	40.99 308
平位		s 49.483	″ 20.70	s 54.703	″ 17.71	s 13.156	″ 56.14	s 11.550	″ 26.76
2回正中		7月17日		7月17日		7月19日		7月19日	
a	b	+ 0.1610	− 0.0033	+ 0.0804	+ 0.0321	+ 0.1076	+ 0.0218	+ 0.0933	+ 0.0290
a′	b′	+ 0.3981	+ 0.9174	+ 0.4024	+ 0.9155	+ 0.4314	+ 0.9022	+ 0.4352	+ 0.9003
FK3番號		737		738		740		742	

星名		ν Tele		γ Aqil		δ Sgte		51 Aqil	
等級	スペクトル型	5.52	A5	2.80	K2	3.78	M0, A0	5.55	F0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 19 43	° ′ − 56 29	h m 19 43	° ′ + 10 28	h m 19 44	° ′ + 18 23	h m 19 47	° ′ − 10 54
		s	″	s	″	s	″	s	″
1	0.6	18.846 95	65.78 213	31.147 53	28.85 181	48.927 44	39.23 221	36.706 65	31.39 58
	10.5	18.941 164	63.65 218	31.200 90	27.04 181	48.971 82	37.02 221	36.771 102	31.97 55
	20.5	19.105 227	61.47 217	31.290 123	25.23 174	49.053 118	34.81 214	36.873 135	32.52 47
	30.5	19.332 285	59.30 212	31.413 156	23.49 159	49.171 152	32.67 199	37.008 166	32.99 38
2	9.4	19.617 335	57.18 202	31.569 184	21.90 138	49.323 182	30.68 175	37.174 193	33.37 25
	19.4	19.952 380	55.16 187	31.753 210	20.52 109	49.505 211	28.93 143	37.367 218	33.62
3	1.4	20.332 417	53.29 170	31.963 233	19.43 76	49.716 235	27.50 105	37.585 240	33.71 9
	11.4	20.749 450	51.59 149	32.196 252	18.67 38	49.951 256	26.45 62	37.825 258	33.60 29
	21.3	21.199 473	50.10 126	32.448 268	18.29 0	50.207 272	25.83 18	38.083 274	33.31 50
	31.3	21.672 491	48.84 100	32.716 280	18.29 40	50.479 285	25.65 28	38.357 287	32.81 70
4	10.3	22.163	47.84	32.996	18.69	50.764	25.93	38.644	32.11
	20.3	22.665 502	47.12 72	33.284 288	19.46 77	51.057 293	26.65 72	38.939 295	31.25 86
	30.2	23.169 504	46.70 42	33.573 289	20.58 112	51.352 295	27.79 114	39.237 298	30.24 101
5	10.2	23.667 498	46.59 11	33.860 287	22.01 143	51.643 291	29.30 151	39.535 298	29.13 111
	20.2	24.148 481 455	46.79 20 54	34.137 277 262	23.68 167 187	51.924 281 264	31.12 182 207	39.825 290 277	27.95 118 120
	30.1	24.603 419	47.33 84	34.399 240	25.55 199	52.188 241	33.19 224	40.102 256	26.75 118
6	9.1	25.022 373	48.17 114	34.639 213	27.54 207	52.429 212	35.43 237	40.358 231	25.57 112
	19.1	25.395 317	49.31 141	34.852 179	29.61 206	52.641 178	37.80 240	40.589 198	24.45 103
	29.1	25.712 253	50.72 164	35.031 141	31.67 202	52.819 138	40.20 238	40.787 161	23.42 91
7	9.0	25.965 182	52.36 182	35.172 100	33.69 192	52.957 95	42.58 230	40.948 119	22.51 76
	19.0	26.147 107	54.18 195	35.272 56	35.61 178	53.052	44.88 217	41.067 75	21.75 61
	28.9	26.254 29	56.13 201	35.328 11	37.39 161	53.102 50	47.05 199	41.142 30	21.14 46
8	7.9	26.283 47	58.14 200	35.339 32	39.00 140	53.107 5	49.04 177	41.172 16	20.68 30
	17.9	26.236 119	60.14 192	35.307 73	40.40 117	53.067 40	50.81 152	41.156 58	20.38 16
	27.9	26.117 186	62.06 177	35.234 109	41.57 93	52.986 81 118	52.33 125	41.098 95	20.22 2
	6.9	25.931	63.83	35.125	42.50	52.868	53.58	41.003	20.20
9	16.8	25.688 243	65.37 154	34.985 140	43.18 68	52.718 150	54.53 95	40.874 129	20.29 9
	26.8	25.403 285	66.62 125	34.823 162	43.60 42	52.546 172	55.18 65	40.722 152	20.47 18
10	6.8	25.088 315	67.52 90	34.646 177	43.76 16	52.359 187	55.50 32	40.554 168	20.74 27
	16.8	24.761 327 323	68.05 53 12	34.465 181 177	43.65 11 37	52.166 193 189	55.49 1 34	40.329 225 118	21.07 33 38
	26.7	24.438	68.17	34.288	43.28	51.977	55.15	40.211	21.45
11	5.7	24.136 302	67.87 30	34.123 165	42.64 64	51.800 177	54.48 67	40.054 157	21.88 43
	15.7	23.871 265	67.17 70	33.979 144	41.76 88	51.644 156	53.49 99	39.920 134	22.36 48
	25.7	23.655 216	66.10 107	33.864 115	40.63 113	51.516 128	52.19 130	39.814 106	22.87 51
12	5.6	23.499 156 88	64.70 140 169	33.781 83 46	39.28 135 154	51.421 95 59	50.61 158 183	39.742 72 34	23.42 55 58
	15.6	23.411	63.01	33.735	37.74	51.362	48.78	39.708	24.00
	25.6	23.394 17	61.12 189	33.728 7	36.04 170	51.343 19	46.75 203	39.713 5	24.60 60
	35.5	23.450 56	59.06 206	33.759 31	34.25 179	51.364 21	44.58 217	39.757 44	25.20 60
平位		s 22.440	″ 65.91	s 32.941	″ 23.10	s 50.698	″ 32.61	s 38.669	″ 34.69
2回正中		7月19日		7月19日		7月19日		7月20日	
a	b	+ 0.2440	− 0.0439	+ 0.1422	+ 0.0054	+ 0.1334	+ 0.0098	+ 0.1648	− 0.0058
a′	b′	+ 0.4359	+ 0.9000	+ 0.4366	+ 0.8997	+ 0.4417	+ 0.8972	+ 0.4526	+ 0.8917
FK3番號		739		741		743		744	

星名	α Aql		†ε Drac		η Aql		β Aql	
等級 スペクトル型	0.89	A5	3.99	K0	3.7–4.4	G0p	3.90	K0
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 19 47	° ′ + 8 42	h m 19 48	° ′ + 70 7	h m 19 49	° ′ + 0 51	h m 19 52	° ′ + 6 15
	s	″	s	″	s	″	s	″
1 0.6	58.302	64.63 170	19.435 151	33.92	32.294	33.25 127	28.956 48	52.12 157
10.5	58.355 90	62.93 169	19.284 31	30.54 338	32.349 91	31.98 125	29.004 84	50.55 157
20.5	58.445 124	61.24 161	19.253 89	27.02 352	32.440 124	30.73 119	29.088 118	48.98 150
30.5	58.569 155	59.63 147	19.342 208	23.51 351	32.564 155	29.54 105	29.206 149	47.48 136
2 9.4	58.724 184	58.16 126	19.550 320	20.11 340 313	32.719 182	28.49 88	29.355 177	46.12 117
19.4	58.903 209	56.90 98	19.870 420	16.98 277	32.901 208	27.61 64	29.532 204	44.95 91
3 1.4	59.117 233	55.92 67	20.290 509	14.21 228	33.109 230	26.97 38	29.736 227	44.04 61
11.4	59.350 251	55.25 31	20.799 580	11.93 169	33.339 250	26.59 8	29.963 246	43.43 27
21.3	59.601 268	54.94 7	21.379 632	10.20 173	33.589 265	26.51 22	30.209 264	43.16 8
31.3	59.869 280	55.01 45	22.011 664	9.09 111 46	33.854 278	26.73 54	30.473 277	43.24 44
4 10.3	60.149 287	55.46 81	22.675 676	8.63 20	34.132 287	27.27 82	30.750 286	43.68 78
20.3	60.436 290	56.27 113	23.351 665	8.83 83	34.419 290	28.09 108	31.036 290	44.46 109
30.2	60.726 288	57.40 143	24.016 636	9.66 144	34.709 289	29.17 131	31.326 288	45.55 136
5 10.2	61.014 279	58.83 166	24.652 587	11.10 197	34.998 281	30.48 147	31.614 281	46.91 158
20.2	61.293 264	60.49 184	25.239 522	13.07 244	35.279 268	31.95 159	31.895 267	48.49 174
30.1	61.557 243	62.33 196	25.761 441	15.51 283	35.547 247	33.54 165	32.162 248	50.23 184
6 9.1	61.800 215	64.29 201	26.202 349	18.34 314	35.794 222	35.19 167	32.410 221	52.07 190
19.1	62.015 183	66.30 201	26.551 248	21.48 334	36.016 190	36.86 163	32.631 188	53.97 188
29.1	62.198 145	68.31 196	26.799 141	24.82 334	36.206 153	38.49 156	32.819 152	55.85 182
7 9.0	62.343 104	70.27 185	26.940 29	28.29 347 350	36.359 112	40.05 143	32.971 111	57.67 171
19.0	62.447 60	72.12 170	26.969 83	31.79	36.471 69	41.48 128	33.082 68	59.38 158
28.9	62.507 15	73.82 153	26.886 191	35.24 345	36.540 24	42.76 112	33.150 23	60.96 140
8 7.9	62.522 27	75.35 133	26.695 295	38.57 333	36.564 19	43.88 93	33.173 20	62.36 120
17.9	62.495 69	76.68 110	26.400 390	41.69 312	36.545 61	44.81 74	33.153 62	63.56 100
27.9	62.426 105	77.78 87	26.010 476	44.54 285 252	36.484 97	45.55 55	33.091 99	64.56 77
9 6.9	62.321 135	78.65 62	25.534 549	47.06 212	36.387 129	46.10 35	32.992 130	65.33 54
16.8	62.186 159	79.27 39	24.985 606	49.18 169	36.258 152	46.45 16	32.862 154	65.87 32
26.8	62.027 173	79.66 12	24.379 649	50.87 120	36.106 168	46.61 3	32.708 170	66.19 9
10 6.8	61.854 178	79.78 12	23.730 672	52.07 69	35.938 173	46.58 20	32.538 176	66.28 15
16.8	61.676 174	79.66 36	23.058 678	52.76 14	35.765 170	46.38 38	32.362 172	66.13 36
26.7	61.502 162	79.30 61	22.380 666	52.90 42	35.595 157	46.00 54	32.190 162	65.77 59
11 5.7	61.340 141	78.69 85	21.714 632	52.48 99	35.438 137	45.46 71	32.028 141	65.18 80
15.7	61.199 113	77.84 106	21.082 582	51.49 154	35.301 110	44.75 86	31.887 115	64.38 100
25.7	61.086 81	76.78 128	20.500 514	49.95 206	35.191 77	43.89 100	31.772 84	63.38 119
12 5.6	61.005 44	75.50 145	19.986 430	47.89 254	35.114 41	42.89 111	31.688 48	62.19 135
15.6	60.961 6	74.05 158	19.556 332	45.35 294	35.073 4	41.78 121	31.640 10	60.84 148
25.6	60.955 31	72.47 168	19.224 224	42.41 326	35.069 34	40.57 127	31.630 27	59.36 156
35.5	60.986	70.79	19.000	39.15	35.103	39.30	31.657	57.80
平 位	s 60.097	″ 59.25	s 22.491	″ 22.46	s 34.133	″ 28.71	s 30.752	″ 47.02
2 回正中	7 月 20 日		7 月 20 日		7 月 21 日		7 月 21 日	
a b	+ 0.1442	+ 0.0046	− 0.0108	+ 0.0840	+ 0.1524	+ 0.0005	+ 0.1469	+ 0.0034
a′ b′	+ 0.4540	+ 0.8910	+ 0.4555	+ 0.8903	+ 0.4601	+ 0.8879	+ 0.4714	+ 0.8819
FK3番號	745		747		746		749	

星名	ε Pavo		† ψ Cygn		ϑ¹ Sgtr		γ Sgte	
等級 スペクトル型	4.10	A0	4.80	A3	4.39	B3	3.71	K5
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 19 53	° ′ − 73 3	h m 19 54	° ′ + 52 16	h m 19 55	° ′ − 35 25	h m 19 56	° ′ + 19 20
	s	″	s	″	s	″	s	″
1 0.6	55.682	51.53	7.292	83.20	59.301	55.13	11.512	16.85
10.5	55.756 74	48.63 290	7.255 37	79.95 325	59.370 69	54.19 94	11.543 31	14.65 220
20.5	55.964 208	45.66 297	7.281 26	76.60 335	59.484 114	53.18 101	11.613 70	12.42 223
30.5	56.300 336	42.71 295	7.370 89	73.26 334	59.638 154	52.11 107	11.719 106	10.26 216
2 9.4	56 754 454 561	39.86 285 270	7.520 150 207	70.07 319 293	59.830 192 226	51.01 110 112	11.859 140 173	8.24 202 180
19.4	57.315 654	37.16 248	7.727 258	67.14 256	60.056 257	49.89 114	12.032 201	6.44 148
3 1.4	57.969 735	34.68 221	7.985 306	64.58 208	60.313 283	48.75 113	12.233 227	4.96 111
11.4	58.704 799	32.47 189	8.291 344	62.50 154	60.596 306	47.62 112	12.460 250	3.85 68
21.3	59.503 849	30.58 155	8.635 374	60.96 93	60.902 325	46.50 109	12.710 269	3.17 24
31.3	60.352 886	29.03 116	9.009 395	60.03 30	61.227 341	45.41 103	12.979 284	2.93 23
4 10.3	61.238 906	27.87 76	9.404 406	59.73 33	61.568 352	44.38 95	13.263 293	3.16 67
20.3	62.144 908	27.11 35	9.810 406	60.06 94	61.920 357	43.43 84	13.556 297	3.83 110
30.2	63.052 896	26.76 9	10.216 395	61.00 151	62.277 357	42.59 71	13.853 295	4.93 149
5 10.2	63.948 862	26.85 51	10.611 374	62.51 202	62.634 349	41.88 56	14.148 287	6.42 181
20.2	64.810 813	27.36 93	10.985 344	64.53 246	62.983 335	41.32 37	14.435 271	8.23 207
30.1	65.623 744	28.29 133	11.329 303	66.99 282	63.318 313	40.95 17	14.706 249	10.30 226
6 9.1	66.367 657	29.62 170	11.632 255	69.81 309	63.631 283	40.78 4	14.955 222	12.56 240
19.1	67.024 555	31.32 203	11.887 201	72.90 328	63.914 246	40.82 25	15.177 187	14.96 244
29.1	67.579 438	33.35 229	12.088 140	76.18 338	64.160 203	41.07 46	15.364 148	17.40 244
7 9.0	68.017 309	35.64 249	12.228 77	79.56 338	64.363 153	41.53 64	15.512 106	19.84 237
19.0	68.326 172	38.13 263	12.305 12	82.94 332	64.516 102	42.17 82	15.618 61	22.21 225
28.9	68.498 30	40.76 267	12.317 53	86.26 317	64.618 46	42.99 93	15.679 14	24.46 208
8 7.9	68.528 110	43.43 264	12.264 115	89.43 295	64.664 7	43.92 102	15.693 30	26.54 186
17.9	68.418 245	46.07 250	12.149 174	92.38 267	64.657 59	44.94 107	15.663 72	28.40 161
27.9	68.173 369	48.57 228	11.975 226	95.05 234	64.598 107	46.01 107	15.591 111	30.01 134
9 6.9	67.804 478	50.85 197	11.749 270	97.39 194	64.491 147	47.08 100	15.480 143	31.35 105
16.8	67.326 565	52.82 158	11.479 305	99.33 152	64.344 178	48.08 90	15.337 168	32.40 74
26.8	66.761 627	54.40 113	11.174 329	100.85 104	64.166 200	48.98 76	15.169 185	33.14 40
10 6.8	66.134 660	55.53 62	10.845 342	101.89 55	63.936 209	49.74 57	14.984 192	33.54 8
16.8	65.474 664	56.15 9	10.503 343	102.44 2	63.757 207	50.31 38	14.792 190	33.62 26
26.7	64.810 637	56.24 45	10.160 333	102.46 50	63.550 194	50.69 16	14.602 179	33.36 60
11 5.7	64.173 581	55.79 98	9.827 312	101.96 104	63.356 169	50.85 6	14.423 161	32.76 93
15.7	63.592 499	54.81 148	9.515 279	100.92 156	63.187 136	50.79 27	14.262 135	31.83 124
25.7	63.093 396	53.33 193	9.236 238	99.36 205	63.051 96	50.52 46	14.127 103	30.59 154
12 5.6	62.697 274	51.40 229	8.998 190	97.31 248	62.955 52	50.06 62	14.024 68	29.05 180
15.6	62.423 143	49.11 259	8.808 134	94.83 286	62.903 4	49.44 76	13.956	27.25 201
25.6	62.280 143	46.52 259	8.674 134	91.97 286	62.899 43	48.68 76	13.926 30	25.24 201
35.5	62.275 5	43.72 280	8.599 75	88.84 313	62.942	47.81 87	13.934 8	23.08 216
平 位	s 62.203	″ 50.06	s 9.322	″ 72.85	s 61.767	″ 55.46	s 13.252	″ 10.17
2 回正中	7 月 22 日		7 月 22 日		7 月 22 日		7 月 22 日	
a b	+ 0.3457	− 0.1045	+ 0.0776	+ 0.0412	+ 0.1948	− 0.0230	+ 0.1329	+ 0.0114
a′ b′	+ 0.4773	+ 0.8787	+ 0.4778	+ 0.8785	+ 0.4849	+ 0.8746	+ 0.4857	+ 0.8742
FK3番號	748		750		751		752	

本初子午線正中時

星名	62 Sgtr		ξ Tele		δ Pavo		ϑ Aqil	
等級	4.60		4.86		3.64		3.37	
スペクトル型	M3		M0		G5		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 59	° ′ −27 51	h m 20 2	° ′ −53 2	h m 20 3	° ′ −66 19	h m 20 8	° ′ − 0 59
1 0.6	s 7.099	″ 70.74	s 58.352	″ 46.73	s 4.368	″ 49.52	s 20.011	″ 27.13
10.5	7.162 63	70.26 48	58.413 61	44.77 196	4.431 63	46.93 259	20.050 39	28.24 111
20.5	7.265 103	69.71 55	58.537 124	42.72 205	4.591 160	44.24 269	20.124 74	29.33 109
30.5	7.406 141	69.09 62	58.719 182	40.63 209	4.842 251	41.55 269	20.232 108	30.36 103
2 9.5	7.581 175	68.41 68	58.954 235	38 55 208	5.177 335	38.91 264	20.369 137	31.26 90
	206	74	284	204	411	253	167	73
19.4	7.787 234	67.67 80	59.238 328	36.51 194	5.588 478	36.38 236	20.536 194	31.99 53
3 1.4	8.021 260	66.87 86	59.566 365	34.57 181	6.066 537	34.02 214	20.730 217	32.52 26
11.4	8.281 281	66.01 91	59.931 398	32.76 166	6.603 585	31.88 188	20.947 239	32.78 1
21.3	8.562 299	65.10 95	60.329 425	31.10 147	7.188 625	30.00 158	21.186 258	32.77 30
31.3	8.861 315	64.15 98	60.754 446	29.63 125	7.813 654	28.42 125	21.444 273	32.47 59
4 10.3	9.176 326	63.17 97	61.200 461	28.38 101	8.467 672	27.17 90	21.717 285	31.88 86
20.3	9.502 332	62.20 95	61.661 468	27.37 74	9.139 679	26.27 52	22.002 292	31.02 111
30.2	9.834 332	61.25 88	62.129 467	26.63 44	9.818 673	25.75 13	22.294 293	29.91 131
5 10.2	10.166 327	60.37 80	62.596 457	26.19 14	10.491 655	25.62 26	22.587 289	28.60 147
20.2	10.493 313	59.57 67	63.053 438	26.05 18	11.146 622	25.88 66	22.876 278	27.13 157
30.2	10.806 294	58.90 52	63.491 409	26.23 50	11.768 576	26.54 104	23.154 260	25.56 163
6 9.1	11.100 266	58.38 35	63.900 369	26.73 80	12.344 517	27.58 140	23.414 236	23.93 164
19.1	11.366 232	58.03 17	64.269 321	27.53 109	12.861 443	28.98 173	23.650 206	22.29 159
29.1	11.598 192	57.86 1	64.590 264	28.62 135	13.304 359	30.71 200	23.856 171	20.70 151
7 9.0	11.790 147	57.87 19	64.854 200	29.97 157	13.663 266	32.71 222	24.027 131	19.19 138
19.0	11.937	58.06	65.054	31.54 174	13.929 166	34.93 238	24.158 87	17.81 124
28.9	12.036 99	58.42 36	65.185 131	33.28 186	14.095 61	37.31 247	24.245 43	16.57 106
8 7.9	12.084 48	58.93 51	65.245 60	35.14 189	14.156 43	39.78 246	24 288 2	15.51 87
17.9	12.081 3	59.55 62	65.232 13	37.03 187	14.113 144	42.24 237	24.286 44	14.64 69
27.9	12.030 51	60.26 71	65.150 82	38.90 177	13.969 237	44.61 220	24.242 82	13.95 50
	94	74	146					
9 6.9	11.936	61.00	65.004	40.67 161	13.732	46.81	24.160	13.45
16.9	11.804 132	61.75 75	64.803 201	42.28 136	13.414 318	48.76 195	24.044 116	13.15 30
25.8	11.642 162	62.46 71	64.556 247	43.64 107	13.030 384	50.36 160	23.903 141	13.02 13
10 6.8	11.461 181	63.10 64	64.279 277	44.71 73	12.598 432	51.58 122	23.744 159	13.06 4
16.8	11.271 190	63.64 54	63.985 294	45.44 36	12.140 458	52.34 76	23.575 169	13.27 21
	188	41	295		461	27	167	36
25.7	11.083	64.05	63.690	45.80 4	11.679	52.61	23.408	13.63
11 5.7	10.907 176	64.32 27	63.409 281	45.76 42	11.235 444	52.39 22	23.249 159	14.14 51
15.7	10.752 155	64.46 14	63.156 253	45.34 79	10.831 404	51.67 72	23 108 141	14.78 64
25.7	10.629 123	64.45 1	62.945 211	44.55 113	10.485 346	50.48 119	22.992 116	15.56 78
12 5.6	10.541 88	64.32 13	62.784 161	43.42 143	10.215 270	48.88 160	22.905 87	16.45 89
	47	24	101		183	198	53	99
15.6	10.494	64.08	62.683	41.99 167	10.032	46.90 226	22.852	17.44
25.6	10.490 4	63.73 35	62.644 39	40.32 185	9.942 90	44.64 248	22.835 17	18.51 107
35.6	10.529 39	63.31 42	62.670 26	38.47	9.950 8	42.16	22.853 18	19.62 111
平位	s 9.349	″ 71.57	s 61.661	″ 45.08	s 9.197	″ 47.32	s 21.826	″ 30.83
2回正中	7月23日		7月24日		7月24日		7月25日	
a b	+ 1.1839	− 0.0175	+ 0.2295	− 0.0453	+ 0.2840	− 0.0779	+ 0.1543	− 0.0006
a′ b′	+ 0.4968	+ 0.8679	+ 0.5114	+ 0.8593	+ 0.5119	+ 0.8591	+ 0.5313	+ 0.8472
FK3番號	753		755		754		756	

本初子午線正中時

星名	x Ceph		31 o^1 Cygn		33 Cygn		24 Vulp	
等級	4.40		3.95		4.32		5.45	
スペクトル型	B9		K0, B8		A3		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 20 10	° ′ +77 32	h m 20 11	° ′ +46 33	h m 20 12	° ′ +56 23	h m 20 14	° ′ +24 29
1 0.6	s 46.638	″ 39.51	s 48.293	″ 73.79	s 2.347	″ 45.18	s 18.971	″ 47.27
10.5	46.242 396	36.32 319	48.252 41	70.75 304	2.264 83	41.99 319	18.978 7	44.93 234
20.5	46.033 209	32.93 339	48.266 14	67.58 317	2.250 14	38.65 334	19.023 45	42.52 241
30.5	46.017 16	29.45 348	48.334 68	64.40 318	2.305 55	35.27 338	19.107 84	40.14 238
2 9.5	46.194 177	26.03 342	48.454 120	61.33 307	2.429 124	31.98 329	19.227 120	37.89 225
	365	325	172	284	189	308	155	203
19.4	46 559	22.78	48.626	58.49	2.618	28.90	19.382	35.86
3 1.4	47.098 539	19.83 295	48.845 219	55.98 251	2.870 252	26.17 273	19.569 187	34.13 173
11.4	47.791 693	17.30 253	49.106 261	53.92 206	3.178 308	23.88 229	19.786 217	32.78 135
21.4	48.614 823	15.27 203	49.405 299	52.36 156	3.533 355	22.11 177	20.030 244	31.86 92
31.3	49.536 922	13.83 144	49.735 330	51.38 98	3.927 394	20.93 118	20.296 266	31.42 44
	989	83	352	38	422	55	284	5
4 10.3	50.525	13.00 18	50.087	51.00	4.349	20.38	20.580	31.47
20.3	51.547 1022	12.82 46	50.455 368	51.23 23	4.787 438	20.47 9	20.878 298	32.00 53
30.2	52.566 1019	13.28 106	50.827 372	52.05 82	5.231 444	21.18 71	21.183 305	33.01 101
5 10.2	53.551 985	14.34 164	51.196 369	53.43 138	5.667 436	22.48 130	21.488 305	34.43 142
20.2	54.469 918	15.98 214	51.552 356	55.32 189	6.083 416	24.33 185	21.786 298	36.24 181
	825		332	232	386	232	286	212
30 2	55.294	18.12	51.884	57.64	6.469	26.65	22.072	38.36
6 9.1	56.000 706	20.69 257	52.185 301	60.33 269	6.814 345	29.38 273	22.336 264	40.72 236
19.1	56.570 570	23.62 293	52.447 262	63.30 297	7.108 294	32.41 303	22.573 237	43.25 253
29.1	56.985 415	26.82 320	52.662 215	66.46 316	7.344 236	35.68 327	22.776 203	45.88 263
7 9.1	57.238 253	30.20 338	52.826 164	69.74 328	7.516 172	39.09 341	22.940 164	48.54 266
	83	348	107	330	102	347	120	262
19.0	57.321	33.68	52.933	73.04	7.618	42.56	23.060	51.16
28.9	57.232 89	37.18 350	52.981 48	76.29 325	7.650 32	45.99 343	23.135 75	53.68 252
8 7.9	56.974 258	40.61 343	52.971 10	79.41 312	7.611 39	49.33 334	23.162 27	56.05 237
17.9	56.555 419	43.90 329	52.902 69	82.34 293	7.503 108	52.47 314	23.142 20	58.21 216
27.9	55.985 570	46.97 307	52.780 122	85.02 268	7.329 174	55.37 290	23.079 63	60.13 192
	710	280	172	236	232	259	105	164
9 6.9	55.275	49.77	52.608	87.38	7.097	57.96	22.974	61.77
16.9	54.446 829	52.22 245	52.393 215	89.38 200	6.814 283	60.18 222	22.835 139	63.11 134
26.8	53.515 931	54.23 206	52.145 248	90.97 159	6.489 325	61.98 180	22.669 166	64.11 100
10 6.8	52.504 1011	55.88 160	51.870 275	92.12 115	6.133 356	63.33 135	22.482 187	64.76 65
16.8	51.441 1063	56.99 111	51.582 288	92.80 68	5.758 375	64.17 84	22.285 197	65.04 28
	1093	59	293	18	382	32	199	8
25.8	50.348	57.58	51.289	92.98	5.376	64.49	22.086	64.96
11 5.7	49.255 1093	57.61 3	51.003 286	92.65 33	4.999 377	64.27 22	21.895 191	64.50 46
15.7	48.191 1064	57.07 54	50.733 270	91.81 84	4.640 359	63.50 77	21.719 176	63.66 84
25.7	47.184 1007	55.96 111	50.489 244	90.46 135	4.309 331	62.19 131	21.566 153	62.47 119
12 5.6	46.262 922	54.29 167	50.279 210	88.64 182	4.018 291	60.35 184	21.442 124	60.93 154
	808	218	168	225	242	231	91	183
15.6	45.454	52.11	50.111	86.39	3.776	58.04	21.351	59.10
25.6	44.785 669	49.48 263	49.988 123	83.76 263	3.590 186	55.33 271	21.296 55	57.01 209
35.6	44.276 509	46.45 302	49.915 73	80.84 292	3.466 124	52.28 305	21.280 16	54.74 227
平位	s 50.670	″ 26.54	s 50.119	″ 63.52	s 4.381	″ 33.83	s 20.652	″ 39.92
2回正中	7月26日		7月26日		7月26日		7月27日	
a b	− 0.1006	+ 0.1631	+ 0.0942	+ 0.0383	+ 0.0692	+ 0.0547	+ 0.1280	+ 0.0168
a′ b′	+ 0.5404	+ 0.8414	+ 0.5440	+ 0.8391	+ 0.5449	+ 0.8385	+ 0.5532	+ 0.8331
FK3番號	759		757		758		760	

本初子午線正中時

星名		α^2 Capr		β Capr		χ^1 Sgtr		γ Cygn	
等級	スペクトル型	3.77	G5	3.25	G0, A0	5.64	A0	2.32	F8p
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 20 14	° ′ − 12 43	h m 20 17	° ′ − 14 57	h m 20 18	° ′ − 42 13	h m 20 20	° ′ + 40 4
		s	″	s	″	s	″	s	″
1	0.6	51.644	20.82	46.643	44.87	32.969	53.22	9.150	33.51
	10.5	51.684 40	21.23 41	46.682 39	45.15 28	33.011 42	51.88 134	9.119 31	30.67 284
	20.5	51.760 76	21.59 36	46.756 74	45.37 22	33.100 89	50.42 146	9.135 16	27.71 296
	30.5	51.869 109	21.88 29	46.864 108	45.50 13	33.236 136	48.87 155	9.199 64	24.74 297
2	9.5	52.010 141	22.06 18	47.004 140	45.54 4	33.415 179	47.27 160	9.309 110	21.87 287
		170	4	169	10	218	161	154	266
	19.4	52.180	22.10	47.173	45.44	33.633	45.66	9.463	19.21
3	1.4	52.377 197	22.00 10	47.370 197	45.20 24	33.887 254	44.05 161	9.660 197	16.87 234
	11.4	52.599 222	21.71 29	47.592 222	44.80 40	34.173 286	42.46 159	9.894 234	14.95 192
	21.4	52.843 244	21.24 47	47.837 245	44.23 57	34.489 316	40.94 152	10.164 270	13.51 144
	31.3	53.107 264	20.58 66	48.101 264	43.50 73	34.829 340	39.49 145	10.461 297	12.61 90
		280	83	283	89	361	133	321	32
4	10.3	53.387	19.75	48.384	42.61	35.190	38.16	10.782	12.29
	20.3	53.680 293	18.76 99	48.679 295	41.58 103	35.567 377	36.96 120	11.118 336	12.55 26
	30.2	53.982 302	17.64 112	48.983 304	40.45 113	35.954 387	35.94 102	11.462 344	13.37 82
5	10.2	54.286 304	16.43 121	49.291 308	39.25 120	36.346 392	35.12 82	11.806 344	14.71 134
	20.2	54.587 301	15.17 126	49.596 305	38.03 122	36.733 387	34.52 60	12.141 335	16.54 183
		292	126	296	121	375	35	316	225
	30.2	54.879	13.91	49.892	36.82	37.108	34.17	12.457	18.79
6	9.1	55.154 275	12.68 123	50.171 279	35.66 116	37.462 354	34.08 9	12.748 291	21.38 259
	19.1	55.406 252	11.53 115	50.428 257	34.59 107	37.788 326	34.26 18	13.006 258	24.22 284
	29.1	55.628 222	10.49 104	50.655 227	33.65 94	38.075 287	34.70 44	13.222 216	27.25 303
7	9.1	55.814 186	9.59 90	50.847 192	32.86 79	38.318 243	35.41 71	13.393 171	30.38 313
		146	75	150	62	192	93	120	316
	19.0	55.960	8.84	50.997	32.24	38.510	36.34	13.513	33.54
	29.0	56.062 102	8.27 57	51.104 107	31.79 45	38.645 135	37.48 114	13.581 68	36.64 310
8	7.9	56.119 57	7.87 40	51.164 60	31.51 28	38.721 76	38.77 129	13.594 13	39.61 297
	17.9	56.129 10	7.64 23	51.177 13	31.40 11	38.737 16	40.17 140	13.554 40	42.39 278
	27.9	56.094 35	7.56 8	51.146 31	31.45 5	38.695 42	41.61 144	13.463 91	44.93 254
		75	6	72	17	96	144	137	224
9	6.9	56.019	7.62	51.074	31.62	38.599	43.05	13.326	47.17
	16.9	55.909 110	7.80 18	50.965 109	31.90 28	38.456 143	44.42 137	13.149 177	49.06 189
	26.8	55.771 138	8.08 28	50.827 138	32.26 36	38.273 183	45.65 123	12.939 210	50.57 151
10	6.8	55.614 157	8.43 35	50.670 157	32.68 42	38.063 210	46.69 104	12.706 233	51.67 110
	16.8	55.446 168	8.84 41	50.501 169	33.12 44	37.837 226	47.50 81	12.458 248	52.31 64
		169	44	169	46	230	55	252	19
	26.8	55.277	9.28	50.332	33.58	37.607	48.05	12.206	52.50
11	5.7	55.117 160	9.74 46	50.170 162	34.04 46	37.386 221	48.31 26	11.959 247	52.20 30
	15.7	54.975 142	10.21 47	50.025 145	34.49 45	37.186 200	48.27 4	11.726 233	51.43 77
	25.7	54.856 119	10.69 48	49.905 120	34.92 43	37.017 169	47.94 33	11.516 210	50.19 124
12	5.6	54.769 87	11.18 49	49.815 90	35.32 40	36.887 130	47.33 61	11.337 179	48.50 169
		54	48	56	39	86	85	144	210
	15.6	54.715	11.66	49.759	35.71	36.801	45.48	11.193	46.40
	25.6	54.697 18	12.13 47	49.739 20	36.06 35	36.765 36	45.41 107	11.090 103	43.96 244
	35.6	54.717 20	12.58 45	49.757 18	36.38 32	36.779 14	44.17 124	11.032 58	41.23 273
平位		s 53.580	″ 22.55	s 48.606	″ 46.13	s 35.646	″ 51.01	s 10.864	″ 23.88
2回正中		7月27日		7月28日		7月28日		7月28日	
a	b	+ 0.1653	− 0.0084	+ 0.1680	− 0.0101	+ 0.2031	− 0.0344	+ 0.1074	+ 0.0322
a′	b′	+ 0.5552	+ 0.8317	+ 0.5657	+ 0.8246	+ 0.5685	+ 0.8227	+ 0.5742	+ 0.8187
FK3番號		761		762		763		765	

本初子午線正中時

星名		α Pavo		† ρ Capr		ϑ Ceph		ε Delf	
等級	スペクトル型	2.12	B3	4.96	F0	4.28	A5	3.98	B5
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 20 21	° ′ − 56 54	h m 20 25	° ′ − 17 59	h m 20 28	° ′ + 62 47	h m 20 30	° ′ + 11 6
		s	″	s	″	s	″	s	″
1	0.6	5.447	74.18	34.651	72.16	35.499	80.21	27.666	35.28
	10.6	5.475 28	72.03 215	34.683 32	72.25 9	35.341 158	77.09 312	27.675 9	33.60 168
	20.5	5.571 96	69.76 227	34.751 68	72.26 1	35.265 76	73.75 334	27.718 43	31.90 170
	30.5	5.731 160	67.41 235	34.853 102	72.19 7	35.274 9	70.33 342	27.794 76	30.23 167
2	9.5	5.953 222	65.04 237	34.987 134	72.01 18	35.368 94	66.93 340	27.904 110	28.69 154
		277	234	165	30	179	322	140	136
	19.4	6.230	62.70	35.152	71.71	35.547	63.71	28.044	27.33
3	1.4	6.558 328	60.46 224	35.346 194	71.27 44	35.805 258	60.78 293	28.214 170	25.22 111
	11.4	6.932 374	58.33 213	35.565 219	70.70 57	36.135 330	58.25 253	28.412 198	25.41 81
	21.4	7.344 412	56.38 195	35.808 243	69.98 72	36.530 395	55.22 203	28.635 223	24.96 45
	31.3	7.791 447	54.63 175	36.073 265	69.11 87	36.976 446	54.76 146	28.882 247	24.89 7
		475	151	283	99	486	85	265	31
4	10.3	8.266	53.12	36.356	68.12	37.462	53.91	29.147	25.20
	20.3	8.761 495	51.88 124	36.654 298	67.02 110	37.974 512	53.71 20	29.428 281	25.90 70
	30.3	9.267 506	50.95 93	36.962 308	65.85 117	38.495 521	54.15 44	29.719 291	26.95 105
5	10.2	9.778 511	50.33 62	37.275 313	64.64 121	39.012 517	55.20 105	30.014 295	28.32 137
	20.2	10.282 504	50.07 26	37.587 312	63.44 120	39.509 497	56.82 162	30.308 294	29.97 165
		486	8	303	117	463	214	284	187
	30.2	10.768	50.15	37.890	62.27	39.972	58.93	30.592	31.84
6	9.1	11.226 458	50.60 45	38.179 289	61.19 108	40.388 416	61.53 257	30.861 269	33.86 202
	19.1	11.646 420	51.39 79	38.445 266	60.22 97	40.746 358	64.47 294	31.108 247	35.98 212
	29.1	12.015 369	52.50 111	38.682 237	59.40 82	41.036 290	67.69 322	31.324 216	38.14 216
7	9.1	12.325 310	53.93 143	38.883 201	58.74 66	41.250 214	71.10 341	31.507 183	40.28 214
		242	167	161	48	134	352	143	205
	19.0	12.567	55.60	39.044	58.26	41.384	74.62	31.650	42.33
	29.0	12.736 169	57.48 188	39.160 116	57.97 29	41.434 50	78.15 353	31.749 99	44.27 194
8	7.9	12.826 90	59.51 203	39.230 70	57.86 11	41.399 35	81.63 348	31.804 55	46.04 177
	17.9	12.837 11	61.60 209	39.252 22	57.92 6	41.282 117	84.96 333	31.815 11	47.62 158
	27.9	12.770 67	63.69 209	39.228 24	58.13 21	41.088 194	88.09 313	31.782 33	48.98 136
		138	200	67	32	267	285	73	113
9	6.9	12.632	65.69	39.161	58.45	40.821	90.94	31.709	50.11
	16.9	12.429 203	67.54 185	39.056 105	58.88 43	40.490 331	93.44 250	31.601 108	50.98 87
	26.8	12.172 257	69.14 160	38.922 134	59.36 48	40.106 384	95.55 211	31.465 136	51.60 62
10	6.8	11.876 296	70.44 130	38.766 156	59.88 52	39.681 425	97.21 166	31.308 157	51.95 35
	16.8	11.556 320	71.38 94	38.597 169	60.40 52	39.227 454	93.38 117	31.140 168	52.04 9
		328	54	171	50	470	65	173	18
	26.8	11.228	71.92	38.426	60.90	38.757	99.03	30.937	51.86
11	5.7	10.909 319	72.03 11	38.261 165	61.37 47	38.287 470	99.13 10	30.800 167	51.43 43
	15.7	10.614 295	71.71 32	38.113 148	61.80 43	37.829 458	98.66 47	30.646 154	50.74 69
	25.7	10.359 255	70.97 74	37.988 125	62.17 37	37.398 431	97.62 104	30.513 133	49.81 93
12	5.6	10.154 205	69.84 113	37.892 96	62.48 31	37.007 391	96.02 160	30.404 109	48.65 116
		145	148	63	26	340	210	78	136
	15.6	10.009	68.36	37.829	62.74	36.667	93.92	30.326	47.29
	25.6	9.930 79	66.58 178	37.803 26	62.94 20	36.389 278	91.36 256	30.281 45	45.77 152
	35.6	9.919 11	64.56 202	37.815 12	63.07 13	36.183 206	88.41 295	30.269 12	44.13 164
平位		s 9.029	″ 70.47	s 33.645	″ 72.53	s 37.642	″ 67.64	s 29.332	″ 30.25
2回正中		7月29日		7月30日		7月30日		7月31日	
a	b	+ 0.2369	− 0.0591	+ 0.1708	− 0.0129	+ 0.0499	+ 0.0784	+ 0.1430	+ 0.0080
a′	b′	+ 0.5777	+ 0.8163	+ 0.5935	+ 0.8049	+ 0.6040	+ 0.7970	+ 0.6105	+ 0.7921
FK3番號		764		766		767		768	

星名	73 Drac		α Indi		† β Delf m		χ Delf	
等級	5.18		3.21		3.72		5.23	
スペクトル型	A2p		K0		F5		G5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 20 32	° ′ +74 45	h m 20 33	° ′ −47 29	h m 20 34	° ′ +14 23	h m 20 36	° ′ +9 52
	s	″	s	″	s	″	s	″
1 0.6	13.797	48.42	31.073 18	34.60 163	50.874 1	50.25 182	19.939	67.90
10.6	13.425 372	45.37 305	31.091 71	32.97 178	50.875 36	48.43 185	19.944 5	66.31 159
20.5	13.198 227	42.05 332	31.162 122	31.19 189	50.911 70	46.58 183	19.983 39	64.69 162
30.5	13.124 74	38.61 344	31.284 170	29.30 195	50.981 103	44.75 172	20.055 72	63.11 158
2 9.5	13.207 83	35.16 345	31.454 214	27.35 198	51.084 135	43.03 153	20.159 104	61.64 147
	237	332					136	129
19.5	13.444 384	31.84	31.668 256	25.37 196	51.219 167	41.50 128	20.295 166	60.35 104
3 1.4	13.828 518	28.77 307	31.924 293	23.41 192	51.386 195	40.22 95	20.461 193	59.31 74
11.4	14.346 634	26.08 269	32.217 327	21.49 183	51.581 221	39.27 59	20.654 220	58.57 41
21.4	14.980 727	23.86 222	32.544 357	19.66 172	51.802 245	38.68 20	20.874 242	58.16 4
31.3	15.707 797	22.19 167	32.901 383	17.94 157	52.047 266	38.48 22	21.116 264	58.12 34
4 10.3	16.504 839	21.13 42	33.284 403	16.37 139	52.313 282	38.70 63	21.380 279	58.46
20.3	17.343 852	20.71 21	33.687 416	14.98 116	52.595 293	39.33 101	21.659 291	59.17 71
30.3	18.195 840	20.92 84	34.103 424	13.82 93	52.888 298	40.34 137	21.950 296	60.23 106
5 10.2	19.035 800	21.76 142	34.527 421	12.89 64	53.186 296	41.71 167	22.246 295	61.60 137
20.2	19.835 737	23.18 196	34.948 412	12.25 35	53.482 287	43.38 191	22.541 287	63.23 163
30.2	20.572 651	25.14 243	35.360 392	11.90 5	53.769 272	45.29 211	22.828 272	65.07 200
6 9.2	21.223 548	27.57 282	35.752 363	11.85 28	54.041 249	47.40 222	23.100 251	67.07 208
19.1	21.771 430	30.39 312	36.115 324	12.13 57	54.290 220	49.62 228	23.351 223	69.15 212
29.1	22.201 301	33.51 336	36.439 278	12.70 88	54.510 185	51.90 228	23.574 188	71.27 209
7 9.1	22.502 164	36.87 350	36.717 223	13.58 113	54.695 146	54.18 222	23.762 149	73.36 201
19.0	22.666	40.37	36.940 163	14.71 137	54.841 102	56.40 211	23.911 107	75.37 189
29.0	22.690 24	43.92 355	37.103 100	16.08 154	54.943 57	58.51 195	24.018 62	77.26 173
8 7.9	22.573 117	47.45 353	37.203 34	17.62 166	55.000 12	60.46 176	24.080 18	78.99 153
17.9	22.320 253	50.88 343	37.237 30	19.28 172	55.012 32	62.22 154	24.098 26	80.52 132
27.9	21.937 383	54.12 324	37.207 90	21.00 171	54.980 72	63.76 130	24.072 66	81.84 108
	502	300						
9 6.9	21.435	57.12	37.117	22.71	54.908	65.06	24.006	82.92
16.9	20.825 610	59.81 269	36.973 144	24.34 163	54.800 108	66.09 103	23.904 102	83.76 84
26.9	20.124 701	62.12 231	36.783 190	25.82 148	54.664 136	66.84 75	23.773 131	84.35 59
10 6.8	19.348 776	64.00 188	36.560 223	27.08 126	54.506 158	67.32 48	23.622 151	84.69 34
16.8	18.519 829	65.40 140	36.315 245	28.07 99	54.335 171	67.50 18	23.457 165	84.77 8
	864	89	253	68	175	10	169	17
26.8	17.655	66.29	36.062	28.75	54.160	67.40	23.288	84.60
11 5.7	16.781 874	66.62 33	35.814 248	29.09 34	53.990 170	67.00 40	23.123 165	84.18 42
15.7	15.918 863	66.37 25	35.584 230	29.08 1	53 831 159	66.32 68	22.971 152	83.52 66
25.7	15.092 826	65.54 83	35.384 200	28.72 36	53.692 139	65.37 95	22.838 133	82.63 89
12 5.7	14.324 768	64.14 140	35.222 162	28.02 70	53.577 115	64.17 120	22.729 109	81.53 110
	685	194	115	100	85	144	80	130
15.6	13.639	62.20	35.107	27.02	53.492	62.73	22.649	80.23
25.6	13.057 582	59.76 244	35.042 65	25.74 128	53.439 53	61.11 162	22.601 48	78.78 145
35.6	12.597 460	56.91 285	35.031 11	24.23 151	53.420 19	59.34 177	22.587 14	77.22 156
平位	s 16.903	″ 34.71	s 33.962	″ 30.51	s 52.509	″ 44.72	s 21.592	″ 63.22
2回正中	7月31日		8月1日		8月1日		8月1日	
a b	−0.0593	+0.1509	+0.2103	−0.0452	+0.1400	+0.0107	+0.1443	+0.0073
a′ b′	+0.6166	+0.7873	+0.6210	+0.7838	+0.6255	+0.7802	+0.6305	+0.7762
FK3番號	770		769		771		772	

星名	υ Capr		α Delf		α Cygn		β Pavo	
等級	5.33		3.86		1.33		3.60	
スペクトル型	M0		B8		A2p		A5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 20 36	° ′ −18 20	h m 20 36	° ′ +15 42	h m 20 39	° ′ +45 4	h m 20 39	° ′ −66 24
	s	″	s	″	s	″	s	″
1 0.6	46.436	26.83	57.741	41.24	27.570	43.73	46.107	41.92
10.6	46.457 21	26.88 5	57.738 3	39.37 187	27.502 68	40.90 283	46.070 37	39.37 255
20.5	46.513 56	26.85 3	57.771 33	37.45 192	27.483 19	37.89 301	46.127 57	36.64 273
30.5	46.604 91	26.73 12	57.837 66	35.56 189	27.514 31	34.82 307	46.273 146	33.80 284
2 9.5	46.727 123	26.49 24	57.938 101	33.78 178	27.597 83	31.80 302	46.507 234	30.93 287
	154	36	133	160	133	284	314	284
19.5	46.881	26.13	58.071	32.18	27.730	28.93	46.821	28.09
3 1.4	47.064 183	25.63 50	58.235 164	30.84 134	27.911 181	25.40 256	47.209 388	25.36 273
11.4	47.274 210	24.98 65	58.428 193	29.82 102	28.138 227	24.22 218	47.665 456	22.78 258
21.4	47.510 236	24.19 79	58.649 221	29.18 64	28.405 267	22.52 170	48.181 516	20.40 238
31.3	47.768 258	23.26 93	58.893 244	28.94 24	28.708 303	21.35 117	48.746 565	18.29 211
	279	106	266	17	332	60	610	182
4 10.3	48.047	22.20	59.159	29.11	29.040	20.75	49.356	16.47
20.3	48.342 295	21.04 116	59.441 282	29.71 60	29.392 352	20.75 0	49.997 641	14.99 148
30.3	48.649 307	19.80 124	59.735 294	30.71 100	29.757 365	21.34 59	50.658 661	13.87 112
5 10.2	48.963 314	18.53 127	60.033 298	32.07 136	30.125 368	22.48 114	51.329 671	13.15 72
20.2	49.277 314	17.27 126	60.331 298	33.74 167	30.487 362	24.15 167	51.993 667	12.85 30
	308	122	289	193	345	212	647	12
30.2	49.585	16.05	60.620	35.67	30.832	23.27	52.643	12.97
6 9.2	49.880 295	14.91 114	60.893 273	37.80 213	31.153 321	23.78 251	53.258 615	13.51 54
19.1	50.153 273	13.90 101	61.144 251	40.07 227	31.439 286	31.61 283	53.825 567	14.46 95
29.1	50.399 246	13.04 86	61.365 221	42.40 233	31.684 245	34.66 305	54.329 504	15.80 134
7 9.1	50.610 211	12.35 69	61.551 186	44.74 234	31.881 197	37.87 321	54.758 429	17.49 169
	171	50	147	228	145	328	342	199
19.0	50.781	11.85	61.698	47.02	32.026	41.15	55.100	19.48
29.0	50.909 128	11.54 31	61.801 103	49.20 218	32.114 88	44.42 327	55.346 246	21.71 223
8 7.9	50.989 80	11.43 11	61.859 58	51.22 202	32.144 30	47.60 318	55.489 143	24.11 240
17.9	51.022 33	11.49 6	61.872 13	53.05 183	32.117 27	50.63 303	55.527 38	26.60 249
27.9	51.003 14	11.71 22	61.841 31	54.67 162	32.036 81	53.44 281	55.460 67	29.09 249
	57	36	72	136	133	253	167	240
9 6.9	50.951	12.07	61.769	56.03	31.903	55.97	55.293	31.49
16.9	50.855 95	12.52 45	61.662 107	57.13 110	31.726 177	58.17 220	55.035 258	33.71 222
26.9	50.728 127	13.05 53	61.525 137	57.95 82	31.511 215	60.00 183	54.699 336	35.66 195
10 6.8	50.577 151	13.61 56	61.366 159	58.47 52	31.267 244	61.41 141	54.301 398	37.27 161
16.8	50.412 165	14.17 56	61.195 171	58.70 23	31.004 263	62.37 96	53.862 439	38.46 119
	169	55	177	7	273	49	461	72
26.8	50.243	14.72	61.018	58.63	30.731	62.86	53.401	39.18
11 5.7	50.078 165	15.23 51	60.846 172	58.25 38	30.459 272	62.84 2	52.941 460	39.40 22
15.7	49.928 150	15.68 45	60.685 161	57.59 66	30.197 262	62.32 52	52.503 438	39.10 30
25.7	49.798 130	16.07 39	60.543 142	56.63 96	29.954 243	61.30 102	52.108 395	38.30 80
12 5.7	49.696 102	16.40 33	60.426 117	55.41 122	29.738 216	59.79 151	51.772 336	37.03 127
	70	25	89	146	182	195	262	171
15.6	49.626	16.65	60.337	53.95	29.556	57.84	51.510	35.32
25.6	49.591 35	16.84 19	60.281 56	52.29 166	29.414 142	55.48 236	51.331 179	33.23 209
35.6	49.592 1	16.95 11	60.258 23	50.48 181	29.316 98	52.80 268	51.242 89	30.84 239
平位	s 48.406	″ 26.48	s 59.363	″ 35.50	s 29.230	″ 33.05	s 50.811	″ 35.70
2回正中	8月2日		8月2日		8月2日		8月2日	
a b	+0.1705	−0.0140	+0.1388	+0.0119	+0.1020	+0.0429	+0.2703	−0.0981
a′ b′	+0.6321	+0.7749	+0.6327	+0.7744	+0.6411	+0.7675	+0.6423	+0.7665
FK3番號	773		774		777		775	

星名		η Indi		δ Delf		ψ Capr		ε Cygn	
等級	スペクトル型	4.70	F0	4.53	A5	4.26	F8	2.64	K0
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 20 39	° ′ −52 7	h m 20 40	° ′ +14 52	h m 20 42	° ′ −25 28	h m 20 43	° ′ +33 45
		s	″	s	″	s	″	s	″
1	0.6	48.692	39.55	46.191	13.91	41.328	39.48	52.607	29.81
	10.6	48.696 4 62	37.69 186 204	46.186 5 29	12.09 182 186	41.343 15 53	39.12 36 47	52.568 39 2	27.30 251 264
	20.5	48.758	35.65	46.215	10.23	41.396	38.65	52.570	24.66	267
	30.5	48.876 118	33.50 215	46.279 64	8.40 183	41.486 90	38.06 59	52.612 42	21.99 261
2	9.5	49.048 172 222	31.29 221 224	46.376 97 129	6.66 174 155	41.609 123 156	37.37 69 81	52.697 85 124	19.38 243
	19.5	49.270	29.05	46.505	5.11	41.765	36.56	52.821	16.95
3	1.4	49.539 269	26.85 220	46.665 160	3.81 130	41.952 187	35.65 91	52.985 164	14.79 216
	11.4	49.850 311	24.71 214	46.855 190	2.83 98	42.168 216	34.63 102	53.187 202	13.00 179
	21.4	50.200 350	22.68 203	47.072 217	2.21 62	42.411 243	33.52 111	53.422 235	11.64 136
	31.3	50.583 383 412	20.80 188 169	47.314 242 263	1.99 22 19	42.678 267 289	32.33 119 126	53.687 265 292	10.78 86 33
4	10.3	50.995	19.11	47.577	2.18	42.967	31.07	53.979	10.45
	20.3	51.431 436	17.64 147	47.858 281	2.78 60	43.274 307	29.78 129	54.289 310	10.65 20
	30.3	51.882 451	16.42 122	48.150 292	3.78 100	43.594 320	28.49 129	54.613 324	11.38 73
5	10.2	52.342 460	15.49 93	48.448 298	5.13 135	43.923 329	27.24 125	54.942 329	12.61 123
	20.2	52.802 460 448	14.87 62 28	48.745 297 290	6.78 165 192	44.253 330 324	26.06 118 106	55.267 325 315	14.30 169 208
	30.2	53.250	14.59	49.035	8.70	44.577	25.00	55.582	16.38
6	9.2	53.679 429	14.65 6	49.310 275	10.81 211	44.888 311	24.08 92	55.878 296	18.80 242
	19.1	54.077 398	15.05 40	49.563 253	13.04 223	45.179 291	23.33 75	56.147 269	21.47 267
	29.1	54.434 357	15.79 74	49.787 224	15.34 230	45.441 262	22.79 54	56.382 235	24.32 285
7	9.1	54.741 307 248	16.85 106 134	49.977 190 150	17.65 231 225	45.668 227 185	22.46 33 11	56.577 195 149	27.28 296 298
	19.0	54.989	18.19	50.127	19.90	45.853	22.35	56.726	30.26
	29.0	55.172 183	19.77 158	50.235 108	22.04 214	45.993 140	22.45 10	56.827 101	33.21 295
8	7.9	55.286 114	21.54 177	50.297 62	24.03 199	46.085 92	22.74 29	56.878 51	36.05 284
	17.9	55.330 44	23.43 189	50.314 17	25.83 180	46.126 41	23.22 48	56.878 0	38.72 267
	27.9	55.302 28 93	25.37 194 193	50.287 27 67	27.42 159 134	46.118 8 54	23.84 62 73	56.830 48 94	41.17 245 218
9	6.9	55.209	27.30	50.220	28.76	46.064	24.57	56.736	43.35
	16.9	55.054 155	29.12 182	50.116 104	29.83 107	45.968 96	25.36 79	56.602 134	45.22 187
	26.9	54.849 205	30.77 165	49.983 133	30.63 80	45.839 129	26.17 81	56.436 166	46.75 153
10	6.8	54.605 244	32.17 140	49.828 155	31.14 51	45.684 155	26.96 79	56.244 192	47.89 114
	16.8	54.335 270 282	33.27 110 75	49.659 169 175	31.37 23 7	45.512 172 178	27.70 74 65	56.034 210 216	48.63 74 33
	26.8	54.053	34.02	49.484	31.30	45.334	28.35	55.818	48.96
11	5.7	53.775 278	34.39 37	49.313 171	30.94 36	45.160 174	28.88 53	55.602 216	48.84 12
	15.7	53.514 261	34.36 3	49.153 160	30.29 65	44.999 161	29.28 40	55.397 205	48.29 55
	25.7	53.283 231	33.94 42	49.012 141	29.36 93	44.859 140	29.53 25	55.208 189	47.31 98
12	5.7	53.093 190 141	33.13 81 115	48.894 118 90	28.18 118 142	44.748 111 79	29.65 12 2	55.044 164 134	45.90 141 178
	15.6	52.952	31.98	48.804	26.76	44.669	29.63	54.910	44.12
	25.6	52.865 87	30.52 146	48.746 58	25.15 161	44.626 43	29.47 16	54.809 101	42.01 211
	35.6	52.837 28	28.80 172	48.722 24	23.39 176	44.622 4	29.20 27	54.747 62	39.62 239
平位		s 51.840	″ 34.40	s 47.803	″ 8.39	s 43.42	″ 37.59	s 54.181	″ 20.89
2回正中		8月2日		8月3日		8月3日		8月3日	
a	b	+ 0.2190	− 0.0351	+ 0.1398	+ 0.0114	+ 0.1774	− 0.0207	+ 0.1197	+ 0.0292
a′	b′	+ 0.6423	+ 0.7664	+ 0.6455	+ 0.7638	+ 0.6519	+ 0.7584	+ 0.6557	+ 0.7550
FK3番號		776		778		779		780	

星名		6 H. Ceph		η Ceph		ε Aqar		† λ Cygn *m*	
等級	スペクトル型	4.63	G0	3.59	K0	3.83	A0	4.47	B5
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 20 43	° ′ +57 22	h m 20 44	° ′ +61 36	h m 20 44	° ′ −9 42	h m 20 45	° ′ +36 16
		s	″	s	″	s	″	s	″
1	0.6	54.377	41.07	5.999	74.00	33.668	19.64	9.603	58.69
	10.6	54.239 138	38.09 298	5.826 173	71.02 298	33.679 11	20.18 54	9.555 48	56.11 258
	20.5	54.166 73	34.88 321	5.728 98	67.80 322	33.723 44	20.66 48	9.550 5	53.38 273
	30.5	54.163 3	31.56 332	5.710 18	64.46 334	33.800 77	21.03 40	9.587 37	50.61 277
2	9.5	54.230 67 137	28.25 331 317	5.773 63 144	61.11 335 321	33.908 108 138	21.34 28 13	9.668 81 122	47.89 272 254
	19.5	54.367	25.08	5.917	57.90	34.046	21.47	9.790	45.35
3	1.4	54.572 205	22.17 291	6.140 223	54.94 296	34.213 167	21.43 4	9.954 164	43.08 227
	11.4	54.840 268	19.64 253	6.435 295	52.35 259	34.408 195	21.19 24	10.157 203	41.18 190
	21.4	55.164 324	17.58 206	6.794 359	50.23 212	34.628 220	20.74 45	10.395 238	39.72 146
	31.3	55.536 372 410	16.07 151 92	7.208 414 458	48.66 157 97	34.871 243 264	20.07 67 88	10.665 270 297	38.77 95 42
4	10.3	55.946	15.15	7.666	47.69	35.135	19.19	10.962	38.35
	20.3	56.384 438	14.87 28	8.154 488	47.35 34	35.417 282	18.13 106	11.278 316	38.48 13
	30.3	56.837 453	15.20 33	8.658 504	47.64 29	35.711 294	16.90 123	11.608 330	39.15 67
5	10.2	57.292 455	16.15 95	9.164 506	48.56 92	36.014 303	15.54 136	11.943 335	40.34 119
	20.2	57.736 444 421	17.65 151 203	9.655 491 464	50.05 149 201	36.317 303 299	14.11 143 147	12.275 332 321	42.01 167 207
	30.2	58.157	19.69	10.119	52.05	36.616	12.64	12.595	44.08
6	9.2	58.544 387	22.16 247	10.543 424	54.55 249	36.902 286	11.19 145	12.897 301	46.51 243
	19.1	58.885 341	25.01 285	10.915 372	57.41 286	37.169 267	9.79 140	13.170 273	49.20 269
	29.1	59.172 287	28.14 313	11.225 310	60.57 316	37.409 240	8.48 131	13.407 237	52.09 289
7	9.1	59.397 225 158	31.48 334 346	11.465 240 164	63.96 339 352	37.617 208 169	7.31 117 100	13.604 197 150	55.10 301 306
	19.0	59.555	34.94	11.629	67.48	37.786	6.31	13.754	58.16
	29.0	59.641 86	38.43 349	11.713 84	71.05 357	37.913 127	5.47 84	13.855 101	61.18 302
8	7.9	59.654 13	41.89 346	11.716 3	74.58 353	37.995 83	4.83 64	13.904 49	64.11 293
	17.9	59.596 58	45.21 332	11.638 78	78.00 342	38.032 36	4.38 45	13.901 3	66.87 276
	27.9	59.469 127 191	48.34 313 288	11.484 154 225	81.24 324 295	38.024 8 50	4.11 27 10	13.848 53 99	69.41 254 228
9	6.9	59.278	51.22	11.259	84.22	37.974	4.01	13.749	71.69
	16.9	59.030 248	53.77 255	10.970 289	86.89 267	37.886 88	4.07 6	13.609 140	73.64 195
	26.9	58.734 296	55.94 217	10.626 344	89.18 229	37.768 118	4.27 20	13.435 174	75.25 161
10	6.8	58.399 335	57.68 174	10.239 387	91.03 185	37.627 141	4.57 30	13.235 200	76.48 123
	16.8	58.037 362 379	58.95 127 76	9.820 419 438	92.42 139 87	37.471 156 162	4.93 39 46	13.017 218 226	77.28 80 38
	26.8	57.658	59.71	9.382	93.29	37.309	5.42	12.791	77.66
11	5.7	57.277 381	59.94 23	8.939 443	93.61 32	37.151 158	5.93 51	12.565 226	77.58 8
	15.7	56.903 374	59.61 33	8.503 436	93.37 24	37.005 146	6.49 56	12.348 217	77.05 53
	25.7	56.549 354	58.72 89	8.088 415	92.56 81	36.878 127	7.06 57	12.149 199	76.07 98
12	5.7	56.225 324 283	57.29 143 194	7.705 383 337	91.19 137 189	36.776 102 73	7.66 60 60	11.974 175 145	74.66 141 182
	15.6	55.942	55.35	7.368	89.30	36.703	8.26	11.829	72.84
	25.6	55.703 234	52.94 241	7.086 282	86.93 237	36.661 42	8.86 60	11.719 110	70.68 216
	35.6	55.531 177	50.15 279	6.868 218	84.15 278	36.654 7	9.43 57	11.647 72	68.22 246
平位		s 55.210	″ 28.62	s 7.958	″ 61.05	s 35.482	″ 20.39	s 11.177	″ 49.33
2回正中		8月3日		8月3日		8月4日		8月4日	
a	b	+ 0.0747	+ 0.0683	+ 0.0603	+ 0.0810	+ 0.1619	− 0.0075	+ 0.1166	+ 0.0323
a′	b′	+ 0.6559	+ 0.7549	+ 0.6565	+ 0.7543	+ 0.6580	+ 0.7530	+ 0.6600	+ 0.7513
FK3番號		782		783		781		784	

星名	β Indi		32 Vulp		ν Cygn		11 Aqar	
等級	3.72		5.24		4.04		6.23	
スペクトル型	K0		K5		A0		G0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 20 50	° ′ −58 39	h m 20 52	° ′ +27 50	h m 20 53	° ′ +40 56	h m 20 57	° ′ −4 56
	s	″	s	″	s	″	s	″
1 0.6	18.590	81.72	6.198	31.40	1.217	59.20	32.044	64.54
10.6	18.561 29	79.56 216	6.163 35	29.12 228	1.146 71	56.57 263	32.041 3	65.32 78
20.5	18.601 40	77.19 237	6.165 2	26.73 239	1.118 28	53.75 282	32.071 30	66.03 74
30.5	18.708 107	74.69 250	6.205 40	24.31 242	1.137 19	50.85 290	32.131 60	66.72 66
2 9.5	18.880 172	72.12 257	6.281 76	21.96 235	1.201 64	47.98 287	32.223 92	67.26 54
	234	259	116	219	112	271	122	39
19.5	19.114	69.53	6.397	19.77	1.313	45.27	32.345	67.65
3 1.4	19.404 290	66.98 255	6.548 151	17.85 192	1.459 156	42.80 247	32.497 152	67.84 19
11.4	19.747 343	64.53 245	6.734 186	16.26 159	1.669 200	40.70 210	32.676 179	67.81 3
21.4	20.137 390	62.22 231	6.953 219	15.09 117	1.903 240	39.03 167	32.883 207	67.54 27
31.4	20.569 432	60.09 213	7.201 248	14.37 72	2.185 276	37.86 117	33.114 231	67.02 52
	468	189	274	22	306	62	255	78
4 10.3	21.037	58.20	7.475	14.15	2.491	37.24	33.369	66.24
20.3	21.534 497	56.57 163	7.769 294	14.42 27	2.820 329	37.20 4	33.642 273	65.23 101
30.3	22.052 518	55.26 131	8.076 307	15.19 77	3.165 345	37.71 51	33.930 288	64.01 122
5 10.2	22.581 529	54.28 98	8.392 316	16.41 122	3.517 352	38.77 106	34.228 298	62.61 140
20.2	23.112 531	53.66 62	8.707 315	18.03 165	3.867 350	40.34 157	34.530 302	61.09 152
	520	23	306	200	338	201	297	161
30.2	23.632	53.43	9.013	20.06	4.205	42.35	34.827	59.48
6 9.2	24.131 499	53.59 16	9.304 291	22.36 230	4.525 320	44.75 240	35.114 287	57.84 164
19.1	24.596 465	54.14 55	9.571 267	24.89 253	4.815 290	47.46 271	35.384 270	56.23 161
29.1	25.015 419	55.05 92	9.803 237	27.58 269	5.059 254	50.40 294	35.629 245	54.67 156
7 9.1	25.379 364	56.34 128	10.008 200	30.35 277	5.280 211	53.50 310	35.842 213	53.23 144
	297	158	158	278	162	317	177	130
19.1	25.676 222	57.92 185	10.166 112	33.13 273	5.442 111	56.67 318	36.019 135	51.93 114
29.0	25.898 142	59.77 205	10.278 64	35.86 262	5.553 56	59.85 310	36.154 91	50.79 95
8 7.9	26.040 60	61.82 219	10.342 16	38.48 245	5.609 2	62.95 296	36.245 47	49.84 74
17.9	26.100 22	64.01 223	10.358 31	40.93 223	5.611 51	65.91 275	36.292 2	49.10 55
27.9	26.078 101	66.24 221	10.327 74	43.16 198	5.560 100	68.66 251	36.294 40	48.55 36
9 6.9	25.977 174	68.45 209	10.253 113	45.14 168	5.460 143	71.17 219	36.254 77	48.19 17
16.9	25.803 236	70.54 188	10.140 146	46.82 136	5.317 182	73.36 184	36.177 109	48.02 0
26.9	25.567 286	72.42 161	9.994 171	48.18 101	5.135 219	75.20 144	36.068 133	48.02 15
10 6.8	25.281 320	74.03 127	9.823 188	49.19 65	4.925 231	76.64 103	35.935 150	48.17 29
16.8	24.961 338	75.30 86	9.635 196	49.84 26	4.694 243	77.67 57	35.785 156	48.46 39
26.8	24.623	76.16	9.439	50.10	4.451	78.24	35.629	48.85
11 5.8	24.283 340	76.59 43	9.244 195	49.96 14	4.206 245	78.34 10	35.473 156	49.35 50
15.7	23.960 323	76.56 3	9.056 188	49.44 52	3.968 238	77.96 38	35.327 146	49.94 59
25.7	23.666 294	76.08 48	8.885 171	48.52 92	3.746 222	77.09 87	35.197 130	50.60 66
12 5.7	23.416 250	75.15 93	8.736 149	47.23 129	3.546 200	75.76 133	35.089 108	51.32 72
	195	133	122	163	170	177	81	77
15.6	23.221	73.82	8.614	45.60	3.376	73.99	35.033	52.09
25.6	23.088 133	72.12 170	8.523 91	43.67 193	3.240 136	71.84 215	34.957 51	52.88 79
35.6	23.021 67	70.13 199	8.467 56	41.50 217	3.144 96	69.36 248	34.936 21	53.68 80
平位	s 22.228	″ 74.96	s 7.731	″ 23.53	s 2.761	″ 48.95	s 33.753	″ 65.61
2回正中	8月5日		8月5日		8月6日		8月7日	
a b	+0.2340	−0.0741	+0.1276	+0.0240	+0.1116	+0.0400	+0.1575	−0.0040
a′ b′	+0.6768	+0.7362	+0.6824	+0.7310	+0.6917	+0.7222	+0.6996	+0.7145
FK3番號	785		786		788		789	

星名	α Octn		ζ Micr		ξ Cygn		A Capr	
等級	5.24		5.35		3.92		4.60	
スペクトル型	F2		F0		K5		M0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 20 57	° ′ −77 14	h m 20 59	° ′ −38 51	h m 21 2	° ′ +43 41	h m 21 3	° ′ −25 13
	s	″	s	″	s	″	s	″
1 0.6	45.125	45.61	17.356	24.54	49.803	69.63	45.804	69.13
10.6	44.908 217	42.70 291	17.348 8	23.44 110	49.716 90	66.99 264	45.799 5	68.79 34
20.5	44.860 48	39.58 312	17.384 36	22.15 129	49.672 44	64.15 284	45.829 30	68.31 48
30.5	44.980 120	36.31 327	17.461 77	20.72 143	49.676 4	61.20 295	45.895 66	67.70 61
2 9.5	45.265 285	33.00 331	17.580 119	19.17 155	49.728 52	58.26 294	45.994 99	66.96 74
	441	328	157	164	101	281	133	87
19.5	45.706	29.72	17.737	17.53	49.829	55.45	46.127	66.09
3 1.4	46.292 586	26.56 316	17.931 194	15.82 171	49.979 150	52.87 258	46.291 164	65.09 100
11.4	47.010 718	23.57 299	18.160 229	14.07 175	50.175 196	50.64 223	46.486 195	63.98 111
21.4	47.845 835	20.83 274	18.422 262	12.31 176	50.415 240	48.84 180	46.710 224	62.75 123
31.4	48.779 934	18.39 244	18.714 292	10.58 173	50.693 278	47.53 131	46.961 251	61.43 132
	1020	209	319	168	311	75	276	139
4 10.3	49.789 1084	16.30 169	19.033	8.90	51.004	46.78	47.237	60.04
20.3	50.883 1127	14.61 127	19.375 342	7.31 159	51.341 337	46.60 18	47.535 298	58.60 144
30.3	52.010 1150	13.34 80	19.735 360	5.84 147	51.696 355	47.00 40	47.849 314	57.16 144
5 10.2	53.160 1148	12.54 33	20.105 371	4.55 129	52.060 364	47.96 96	48.175 326	55.75 141
20.2	54.308 1121	12.21 15	20.483 377	3.45 110	52.423 363	49.44 148	48.503 329	54.41 134
			372	86	353	194		123
30.2	55.429	12.36	20.855	2.59	52.776	51.38	48.835	53.18
6 9.2	56.499 1070	13.00 64	21.215 360	1.99 60	53.109 333	53.74 236	49.154 319	52.10 108
19.1	57.491 992	14.10 110	21.555 340	1.67 32	53.413 304	56.43 269	49.456 302	51.21 89
29.1	58.381 890	15.64 154	21.865 310	1.64 3	53.680 267	59.38 295	49.732 276	50.52 69
7 9.1	59.146 765	17.57 193	22.138 273	1.90 26	53.903 223	62.51 313	49.976 244	50.05 47
	617	228	227	54	174	323	205	22
19.1	59.763	19.85	22.365	2.44	54.077	65.74	50.181	49.83
29.0	60.217 454	22.40 255	22.542 177	3.24 80	54.197 120	68.99 325	50.341 160	49.84 1
8 8.0	60.494 277	25.14 274	22.663 121	4.26 102	54.261 64	72.19 320	50.453 112	50.06 22
17.9	60.587 93	27.99 285	22.728 65	5.47 121	54.269 8	75.26 307	50.516 63	50.50 44
27.9	60.496 91	30.85 286	22.735 7	6.81 134	54.221 48	78.15 289	50.529 13	51.10 60
	273	277	46	142	93	264	33	73
9 6.9	60.223	33.62	22.689	8.23	54.123	80.79	50.496	51.83
16.9	59.781 442	36.19 257	22.592 97	9.65 142	53.979 144	83.13 234	50.419 77	52.66 83
26.9	59.191 590	38.46 227	22.454 138	11.02 137	53.794 185	85.12 199	50.306 113	53.53 87
10 6.8	58.476 715	40.35 189	22.282 172	12.29 127	53.578 216	86.72 160	50.164 142	54.40 87
16.8	57.669 807	41.78 143	22.087 195	13.38 109	53.339 239	87.90 118	50.003 161	55.23 83
	866	90	207	88	252	71	171	75
26.8	56.803	42.68	21.880	14.26	53.087	88.61	49.832	55.93
11 5.8	55.918 885	43.02 34	21.672 208	14.88 62	52.830 257	88.85 24	49.660 172	56.62 64
15.7	55.051 867	42.77 25	21.476 196	15.23 35	52.578 252	88.59 26	49.498 162	57.12 50
25.7	54.239 812	41.93 84	21.299 177	15.29 6	52.340 238	87.83 76	49.352 146	57.48 36
12 5.7	53.515 724	40.54 139	21.152 147	15.07 22	52.122 218	86.58 125	49.231 121	57.68 20
	607	189	113	49	188	170	92	5
15.6	52.903	38.65	21.039	14.58	51.934	84.88	49.139	57.73
25.6	52.443 465	36.31 234	20.936 73	13.83 75	51.779 155	82.77 211	49.080 59	57.63 10
35.6	52.133 310	33.60 271	20.936 30	12.86 97	51.634 145	80.30 247	49.055 25	57.38 25
平位	s 53.159	″ 37.04	s 19.777	″ 19.30	s 51.322	″ 53.82	s 47.825	″ 65.85
2回正中	8月7日		8月7日		8月8日		8月8日	
a b	+0.3635	−0.2053	+0.1914	+0.0379	+0.1088	+0.0453	+0.1752	−0.0226
a′ b′	+0.7006	+0.7136	+0.7050	+0.7092	+0.7159	+0.6983	+0.7187	+0.6953
FK3番號	787		790		792		791	

星名	61 Cygn *pr*		*ν* Aqar		Br 2777 Ceph		†Grb 3415 Ceph *m*	
等級 スペクトル型	5.57	K5	4.52	K0	5.90	B9	5.65	B2
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 21 4	° ′ +38 27	h m 21 6	° ′ −11 35	h m 21 6	° ′ +77 53	h m 21 10	° ′ +59 44
1 0.6	s 18.811	″ 74.91	s 27.661	″ 73.81	s 37.399	″ 59.76	s 19.484	″ 79.17
10.6	18.752 59	72.48 243	27.653 8	74.22 41	36.778 621	57.05 271	19.288 196	76.41 276
20.6	18.734 18	69.87 261	27.678 25	74.56 34	36.325 453	53.99 306	19.157 131	73.35 306
30.5	18.759 25	67.19 268	27.734 56	74.79 23	36.056 269	50.70 329	19.093 59	70.11 324
2 9.5	18.828 69	64.53 266	27.821 87	74.90 11	35.982 74	47.30 340	19.113 90	66.81 330
	113	251	117	5	123	338		323
19.5	18.941	62.02	27.938	74.85 21	36.105	43.92	19.203	63.58
3 1.4	19.098 157	59.75 227	28.086 148	74.64 42	36.422 317	40.70 322	19.369 166	60.55 303
11.4	19.297 199	57.83 192	28.262 176	74.22 60	36.924 502	37.76 294	19.607 238	57.83 272
21.4	19.535 238	56.34 149	28.466 204	73.62 82	37.588 664	35.20 256	19.912 305	55.53 230
31.4	19.803 273	55.33 101	28.697 231	72.80 100	38.393 805	33.14 206	20.274 362	53.73 180
	303	47	255		916	151	412	123
4 10.3	20.111	54.86 7	28.952	71.80 119	39.309	31.63 91	20.686	52.50 61
20.3	20.439 328	54.93 63	29.227 275	70.61 132	40.305 996	30.72 28	21.135 449	51.89 1
30.3	20.783 344	55.56 116	29.518 291	69.29 144	41.344 1039	30.44 35	21.609 474	51.88 63
5 10.3	21.135 352	56.72 164	29.821 303	67.85 150	42.394 1050	30.79 96	22.093 484	52.51 121
20.2	21.488 353	58.36 209	30.129 308	66.35 152	43.420 1026	31.75 152	22.574 481	53.72 175
	344		306		968		464	
30.2	21.832	60.45	30.435	64.83	44.388	33.27	23.038	55.47
6 9.2	22.157 325	62.90 245	30.733 298	63.34 149	45.272 884	35.32 205	23.472 434	57.71 224
19.1	22.457 300	65.66 276	31.013 280	61.92 142	46.046 774	37.81 249	23.864 392	60.37 266
29.1	22.722 265	68.64 298	31.270 257	60.61 131	46.688 642	40.69 288	24.202 338	63.36 299
7 9.1	22.947 225	71.77 313	31.497 227	59.45 116	47.182 494	43.86 317	24.480 278	66.62 326
	178	319	190	98	333	340	209	343
19.1	23.125	74.96	31.687	58.47	47.515	47.26	24.689	70.05
29.0	23.253 128	78.16 320	31.836 149	57.68 79	47.680 165	50.80 354	24.824 135	73.58 353
8 8.0	23.329 76	81.27 311	31.940 104	57.10 58	47.674 6	54.40 360	24.883 59	77.12 354
17.9	23.352 23	84.25 298	31.999 59	56.72 38	47.497 177	57.98 358	24.866 90	80.59 347
27.9	23.323 29	87.02 277	32.012 13	56.53 19	47.156 341	61.45 347	24.776 161	83.92 333
	76	252	30	0	498	331		312
9 6.9	23.247	89.54	31.982	56.53	46.658	64.76	24.615	87.04
16.9	23.127 120	91.76 222	31.912 70	56.68 15	46.017 641	67.82 306	24.390 225	89.88 284
26.9	22.970 157	93.63 187	31.810 102	56.97 29	45.247 770	70.57 275	24.109 281	92.38 250
10 6.8	22.784 186	95.12 149	31.681 129	57.37 40	44.367 880	72.94 237	23.781 328	94.49 211
16.8	22.578 206	96.20 108	31.535 146	57.84 47	43.398 969	74.88 194	23.418 363	96.14 165
	217	65	156	53	1035	145	388	117
26.8	22.361	96.85	31.379	58.37	42.363 1076	76.33	23.030	97.31
11 5.8	22.140 221	97.04 19	31.223 156	58.93 56	41.287 1089	77.25 92	22.629 401	97.94 63
15.7	21.925 215	96.77 27	31.075 148	59.51 58	40.198 1074	77.60 35	22.228 401	98.02 8
25.7	21.724 201	96.03 74	30.943 132	60.08 57	39.124 1030	77.36 24	21.839 389	97.54 48
12 5.7	21.544 180	94.85 118	30.831 112	60.64 56	38.094 954	76.52 84	21.472 367	95.49 105
	152	159	85	54		142	332	160
15.7	21.392	93.26	30.746	61.18	37.140	75.10	21.140	94.89
25.6	21.272 120	91.28 198	30.690 56	61.68 50	36.288 852	73.14 196	20.852 288	92.79 210
35.6	21.189 83	89.00 228	30.665 25	62.14 46	35.567 721	70.68 246	20.618 234	90.25 254
平位	s 20.310	″ 65.31	s 29.430	″ 73.09	s 40.404	″ 44.61	s 21.155	″ 65.76
2回正中	8月9日		8月9日		8月9日		8月10日	
a b	+ 0.1166	+ 0.0382	+ 0.1627	− 0.0100	− 0.0600	+ 0.2261	+ 0.0762	+ 0.0844
a′ b′	+ 0.7204	+ 0.6936	+ 0.7269	+ 0.6868	+ 0.7274	+ 0.6862	+ 0.7383	− 0.6745
FK3番號	793		794		795		798	

星名	*ζ* Cygn		23 G. Indi		†*τ* Cygn		*α* Equl	
等級 スペクトル型	3.40	K0	5.84	A5	3.82	F0	4.14	F8, A3
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	° ′ +29 59	h m 21 11	° ′ −53 29	h m 21 12	° ′ +37 47	h m 21 12	° ′ +5 0
1 0.6	s 29.039	″ 40.38	s 39.141	″ 69.45	s 29.363	″ 74.51	s 56.888	″ 42.91
10.6	28.983 56	38.14 224	39.092 49	67.62 183	29.284 79	72.09 242	56.865 23	41.67 124
20.6	28.963 20	35.75 239	39.100 8	65.54 208	29.246 38	69.47 262	56.874 9	40.42 125
30.5	28.930 17	33.31 244	39.164 64	63.29 225	29.249 3	66.76 271	56.913 39	39.21 121
2 9.5	29.035 55	30.90 241	39.284 120	60.90 239	29.295 46	64.05 271	56.983 70	38.10 111
	94	228	172	245	90	259	101	95
19.5	29.129	28.62	39.456	58.45	29.385	61.46	57.084	37.15
3 1.4	29.262 133	26.58 204	39.680 224	55.97 248	29.519 134	59.10 236	57.216 132	36.41 74
11.4	29.431 169	24.86 172	39.952 272	53.53 244	29.695 176	57.06 204	57.378 162	35.93 48
21.4	29.637 206	23.53 133	40.267 315	51.16 237	29.911 216	55.43 163	57.569 191	35.74 19
31.4	29.875 238	22.66 87	40.624 357	48.91 225	30.163 252	54.28 115	57.787 218	35.87 13
	267	40	393	208	286	64	244	46
4 10.3	30.142	22.26	41.017	46.83	30.449	53.64	58.031	36.33
20.3	30.433 291	22.38 12	41.441 424	44.97 186	30.759 310	53.54 10	58.296 265	37.11 78
30.3	30.742 309	22.99 61	41.889 448	43.36 161	31.089 330	53.99 45	58.578 282	38.20 109
5 10.3	31.061 319	24.08 109	42.354 465	42.04 132	31.431 342	54.97 98	58.872 294	39.56 136
20.2	31.384 323	25.62 154	42.826 472	41.05 99	31.774 343	56.44 147	59.171 299	41.15 159
	317	191	469	63	337	191	297	177
30.2	31.701	27.53	43.295	40.42	32.111	58.35	59.468	42.92
6 9.2	32.005 304	29.78 225	43.751 456	40.15 27	32.432 321	60.64 229	59.757 289	44.82 190
19.1	32.287 282	32.29 251	44.183 432	40.27 12	32.730 298	63.24 260	60.029 272	46.78 196
29.1	32.541 254	34.98 269	44.580 397	40.77 50	32.995 265	66.08 284	60.278 249	48.75 197
7 9.1	32.758 217	37.79 281	44.930 350	41.63 86	33.222 227	69.09 301	60.497 219	50.68 193
	177	285	296	120	182	309	183	185
19.1	32.935	40.64	45.226	42.83	33.404	72.18	60.680	52.53
29.0	33.066 131	43.46 282	45.458 232	44.33 150	33.536 132	75.27 309	60.823 143	54.24 171
8 8.0	33.149 83	46.20 274	45.622 164	46.08 175	33.618 82	78.32 305	60.923 100	55.79 155
17.9	33.183 34	48.80 260	45.714 92	48.01 193	33.647 29	81.24 292	60.978 55	57.14 135
27.9	33.170 13	51.19 239	45.732 18	50.06 205	33.624 23	83.97 273	60.989 11	58.29 115
	59	216	53	209	70	250	30	93
9 6.9	33.111	53.35	45.679	52.15	33.554	86.47	60.959	59.22
16.9	33.011 100	55.22 187	45.560 119	54.19 204	33.439 115	88.67 220	60.890 69	59.92 70
26.9	32.877 134	56.78 156	45.384 176	56.10 191	33.286 153	90.55 188	60.790 100	60.39 47
10 6.8	32.715 162	57.99 121	45.160 224	57.80 170	33.104 182	92.06 151	60.664 126	60.65 26
16.8	32.533 182	58.82 83	44.901 259	59.23 143	32.898 206	93.17 111	60.520 144	60.68 3
	194	46	280	108	218	68	154	16
26.8	32.339	59.28	44.621	60.31	32.680	93.85	60.366	60.52
11 5.8	32.142 197	59.33 5	44.334 287	61.01 70	32.456 224	94.09 24	60.211 155	60.15 37
15.7	31.950 192	58.97 36	44.056 278	61.30 29	32.236 220	93.87 22	60.062 149	59.60 55
25.7	31.770 180	58.22 75	43.799 257	61.16 14	32.028 208	93.18 69	59.927 135	58.88 72
12 5.7	31.609 161	57.07 115	43.574 225	60.59 57	31.837 191	92.05 113	59.809 118	57.99 89
	137	152	183	96	165	156	94	102
15.7	31.472	55.55	43.391	59.63	31.672	90.49	59.715	56.97
25.6	31.364 108	53.71 184	43.258 133	58.29 134	31.537 135	88.55 194	59.648 67	55.83 114
35.6	31.287 77	51.60 211	43.178 80	56.64 165	31.437 100	86.28 227	59.608 40	54.61 122
平位	s 30.485	″ 32.13	s 42.245	″ 61.16	s 30.801	″ 64.70	s 58.446	″ 40.23
2回正中	8月10日		8月10日		8月11日		8月11日	
a b	+ 0.1274	+ 0.0284	+ 0.2137	− 0.0669	+ 0.1188	+ 0.0385	+ 0.1494	+ 0.0044
a′ b′	+ 0.7388	− 0.6740	+ 0.7423	+ 0.6701	+ 0.7446	+ 0.6675	+ 0.7460	+ 0.6660
FK3番號	797		796		799		800	

星名	ε Micr		ϑ¹ Micr		α Ceph		I Pegs	
等級 スペクトル型	4.79	A0	4.92	A2p	2.60	A5	4.24	K0
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 21 14	° ′ −32 24	h m 21 17	° ′ −41 2	h m 21 17	° ′ +62 20	h m 21 19	° ′ +19 33
1 0.6	s 27.000	″ 48.15	s 4.839	″ 73.25	s 11.477	″ 50.87	s 25.490	″ 40.91
10.6	26.981 19	47.43 72	4.808 31	72.06 119	11.244 233	48.16 271	25.446 44	39.08 183
20.6	27.000 19	46.52 91	4.820 12	70.67 139	11.081 163	45.14 302	25.434 12	37.16 192
30.5	27.056 56	45.46 106	4.875 55	69.09 158	10.994 87	41.91 323	25.454 20	35.21 195
2 9.5	27.148 92 129	44.25 121 133	4.971 96 137	67.37 172 184	10.989 5 77	38.59 332 327	25.508 54 88	33.32 189 175
19.5	27.277	42.92	5.108	65.53	11.066	35.32	25.596	31.57
3 1.5	27.440 163	41.47 145	5.285 177	63.62 191	11.227 161	32.22 310	25.719 123	30.04 153
11.4	27.637 197	39.94 153	5.499 214	61.65 197	11.467 240	29.42 280	25.875 156	28.80 124
21.4	27.865 228	38.34 160	5.749 250	59.67 198	11.782 315	27.02 240	26.054 179	27.91 89
31.4	28.124 259 286	36.69 165 165	6.032 283 315	57.72 195 189	12.161 379 435	25.11 191 136	26.233 219 247	27.42 49 7
4 10.3	28.410	35.04	6.347	55.83	12.596	23.75	26.530	27.35
20.3	28.721 311	33.40 164	6.687 340	54.04 179	13.073 477	23.01 74	26.801 271	27.72 37
30.3	29.051 330	31.82 158	7.050 363	52.39 165	13.579 506	22.88 13	27.090 289	28.51 79
5 10.3	29.395 344	30.34 148	7.428 378	50.92 147	14.098 519	23.37 49	27.392 302	29.70 119
20.2	29.746 351 351	29.01 133 116	7.814 386 385	49.67 125 99	14.615 517 500	24.47 110 165	27.699 307 306	31.25 155 187
30.2	30.097	27.85	8.199	48.68	15.115	25.12	28.005	33.12
6 9.2	30.440 343	26.91 94	8.577 378	47.97 71	15.584 469	28.27 215	28.300 295	35.23 211
19.2	30.766 326	26.21 70	8.935 358	47.57 40	16.009 425	30.86 259	28.579 279	37.54 231
29.1	31.066 300	25.76 45	9.267 332	47.48 9	16.379 370	33.80 294	28.832 253	39.97 243
7 9.1	31.333 267 228	25.60 16 10	9.563 296 251	47.72 24 54	16.683 304 230	37.03 323 343	29.054 222 184	42.46 249 248
19.1	31.561	25.70	9.814	48.26	16.913	40.46	29.238	44.94
29.0	31.742 181	26.03 38	10.015 201	49.10 84	17.066 153	44.00 354	29.381 143	47.36 242
8 8.0	31.873 131	26.69 61	10.161 146	50.19 109	17.137 71	47.58 358	29.480 99	49.67 231
17.9	31.951 78	27.52 83	10.248 87	51.49 130	17.127 10	51.11 353	29.532 52	51.81 214
27.9	31.977 26 26	28.52 100 112	10.277 29 28	52.94 145 156	17.037 90 167	54.52 341 321	29.539 7 35	53.75 194 171
9 6.9	31.951	29.64	10.249	54.50	16.870	57.73	29.504	55.46
16.9	31.879 72	30.83 119	10.168 81	56.08 158	16.635 235	60.68 295	29.429 75	56.90 144
26.9	31.766 113	32.03 120	10.042 126	57.62 154	16.338 297	63.31 263	29.321 108	58.07 117
10 6.9	31.620 146	33.18 115	9.877 165	59.05 143	15.938 350	65.55 224	29.185 136	58.94 87
16.8	31.452 168 182	34.24 106 91	9.686 191 208	60.32 127 104	15.593 392 419	67.34 179 132	29.030 155 166	59.49 55 25
26.8	31.270	35.15	9.478	61.36	15.179	68.66	28.864	59.74
11 5.8	31.035 185	35.88 73	9.265 213	62.13 77	14.743 436	69.44 78	28.694 170	59.65 9
15.7	30.907 178	36.40 52	9.059 206	62.61 48	14.304 439	69.67 23	28.529 165	59.25 40
25.7	30.746 161	35.69 29	8.870 189	62.76 15	13.873 431	69.32 35	28.374 155	58.53 72
12 5.7	30.607 139 109	36.75 6 17	8.703 164 132	62.60 16 47	13.464 409 375	68.39 93 148	28.236 138 116	57.51 102 129
15.7	30.498	36.53	8.574	62.13	13.089	66.91	28.120	55.22
25.6	30.423 75	36.19 39	8.480 94	61.37 76	12.759 330	64.91 200	28.030 90	54.68 154
35.6	30.384 39	35.59 60	8.427 53	60.34 103	12.485 274	62.44 247	27.959 61	52.94 174
平位	s 29.153	″ 42.79	s 7.233	″ 6.20	s 13.151	″ 36.97	s 26.926	″ 35.03
2回正中	8月11日		8月12日		8月12日		8月12日	
a b	+0.1813	−0.0318	+0.1912	−0.0440	+0.0704	+0.0935	+0.1381	+0.0181
a′ b′	+0.7504	+0.6610	+0.7579	+0.6524	+0.7582	+0.6520	+0.7645	+0.6446
FK3番號	801		802		803		804	

星名	γ Pavo		ζ Capr		71 Cygn		β Ceph	
等級 スペクトル型	4.30	F8	3.86	G5p	5.34	K0	3.32	B1
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 21 21	° ′ −65 37	h m 21 23	° ′ −22 39	h m 21 27	° ′ +45 17	h m 21 27	° ′ +70 18
1 0.6	s 41.143	″ 42.92	s 23.039	″ 37.55	s 19.210	″ 30.36	s 54.075	″ 52.32
10.6	41.018 125	40.54 238	23.046 23	37.36 19	19.085 125	27.88 248	53.686 389	49.75 257
20.6	40.976 42	37.89 265	23.056 10	37.03 33	19.003 82	25.14 274	53.394 292	46.80 295
30.5	41.018 42	35.03 286	23.099 43	36.55 48	18.968 35	22.23 291	53.206 188	43.60 320
2 9.5	41.143 125 205	32.05 298 304	23.174 75 108	35.92 63 77	18.934 16 67	19.28 295 288	53.133 73 46	40.25 335 336
19.5	41.348	29.01	23.282	35.15	19.051	16.40	53.179	35.89
3 1.5	41.629 281	25.98 303	23.423 141	34.23 92	19.170 119	13.70 270	53.343 164	33.66 323
11.4	41.983 354	23.04 294	23.594 171	33.16 107	19.341 171	11.29 241	53.622 279	30.67 299
21.4	42.403 420	20.23 281	23.793 202	31.95 121	19.561 220	9.28 201	54.007 385	28.05 262
31.4	42.882 479 533	17.63 260 236	24.027 231 258	30.62 133 144	19.825 264 305	7.73 155 102	54.487 480 560	25.88 217 162
4 10.3	43.415	15.27	24.285	29.18	20.130	6.71	55.047	24.26
20.3	43.992 577	13.21 206	24.557 282	27.67 151	20.466 336	6.26 45	55.667 620	23.23 103
30.3	44.603 611	11.50 171	24.869 302	25.13 154	20.827 361	6.38 12	56.329 662	22.81 42
5 10.3	45.239 636	10.17 133	25.186 317	24.58 155	21.203 376	7.07 69	57.012 683	23.03 22
20.2	45.885 646 643	9.25 92 48	25.511 325 327	23.07 151 142	21.583 380 374	8.31 124 173	57.694 682 660	23.85 82 141
30.2	46.528	8.77	25.838	21.65	21.957	10.04	58.354	25.26
6 9.2	47.153 625	8.73 4	26.158 320	20.37 128	22.316 359	12.22 218	58.974 620	27.20 194
19.2	47.747 594	9.15 42	26.464 306	19.24 113	22.649 333	14.77 255	59.535 561	29.61 241
29.1	48.293 546	10.00 85	26.747 283	18.32 92	22.948 299	17.63 286	60.023 488	32.42 281
7 9.1	48.777 484 409	11.26 126 165	27.001 254 218	17.62 70 46	23.204 256 207	20.72 309 323	60.424 401 305	35.56 314 338
19.1	49.186	12.91	27.219	17.16	23.411	23.95	60.729	38.94
29.0	49.509 323	14.87 196	27.394 175	16.94 22	23.565 154	27.25 330	60.929 200	42.49 355
8 8.0	49.737 228	17.10 223	27.524 130	16.96 2	23.651 96	30.55 330	61.023 94	46.11 362
17.9	49.865 128	19.51 241	27.605 81	17.20 24	23.700 39	33.77 322	61.007 16	49.74 363
27.9	49.891 26 76	22.03 252 252	27.638 33 14	17.65 45 60	23.632 18 73	36.84 307 287	60.885 122 224	53.29 355 339
9 6.9	49.815	24.55	27.624	18.25	23.609	39.71	60.661	56.68
16.9	49.644 171	26.98 243	27.565 58	18.98 73	23.486 123	42.30 259	60.341 320	59.85 317
26.9	49.388 256	29.24 226	27.472 94	19.79 81	23.319 167	44.58 228	59.936 405	62.73 288
10 6.9	49.060 328	31.21 197	27.347 125	20.64 85	23.116 203	45.48 190	59.457 479	65.24 251
16.8	48.676 384 420	32.83 162 120	27.200 147 159	21.49 85 79	22.884 232 251	47.98 150 104	58.917 540 587	67.33 209 162
26.8	48.256	34.03	27.041	22.28	22.633	49.02	58.330	68.95
J1 5.8	47.818 438	34.74 71	26.877 164	23.00 72	22.372 261	49.59 57	57.711 619	70.05 110
15.7	47.384 434	34.94 20	26.719 158	23.61 61	22.110 262	49.63 7	57.079 632	70.58 53
25.7	46.974 410	34.62 32	26.573 146	24.10 49	21.853 254	49.21 45	56.450 629	70.52 6
12 5.7	46.604 370 314	33.77 85 133	26.448 125 101	24.44 34 20	21.617 239 216	48.26 95 144	55.841 609 571	69.87 65 124
15.7	46.290	32.44	26.347	24.64	21.401	46.82	55.270	63.63
25.6	46.044 246	30.66 178	26.276 71	24.70 6	21.215 186	44.94 188	54.755 515	66.84 179
35.6	45.874 170	28.50 216	26.235 41	24.61 9	21.065 150	42.66 228	54.312 443	64.53 231
平位	s 45.454	″ 32.53	s 24.931	″ 33.49	s 20.533	″ 18.84	s 55.926	″ 37.26
2回正中	8月13日		8月13日		8月14日		8月15日	
a b	+0.2470	−0.1134	+0.1709	−0.0216	+0.1102	+0.0548	+0.0386	+0.1468
a′ b′	+0.7710	−0.6369	+0.7755	+0.6313	+0.7862	+0.6179	+0.7878	+0.6159
FK3番號	805		806		807		809	

星名		β Aqar			74 Cygn			ν Octn			γ Capr		
等級	スペクトル型	3.07	G0		5.09	A5		3.74	K0		3.80	F0P	
世界時		赤經		赤緯	赤經		赤緯	赤經		赤緯	赤經		赤緯
月	日	h m 21 28		° ′ −5 49	h m 21 34		° ′ +40 9	h m 21 35		° ′ −77 38	h m 21 36		° ′ −16 54
		s		″	s		″	s		″	s		″
1	0.6	31.935	29	22.95	38.359	107	34.82	5.425	388	54.36	54.374	34	78.46
	10.6	31.906	2	23.64	38.252	68	32.50	5.037	226	51.65	54.340	3	78.58
	20.6	31.908	30	24.26	38.184	29	29.94	4.811	60	48.62	54.337	28	78.58
	30.5	31.938	61	24.80	38.155	16	27.24	4.751	106	45.36	54.365	58	78.44
2	9.5	31.999	91	25.22	38.171	61	24.50	4.857	270	41.97	54.423	89	78.15
	19.5	32.090	122	25.49	38.232	107	21.84	5.127	425	38.52	54.512	121	77.70
3	1.5	32.212	151	25.56	38.339	153	19.36	5.552	573	35.11	54.633	152	77.08
	11.4	32.363	182	25.41	38.492	197	17.15	6.125	706	31.80	54.785	182	76.29
	21.4	32.545	209	25.03	38.689	238	15.33	6.831	827	28.68	54.967	213	75.31
	31.4	32.754	237	24.41	38.927	276	13.95	7.658	934	25.80	55.180	241	74.16
4	10.4	32.991	260	23.54	39.203	307	13.07	8.592	1022	23.22	55.421	266	72.86
	20.3	33.251	280	22.44	39.510	330	12.73	9.614	1091	21.01	55.687	287	71.42
	30.3	33.531	295	21.13	39.840	347	12.94	10.705	1140	19.21	55.974	304	69.89
5	10.3	33.826	302	19.66	40.187	354	13.68	11.845	1164	17.85	56.278	315	68.30
	20.2	34.128	305	18.06	40.541	352	14.94	13.009	1163	16.96	56.593	317	66.68
	30.2	34.433	298	16.38	40.893	339	16.66	14.172	1137	16.57	56.910	314	65.10
6	9.2	34.731	286	14.67	41.232	319	18.80	15.309	1082	16.69	57.224	302	63.60
	19.2	35.017	264	12.99	41.551	289	21.29	16.391	1000	17.32	57.526	282	62.21
	29.1	35.281	236	11.37	41.840	252	24.05	17.391	893	18.42	57.808	254	60.98
7	9.1	35.517	203	9.87	42.092	208	27.02	18.284	760	19.99	58.062	221	59.94
	19.1	35.720	164	8.51	42.300	159	30.11	19.044	636	21.96	58.283	181	59.12
	29.1	35.884	121	7.34	42.459	108	33.25	19.650	435	24.29	58.464	137	58.53
8	8.0	36.005	76	6.36	42.567	55	35.38	20.085	252	26.90	58.601	92	58.17
	17.9	36.081	32	5.60	42.622	2	39.42	20.337	61	29.70	58.693	45	58.05
	27.9	36.113	11	5.04	42.624	49	42.31	20.398	130	32.61	58.738	1	58.14
9	6.9	36.102	51	4.69	42.575	95	44.99	20.268	314	35.51	58.737	42	58.42
	16.9	36.051	85	4.54	42.480	136	47.40	19.954	484	38.30	58.695	80	58.87
	26.9	35.966	113	4.56	42.344	170	49.51	19.470	633	40.88	58.615	110	59.44
10	6.9	35.853	133	4.74	42.174	197	51.27	18.837	753	43.14	58.505	132	60.10
	16.8	35.720	144	5.06	41.977	214	52.63	18.084	842	45.00	58.373	147	60.81
	26.8	35.576	149	5.48	41.763	225	53.58	17.242	895	46.37	58.226	152	61.53
11	5.8	35.427	145	6.00	41.538	225	54.07	16.347	908	47.19	58.074	150	62.24
	15.8	35.282	134	6.59	41.313	220	54.10	15.439	884	47.43	57.924	140	62.90
	25.8	35.148	118	7.24	41.093	205	53.66	14.555	825	47.07	57.784	123	63.49
12	5.7	35.030	95	7.93	40.888	185	52.75	13.730	732	46.11	57.661	102	64.00
	15.7	34.935	71	8.64	40.703	159	51.40	12.998	613	44.60	57.559	77	64.42
	25.6	34.864	44	9.36	40.544	128	49.63	12.385	473	42.57	57.482	48	64.73
	35.6	34.820		10.07	40.416		47.49	11.912		40.10	57.434		64.92
平位		s 33.543		″ 22.48	s 39.675		″ 24.47	s 13.164		″ 41.92	s 56.105		″ 74.89
2回正中		8月15日			8月16日			8月16日			8月17日		
a	b	+0.1575		−0.0054	+0.1200		+0.0453	+0.3331		−0.2456	+0.1652		−0.0165
a′	b′	+0.7895		+0.6137	+0.8056		+0.5925	+0.8070		+0.5905	+0.8114		+0.5845
FK3番號		808			811			810			812		

星名		13 H. Ceph			11 Ceph			ε Pegs			ι PscA		
等級	スペクトル型	5.64	Oe5		4.85	K0		2.54	K0		4.35	A0	
世界時		赤經		赤緯	赤經		赤緯	赤經		赤緯	赤經		赤緯
月	日	h m 21 37		° ′ +57 13	h m 21 41		° ′ +71 2	h m 21 41		° ′ +9 35	h m 21 41		° ′ −33 16
		s		″	s		″	s		″	s		″
1	0.6	9.974	208	64.18	3.877	433	71.12	21.723	49	49.10	31.349	47	80.30
	10.6	9.766	154	61.69	3.444	338	68.70	21.679	20	47.76	31.302	12	79.59
	20.6	9.612	92	58.85	3.106	232	65.87	21.659	8	46.37	31.290	23	78.67
	30.5	9.520	26	55.79	2.874	116	62.75	21.667	39	44.99	31.313	60	77.55
2	9.5	9.494	43	52.61	2.758	7	59.45	21.703	70	43.69	31.373	96	73.25
	19.5	9.537	113	49.45	2.765	129	56.10	21.776	102	42.52	31.469	131	74.79
3	1.5	9.650	182	46.42	2.894	252	52.85	21.878	135	41.55	31.600	167	73.20
	11.4	9.832	248	43.65	3.146	365	49.80	22.013	166	40.84	31.767	202	71.49
	21.4	10.080	308	41.24	3.511	468	47.08	22.179	197	40.42	31.959	235	69.69
	31.4	10.388	360	39.30	3.979	556	44.80	22.376	227	40.33	32.204	268	67.84
4	10.4	10.748	404	37.88	4.535	625	43.02	22.603	253	40.60	32.472	295	65.96
	20.3	11.152	435	37.04	5.160	675	41.83	22.856	274	41.22	32.767	320	64.10
	30.3	11.587	454	36.80	5.835	703	41.24	23.130	290	42.19	33.087	339	62.30
5	10.3	12.041	460	37.17	6.538	708	41.28	23.420	301	43.47	33.426	351	60.59
	20.2	12.501	454	38.13	7.246	693	41.94	23.721	302	45.03	33.777	356	59.03
	30.2	12.955	433	39.63	7.939	657	43.17	24.023	298	46.81	34.133	352	57.65
6	9.2	13.388	402	41.64	8.596	622	44.93	24.321	286	48.78	34.485	341	56.50
	19.2	13.790	359	44.09	9.198	530	47.24	24.607	265	50.86	34.823	319	55.61
	29.1	14.149	307	46.92	9.728	445	49.94	24.872	238	53.00	35.145	290	55.00
7	9.1	14.453	246	50.03	10.173	348	52.99	25.110	204	55.14	35.435	253	54.69
	19.1	14.702	181	53.33	10.521	245	55.31	25.314	166	57.23	35.688	209	54.68
	29.1	14.883	112	56.82	10.766	134	59.82	25.480	124	59.23	35.897	161	54.97
8	8.0	14.995	40	60.34	10.900	23	63.45	25.604	81	61.07	36.058	108	55.55
	18.0	15.035	29	63.83	10.923	88	67.10	25.685	36	62.74	36.166	56	56.37
	27.9	15.006	95	67.22	10.835	194	70.71	25.721	6	64.21	36.222	4	57.40
9	6.9	14.910	159	70.44	10.641	294	74.19	25.715	46	65.46	36.223	46	58.59
	16.9	14.751	215	73.42	10.347	386	77.46	25.669	79	63.46	36.180	89	59.89
	23.9	14.536	263	76.10	9.931	465	80.47	25.590	109	67.23	36.091	125	61.23
10	6.9	14.273	301	78.42	9.495	534	83.15	25.481	129	67.75	35.966	153	62.55
	16.8	13.972	330	80.32	8.961	587	85.42	25.352	144	68.02	35.813	172	63.79
	23.8	13.642	349	81.76	8.374	626	87.23	25.203	150	68.03	35.641	180	64.90
11	5.8	13.293	355	82.70	7.748	647	88.53	25.053	148	67.86	35.461	179	65.83
	15.8	12.938	353	83.10	7.101	651	89.27	24.910	141	67.43	35.282	168	66.53
	25.7	12.585	339	82.94	6.450	637	89.43	24.769	128	66.79	35.114	151	67.00
12	5.7	12.246	315	82.22	5.813	605	88.99	24.641	110	65.95	34.933	127	67.21
	15.7	11.931	281	80.93	5.208	554	87.95	24.531	87	64.93	34.836	97	67.15
	25.6	11.650	240	79.17	4.654	486	85.34	24.444	63	63.76	34.739	65	66.84
	35.6	11.410		76.92	4.168		84.21	24.381		62.46	34.674		65.28
平位		s 11.365		″ 50.67	s 5.577		″ 55.71	s 23.129		″ 46.15	s 33.411		″ 72.78
2回正中		8月17日			8月18日			8月18日			8月18日		
a	b	+0.0929		+0.0841	+0.0427		+0.1593	+0.1469		+0.0093	+0.1782		−0.0360
a′	b′	+0.8121		+0.5336	+0.8219		+0.5697	+0.8226		+0.5686	+0.8230		+0.5680
FK3番號		813			817			815			814		

本初子午線正中時

星名	† χ Pegs m		λ Capr		δ Capr		π^2 Cygn	
等級	4.27		5.43		2.93		4.23	
スペクトル型	F5		A0		A5		B3	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 21 42	° ′ +25 22	h m 21 43	° ′ −11 37	h m 21 43	° ′ −16 22	h m 21 44	° ′ +49 2
1 0.6	s 2.393	″ 63.11	s 26.459	″ 49.60	s 52.121	″ 76.59	s 39.786	″ 54.85
10.6	2.321 72	61.21 190	26.420 39	49.98 38	52.083 38	76.75 16	39.629 157	52.48 237
20.6	2.279 42	59.16 205	26.410 10	50.27 29	52.073 10	76.78 3	39.515 114	49.81 267
30.6	2.270 9	57.04 212	26.429 19	50.44 17	52.093 20	76.68 10	39.449 66	46.94 287
2 9.5	2.295 25	54.92 212	26.478 49	50.47 3	52.144 51	76.42 26	39.434 15	43.97 297
	61	201	79	13	82	42	40	295
19.5	2.356	52.91	26.557	50.34	52.226	76.00	39.474	41.02
3 1.5	2.454 98	51.09 182	26.666 109	50.03 31	52.339 113	75.40 60	39.570 96	38.21 281
11.4	2.589 135	49.53 156	26.807 141	49.51 52	52.483 144	74.62 78	39.722 152	35.66 255
21.4	2.761 172	48.33 120	26.979 172	48.79 72	52.659 176	73.65 97	39.928 206	33.47 219
31.4	2.937 176	47.51 82	27.181 202	47.87 92	52.865 206	72.51 114	40.184 256	31.72 175
	239	37	230	113	235	130	302	125
4 10.4	3.205	47.14	27.411	46.74	53.100	71.21	40.486	30.47
20.3	3.473 267	47.23 9	27.667 256	45.43 131	53.362 262	69.77 144	40.825 339	29.79 68
30.3	3.763 290	47.78 55	27.946 279	43.97 146	53.645 283	68.22 155	41.194 369	29.68 11
5 10.3	4.070 307	48.77 99	28.241 295	42.40 157	53.947 302	66.60 162	41.582 388	30.14 46
20.3	4.386 316	50.17 140	28.548 307	40.75 165	54.250 303	64.96 164	41.979 397	31.16 102
	317	177	311	167	317	161	395	155
30.2	4.703	51.94	28.859	39.08	54.577	63.35	42.374	32.71
6 9.2	5.014 311	54.02 208	29.167 308	37.43 165	54.892 315	61.80 155	42.756 382	34.73 202
19.2	5.309 295	56.35 233	29.464 297	35.86 157	55.196 304	60.37 143	43.115 359	37.15 242
29.1	5.581 272	58.86 251	29.742 278	34.40 146	55.480 284	59.09 128	43.440 325	39.92 277
7 9.1	5.823 242	61.50 264	29.994 252	33.10 130	55.739 259	58.00 109	43.723 283	42.95 303
	206	267	219	111	225	87	235	322
19.1	6.029 164	64.17 267	30.213 181	31.99 91	55.934 187	57.13 64	43.958 180	46.17
29.1	6.193 119	66.84 259	30.394 139	31.08 68	56.151 144	56.49 40	44.138 121	49.49 332
8 8.0	6.312 73	69.43 246	30.533 94	30.40 45	56.295 98	56.09 16	44.259 62	52.86 337
18.0	6.385 27	71.89 228	30.627 49	29.95 24	56.393 51	55.93 5	44.321 2	56.18 332
27.9	6.412 19	74.17 207	30.676 4	29.71 3	56.444 7	55.98 26	44.323 54	59.39 321
								303
9 6.9	6.393	76.24 181	30.680	29.68	56.451	56.24	44.269	62.42
16.9	6.334 59	78.05 153	30.644 36	29.84 16	56.415 36	56.67 43	44.160 109	65.21 279
26.9	6.238 96	79.58 122	30.571 73	30.16 32	56.342 73	57.23 56	44.004 156	67.70 249
10 6.9	6.111 127	80.80 89	30.468 103	30.60 44	56.238 104	57.89 66	43.807 197	69.84 214
16.8	5.932 149	81.69 55	30.343 125	31.14 54	56.110 128	58.60 71	43.577 230	71.58 174
	165		140	60	142	74	253	130
26.8	5.797	82.24 18	30.203	31.74	55.938	59.34	43.324	72.88
11 5.8	5.625 172	82.42 17	30.057 146	32.38 64	55.818 150	60.07 73	43.055 269	73.71 83
15.8	5.451 174	82.25 53	29.912 145	33.03 65	55.670 148	60.76 69	42.781 274	74.03 32
25.7	5.285 166	81.72 89	29.775 137	33.66 63	55.531 139	61.38 62	42.509 272	73.83 20
12 5.7	5.130 155	80.83 122	29.653 122	34.27 61	55.406 125	61.93 55	42.248 261	73.11 72
	136		102	57	104	45	241	123
15.7	4.994	79.61	29.551	34.84	55.302	62.38	42.007	71.88
25.7	4.879 115	78.10 151	29.472 79	35.35 51	55.221 81	62.73 35	41.793 214	70.17 171
35.6	4.791 88	76.33 177	29.419 53	35.79 44	55.168 53	62.97 24	41.612 181	68.04 213
平位	s 3.696	″ 56.16	s 28.081	″ 46.97	s 53.814	″ 72.75	s 41.056	″ 42.68
2回正中	8月18日		8月19日		8月19日		8月19日	
a b	+0.1354	+0.0261	+0.1610	−0.0114	+0.1643	−0.0162	+0.1106	+0.0638
a′ b′	+0.8243	+0.5662	+0.8277	+0.5611	+0.8288	+0.5596	+0.8307	+0.5567
FK3番號	816		818		819		821	

本初子午線正中時

星名	o Indi		16 Pegs		γ Grus		δ Indi	
等級	5.50		5.05		3.16		4.56	
スペクトル型	K2		B3		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 21 45	° ′ −69 53	h m 21 50	° ′ +25 39	h m 21 50	° ′ −37 37	h m 21 54	° ′ −55 15
1 0.6	s 55.134	″ 58.79	s 26.255	″ 29.26	s 26.860	″ 70.83	s 0.219	″ 64.93
10.6	54.900 234	56.42 237	26.184 71	27.40 186	26.798 62	69.94 89	0.099 120	63.22 171
20.6	54.761 139	53.72 270	26.145 39	25.39 201	26.773 25	68.79 115	0.033 66	61.19 203
30.6	54.719 42	50.76 296	26.139 6	23.29 210	26.785 12	67.42 137	0.022 11	58.89 230
2 9.5	54.777 58	47.62 314	26.169 30	21.19 210	26.834 49	65.86 156	0.065 44	56.37 252
	156	324	64	201	88	173	99	265
19.5	54.933	44.38	26.233	19.18	26.922	64.13	0.165	53.72
3 1.5	55.183 250	41.11 327	26.333 100	17.34 184	27.048 126	62.26 187	0.320 155	50.97 275
11.4	55.525 342	37.90 321	26.467 134	15.77 157	27.212 164	60.29 197	0.528 208	48.19 278
21.4	55.951 426	34.81 309	26.635 168	14.53 124	27.413 201	58.25 204	0.788 260	45.43 276
31.4	56.455 504	31.90 291	26.836 201	13.68 85	27.650 237	56.17 208	1.097 309	42.75 268
	576	266	231	42	271	207	356	254
4 10.4	57.031	29.24	27.037	13.26	27.921	54.10	1.453	40.21
20.3	57.669 638	26.88 236	27.325 258	13.30 4	28.224 303	52.07 203	1.850 397	37.86 235
30.3	58.355 686	24.87 201	27.605 280	13.80 50	28.553 329	50.13 194	2.281 431	35.75 211
5 10.3	59.080 725	23.25 162	27.904 299	14.73 93	28.904 351	48.33 180	2.741 460	33.92 183
20.3	59.828 748	22.07 118	28.213 309	16.09 136	29.270 366	46.72 161	3.219 478	32.43 149
	754	72	315	173	372	139	487	113
30.2	60.582	21.35	28.528	17.82	29.642	45.33	3.706	31.30
6 9.2	61.326 744	21.11 24	28.839 311	19.86 204	30.012 370	44.20 113	4.190 484	30.58 72
19.2	62.042 716	21.36 25	29.139 300	22.16 230	30.371 359	43.37 83	4.661 471	30.27 31
29.1	62.712 670	22.08 72	29.420 281	24.66 250	30.709 338	42.86 51	5.104 443	30.39 12
7 9.1	63.318 606	23.25 118	29.676 256	27.28 262	31.019 310	42.67 19	5.510 406	30.93 54
	526	161	223	267	272	16	358	94
19.1	63.844	24.87	29.899	29.95	31.291	42.83	5.868	31.87
29.1	64.274 430	26.85 198	30.083 184	32.62 267	31.519 228	43.30 47	6.166 298	33.19 132
8 8.0	64.597 323	29.14 229	30.224 141	35.23 261	31.696 177	44.07 77	6.398 232	34.83 164
18.0	64.804 207	31.67 253	30.320 96	37.72 249	31.819 123	45.11 104	6.558 160	36.75 192
27.9	64.892 88	34.34 267	30.367 47	40.03 231	31.887 68	46.37 126	6.644 86	38.86 211
	34	273	1	211	13	142	10	224
9 6.9	64.858	37.07	30.368	42.14	31.900	47.79	6.654	41.10
16.9	64.706 152	39.75 268	30.324 44	44.00 186	31.861 39	49.31 152	6.592 62	43.37 227
26.9	64.446 260	42.28 253	30.240 84	45.58 158	31.775 86	50.86 155	6.464 128	45.59 222
10 6.9	64.091 355	44.55 228	30.121 119	46.85 127	31.649 126	52.38 152	6.278 186	47.66 207
16.8	63.658 433	46.50 194	29.975 146	47.80 95	31.492 157	53.80 142	6.045 233	49.50 184
	490	151	165	61	178	124	266	153
26.8	63.168	48.01	29.810	48.41	31.314	55.04	5.779	51.03
11 5.8	62.644 524	49.03 102	29.634 176	48.66 25	31.124 190	56.08 104	5.492 287	52.18 115
15.8	62.108 536	49.52 49	29.456 178	48.55 11	30.933 191	56.85 77	5.200 292	52.92 74
25.7	61.585 523	49.45 7	29.283 173	48.03 47	30.751 182	57.33 48	4.916 284	53.20 28
12 5.7	61.095 490	48.81 64	29.123 160	47.26 82	30.585 166	57.50 17	4.652 264	53.02 18
	435	117	140	116	142	13	232	64
15.7	60.660	47.64	28.933	46.10	30.443	57.37	4.420	52.38
25.7	60.294 366	45.97 167	28.867 116	44.64 146	30.330 113	56.93 44	4.228 192	51.30 108
35.6	60.010 284	43.85 212	28.779 88	42.92 172	30.249 81	56.21 72	4.081 147	49.82 148
平位	s 59.978	″ 45.69	s 27.966	″ 22.36	s 29.006	″ 61.78	s 3.180	″ 52.60
2回正中	8月19日		8月20日		8月20日		8月21日	
a b	+0.2539	−0.1519	+0.1362	+0.0270	+0.1809	−0.0434	+0.2035	−0.0820
a′ b′	+0.8339	+0.5519	+0.8445	+0.5356	+0.8445	+0.5355	+0.8528	+0.5223
FK3番號	820		823		822		824	

星名		20 Pegs		ε Indi		α Aqar		ι Aqar	
等級	スペクトル型	5.66	F2	4.74	K5	3.19	G0	4.35	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 58	° ′ +12 50	h m 21 58	° ′ −57 0	h m 22 2	° ′ −0 35	h m 22 3	° ′ −14 8
		s	″	s	″	s	″	s	″
1	0.6	17.332	49.61	57.811	89.71	49.980	51.56	20.058	53.56
	10.6	17.268 64	48.21 140	57.692 119	88.00 171	49.924 56	52.43 87	20.004 54	53.83 27
	20.6	17.230 38	46.74 147	57.629 63	85.94 206	49.894 30	53.26 83	19.976 28	53.98 15
	30.6	17.220 10	45.25 149	57.623 6	83.62 232	49.889 5	54.03 77	19.976 0	53.98 0
2	9.5	17.240 20	43.81 144	57.675 52	81.08 254	49.913 24	54.70 67	20.006 30	53.83 15
		51	132	111	269	54	52	59	33
	19.5	17.291	42.49	57.786	78.39	49.967	55.22	20.065	53.50
3	1.5	17.375 84	41.35 114	57.955 169	75.61 278	50.051 84	55.55 33	20.155 90	52.99 51
	11.5	17.492 117	40.46 89	58.180 225	72.80 281	50.167 116	55.65 10	20.277 122	52.29 70
	21.4	17.644 152	39.87 59	58.459 279	70.02 278	50.315 148	55.50 15	20.432 155	51.38 91
	31.4	17.828 184	39.61 26	58.790 331	67.34 268	50.495 180	55.08 42	20.618 186	50.28 110
		216	10	380	253	211	71	218	129
4	10.4	18.044	39.71	59.170	64.81	50.706	54.37	20.836	48.99
	20.3	18.289 245	40.19 48	59.592 422	62.47 234	50.945 239	53.40 97	21.083 247	47.54 145
	30.3	18.558 269	41.03 84	60.052 460	60.39 208	51.209 264	52.17 123	21.354 271	45.95 159
5	10.3	18.846 288	42.21 118	60.540 488	58.62 177	51.492 283	50.72 145	21.646 292	44.27 168
	20.3	19.147 301	43.71 150	61.048 508	57.18 144	51.790 298	49.08 164	21.952 306	42.54 173
		306	175	517	104	304	177	314	173
	30.2	19.453	45.46	61.565	56.14	52.094	47.31	22.266	40.81
6	9.2	19.756 303	47.43 197	62.081 516	55.50 64	52.397 303	45.45 186	22.581 315	39.12 169
	19.2	20.049 293	49.55 212	62.582 501	55.29 21	52.692 295	43.56 189	22.887 306	37.53 159
	29.2	20.324 275	51.77 222	63.056 474	55.52 23	52.971 279	41.69 187	23.178 291	36.08 145
7	9.1	20.574 250	54.02 225	63.490 434	56.18 66	53.225 255	39.89 180	23.445 267	34.80 128
		217	223	385	108	225	169	237	107
	19.1	20.791	56.25	63.875	57.26	53.451	38.20	23.682	33.73
	29.1	20.971 180	58.40 215	64.199 324	58.71 145	53.639 188	36.67 153	23.882 200	32.90 83
8	8.0	21.110 139	60.44 204	64.455 256	60.50 179	53.788 149	35.32 135	24.040 158	32.30 60
	18.0	21.206 96	62.30 186	64.635 180	62.57 207	53.894 106	34.18 114	24.155 115	31.95 35
	27.9	21.257 51	63.98 168	64.738 103	64.83 226	53.957 63	33.26 92	24.225 70	31.83 12
		9	146	25	239	20	70	25	11
9	6.9	21.266	65.44	64.763	67.22	53.977	32.56	24.250	31.94
	16.9	21.235 31	66.66 122	64.712 51	69.63 241	53.956 21	32.09 47	24.232 18	32.23 29
	25.9	21.168 67	67.63 97	64.591 121	71.99 236	53.900 56	31.82 27	24.176 56	32.69 46
10	6.9	21.071 97	68.34 71	64.410 181	74.19 220	53.813 87	31.75 7	24.088 88	33.28 59
	16.9	20.950 121	68.80 46	64.179 231	76.15 196	53.702 111	31.86 11	23.975 113	33.95 67
		136	19	267	164	127	27	131	72
	26.8	20.814	68.99	63.912	77.79	53.575	32.13	23.844	34.67
11	5.8	20.668 146	68.93 6	63.623 289	79.04 125	53.439 136	32.55 42	23.703 141	35.41 74
	15.8	20.521 147	68.62 31	63.327 296	79.86 82	53.301 138	33.08 53	23.561 142	36.13 72
	25.7	20.377 144	68.06 56	63.038 289	80.21 35	53.166 135	33.72 64	23.423 138	36.81 68
12	5.7	20.244 133	67.23 83	62.769 269	80.07 14	53.043 123	34.45 73	23.296 127	37.43 62
		118	100	236	61	109	80	110	54
	15.7	20.126	66.23	62.533	79.46	52.934	35.25	23.186	37.97
	25.7	20.027 99	65.10 118	62.338 195	78.39 107	52.844 90	36.09 84	23.096 90	38.42 45
	35.6	19.949 78	63.77 133	62.191 147	76.91 148	52.775 69	36.95 86	23.029 67	38.77 35
平位		s 18.630	″ 46.26	s 60.890	″ 76.81	s 51.379	″ 51.00	s 21.626	″ 49.24
2回正中		8月22日		8月22日		8月23日		8月24日	
a	b	+0.1456	+0.0131	+0.2051	−0.0888	+0.1537	−0.0006	+0.1615	−0.0147
a′	b′	+0.8623	+0.5064	+0.8639	+0.5037	+0.8722	+0.4892	+0.8733	+0.4873
FK3番號		826		825		827		828	

星名		20 Ceph		ι Pegs		α Grus		μ PscA	
等級	スペクトル型	5.39	K5	3.95	F5	2.16	B5	4.62	A2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 22 3	° ′ +62 30	h m 22 4	° ′ +25 3	h m 22 4	° ′ −47 13	h m 22 5	° ′ −33 15
		s	″	s	″	s	″	s	″
1	0.7	15.191	40.38	20.089	64.23	36.557	83.33	1.849	72.42
	10.6	14.893 298	38.15 223	20.001 88	62.48 175	36.457 100	87.05 128	1.779 70	71.80 62
	20.6	14.652 241	35.51 264	19.941 60	60.56 192	36.399 58	85.46 159	1.742 37	70.92 88
	30.6	14.478 174	32.58 293	19.911 30	58.55 201	36.383 16	83.59 187	1.738 4	69.82 110
2	9.5	14.379 99	29.44 314	19.914 3	56.52 203	36.412 29	81.50 209	1.769 31	68.51 131
		18	321	37	195	74	227	66	150
	19.5	14.361	26.23	19.951	54.57	36.486	79.23	1.835	67.01
3	1.5	14.427 66	23.03 315	20.026 75	52.78 179	36.606 120	76.82 241	1.937 102	65.35 166
	11.5	14.578 151	20.11 297	20.138 112	51.23 155	36.771 165	74.33 249	2.076 139	63.54 181
	21.4	14.810 232	17.44 267	20.288 150	49.99 124	36.980 209	71.80 253	2.251 175	61.63 191
	31.4	15.119 309	15.17 227	20.475 187	49.13 86	37.232 252	69.29 251	2.462 211	59.64 199
		377	179	222	45	293	244	245	203
4	10.4	15.496	13.38	20.697	48.68	37.525	66.85	2.707	57.61
	20.4	15.932 436	12.15 123	20.951 254	48.68 0	37.856 331	64.51 234	2.985 278	55.53 203
	30.3	16.411 479	11.50 65	21.232 281	49.12 44	38.219 363	62.35 216	3.291 306	53.59 199
5	10.3	16.922 511	11.45 5	21.534 302	50.00 88	38.610 391	60.39 196	3.620 329	51.69 190
	20.3	17.448 526	12.01 56	21.848 314	51.30 130	39.019 409	58.70 169	3.965 345	49.92 177
		525	114	320	166	420	138	355	158
	30.2	17.973	13.15	22.168	52.96	39.439	57.32	4.320	48.34
6	9.2	18.483 510	14.83 168	22.486 318	54.94 198	39.859 420	55.28 104	4.676 356	46.99 135
	19.2	18.963 480	16.99 216	22.791 305	57.18 224	40.271 412	55.61 67	5.024 348	45.90 109
	29.2	19.400 437	19.59 260	23.078 287	59.62 244	40.662 391	55.32 29	5.355 331	45.10 80
7	9.1	19.782 382	22.54 295	23.337 259	62.20 258	41.023 361	55.43 11	5.660 305	44.62 48
		318	322	226	263	321	50	272	16
	19.1	20.100	25.76	23.563	64.83	41.344	55.93	5.932	44.46
	29.1	20.346 246	29.19 343	23.749 186	67.48 265	41.616 272	56.80 87	6.163 231	44.62 16
8	8.0	20.516 170	32.74 355	23.892 143	70.07 259	41.833 217	58.02 122	6.348 185	45.09 47
	18.0	20.606 90	36.33 359	23.990 98	72.54 247	41.989 156	59.52 150	6.482 134	45.84 75
	27.9	20.616 10	39.89 356	24.042 52	74.85 231	42.082 93	61.25 173	6.564 82	46.84 100
		68	345	7	212	29	190	30	119
9	6.9	20.548	43.34	24.049	76.97	42.111	63.15	6.594	48.03
	16.9	20.406 142	46.61 327	24.014 35	78.85 188	42.079 32	65.14 199	6.573 21	49.36 133
	25.9	20.197 209	49.62 301	23.941 73	80.46 161	41.991 88	67.13 199	6.508 65	50.77 141
10	6.9	19.927 270	52.32 270	23.836 105	81.77 131	41.853 138	69.05 192	6.404 104	52.19 142
	16.9	19.603 324	54.64 232	23.706 130	82.77 100	41.676 177	70.81 176	6.268 136	53.56 137
		363	189	149	67	207	153	157	126
	26.8	19.243	56.53	23.557	83.44	41.469	72.34	6.111	54.82
11	5.8	18.849 394	57.92 139	23.397 160	83.76 32	41.244 225	73.57 123	5.940 171	55.91 109
	15.8	18.436 413	58.79 87	23.232 165	83.74 2	41.013 231	74.46 89	5.765 175	53.79 88
	25.7	18.016 420	59.09 30	23.069 163	83.36 38	40.787 226	74.97 51	5.595 169	57.42 63
12	5.7	17.600 416	58.82 27	22.915 154	82.64 72	40.575 212	75.07 10	5.439 157	57.78 36
		399	86	141	105	187	30	137	9
	15.7	17.201	57.96	22.774	81.59	40.388	74.77	5.302	57.87
	25.7	16.830 371	56.55 141	22.651 123	80.24 135	40.231 157	74.08 69	5.188 114	57.68 19
	35.6	16.500 330	54.61 194	22.549 102	78.63 161	40.111 120	73.01 107	5.103 85	57.21 47
平位		s 16.394	″ 25.75	s 21.278	″ 57.69	s 38.986	″ 76.38	s 3.789	″ 63.25
2回正中		8月24日		8月24日		8月24日		8月24日	
a	b	+0.0909	+0.1118	+0.1383	+0.0273	+0.1881	−0.0631	+0.1744	−0.0384
a′	b′	+0.8731	+0.4876	+0.8754	+0.4835	+0.8760	+0.4823	+0.8769	+0.4808
FK3番號		830		831		829		832	

星名	27 Pegs		ϑ Pegs		π Pegs		ζ Ceph	
等級 スペクトル型	5.65	K0	3.70	A2	4.38	F5	3.62	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 22 6	° ′ ″ +32 53	h m s 22 7	° ′ ″ +5 54	h m s 22 7	° ′ ″ +32 53	h m s 22 8	° ′ ″ +57 54
1 0.7	40.747	44.19	18.100	61.54	26.013	60.90	51.251	85.22
10.6	40.639 108	42.27 192	18.037 63	60.43 111	25.904 109	58.99 191	51.001 250	83.04 218
20.6	40.559 80	40.12 215	17.999 38	59.30 113	25.824 80	56.84 215	50.800 201	80.48 256
30.6	40.512 47	37.82 230	17.987 12	58.19 111	25.776 48	54.55 229	50.654 146	77.62 286
2 9.5	40.501 11	35.47 235	18.003 16	57.16 103	25.765 11	52.20 235	50.571 83	74.57 305
	28	231	46	90	27	231	15	311
19.5	40.529	33.16	18.049	56.26	25.792	49.89	50.556	71.46
3 1.5	40.597 68	30.98 218	18.126 77	55.54 72	25.859 67	47.72 217	50.613 57	68.41 305
11.5	40.708 111	29.04 194	18.237 111	55.06 48	25.969 110	45.78 194	50.742 129	65.54 287
21.4	40.860 152	27.42 162	18.380 143	54.85 21	26.121 152	44.16 162	50.942 200	62.96 258
31.4	41.054 194	26.19 123	18.556 176	54.93 8	26.313 192	42.92 124	51.210 268	60.78 218
	232	79	208	41	232	79	329	171
4 10.4	41.286	25.40	18.764	55.34	26.545	42.13	51.539	59.07
20.4	41.552 266	25.09 31	19.001 237	56.07 73	26.811 266	41.81 32	51.920 381	57.91 116
30.3	41.846 294	25.26 17	19.263 262	57.11 104	27.105 294	41.99 18	52.342 422	57.32 59
5 10.3	42.163 317	25.93 67	19.546 283	58.43 132	27.422 317	42.65 66	52.794 452	57.32 0
20.3	42.494 331	27.07 114	19.843 297	60.00 157	27.752 330	43.78 113	53.262 468	57.91 59
	335	156	304	176	336	156	471	116
30.2	42.829	28.63	20.147	61.76	28.088	45.34	53.733	59.07
6 9.2	43.161 332	30.57 194	20.451 304	63.68 192	28.420 332	47.28 194	54.193 460	60.76 169
19.2	43.481 320	32.85 228	20.746 295	65.70 202	28.740 320	49.55 227	54.630 437	62.92 216
29.2	43.779 298	35.37 252	21.026 280	67.75 205	29.039 299	52.08 253	55.031 401	65.49 257
7 9.1	44.047 268	38.09 272	21.282 256	69.78 203	29.308 269	54.80 272	55.386 355	68.41 292
	233	285	225	197	234	284	300	319
19.1	44.280	40.94	21.507	71.75	29.542	57.64	55.686	71.60
29.1	44.472 192	43.83 289	21.697 190	73.60 185	29.734 192	60.53 289	55.923 237	74.97 337
8 8.1	44.617 145	46.71 288	21.847 150	75.30 170	29.881 147	63.42 289	56.093 170	78.46 349
18.0	44.715 98	49.52 281	21.955 108	76.81 151	29.980 99	66.22 280	56.194 101	81.98 352
27.9	44.764 49	52.19 267	22.019 64	78.12 131	30.030 50	68.90 268	56.224 30	85.46 348
	2	249	22	109	3	249	39	337
9 6.9	44.766	54.68	22.041	79.21	30.033	71.39	56.185	88.83
16.9	44.723 43	56.93 225	22.023 18	80.06 85	29.991 42	73.65 226	56.081 104	92.02 319
26.9	44.641 82	58.92 199	21.969 54	80.69 63	29.909 82	75.64 199	55.917 164	94.95 293
10 6.9	44.524 117	60.59 167	21.884 85	81.08 39	29.793 116	77.32 168	55.699 218	97.57 262
16.9	44.379 145	61.93 134	21.775 109	81.26 18	29.649 144	78.66 134	55.436 263	99.81 224
	166	96	126	3	165	97	299	182
26.8	44.213	62.89	21.649	81.23	29.484	79.63	55.137	101.63
11 5.8	44.034 179	63.47 58	21.513 136	81.00 23	29.305 179	80.22 59	54.810 327	102.97 134
15.8	43.849 185	63.65 18	21.374 139	80.59 41	29.121 184	80.40 18	54.467 343	103.80 83
25.8	43.664 185	63.41 24	21.239 135	80.00 59	28.936 185	80.17 23	54.117 350	104.08 28
12 5.7	43.487 177	62.76 65	21.112 127	79.26 74	28.759 177	79.53 64	53.771 346	103.79 29
	165	105	113	88	165	104	333	84
15.7	43.322	61.71	20.999	78.38	28.594	78.49	53.438	102.95
25.7	43.176 146	60.30 141	20.904 95	77.39 99	28.448 146	77.08 141	53.129 309	101.56 139
35.6	43.052 124	58.55 175	20.829 75	76.31 108	28.323 125	75.34 174	52.853 276	99.67 189
平位	s 41.887	″ 35.65	s 19.413	″ 60.42	s 27.148	″ 52.37	s 52.363	″ 71.29
2回正中	8月24日		8月25日		8月25日		8月25日	
a b	+ 0.1329	+ 0.0380	+ 0.1501	+ 0.0061	+ 0.1330	+ 0.0380	+ 0.1038	+ 0.0941
a′ b′	+ 0.8803	+ 0.4745	+ 0.8816	+ 0.4721	+ 0.8818	+ 0.4716	+ 0.8847	+ 0.4661
FK3番號	833		834		835		836	

星名	24 Ceph		λ PscA		ε Octn		ϑ Aqar	
等級 スペクトル型	4.99	G5	5.40	B9	5.11	M3	4.32	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 22 8	° ′ ″ +72 3	h m s 22 11	° ′ ″ −28 2	h m s 22 13	° ′ ″ −80 43	h m s 22 13	° ′ ″ −8 3
1 0.7	41.615	52.96	3.375	69.38	36.617	45.53	48.173	67.38
10.6	41.101 514	50.86 210	3.307 68	69.02 36	35.868 749	43.01 252	48.112 61	67.92 54
20.6	40.674 427	48.30 256	3.268 39	68.44 58	35.311 557	40.08 293	48.075 37	68.37 45
30.6	40.350 324	45.38 292	3.259 9	67.64 80	34.961 350	36.85 323	48.064 11	68.71 34
2 9.5	40.142 208	42.21 317	3.283 24	66.64 100	34.823 138	33.40 345	48.081 17	68.91 20
	83	329	56	120	78	359	46	4
19.5	40.059	38.92	3.339	65.44	34.901	29.81	48.127	68.95
3 1.5	40.106 47	35.64 328	3.429 90	64.07 137	35.191 290	26.18 363	48.203 76	68.80 15
11.5	40.285 179	32.49 315	3.555 126	62.53 154	35.685 494	22.58 360	48.312 109	68.43 37
21.4	40.590 305	29.60 289	3.715 160	60.85 168	36.373 688	19.11 347	48.452 140	67.84 59
31.4	41.012 422	27.08 252	3.910 195	59.06 179	37.239 866	15.83 328	48.626 174	67.02 82
	526	205	229	188	1031	301	205	105
10.4	41.538	25.03	4.139	57.18	38.270	12.82	48.831	65.97
4 20.4	42.151 613	23.51 152	4.400 261	55.25 193	39.444 1174	10.14 268	49.066 235	64.70 127
30.3	42.829 678	22.57 94	4.688 288	53.32 193	40.737 1293	7.83 231	49.327 261	63.25 145
5 10.3	43.552 723	22.24 33	5.000 312	51.42 190	42.126 1389	5.96 187	49.610 283	61.64 161
20.3	44.295 743	22.53 29	5.330 330	49.60 182	43.579 1453	4.55 140	49.909 299	59.91 173
	742	88	338	168	1488	89	308	178
30.2	45.037	23.41	5.668	47.92	45.067	3.67	50.217	58.13
6 9.2	45.755 718	24.86 145	6.009 341	46.42 150	46.555 1488	3.30 37	50.526 309	56.32 181
19.2	46.428 673	26.83 197	6.344 335	45.13 129	48.007 1452	3.47 17	50.829 303	54.55 177
29.2	47.039 611	29.27 244	6.663 319	44.10 103	49.386 1379	4.17 70	51.117 288	52.87 168
7 9.1	47.570 531	32.10 283	6.959 296	43.35 75	50.658 1272	5.37 120	51.384 267	51.31 156
	437	316	264	44	1127	168	238	138
19.1	48.007	35.26	7.223	42.91	51.785	7.05	51.622	49.93
29.1	48.342 335	38.66 340	7.448 225	42.76 15	52.737 952	9.15 210	51.825 203	48.74 119
8 8.1	48.567 225	42.24 358	7.631 183	42.92 16	53.484 747	11.61 246	51.989 164	47.77 97
18.0	48.679 112	45.90 366	7.765 134	43.36 44	54.005 521	14.34 273	52.109 120	47.04 73
27.9	48.675 4	49.57 367	7.850 85	44.04 68	54.283 278	17.27 293	52.186 77	46.65 39
	116	361	35	91	26	301	34	37
9 6.9	48.559	53.18	7.885	44.95	54.309	20.28	52.220	46.28
16.9	48.334 225	56.65 347	7.873 12	46.01 106	54.085 224	23.26 298	52.211 9	46.22 6
26.9	48.009 325	59.89 324	7.819 54	47.19 118	53.621 464	26.11 285	52.166 45	46.36 14
10 6.9	47.592 417	62.85 296	7.727 92	48.42 123	52.935 686	28.72 261	52.089 77	46.66 30
16.9	47.096 496	65.45 260	7.605 122	49.64 122	52.057 878	30.97 225	51.986 103	47.09 43
	564	218	143	116	1033	181	122	54
26.8	46.532	67.63	7.462	50.80	51.024	32.78	51.864	47.63
11 5.8	45.915 617	69.32 169	7.306 156	51.84 104	49.877 1147	34.06 128	51.732 132	48.25 62
15.8	45.262 653	70.49 117	7.145 161	52.73 89	48.666 1211	34.76 70	51.596 136	48.91 66
25.8	44.588 674	71.08 59	6.989 156	53.43 70	47.439 1227	34.85 9	51.462 134	49.59 68
12 5.7	43.914 674	71.06 2	6.843 146	53.91 48	46.244 1195	34.32 53	51.338 124	50.28 69
	656	61	129	25	1116	114	111	67
15.7	43.258	70.45	6.714	54.16	45.128	33.18	51.227	50.95
25.7	42.639 619	69.23 122	6.606 108	54.18 2	44.131 997	31.46 172	51.134 93	51.58 63
35.6	42.076 563	67.45 178	6.524 82	53.96 22	43.285 846	29.23 223	51.061 73	52.17 59
平位	s 42.927	″ 37.03	s 5.157	″ 61.03	s 45.746	″ 29.32	s 49.607	″ 64.21
2回正中	8月25日		8月26日		8月26日		8月26日	
a b	+ 0.0572	+ 0.1821	+ 0.1696	− 0.0316	+ 0.3359	− 0.3651	+ 0.1575	− 0.0085
a′ b′	+ 0.8844	+ 0.4667	+ 0.8892	+ 0.4575	+ 0.8945	+ 0.4471	+ 0.8946	+ 0.4469
FK3番號	837		838		839		840	

星名		α Tucn		γ Aqar		31 Pegs		β Lacr	
等級		2.91		3.97		4.93		4.58	
スペクトル型		K2		A0		B3p		K0	
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 22 14	° ′ −60 32	h m 22 18	° ′ −1 40	h m 22 18	° ′ +11 54	h m 22 21	° ′ +51 56
		s	″	s	″	s	″	s	″
1	0.7	33.694	55.09	41.399	32.27	41.429	65.43	17.811	47.47
	10.6	33.509 185	53.30 179	41.333 66	33.07 80	41.352 77	64.15 128	17.601 210	45.44 203
	20.6	33.381 128	51.13 217	41.291 42	33.83 76	41.299 53	62.79 136	17.430 171	43.03 241
	30.6	33.315 66	48.65 248	41.273 18	34.51 68	41.272 27	61.42 137	17.304 126	40.34 269
2	9.5	33.312 3	45.92 273	41.282 9	35.08 57	41.272 0	60.09 133	17.228 76	37.47 287
		62	291	38	42	31	122	20	294
	19.5	33.374	43.01	41.320	35.50	41.303	58.87	17.208	34.53
3	1.5	33.501 127	39.98 303	41.389 69	35.74 24	41.366 63	57.81 106	17.248 40	31.65 288
	11.5	33.692 191	36.91 307	41.490 101	35.76 2	41.463 97	56.99 82	17.349 101	28.93 272
	21.4	33.944 252	33.85 306	41.623 133	35.53 23	41.595 132	56.44 55	17.512 163	26.49 244
	31.4	34.257 313	30.88 297	41.790 167	35.04 49	41.761 166	56.21 23	17.733 221	24.42 207
		369	283	199	77	201	12	278	161
4	10.4	34.626	28.05	41.989	34.27	41.962	56.33	18.011	22.81
	20.4	35.048 422	25.43 262	42.219 230	33.25 102	42.193 231	56.80 47	18.336 325	21.71 110
	30.3	35.513 465	23.06 237	42.475 256	31.97 128	42.452 259	57.62 82	18.701 365	21.16 55
5	10.3	36.016 503	21.01 205	42.753 278	30.49 148	42.733 281	58.78 116	19.096 395	21.19 3
	20.3	36.545 529	19.32 169	43.048 295	28.82 167	43.030 297	60.24 146	19.510 414	21.78 59
		545	129	304	179	306	172	422	113
	30.2	37.090	18.03 85	43.352	27.03 187	43.336 306	61.96 193	19.932	22.91 165
6	9.2	37.638 548	17.18 40	43.658 306	25.16 190	43.642 300	63.89 209	20.348 416	24.56 209
	19.2	38.176 538	16.78 6	43.958 300	23.26 187	43.942 284	65.98 218	20.749 401	26.65 250
	29.2	38.690 514	16.84 53	44.245 287	21.39 180	44.226 263	68.16 221	21.122 373	29.15 282
7	9.1	39.167 477	17.37 98	44.510 265	19.59 167	44.489 232	70.37 220	21.458 336	31.97 307
		427		236				290	
	19.1	39.594	18.35 138	44.746 203	17.92 151	44.721 198	72.57 213	21.748 237	35.04 326
	29.1	39.958 364	19.73 176	44.949 163	16.41 133	44.919 158	74.70 200	21.985 181	38.30 337
8	8.1	40.251 293	21.49 207	45.112 122	15.08 111	45.077 116	76.70 186	22.166 119	41.67 339
	18.0	40.465 214	23.56 230	45.234 79	13.97 88	45.193 72	78.56 166	22.285 59	45.06 335
	28.0	40.593 128	25.86 245	45.313 35	13.09 66	45.265 30	80.22 144	22.344 3	48.41 324
		43							
9	6.9	40.636	28.31 251	45.348	12.43	45.295 10	81.66 122	22.341 60	51.65 305
	16.9	40.595 41	30.82 247	45.343 5	12.00 43	45.285 48	82.88 97	22.281 114	54.70 282
	26.9	40.474 121	33.29 234	45.302 41	11.78 22	45.237 78	83.85 72	22.167 161	57.52 252
10	6.9	40.282 192	35.63 210	45.229 73	11.75 3	45.159 95	84.57 47	22.006 201	60.04 216
	16.9	40.031 251	37.73 178	45.130 99	11.91 16	45.055 104	85.04 23	21.805 234	62.20 175
		298		117	30	123			
	26.8	39.733	39.51	45.013	12.21	44.932	85.27	21.571	63.95
11	5.8	39.404 329	40.90 139	44.884 129	12.65 44	44.797 135	85.25 2	21.312 259	65.25 130
	15.8	39.059 345	41.84 94	44.750 134	13.20 55	44.657 140	84.99 26	21.037 275	66.07 82
	25.8	38.715 344	42.28 44	44.619 131	13.84 64	44.518 139	84.51 48	20.755 282	66.37 30
12	5.7	38.385 330	42.21 7	44.494 125	14.55 71	44.385 133	83.81 70	20.473 282	66.13 24
		301	58	111	77	121	90	271	76
	15.7	38.084	41.63	44.383	15.32	44.264	82.91	20.202	65.37
	25.7	37.822 262	40.56 107	44.287 96	16.11 79	44.158 106	81.84 107	19.947 255	64.09 128
	35.6	37.608 214	39.03 153	44.210 77	16.91 80	44.070 88	80.63 121	19.718 229	62.33 176
平位		s 36.909	″ 40.32	s 42.733	″ 30.76	s 42.633	″ 62.92	s 18.804	″ 34.64
2回正中		8月26日		8月27日		8月27日		8月28日	
a	b	+0.2057	−0.1058	+0.1542	−0.0018	+0.1473	+0.0127	+0.1178	+0.0774
a′	b′	+0.8961	+0.4438	+0.9039	+0.4277	+0.9039	+0.4277	+0.9087	+0.4174
FK3番號		841		842		843		844	

星名		ν Grus		δ¹ Grus		δ Ceph		α Lacr	
等級		5.48		4.02		3.7—4.4		3.85	
スペクトル型		K0		G5		F5—G0		A0	
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 22 25	° ′ −39 24	h m 22 25	° ′ −43 46	h m 22 27	° ′ +58 7	h m 22 28	° ′ +49 59
		s	″	s	″	s	″	s	″
1	0.7	17.133	86.96	50.087	87.77	1.988	36.66	55.324	32.79
	10.6	17.033 100	86.14 82	49.974 113	86.76 101	1.719 269	34.69 197	55.123 201	30.86 193
	20.6	16.966 67	85.03 111	49.897 77	85.43 133	1.492 227	32.30 239	54.957 166	28.55 231
	30.6	16.933 33	83.63 140	49.857 40	83.79 164	1.318 174	29.58 272	54.831 126	25.96 259
2	9.6	16.936 3	81.98 165	49.857 0	81.91 188	1.204 114	26.63 295	54.753 78	23.17 279
		41	187	40	211	47	305	26	285
	19.5	16.977	80.11	49.897	79.80	1.157	23.58	54.727	20.32
3	1.5	17.058 81	78.07 204	49.980 83	77.52 228	1.181 24	20.54 304	54.757 30	17.51 281
	11.5	17.178 120	75.88 219	50.106 126	75.11 241	1.278 97	17.64 290	54.846 89	14.85 266
	21.4	17.338 160	73.60 228	50.274 168	72.62 249	1.448 170	14.98 266	54.994 148	12.46 239
	31.4	17.540 202	71.25 235	50.486 212	70.09 253	1.689 241	12.69 229	55.200 206	10.43 203
		240	237	254	251	306	185	260	158
4	10.4	17.780	68.88	50.740	67.58	1.995	10.84	55.460	8.85
	20.4	18.057 277	66.55 233	51.032 292	65.13 245	2.358 363	9.50 134	55.768 308	7.76 109
	30.3	18.368 311	64.30 225	51.359 327	62.81 232	2.768 410	8.72 78	56.116 348	7.21 55
5	10.3	18.706 338	62.19 211	51.716 357	60.65 216	3.213 445	8.52 20	56.495 379	7.22 1
	20.3	19.067 361	60.26 193	52.096 380	58.72 193	3.680 467	8.91 39	56.895 400	7.79 57
		373	170	395	166	477	95	408	110
	30.3	19.440	58.56	52.491	57.06	4.157	9.86	57.303	8.89
6	9.2	19.820 380	57.15 141	52.891 400	55.71 135	4.628 471	11.35 149	57.710 407	10.49 160
	19.2	20.195 375	56.04 111	53.287 396	54.71 100	5.080 452	13.34 199	58.104 394	12.54 205
	29.2	20.556 361	55.29 75	53.668 381	54.09 62	5.502 422	15.75 241	58.473 369	14.99 245
7	9.1	20.894 338	54.90 39	54.025 357	53.86 23	5.882 380	18.53 278	58.808 335	17.76 277
		306	2	323	17	328	308	293	302
	19.1	21.200	54.88	54.348	54.03	6.210	21.61	59.101	20.78
	29.1	21.464 264	55.23 35	54.628 280	54.58 55	6.479 269	24.91 330	59.344 243	23.99 321
8	8.1	21.682 218	55.93 70	54.858 230	55.50 92	6.683 204	28.36 345	59.532 188	27.30 331
	18.0	21.848 166	56.95 102	55.033 175	56.73 123	6.818 135	31.87 351	59.663 131	30.65 335
	28.0	21.958 110	58.24 129	55.150 117	58.25 152	6.884 66	35.37 350	59.735 72	33.96 331
		55	151	56	172	3	342	14	319
9	6.9	22.013	59.75 166	55.206	59.97	6.881	38.79	59.749	37.15
	16.9	22.013 0	61.41 175	55.205 1	61.84 187	6.811 70	42.06 327	59.706 43	40.18 303
	26.9	21.962 51	63.16 175	55.149 56	63.77 193	6.679 132	45.11 305	59.613 93	42.98 280
10	6.9	21.867 95	64.91 175	55.045 104	65.68 191	6.492 187	47.87 276	59.472 141	45.48 250
	16.9	21.735 132	66.59 168	54.900 145	67.49 181	6.256 236	50.29 242	59.292 180	47.64 216
		161	154	175	164	276	201	212	176
	26.8	21.574	68.13	54.725	69.13	5.980	52.30	59.080	49.40
11	5.8	21.394 180	69.46 133	54.528 197	70.52 139	5.672 308	53.86 156	58.843 237	50.73 133
	15.8	21.205 189	70.53 107	54.321 207	71.60 108	5.342 330	54.91 105	58.589 254	51.58 85
	25.8	21.017 188	71.29 76	54.114 207	72.34 74	5.000 342	55.43 52	58.327 262	51.93 35
12	5.7	20.837 180	71.72 43	53.915 199	72.70 36	4.656 344	55.39 4	58.063 264	51.76 17
		164	8	181	2	337	60	255	69
	15.7	20.673	71.80	53.734	72.68	4.319	54.79	57.808	51.07
	25.7	20.531 142	71.53 27	53.576 158	72.27 41	3.999 320	53.64 115	57.567 241	49.87 120
	35.7	20.416 115	70.92 61	53.447 129	71.48 79	3.707 292	51.97 167	57.348 219	48.21 166
平位		s 19.129	″ 75.00	s 52.228	″ 74.86	s 2.929	″ 22.65	s 56.260	″ 20.39
2回正中		8月29日		8月29日		8月30日		8月30日	
a	b	+0.1753	−0.0502	+0.1788	−0.0586	+0.1110	+0.0985	+0.1226	+0.0732
a′	b′	+0.9159	+0.4015	+0.9168	+0.3993	+0.9189	+0.3946	+0.9221	+0.3870
FK3番號		845		846		847		848	

星名		υ Aqar		η Aqar		31 Ceph		30 Ceph	
等級	スペクトル型	5.29	F5	4.13	B8	5.22	F0	5.21	A2
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 22 31	° ′ −20 59	h m 22 32	° ′ − 0 24	h m 22 34	° ′ +73 20	h m 22 35	° ′ +63 17
		s	″	s	″	s	″	s	″
1	0.7	33.171	70.80 1	24.380	44.32 82	20.691 603	65.80 177	36.497 347	30.98 184
	10.6	33.094 77	70.81 18	24.305 75	45.14 79	20.088 522	64.03 227	36.150 298	29.14 231
	20.6	33.041 53	70.63 38	24.252 53	45.93 73	19.563 422	61.76 269	35.852 238	26.83 267
	30.6	33.014 27	70.25 58	24.221 31	46.66 62	19.144 307	59.07 301	35.614 168	24.16 295
2	9.6	33.015 1	69.67 78	24.217 4	47.28 48	18.837 176	56.06 319	35.446 90	21.21 310
		32		23					
	19.5	33.047 63	68.89 98	24.240	47.76 30	18.661 38	52.87	35.356 5	18.11 313
3	1.5	33.110 97	67.91 117	24.295 55	48.06 7	18.623 105	49.60 327	35.351 83	14.98 304
	11.5	33.207 131	66.74 136	24.381 86	48.13 17	18.728 245	46.40 320	35.434 170	11.94 282
	21.5	33.338 165	65.38 153	24.501 120	47.96 43	18.973 377	43.39 301	35.604 256	9.12 249
	31.4	33.503 201	63.85 168	24.655 154	47.53 71	19.350 500	40.68 230	35.860 334	6.63 295 207
4	10.4	33.704	62.17 179	24.843 219	46.82 98	19.850 604	38.38 180	36.194 402	4.56 158
	20.4	33.938 234	60.38 188	25.062 249	45.84 124	20.454 687	36.58 126	36.596 460	2.98 103
	30.3	34.201 263	58.50 191	25.311 272	44.60 146	21.141 750	35.32 67	37.056 503	1.95 44
5	10.3	34.490 289	56.59 191	25.583 291	43.14 165	21.891 787	34.65 7	37.559 531	1.51 15
	20.3	34.798 308 322	54.68 191 184	25.874 303	41.49 180	22.678 799	34.58 54	38.090 544	1.66 73
	30.3	35.120	52.84 174	26.177 306	39.69 189	23.477 788	35.12 112	38.634 539	2.39 129
6	9.2	35.447 327	51.10 158	26.483 303	37.80 194	24.265 754	36.24 166	39.173 520	3.68 181
	19.2	35.770 323	49.52 139	26.785 291	35.86 192	25.019 698	37.90 215	39.693 487	5.49 227
	29.2	36.082 312	48.13 115	27.077 272	33.94 186	25.717 626	40.05 260	40.180 441	7.76 268
7	9.2	36.375 293 266	46.98 88	27.349 244	32.08 175	26.343 536	42.65 296	40.621 382	10.44 301
	19.1	36.641	46.10 60	27.593 213	30.33 159	26.879 433	45.61 326	41.003 316	13.45 327
	29.1	36.872 231	45.50 31	27.806 174	28.74 142	27.312 324	48.87 349	41.319 244	16.72 346
8	8.1	37.063 191	45.19 3	27.980 134	27.32 120	27.636 205	52.36 363	41.563 165	20.18 356
	18.0	37.210 147	45.16 24	28.114 91	26.12 98	27.841 86	55.99 370	41.728 86	23.74 360
	28.0	37.312 102 56	45.40 48	28.205 49	25.14 75	27.927 34	59.69 369	41.814 6	27.34 355
9	6.9	37.368	45.88 69	28.254 8	24.39 52	27.893 152	63.38 359	41.820 71	30.89 343
	16.9	37.378 10	46.57 86	28.262 29	23.87 30	27.741 262	66.97 344	41.749 142	34.32 324
	26.9	37.348 30	47.43 96	28.233 62	23.57 10	27.479 367	70.41 319	41.607 210	37.56 298
10	6.9	37.281 67	48.39 103	28.171 88	23.47 10	27.112 460	73.60 288	41.397 269	40.54 265
	16.9	37.184 97 119	49.42 104	28.083 108	23.57 25	26.652 543	76.48 251	41.128 319	43.19 226
	26.9	37.065	50.46 100	27.975 122	23.82 40	26.109 610	78.99 205	40.809 360	45.45 181
11	5.8	36.931 134	51.46 92	27.853 129	24.22 53	25.499 664	81.04 155	40.449 391	47.26 132
	15.8	36.789 142	52.38 81	27.724 129	24.75 62	24.835 699	82.59 99	40.058 411	48.58 77
	25.8	36.648 141	53.19 66	27.595 124	25.37 71	24.136 717	83.58 39	39.647 419	49.35 20
12	5.7	36.512 136 124	53.85 50	27.471 115	26.08 76	23.419 715	83.97 21	39.228 416	49.55 38
	15.7	36.388	54.35	27.356	26.84 81	22.704	83.76 83	38.812	49.17
	25.7	36.280 108	54.66 31	27.255 101	27.65 82	22.014 690	82.93 142	38.412 400	48.21 96
	35.7	36.192 88	54.80 14	27.170 85	28.47	21.368 646	81.51	38.040 372	46.69 152
平位		s 34.705	″ 63.06	s 25.632	″ 42.62	s 21.597	″ 49.56	s 37.338	″ 16.09
2回正中		8月31日		8月31日		8月31日		9月1日	
a	b	+ 0.1630	− 0.0237	+ 0.1535	− 0.0004	+ 0.0720	+ 0.2075	+ 0.1062	+ 0.1238
a′	b′	+ 0.9265	+ 0.3763	+ 0.9279	+ 0.3729	+ 0.9310	+ 0.3650	+ 0.9346	+ 0.3558
FK3番號		849		850		851		853	

星名		10 Lacr		ε PscA		ζ Pegs		β Grus	
等級	スペクトル型	4.91	Oe5	4.22	B8	3.61	B8	2.24	M3
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m 22 36	° ′ +38 44	h m 22 37	° ′ −27 20	h m 22 38	° ′ +10 31	h m 22 39	° ′ −47 10
		s	″	s	″	s	″	s	″
1	0.7	41.007	80.86	28.788	38.95	35.941	61.36	14.176	74.28
	10.6	40.859 148	79.10 176	28.700 88	38.72 23	35.854 87	60.19 117	14.038 138	73.22 106
	20.6	40.737 122	77.03 207	28.637 63	38.23 49	35.789 65	58.97 122	13.935 103	71.79 143
	30.6	40.646 91	74.74 229	28.601 36	37.51 72	35.746 43	57.73 124	13.872 63	70.04 175
2	9.6	40.591 55 15	72.31 243 245	28.594 7 25	36.55 96 117	35.728 18 12	56.52 121 110	13.848 24 20	68.00 204 228
	19.5	40.576	69.86	28.619	35.38	35.740	55.42	13.868	65.72
3	1.5	40.603 30	67.47 239	28.678 59	34.01 137	35.784 44	54.48 94	13.932 64	63.25 247
	11.5	40.681 78	65.25 222	28.771 93	32.45 156	35.861 77	53.75 73	14.043 111	60.64 261
	21.5	40.805 124	63.30 195	28.901 130	30.72 173	35.973 112	53.28 47	14.200 157	57.95 269
	31.4	40.976 171 217	61.70 160 119	29.067 166 203	28.85 187 197	36.122 149 184	53.10 18 16	14.403 203 249	55.23 272 271
4	10.4	41.193	60.51	29.270	26.88	36.306	53.26	14.652	52.52
	20.4	41.451 258	59.79 72	29.507 237	24.83 205	36.523 217	53.76 50	14.944 292	49.89 263
	30.3	41.745 294	59.56 23	29.776 269	22.75 208	36.770 247	54.59 83	15.274 330	47.40 249
5	10.3	42.068 323	59.84 28	30.073 297	20.69 206	37.043 273	55.75 116	15.639 365	45.10 230
	20.3	42.411 343 355	60.62 78 125	30.391 318 332	18.70 199 188	37.334 291 304	57.19 144 169	16.031 392 409	43.04 206 177
	30.3	42.766	61.87	30.723	16.82	37.638	58.88	16.440	41.27
6	9.2	43.122 356	63.56 169	31.062 339	15.12 170	37.946 308	60.78 190	16.859 419	39.85 142
	19.2	43.470 348	65.63 207	31.400 338	13.62 150	38.251 305	62.82 204	17.276 417	38.79 106
	29.2	43.800 330	68.03 240	31.727 327	12.38 124	38.543 292	64.95 213	17.682 406	38.15 64
7	9.2	44.104 304 269	70.69 266 285	32.035 308 280	11.43 95 64	38.816 273 247	67.12 217 215	18.064 382 349	37.92 23 19
	19.1	44.373	73.54	32.315	10.79	39.063	69.27	18.413	38.11
	29.1	44.602 229	76.51 297	32.561 246	10.46 33	39.277 214	71.35 208	18.720 307	38.72 61
8	8.1	44.786 184	79.54 303	32.766 205	10.46 0	39.453 176	73.30 195	18.977 257	39.71 99
	18.0	44.921 135	82.55 301	32.925 159	10.77 31	39.588 135	75.10 180	19.177 200	41.06 135
	28.0	45.005 84 35	85.49 294 280	33.038 113 64	11.36 59 84	39.681 93 51	76.71 161 140	19.316 139 77	42.70 164 188
9	6.9	45.040	88.29	33.102	12.20	39.732	78.11	19.393	44.58
	16.9	45.028 12	90.91 262	33.118 16	13.24 104	39.743 11	79.28 117	19.407 14	46.61 203
	26.9	44.971 57	93.29 238	33.091 27	14.43 119	39.716 27	80.21 93	19.364 43	48.72 211
10	6.9	44.875 96	95.38 209	33.024 67	15.70 127	39.656 60	80.90 69	19.267 97	50.81 209
	16.9	44.746 129 156	97.15 177 140	32.925 99 124	17.01 131 127	39.570 86 108	81.35 45 22	19.125 142 178	52.80 199 181
	26.9	44.590	98.55	32.801	18.28	39.462	81.57	18.947	54.61
11	5.8	44.414 176	99.57 102	32.659 142	19.46 118	39.340 122	81.55 2	18.743 204	56.16 155
	15.8	44.224 190	100.16 59	32.509 150	20.50 104	39.209 131	81.32 23	18.524 219	57.38 122
	25.8	44.028 196	100.32 16	32.357 152	21.35 85	39.076 133	80.88 44	18.301 223	58.23 85
12	5.7	43.832 196 190	100.03 29 72	32.210 147 135	22.00 65 41	38.946 130 122	80.24 64 81	18.083 218 204	58.68 45 1
	15.7	43.642	99.31	32.075	22.41	38.824	79.43	17.879	58.69
	25.7	43.464 178	98.15 116	31.955 120	22.58 17	38.714 110	78.46 97	17.698 181	58.28 41
	35.7	43.303 161	96.61 154	31.855 99	22.49 9	38.618 96	77.36 110	17.544 154	57.46 82
平位		s 41.935	″ 71.17	s 30.406	″ 29.14	s 37.055	″ 59.88	s 16.351	″ 59.73
2回正中		9月1日		9月1日		9月2日		9月2日	
a	b	+ 0.1343	+ 0.0500	+ 0.1655	− 0.0323	+ 0.1490	+ 0.0116	+ 0.1782	− 0.0675
a′	b′	+ 0.9347	+ 0.3555	+ 0.9359	+ 0.3522	+ 0.9376	+ 0.3477	+ 0.9386	+ 0.3450
FK3番號		852		854		855		856	

星名		η Pegs			13 Lacr			λ Pegs			ε Grus		
等級	スペクトル型	3.10		G0	5.24		K0	4.14		K0	3.69		A2
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 22 40		° ′ +29 55	h m 22 41		° ′ +41 30	h m 22 43		° ′ +23 15	h m 22 45		° ′ −51 36
		s		″	s		″	s		″	s		″
1	0.7	18.623		28.84	31.762		81.34	45.955		60.02	4.983		77.28
	10.6	18.501	122	27.23 161	31.600	162	79.58 176	45.846	109	58.56 146	4.818	165	76.08 120
	20.6	18.402	99	25.39 184	31.463	137	77.51 207	45.759	87	56.93 163	4.691	127	74.49 159
	30.6	18.330	72	23.38 201	31.358	105	75.18 233	45.696	63	55.18 175	4.603	85	72.55 194
2	9.6	18.289	41	21.30 208	31.291	67	72.70 248	45.661	35	53.38 180	4.566	40	70.31 224
			7	208		25	254		3	176		7	249
	19.5	18.282		19.22	31.263		70.16	45.658		51.62	4.573		67.82
3	1.5	18.313	31	17.23 199	31.286	20	67.67 249	45.690	32	49.98 164	4.629	56	65.14 268
	11.5	18.386	73	15.43 180	31.356	70	65.33 234	45.759	69	48.52 146	4.736	107	62.32 282
	21.5	18.500	114	13.89 154	31.476	120	63.25 208	45.867	108	47.34 118	4.894	158	59.42 290
	31.4	18.655	156	12.69 120	31.646	170	61.51 174	46.015	148	46.47 87	5.103	209	56.51 291
			198	80		218	133		188	50		259	286
4	10.4	18.854		11.89	31.864		60.18	46.203		45.97	5.362		53.65
	20.4	19.090	236	11.52 37	32.127	263	59.32 86	46.426	223	45.88 9	5.669	307	50.88 277
	30.3	19.359	269	11.60 8	32.426	299	58.96 36	46.683	257	46.20 32	6.018	349	48.28 260
5	10.3	19.656	297	12.13 53	32.757	331	59.11 15	46.966	283	46.94 74	6.405	387	45.89 239
	20.3	19.973	317	13.11 98	33.110	353	59.78 67	47.270	304	48.07 113	6.821	416	43.78 211
			330	139		365	116		316	149		438	178
	30.3	20.303		14.50	33.475		60.94	47.586	320	49.56 180	7.259	449	42.00
6	9.2	20.635	332	16.27 177	33.842	367	62.55 161	47.906	317	51.36 207	7.708	449	40.59 141
	19.2	20.962	327	18.35 208	34.201	359	64.56 201	48.223	304	53.43 228	8.157	449	39.58 101
	29.2	21.274	312	20.69 234	34.543	342	66.93 237	48.527	283	55.71 243	8.594	437	39.01 57
7	9.2	21.563	289	23.23 254	34.858	315	69.58 265	48.810	255	58.14 251	9.009	415	38.88 13
			258	267		280	287					379	32
	19.1	21.821		25.90	35.138		72.45	49.035		60.65	9.388		39.20
	29.1	22.044	223	28.64 274	35.377	239	75.46 301	49.285	220	63.18 253	9.724	336	39.96 76
8	8.1	22.225	181	31.38 274	35.569	192	78.55 309	49.467	182	65.68 250	10.007	283	41.12 116
	18.0	22.361	136	34.07 269	35.712	143	81.65 310	49.606	139	68.08 240	10.228	221	42.65 153
	28.0	22.451	90	36.65 258	35.803	91	84.68 303	49.702	96	70.35 227	10.385	157	44.48 183
			45	242		40	293		51	210		88	207
9	6.9	22.496		29.07	35.843		87.61	49.753		72.45	10.473		46.55
	16.9	22.497	1	41.28 221	35.833	10	90.35 274	49.763	10	74.33 188	10.495	22	48.78 223
	26.9	22.457	40	43.26 198	35.778	55	92.87 252	49.733	30	75.98 165	10.451	44	51.07 229
10	6.9	22.381	76	44.95 169	35.681	97	95.11 224	49.669	64	77.36 138	10.349	102	53.34 227
	16.9	22.275	106	46.35 140	35.550	131	97.02 191	49.576	93	78.45 109	10.195	154	55.49 215
			131	107		160	156		116	79		194	194
	26.9	22.144		47.42	35.390		98.58	49.460		79.24	10.001		57.43
11	5.8	21.996	148	48.13 71	35.207	183	99.73 115	49.327	133	79.73 49	9.775	226	59.08 165
	15.8	21.836	160	48.48 35	35.010	197	100.45 72	49.183	144	79.89 16	9.531	244	60.38 130
	25.8	21.672	164	48.46 2	34.803	207	100.73 28	49.035	148	79.74 15	9.280	251	61.26 88
12	5.7	21.507	165	48.03 40	34.596	207	100.54 19	48.887	148	79.27 47	9.032	248	61.71 45
			159	77		203	65		142	78		234	3
	15.7	21.348		47.29	34.393		99.89	48.745		78.49	8.798		61.68
	25.7	21.201	147	46.18 111	34.201	192	98.79 110	48.613	132	77.43 106	8.587	211	61.20 48
	35.7	21.069	132	44.75 143	34.025	176	97.28 151	48.496	117	76.11 132	8.405	182	60.26 94
平位		s 19.581		″ 21.59	s 32.643		″ 71.00	s 46.939		″ 54.78	s 7.309		″ 61.48
2回正中		9月2日			9月2日			9月3日			9月3日		
a	b	+ 0.1403		+ 0.0361	+ 0.1335		+ 0.0556	+ 0.1440		+ 0.0271	+ 0.1804		− 0.0797
a′	b′	+ 0.9402		+ 0.3407	+ 0.9420		+ 0.3357	+ 0.9452		+ 0.3265	+ 0.9471		+ 0.3209
FK3番號		857			858			859			860		

星名		τ Aqar			μ Pegs			ι Ceph			λ Aqar		
等級	スペクトル型	4.21		K5	3.67		K0	3.68		K0	3.84		M0
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 22 46		° ′ −13 53	h m 22 47		° ′ +24 17	h m 22 47		° ′ +65 53	h m 22 49		° ′ − 7 52
		s		″	s		″	s		″	s		″
1	0.7	33.177		44.55	13.967		66.16	37.940		76.56	37.227		64.99
	10.7	33.094	83	44.87 32	13.856	111	64.70 146	37.536	404	74.87 169	37.143	84	65.53 54
	20.6	33.031	63	45.04 17	13.764	92	63.06 164	37.181	355	72.69 218	37.079	64	65.97 44
	30.6	32.991	40	45.05 1	13.697	67	61.29 177	36.890	291	70.11 258	37.036	43	66.29 32
2	9.6	32.977	14	44.89 16	13.657	40	59.46 183	36.673	217	67.22 289	37.018	18	66.46 17
			13	36		7	180		131	309		9	1
	19.5	32.990		44.53	13.650		57.66	36.542		64.13			
3	1.5	33.034	44	43.97 56	13.677	27	55.97 169	36.503	39	60.98 315	37.027		66.47
	11.5	33.110	76	43.19 78	13.743	66	54.46 151	36.562	59	57.88 310	37.066	39	66.27 20
	21.5	33.221	111	42.21 98	13.848	105	53.21 125	36.720	158	54.97 291	37.137	71	65.86 41
	31.4	33.366	145	41.01 120	13.993	145	52.28 93	36.971	251	52.34 263	37.241	104	65.23 63
			181	139		186	55		342	222	37.381	140	64.36 87
4	10.4	33.547		39.62	14.179		51.73	37.313		50.12		175	110
	20.4	33.761	214	38.05 157	14.401	222	51.57 16	37.733	420	48.37 175	37.556		63.26
	30.4	34.003	245	36.33 172	14.657	256	51.84 27	38.219	486	47.16 121	37.765	209	61.93 133
5	10.3	34.278	272	34.50 183	14.941	284	52.52 68	38.756	537	46.51 65	38.004	239	60.42 151
	20.3	34.572	294	32.61 189	15.245	304	53.61 109	39.327	571	46.46 5	38.270	266	58.73 169
			308	191		318	145		588	54	38.558	288	56.93 180
	30.3	34.880		30.70	15.563		55.06	39.915		47.00		303	188
6	9.2	35.196	316	28.83 187	15.886	323	56.84 178	40.503	588	48.11 111	38.861		55.05
	19.2	35.511	315	27.04 179	16.205	319	58.89 205	41.074	571	49.75 164	39.171	310	53.14 191
	29.2	35.816	305	25.39 165	16.511	306	61.17 228	41.611	537	51.88 213	39.481	310	51.26 188
7	9.2	36.105	289	23.92 147	16.798	287	63.60 243	42.102	491	54.43 255	39.781	300	49.47 179
			264	126		258	252		430	291	40.066	285	47.79 168
	19.1	36.369		22.66	17.056		66.12	42.532		57.34		260	150
	29.1	36.602	233	21.65 101	17.280	224	68.68 256	42.893	361	60.55 321	40.326	229	46.29
8	8.1	36.797	195	20.90 75	17.466	186	71.21 253	43.176	283	63.97 342	40.555	193	44.99 130
	18.1	36.952	155	20.42 48	17.609	143	73.66 245	43.377	201	67.53 356	40.748	193	43.91 108
	28.0	37.063	111	20.21 21	17.708	99	75.98 232	43.492	115	71.15 362	40.901	153	43.09 82
			68	4		56	216		28	360	41.012	111	42.51 58
9	6.9	37.131		20.25	17.764		78.14	43.520		74.75		68	33
	16.9	37.156	25	20.52 27	17.776	12	80.08 194	43.465	55	78.27 352	41.080		42.18
	26.9	37.141	15	20.98 46	17.750	26	81.78 170	43.330	135	81.63 336	41.107	27	42.09 9
10	6.9	37.091	50	21.61 63	17.689	61	83.23 145	43.120	210	84.75 312	41.095	12	42.21 12
	16.9	37.011	80	22.35 74	17.598	91	84.38 115	42.843	277	87.56 281	41.049	46	42.52 31
			103	82		115	86		336	245	40.974	75	42.97 45
	26.9	36.903		23.17	17.483		85.24	42.507		90.01		97	58
11	5.8	36.789	119	24.02 85	17.351	132	85.78 54	42.122	385	92.01 200	40.877		43.55
	15.8	36.660	129	24.87 80	17.208	143	85.99 21	41.698	424	93.53 152	40.763	114	44.21 66
	25.8	36.529	131	25.67 74	17.059	149	85.88 11	41.248	450	94.52 99	40.640	123	44.92 71
12	5.8	36.401	128	26.41 74	16.910	149	85.45 43	40.782	466	94.93 41	40.514	126	45.65 73
			120	64		144	75		468	19	40.389	125	46.39 74
	15.7	36.281		27.03	16.766		84.70	40.314		94.74		117	70
	25.7	36.173	108	27.59 54	16.631	135	83.66 104	39.859	455	93.97 77	40.272		47.09
	35.7	36.081	92	27.99 40	16.510	121	82.35 131	39.429	430	92.62 135	40.166	106	47.75 66
											40.074	92	48.34 59
平位		s 34.519		″ 38.03	s 14.924		″ 60.70	s 38.644		″ 61.29	s 38.473		″ 60.23
2回正中		9月4日			9月4日			9月4日			9月4日		
a	b	+ 0.1585		− 0.0157	+ 0.1439		+ 0.0286	+ 0.1071		+ 0.1417	+ 0.1561		− 0.0088
a′	b′	+ 0.9491		+ 0.3149	+ 0.9500		+ 0.3121	+ 0.9506		+ 0.3105	+ 0.9532		+ 0.3022
FK3番號		861			862			863			864		

星名	ρ Indi		δ Aqar		α PscA		ζ Grus	
等級	6.14		3.51		1.29		4.18	
スペクトル型	G0		A2		A3		G5	
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 50	° ′ ″ −70 22	h m s 22 51	° ′ ″ −16 7	h m s 22 54	° ′ ″ −29 55	h m s 22 57	° ′ ″ −53 3
1 0.7	39.402	62.24	36.275	35.28	28.750	40.74	29.234	53.68
10.7	39.009 393	60.40 184	36.187 88	35.53 25	28.648 102	40.46 28	29.046 188	52.53 115
20.6	38.691 318	58.10 230	36.120 67	35.61 8	28.568 80	39.90 56	28.895 151	50.96 157
30.6	38.456 235	55.41 269	36.076 44	35.51 10	28.516 52	39.07 83	28.786 109	49.02 194
2 9.6	38.311 145	52.40 301	36.056 20	35.21 30	28.491 25	37.99 108	28.721 65	46.75 227
	51	326	9	50	7	133	16	254
19.5	38.260	49.14	36.065	34.71	28.498	36.66	28.705	44.21
3 1.5	38.305 45	45.73 341	36.104 39	34.01 70	28.539 41	35.12 154	28.739 34	41.46 275
11.5	38.447 142	42.23 350	36.175 71	33.09 92	28.616 77	33.38 174	28.825 86	38.55 291
21.5	38.684 237	38.73 350	36.281 106	31.96 113	28.730 114	31.47 191	28.964 139	35.56 299
31.4	39.014 330	35.31 342	36.423 142	30.64 132	28.882 152	29.42 205	29.157 193	32.54 302
	420	328	177	152	191	216	246	299
4 10.4	39.434	32.03	36.600	29.12	29.073	27.26	29.403	29.55
20.4	39.937 503	28.97 306	36.812 212	27.44 168	29.302 229	25.05 221	29.699 296	26.66 289
30.4	40.514 577	26.18 279	37.056 244	25.64 180	29.564 262	22.81 224	30.042 343	23.92 274
5 10.3	41.155 641	23.74 244	37.327 271	23.74 190	29.856 292	20.61 220	30.426 384	21.41 251
20.3	41.848 693	21.69 205	37.621 294	21.79 195	30.174 318	18.50 211	30.844 418	19.17 224
	729	160	309	194	334	198	442	191
30.3	42.577	20.09	37.930	19.85	30.508	16.52	31.286	17.26
6 9.2	43.326 749	18.97 112	38.248 318	17.97 188	30.853 345	14.73 179	31.743 457	15.73 153
19.2	44.077 751	18.35 62	38.566 318	16.20 177	31.199 346	13.17 156	32.203 460	14.61 112
29.2	44.810 733	18.26 9	38.876 310	14.58 162	31.537 338	11.90 127	32.654 451	13.94 67
7 9.2	45.508 698	18.69 43	39.170 294	13.15 143	31.859 322	10.93 97	33.086 432	13.73 21
	641	94	270	119	296	63	399	26
19.1	46.149	19.63	39.440	11.96	32.155	10.30	33.485	13.99
29.1	46.716 567	21.06 143	39.678 238	11.03 93	32.418 263	10.02 28	33.841 356	14.69 70
8 8.1	47.193 477	22.92 186	39.880 202	10.38 65	32.641 223	10.08 6	34.145 304	15.83 114
18.1	47.566 373	25.15 223	40.041 161	10.01 37	32.820 179	10.48 40	34.388 243	17.35 152
28.0	47.826 260	27.68 253	40.159 118	9.92 9	32.952 132	11.19 71	34.566 178	19.20 185
	139	273	73	17	82	97	109	210
9 7.0	47.965	30.41	40.232	10.09	33.034	12.16	34.675	21.30
16.9	47.982 17	33.26 285	40.262 30	10.48 39	33.068 34	13.35 119	34.714 39	23.59 229
26.9	47.878 104	36.11 285	40.252 10	11.08 60	33.056 12	14.70 135	34.686 28	25.97 238
10 6.9	47.662 216	38.85 274	40.206 46	11.83 75	33.004 52	16.15 145	34.596 90	28.34 237
16.9	47.345 317	41.37 252	40.129 77	12.69 86	32.916 88	17.64 149	34.451 145	30.60 226
	403	220	101	92	116	144	191	206
26.9	46.942	43.57	40.028	13.61	32.800	19.08	34.260	32.66
11 5.8	46.473 469	45.35 178	39.910 118	14.54 93	32.663 137	20.42 134	34.035 225	34.45 179
15.8	45.959 514	46.65 130	39.782 128	15.45 91	32.514 149	21.60 118	33.787 248	35.87 142
25.8	45.421 538	47.41 76	39.650 132	16.30 85	32.360 154	22.57 97	33.527 260	36.88 101
12 5.8	44.882 539	47.59 18	39.520 130	17.05 75	32.208 152	23.31 74	33.266 261	37.44 56
	520	41	123	64	143	46	249	7
15.7	44.362	47.18	39.397	17.69	32.065	23.77	33.017	37.51
25.7	43.880 482	46.20 98	39.286 111	18.18 49	31.935 130	23.95 18	32.787 230	37.10 41
35.7	43.453 427	44.67 153	39.190 96	18.53 35	31.822 113	23.85 10	32.583 204	36.23 87
平位	s 43.423	″ 43.52	s 37.620	″ 27.89	s 30.325	″ 29.22	s 31.519	″ 36.76
2回正中	9月5日		9月5日		9月6日		9月6日	
a b	+ 0.2090	− 0.1785	+ 0.1590	− 0.0184	+ 0.1641	− 0.0368	+ 0.1772	− 0.0854
a′ b′	+ 0.9547	+ 0.2977	+ 0.9558	+ 0.2939	+ 0.9594	+ 0.2819	+ 0.9631	+ 0.2692
FK3番號	865		866		867		868	

星名	o Andr		β Pegs		α Pegs		† ϑ Grus	
等級	3.63		2.61		2.57		4.35	
スペクトル型	B5, A2p		M0		A0		F5	
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 59	° ′ ″ +42 0	h m s 23 0	° ′ ″ +27 46	h m s 23 1	° ′ ″ +14 53	h m s 23 3	° ′ ″ −43 49
1 0.7	16.804	80.04	59.565	30.02	54.194	55.71	38.661	58.51
10.7	16.629 175	78.46 158	59.439 126	28.61 141	54.091 103	54.53 118	38.514 147	57.76 75
20.6	16.477 152	76.53 193	59.331 108	26.96 165	54.004 87	53.24 129	38.394 120	56.63 113
30.6	16.353 124	74.32 221	59.246 85	25.15 181	53.938 66	51.90 134	38.306 88	55.15 148
2 9.6	16.265 88	71.93 239	59.189 57	23.25 190	53.896 42	50.55 135	38.253 53	53.35 180
	48	248	26	191	14	128	15	207
19.6	16.217	69.45	59.163	21.34	53.882	49.27	38.238	51.28
3 1.5	16.214 3	66.98 247	59.173 10	19.51 183	53.899 17	48.11 116	38.265 27	48.97 231
11.5	16.261 47	64.63 235	59.223 50	17.84 167	53.952 53	47.14 97	38.333 68	46.48 249
21.5	16.359 98	62.50 213	59.314 91	16.40 144	54.040 88	46.42 72	38.447 114	43.86 262
31.4	16.508 149	60.68 182	59.448 134	15.27 113	54.167 127	45.99 43	38.606 159	41.16 270
	201	144	176	77	166	11	205	274
4 10.4	16.709	59.24	59.624	14.50	54.333	45.88	38.811	38.42
20.4	16.956 247	58.25 99	59.840 216	14.14 36	54.535 202	46.13 25	39.060 249	35.70 272
30.4	17.245 289	57.74 51	60.093 253	14.20 6	54.770 235	46.73 60	39.351 291	33.07 263
5 10.3	17.568 323	57.73 1	60.375 282	14.69 49	55.035 265	47.68 95	39.678 327	30.58 249
20.3	17.917 349	58.24 51	60.682 307	15.61 92	55.323 288	48.95 127	40.035 357	28.30 228
	366	99	323	131	303	157	380	204
30.3	18.283	59.23	61.005	16.92	55.626	50.52	40.415	26.26
6 9.3	18.654 371	60.68 145	61.334 329	18.59 167	55.938 312	52.33 181	40.809 394	24.53 173
19.2	19.022 368	62.55 187	61.662 328	20.57 198	56.249 311	54.34 201	41.207 398	23.15 138
29.2	19.375 353	64.78 223	61.980 318	22.80 223	56.552 303	56.49 215	41.598 391	22.15 100
7 9.2	19.705 330	67.32 254	62.279 299	25.23 243	56.838 286	58.72 223	41.974 376	21.57 58
	298	277	272	256	262	225	349	17
19.1	20.003	70.09	62.551	27.79	57.100	60.97	42.323	21.40
29.1	20.262 259	73.04 295	62.790 239	30.42 263	57.332 232	63.20 223	42.636 313	21.67 27
8 8.1	20.477 215	76.09 305	62.990 200	33.06 264	57.528 196	65.35 215	42.904 268	22.34 67
18.1	20.642 165	79.16 307	63.149 159	35.64 258	57.685 157	67.38 203	43.123 219	23.40 106
28.0	20.758 116	82.21 305	63.263 114	38.13 249	57.800 115	69.24 186	43.286 163	24.79 139
	65	296	70	234	74	166	105	167
9 7.0	20.823	85.17	63.333	40.47	57.874	70.90	43.391	26.46
16.9	20.838 15	87.97 280	63.360 27	42.62 215	57.907 33	72.35 145	43.438 47	28.35 189
26.9	20.803 32	90.57 260	63.346 14	44.54 192	57.901 6	73.57 122	43.430 8	30.37 202
10 6.9	20.733 73	92.92 235	63.296 50	46.22 168	57.862 39	74.54 97	43.370 60	32.43 206
16.9	20.621 112	94.96 204	63.215 81	47.60 138	57.793 69	75.27 73	43.264 106	34.47 204
	142	169	107	108	92	47	142	190
26.9	20.479	96.65	63.108	48.68	57.701	75.74	43.122	36.37
11 5.8	20.311 168	97.97 132	62.980 128	49.44 76	57.591 110	75.96 22	42.951 171	38.08 171
15.8	20.125 186	98.87 90	62.838 142	49.86 42	57.468 123	75.93 3	42.760 191	39.50 142
25.8	19.927 198	99.32 45	62.688 150	49.93 7	57.339 129	75.66 27	42.561 199	40.60 110
12 5.8	19.722 205	99.33 1	62.534 154	49.65 28	57.208 131	75.16 50	42.360 201	41.32 72
	204	46	151	62	128	71	194	32
15.7	19.518	98.87	62.383	49.03	57.080	74.45	42.166	41.64
25.7	19.320 198	97.95 91	62.238 145	48.09 94	56.959 121	73.54 91	41.987 179	41.54 10
35.7	19.135 185	96.62 134	62.104 134	46.85 124	56.849 110	72.45 109	41.828 159	41.03 51
平位	s 17.559	″ 69.83	s 60.416	″ 23.83	s 55.144	″ 53.57	s 40.520	″ 43.02
2回正中	9月7日		9月7日		9月7日		9月8日	
a b	+ 0.1376	+ 0.0580	+ 0.1444	+ 0.0340	+ 0.1489	+ 0.0172	+ 0.1689	− 0.0621
a′ b′	+ 0.9651	+ 0.2618	+ 0.9671	+ 0.2546	+ 0.9681	+ 0.2507	+ 0.9700	+ 0.2433
FK3番號	869		870		871		872	

星名	† π Ceph		88 Aqar		Br 3077 Cass		25 G. Tucn	
等級	4.56		3.80		5.65		5.69	
スペクトル型	G5		K0		K2		G0	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 23 6	° ′ +75 4	h m 23 6	° ′ −21 28	h m 23 10	° ′ +55 50	h m 23 13	° ′ −62 18
	s	″	s	″	s	″	s	″
1 0.7	4.310	61.71	23.251	65.34	31.088	85.70	30.294	63.49
10.7	3.581 729	60.39 132	23.151 100	65.43 9	30.803 280	84.22 148	30.005 289	62.16 133
20.6	2.922 659	58.51 188	23.069 82	65.30 13	30.558 250	82.28 194	29.761 244	60.35 181
30.6	2.357 565	56.15 236	23.010 59	64.94 36	30.347 211	79.96 232	29.568 193	58.12 223
2 9.6	1.907 450	53.39 276	22.975 35	64.35 59	30.185 162	77.34 262	29.434 134	55.52 260
	314	303	7	82	104	282	73	289
19.6	1.593	50.36	22.968	63.53	30.081	74.52	29.361	52.63
3 1.5	1.428 165	47.17 319	22.992 24	62.48 105	30.041 40	71.64 288	29.355 6	49.51 312
11.5	1.420 8	43.95 322	23.049 57	61.22 126	30.070 29	68.79 285	29.416 61	46.24 327
21.5	1.572 152	40.83 312	23.142 93	59.76 146	30.172 102	66.09 270	29.547 131	42.89 335
31.4	1.879 307	37.94 289	23.271 129	58.11 165	30.347 175	63.67 242	29.748 201	39.52 337
	454	257	167	182	245	206	270	330
4 10.4	2.333	35.37	23.438	56.29	30.592	61.61	30.018	36.22
20.4	2.917 584	33.24 213	23.642 204	54.35 194	30.901 309	59.99 162	30.355 337	33.05 317
30.4	3.611 694	31.60 164	23.881 239	52.31 204	31.267 366	58.87 112	30.752 397	30.08 297
5 10.3	4.392 781	30.51 109	24.150 269	50.22 209	31.679 412	58.29 58	31.204 452	27.37 271
20.3	5.233 841	30.01 50	24.444 294	48.13 209	32.125 446	58.27 2	31.702 498	24.99 238
	876	9	313	204	468	53	534	200
30.3	6.109	30.10	24.757	46.09	32.593	58.80	32.236	22.99
6 9.3	6.992 883	30.78 68	25.081 324	44.15 194	33.069 476	59.87 107	32.792 556	21.42 157
19.2	7.857 865	32.02 124	25.408 327	42.37 178	33.541 472	61.45 158	33.359 567	20.31 111
29.2	8.679 822	33.79 177	25.730 322	40.80 157	33.994 453	63.49 204	33.920 561	19.71 60
7 9.2	9.438 759	36.04 225	26.038 308	39.46 134	34.418 424	65.94 245	34.462 542	19.61 10
	674	267	286	105	383	278	508	41
19.1	10.112	38.71	26.324	38.41	34.801	68.72	34.970	20.02
29.1	10.687 575	41.74 303	26.580 256	37.65 76	35.135 334	71.78 306	35.428 458	20.94 92
8 8.1	11.150 463	45.06 332	26.800 220	37.21 44	35.413 278	75.05 327	35.826 398	22.31 137
18.1	11.492 342	48.58 352	26.980 180	37.09 12	35.630 217	78.44 339	36.152 326	24.11 180
28.0	11.708 216	52.24 366	27.116 136	37.27 18	35.782 152	81.89 345	36.398 246	26.26 215
	86	373	91	45	88	343	159	243
9 7.0	11.794	55.97	27.207	37.72	35.870	85.32	36.557	28.69
16.9	11.749 45	59.67 370	27.253 46	38.42 70	35.893 23	88.67 335	36.628 71	31.31 262
26.9	11.580 169	63.28 361	27.258 5	39.32 90	35.855 38	91.86 319	36.611 17	34.01 270
10 6.9	11.289 291	66.71 343	27.223 35	40.37 105	35.759 96	94.84 298	36.511 100	36.71 270
16.9	10.885 404	69.89 318	27.156 67	41.52 115	35.612 147	97.53 269	36.336 175	39.27 256
	506	287	94	117	194	235	241	234
26.9	10.379	72.76	27.062	42.69	35.418	99.88	36.095	41.61
11 5.8	9.781 598	75.22 246	26.947 115	43.85 116	35.186 232	101.82 194	35.802 293	43.63 202
15.8	9.107 674	77.21 199	26.819 128	44.94 109	34.922 264	103.32 150	35.472 330	45.23 160
25.8	8.374 733	78.68 147	26.685 134	45.91 97	34.635 287	104.32 100	35.117 355	46.37 114
12 5.8	7.599 775	79.58 90	26.550 135	46.73 82	34.333 302	104.79 47	34.755 362	46.98 61
	795	29	130	64	308	7	357	7
15.7	6.804	79.87	26.420	47.37	34.025	104.72	34.398	47.05
25.7	6.013 791	79.54 33	26.299 121	47.80 43	33.720 305	104.10 62	34.030 338	46.57 48
35.7	5.249 764	78.59 95	26.191 108	48.03 23	33.427 293	102.94 116	33.752 308	45.55 102
平位	s 4.614	″ 45.34	s 24.590	″ 55.59	s 31.639	″ 72.28	s 32.995	″ 44.04
2回正中	9月9日		9月9日		9月10日		9月10日	
a b	+0.0950	+0.2433	+0.1594	−0.0255	+0.1315	+0.0997	+0.1789	−0.1244
a′ b′	+0.9725	+0.2331	+0.9728	+0.2317	+0.9768	+0.2142	+0.9795	+0.2013
FK3番號	874		873		875		876	

星名	γ Tucn		γ Pisc		γ Scul		τ Pegs	
等級	4.10		3.85		4.51		4.65	
スペクトル型	F2		K0		K0		A5	
世界時	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯	赤 經	赤 緯
月 日	h m 23 14	° ′ −58 32	h m 23 14	° ′ +2 58	h m 23 15	° ′ −32 50	h m 23 17	° ′ +23 25
	s	″	s	″	s	″	s	″
1 0.7	4.511	73.31	11.574	11.86	43.543	47.42	47.929	45.66
10.7	4.262 249	72.12 119	11.477 97	11.00 86	43.419 124	47.15 27	47.805 124	44.41 125
20.6	4.052 210	70.45 167	11.395 82	10.16 84	43.316 103	46.57 58	47.696 109	42.98 143
30.6	3.887 165	68.37 208	11.330 65	9.35 81	43.236 80	45.67 90	47.606 90	41.40 158
2 9.6	3.772 115	65.93 244	11.288 42	8.63 72	43.184 52	44.48 119	47.539 67	39.75 165
	60	274	17	61	22	146	38	165
19.6	3.712	63.19	11.271	8.02	43.162	43.02	47.501	38.10
3 1.5	3.710 2	60.22 297	11.282 11	7.58 44	43.175 13	41.32 170	47.497 4	36.51 159
11.5	3.767 57	57.07 315	11.326 44	7.34 24	43.223 48	39.40 192	47.529 32	35.09 142
21.5	3.887 120	53.84 323	11.405 79	7.34 0	43.311 88	37.29 211	47.602 73	33.88 121
31.5	4.069 182	50.57 327	11.520 115	7.60 26	43.439 128	35.04 225	47.715 113	32.95 93
	245	323	153	53	169	236	156	60
4 10.4	4.314	47.34	11.673	8.13	43.608	32.68	47.871	32.35
20.4	4.618 304	44.23 311	11.862 189	8.96 83	43.818 210	30.26 242	48.067 196	32.13 22
30.4	4.977 359	41.28 295	12.085 223	10.05 109	44.066 248	27.82 244	48.301 234	32.30 17
5 10.3	5.387 410	38.57 271	12.338 253	11.41 136	44.348 282	25.42 240	48.567 266	32.87 57
20.3	5.838 451	36.17 240	12.615 277	12.98 157	44.660 312	23.13 229	48.859 292	33.83 96
	484	205	296	176	333	215	310	131
30.3	6.322	34.12	12.911	14.74	44.993	20.98	49.169	35.14
6 9.3	6.827 505	32.48 164	13.217 306	16.65 191	45.341 348	19.04 194	49.491 322	36.78 164
19.2	7.341 514	31.29 119	13.527 310	18.63 198	45.694 353	17.36 168	49.814 323	38.70 192
29.2	7.850 509	30.57 72	13.830 303	20.65 202	46.044 350	15.98 138	50.130 316	40.83 213
7 9.2	8.342 492	30.34 23	14.121 291	22.64 199	46.382 338	14.93 105	50.431 301	43.14 231
	461	28	269	192	315	68	278	242
19.2	8.803	30.62	14.390	24.56	46.697	14.25	50.709	45.56
29.1	9.220 417	31.38 76	14.631 241	26.36 180	46.982 285	13.94 31	50.957 248	48.02 246
8 8.1	9.581 361	32.61 123	14.839 208	28.00 164	47.231 249	14.02 8	51.170 213	50.47 245
18.1	9.878 297	34.25 164	15.010 171	29.45 145	47.435 204	14.46 44	51.343 173	52.86 239
28.0	10.103 225	36.25 200	15.141 131	30.68 123	47.593 158	15.24 78	51.475 132	55.14 228
	147	229	91	100	109	108	89	213
9 7.0	10.250	38.54	15.232	31.68	47.702	16.32	51.564	57.27
16.9	10.318 68	41.03 249	15.282 50	32.44 76	47.761 59	17.65 133	51.612 48	59.21 194
26.9	10.308 10	43.62 259	15.294 12	32.98 54	47.773 12	19.16 151	51.620 8	60.93 172
10 6.9	10.225 83	46.21 259	15.272 22	33.29 31	47.741 32	20.80 164	51.592 28	62.41 148
16.9	10.075 150	48.70 249	15.220 52	33.39 10	47.670 71	22.48 168	51.532 60	63.62 121
	207	229	76	9	103	164	86	94
26.9	9.868	50.99	15.144	33.30	47.567	24.12	51.446	64.56
11 5.9	9.615 253	52.98 199	15.049 95	33.04 26	47.439 128	25.66 154	51.339 107	65.20 64
15.8	9.329 286	54.59 161	14.941 108	32.63 41	47.293 146	27.04 138	51.215 124	65.55 35
25.8	9.023 306	55.75 116	14.825 116	32.10 53	47.138 155	28.18 114	51.082 133	65.59 4
12 5.8	8.710 313	56.42 67	14.707 118	31.46 64	46.980 158	29.07 89	50.942 140	65.33 26
	308	15	117	73	155	58	140	55
15.7	8.402	55.57	14.590	30.73	46.825	29.65	50.802	64.78
25.7	8.111 291	56.19 38	14.479 111	29.94 79	46.680 145	29.91 26	50.665 137	63.94 84
35.7	7.846 265	55.29 90	14.377 102	29.10 84	46.548 132	29.84 7	50.535 130	62.84 110
平位	s 6.934	″ 54.37	s 12.567	″ 14.08	s 45.028	″ 33.92	s 48.716	″ 41.24
2回正中	9月11日		9月11日		9月11日		9月12日	
a b	+0.1750	−0.1068	+0.1526	+0.0034	+0.1616	−0.0422	+0.1480	+0.0284
a′ b′	+0.9800	+0.1989	+0.9801	+0.1985	+0.9814	+0.1919	+0.9831	+0.1830
FK3番號	877		878		879		880	

星名		4 Cass		υ Pegs		o Grus		x Pisc	
等級	スペクトル型	5.20	K5	4.57	G0	5.54	F0	4.94	A2p
世界時		赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月	日	h m s 23 22	° ′ ″ +61 57	h m s 23 22	° ′ ″ +23 5	h m s 23 23	° ′ ″ −53 1	h m s 23 23	° ′ ″ +0 56
1	0.7	17.317	85.33	31.068	28.57	23.661	92.99	59.596	32.80
	10.7	16.957 360	84.04 129	30.943 125	27.36 121	23.448 213	92.07 92	59.495 101	32.01 79
	20.6	16.627 330	82.26 178	30.832 111	25.95 141	23.265 183	90.69 138	59.407 88	31.24 77
	30.6	16.340 287	80.03 223	30.739 93	24.42 153	23.119 146	88.91 178	59.335 72	30.54 70
2	9.6	16.107 233	77.45 258	30.669 70	22.80 162	23.013 106	86.75 216	59.284 51	29.93 61
		167	283	41	162	62	247	27	48
	19.6	15.940	74.62 296	30.628	21.18 155	22.951 12	84.28 272	59.257 2	29.45
3	1.5	15.847 93	71.66 298	30.619 9	19.63 140	22.939 39	81.55 293	59.259 33	29.14 31
	11.5	15.837 10	68.68 287	30.647 28	18.23 119	22.978 93	78.63 305	59.292 67	29.03 11
	21.5	15.912 75	65.81 264	30.714 67	17.04 92	23.071 147	75.58 313	59.359 105	29.15 12
	31.5	16.073 161	63.17 232	30.823 109	16.12 58	23.218 204	72.45 313	59.464 142	29.53 38
		244		151					65
4	10.4	16.317	60.85 190	30.974 193	15.54 22	23.422 258	69.32 308	59.606 180	30.18 92
	20.4	16.639 322	58.95 142	31.167 230	15.32 17	23.680 308	66.24 294	59.786 214	31.10 117
	30.4	17.028 389	57.53 90	31.397 263	15.49 56	23.988 354	63.30 276	60.000 246	32.27 142
5	10.3	17.474 446	56.63 33	31.660 289	16.05 95	24.342 394	60.54 251	60.246 271	33.69 163
	20.3	17.963 489	56.30 23	31.949 310	17.00 129	24.736 425	58.03 219	60.517 292	35.32 179
		517							
	30.3	18.480	56.53 79	32.259 321	18.29 163	25.161 447	55.84 183	60.809 304	37.11 191
6	9.3	19.011 531	57.32 133	32.580 323	19.92 189	25.608 456	54.01 141	61.113 308	39.02 198
	19.2	19.539 528	58.65 181	32.903 317	21.81 212	26.064 455	52.60 97	61.421 305	41.00 200
	29.2	20.050 511	60.46 226	33.220 304	23.93 229	26.519 455	51.63 97	61.726 292	43.00 195
7	9.2	20.532 482	62.72 264	33.524 280	26.22 239	26.961 442	51.12 51	62.018 274	44.95 187
		438				416	2		
	19.2	20.970	65.36 297	33.804 252	28.61 245	27.377 380	51.10 47	62.292 247	46.82 173
	29.1	21.356 386	68.33 322	34.056 217	31.06 243	27.757 332	51.57 92	62.539 215	48.55 156
8	8.1	21.681 325	71.55 339	34.273 178	33.49 237	28.089 277	52.49 135	62.754 178	50.11 135
	18.1	21.938 257	74.94 349	34.451 137	35.86 226	28.366 214	53.84 172	62.932 140	51.46 113
	28.0	22.124 186	78.43 354	34.588 95	38.12 212	28.580 148	55.56 204	63.072 99	52.59 89
		113							
9	7.0	22.237	81.97	34.683	40.24 192	28.728 80	57.60 227	63.171 59	53.48 65
	16.9	22.276 39	85.46 349	34.736 53	42.16 192	28.808 12	59.87 241	63.230 21	54.13 41
	26.9	22.245 31	88.84 338	34.750 14	43.87 171	28.820 53	62.28 246	63.251 13	54.54 20
10	6.9	22.146 99	92.03 319	34.728 22	45.34 147	28.767 110	64.74 240	63.238 44	54.74 1
	16.9	21.984 162	94.98 295	34.673 55	45.55 121	28.657 160	67.14 226	63.194 69	54.73 19
		217	262	81	94				
	26.9	21.767	97.60	34.592	47.49 65	28.497 200	69.40 201	63.125 89	54.54
11	5.9	21.499 268	99.85 225	34.489 103	48.14 35	28.297 230	71.41 168	63.036 104	54.19 35
	15.8	21.190 309	101.65 180	34.370 119	48.49 6	28.067 250	73.09 129	62.932 112	53.71 48
	25.8	20.848 342	102.95 130	34.240 130	48.55 24	27.817 258	74.38 84	62.820 118	53.13 58
12	5.8	20.482 366	103.72 77	34.103 137	48.31 53	27.559 255	75.22 35	62.702 117	52.46 67
		379	21	139					73
	15.7	20.103	103.93	33.964 136	47.78 80	27.304 244	75.57 14	62.585 112	51.73
	25.7	19.721 382	103.56 37	33.828 136	46.98 106	27.060 224	75.43 63	62.473 106	50.96 77
	35.7	19.348 373	102.63 93	33.698 130	45.92	26.836	74.80	62.367	50.18 78
平位		s 17.665	″ 71.01	s 31.830	″ 24.38	s 25.689	″ 74.40	s 60.555	″ 36.07
2回正中		9月13日		9月13日		9月14日		9月14日	
a	b	+0.1328	+0.1235	+0.1487	+0.0280	+0.1674	−0.0875	+0.1532	+0.0011
a′	b′	+0.9865	+0.1638	+0.9867	+0.1628	+0.9873	+0.1589	+0.9877	+0.1564
FK3番號		882		881		883		884	

星名		70 Pegs		β Scul		†72 Pegs *m*		248 G. Aqar	
等級	スペクトル型	4.67	K0	4.46	B9	5.21	K2	6.51	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 23 26	° ′ ″ +12 26	h m s 23 29	° ′ ″ −38 7	h m s 23 31	° ′ ″ +31 0	h m s 23 32	° ′ ″ −7 46
1	0.7	15.330	46.13	53.672	77.18	6.554	44.52	34.631	54.64
	10.7	15.220 110	45.10 103	53.525 147	76.83 35	6.407 147	43.29 123	34.527 104	55.21 57
	20.7	15.122 98	43.99 111	53.398 127	76.10 73	6.273 134	41.78 151	34.435 92	55.66 45
	30.6	15.041 81	42.83 116	53.295 103	75.01 109	6.157 116	40.07 171	34.359 76	55.97 31
2	9.6	14.981 60	41.69 114	53.220 75	73.60 141	6.066 91	38.21 186	34.302 57	56.13 16
		36	109	44	172	61	192	33	2
	19.6	14.945	40.60	53.176 8	71.88	6.005	36.29	34.269	56.11
3	1.5	14.939 6	39.63 97	53.168 8	69.90 198	5.979 26	34.38 191	34.264 5	55.89 22
	11.5	14.967 28	38.83 80	53.198 30	67.69 221	5.992 13	32.58 180	34.290 26	55.45 44
	21.5	15.031 64	38.26 57	53.270 72	65.29 240	6.050 58	30.96 162	34.350 60	54.78 67
	31.5	15.133 102	37.95 31	53.385 115	62.75 254	6.153 103	29.61 135	34.447 97	53.87 91
		142	0	160	263	149	103	134	114
4	10.4	15.275	37.95	53.545	60.12	6.302	28.58	34.581	52.73
	20.4	15.456 181	38.28 33	53.748 203	57.44 268	6.496 194	27.93 65	34.754 173	51.36 137
	30.4	15.673 217	38.93 65	53.993 245	54.78 266	6.731 235	27.69 24	34.962 208	49.79 157
5	10.4	15.922 249	39.90 97	54.278 285	52.18 260	7.003 272	27.88 19	35.203 241	48.05 174
	20.3	16.198 276	41.18 128	54.594 316	49.72 246	7.304 301	28.51 63	35.472 269	46.17 188
		295	154	343	227	322	103	290	196
	30.3	16.493	42.72	54.937	47.45	7.626	29.54	35.762	44.21
6	9.3	16.801 308	44.50 178	55.298 361	45.43 202	7.962 336	30.96 142	36.066 304	42.21 200
	19.2	17.113 312	46.45 195	55.668 370	43.70 173	8.301 339	32.72 176	36.378 312	40.22 199
	29.2	17.420 307	48.53 208	56.037 369	42.31 139	8.635 334	34.77 205	36.686 308	38.30 192
7	9.2	17.715 295	50.68 215	56.397 360	41.30 101	8.955 320	37.07 230	36.986 300	36.51 179
		275	217	339	60	297	248	281	164
	19.2	17.990	52.85	56.736	40.70	9.252	39.55	37.237	34.87
	29.1	18.238 248	54.98 213	57.046 310	40.51 19	9.519 267	42.14 259	37.524 257	33.45 142
8	8.1	18.454 216	57.02 204	57.320 274	40.74 23	9.751 232	44.79 265	37.749 225	32.26 119
	18.1	18.633 179	58.93 191	57.550 230	41.37 63	9.942 191	47.44 265	37.939 190	31.33 93
	28.1	18.772 139	60.67 174	57.732 182	42.36 99	10.091 149	50.04 260	38.090 151	30.67 66
		100	155	130	132	106	249	110	39
9	7.0	18.872	62.22	57.862	43.68	10.197	52.53	38.200	30.28
	16.9	18.931 59	63.55 133	57.940 78	45.27 159	10.258 61	54.86 233	38.269 69	30.15 13
	23.9	18.952 21	64.66 111	57.967 27	47.05 178	10.278 20	57.00 214	38.300 31	30.25 10
10	6.9	18.938 14	65.53 87	57.947 20	48.95 190	10.260 18	58.91 191	38.295 5	30.56 31
	16.9	18.894 44	66.17 64	57.882 65	50.90 195	10.207 53	60.56 165	38.257 38	31.05 49
		70	40	100	189	83	136	63	63
	26.9	18.824	66.57	57.782	52.79	10.124	61.92	38.194	31.68
11	5.9	18.733 91	65.74 17	57.651 131	54.56 177	10.017 107	62.97 105	38.109 85	32.41 73
	15.8	18.627 106	66.70 4	57.499 152	56.13 157	9.890 127	63.69 72	38.008 101	33.19 78
	25.8	18.512 115	66.44 26	57.333 166	57.43 130	9.749 141	64.06 37	37.897 111	34.00 81
12	5.8	18.389 123	65.99 45	57.160 173	58.41 98	9.597 152	64.07 1	37.780 117	34.80 80
		123	64	172	64	156	35	118	77
	15.8	18.266	65.35 80	56.988 165	59.05 25	9.441 156	63.72 70	37.662 114	35.57 70
	25.7	18.145 121	64.55 80	56.823 154	59.30 12	9.285 151	63.02 103	37.548 108	36.27 62
	35.7	18.031 114	63.61 94	56.669	59.18	9.134	61.99	37.440	36.89
平位		s 16.166	″ 45.57	s 55.167	″ 61.53	s 7.194	″ 38.07	s 35.633	″ 48.06
2回正中		9月14日		9月15日		9月15日		9月15日	
a	b	+0.1512	+0.0145	+0.1602	−0.0519	+0.1483	+0.0398	+0.1544	−0.0090
a′	b′	+0.9892	+0.1467	+0.9914	+0.1309	+0.9921	+0.1257	+0.9929	+0.1193
FK3番號		885		886		887		888	

星名	λ Andr		11 G. Phoe		ε Andr		γ Ceph	
等級 スペクトル型	4.00	K0	4.86	A2	4.28	B8	3.42	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 34	° ′ +46 8	h m 23 34	° ′ −45 48	h m 23 35	° ′ +42 56	h m 23 36	° ′ +77 18
	s	″	s	″	s	″	s	″
1 0.7	45.499	67.93	45.608	46.05	19.512	78.43	59.708	67.41
10.7	45.288 211	66.69 124	45.428 180	45.48 57	19.317 195	77.20 123	58.800 908	66.56 85
20.7	45.092 196	65.04 165	45.270 158	44.48 100	19.137 180	75.59 161	57.951 849	65.12 144
30.6	44.919 173	63.06 198	45.140 130	43.08 140	18.979 158	73.67 192	57.191 760	63.13 199
2 9.6	44.778 141	60.80 226	45.042 98	41.32 176	18.850 129	71.49 218	56.549 642	60.68 245
	101	243	63	208	93	232	498	281
19.6	44.677	58.37	44.979	39.24	18.757	69.17	56.051	57.87
3 1.5	44.621 56	55.86 251	44 957 22	36.87 237	18.708 49	66.80 237	55.720 331	54.82 305
11.5	44.618 3	53.39 247	44.979 22	34.28 259	18.707 1	64.46 234	55.569 151	51.65 317
21.5	44.669 51	51.06 233	45.047 68	31.52 276	18.758 51	62.27 219	55.605 36	48.49 316
31.5	44.779 110	48.95 211	45.164 117	28.63 289	18.863 105	60.32 195	55.830 225	45.46 303
	168	178	166	294	161	163	405	278
4 10.4	44.947	47.17	45.330	25.69	19.024	58.69	56.235	42.68
20.4	45.170 223	45.79 138	45.545 215	22.74 295	19.237 213	57.46 123	56.806 571	40.26 242
30.4	45.443 273	44.85 94	45.807 262	19.86 288	19.493 261	56.66 80	57.522 716	38.27 199
5 10.4	45.760 317	44.39 46	46.112 305	17.10 276	19.801 303	56.34 32	58.360 838	36.79 148
20 3	46.112 352	44.44 5	46.454 342	14.53 257	20.138 337	56.50 16	59.289 929	35.86 93
	377	54	371	232	361	65	991	35
30.3	46.489	44.98	46.825	12.21	20.499	57.15	60.280	35.51
6 9.3	46.880 391	46.01 103	47.218 393	10.19 202	20.874 375	58.26 111	61.304 1024	35.74 23
19 2	47.276 396	47.50 149	47.623 405	8.53 166	21.254 380	59.81 155	62.328 1024	36.55 81
29.2	47.663 387	49.39 189	48.028 405	7.27 126	21.626 372	61.75 194	63.324 996	37.91 136
7 9.2	48.034 371	51.64 225	48.424 396	6.43 84	21.983 357	64.02 227	64.267 943	39.78 187
	343	256	376	38	331	255	864	233
19.2	48.377	54.20	48.800	6.05 8	22.314	66.57	65.131	42.11
29.1	48.685 308	56.98 278	49.145 345	6.13 8	22.611 297	69.33 276	65.897 766	44.85 274
8 8.1	48.951 266	59.95 297	49.450 305	6.66 53	22.869 258	72.24 291	66.548 651	47.94 309
18.1	49.170 219	63.01 306	49.708 258	7.62 96	23.082 213	75.24 300	67.070 522	51.30 336
28.1	49.340 170	66.11 310	49.913 205	8.96 134	23.247 165	78.25 301	67.454 384	54.86 356
	118	307	149	168	116	298	240	370
9 7.0	49 458 66	69.18	50.062 89	10.64	23.363 66	81.23	67.694	58.56
17.0	49.524 16	72.17 299	50.151 32	12.59 195	23.429 20	84.10 287	67.785 91	62.31 375
26.9	49.540 30	75.01 284	50.183 23	14.73 214	23.449 26	86.82 272	67.730 55	66.03 372
10 6.9	49.510 73	77.65 264	50.160 74	16.96 223	23.423 65	89.33 251	67.529 201	69.65 362
16.9	49.437 111	80.04 239	50.086 117	19.21 225	23.358 101	91.58 225	67.188 341	73.08 343
		208		215		195	472	318
26.9	49.326	82.12	49.969	21.36	23.257	93.53	66.716	76.26
11 5.9	49.182 144	83.85 173	49.817 152	23.34 198	23.124 133	95.14 161	66.121 595	79.09 283
15.8	49.012 170	85.19 134	49.638 179	25.07 173	22.967 157	96.37 123	65.419 702	81.51 242
25.8	48.819 193	86.10 91	49.441 197	26.46 139	22.790 177	97.19 82	64.625 794	83.44 193
12 5.8	48.611 208	86.55 45	49.234 207	27.47 101	22.598 192	97.57 38	63.758 867	84.83 139
	218	2	207	59	201	8	915	80
15.8	48.393	86.53	49.027	28.06	22.397	97.49	62.843	85.63
25.7	48.173 220	86.04 49	48.826 201	28.21 15	22.195 202	96.97 52	61.905 938	85.80 17
35.7	47.956 217	85.08 96	48.638 188	27.91 30	21.995 200	96.01 96	60.973 932	85.35 45
平位	45.959	57.30	47.263	28.29	20.004	68.64	59.237	51.17
2回正中	9月16日		9月16日		9月16日		9月16日	
a b	+ 0.1457	+ 0.0690	+ 0.1609	− 0.0682	+ 0.1467	+ 0.0617	+ 0.1236	+ 0.2947
a′ b′	+ 0.9939	+ 0.1099	+ 0.9940	+ 0.1098	+ 0.9942	+ 0.1074	+ 0.9950	+ 0.1003
FK3番號	890		889		891		893	

星名	ε Pisc		ω² Aqar		41 H. Ceph		δ Scul	
等級 スペクトル型	4.28	F8	4.62	A0	5.02	A0	4.64	A0
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 23 36	° ′ +5 18	h m 23 39	° ′ −14 51	h m 23 45	° ′ +67 29	h m 23 45	° ′ −28 26
	s	″	s	″	s	″	s	″
1 0.7	60.157	59.76	44.986	46.08	10.224	39.13	56.405	57.73
10.7	60.049 108	58.89 87	44.875 111	46.48 40	9.745 479	38.22 91	56.274 131	57.78 5
20.7	59.953 96	58.01 88	44.777 98	46.69 21	9.294 451	36.75 147	56.157 117	57.52 26
30.6	59.870 83	57.14 87	44.694 83	46.70 1	8.887 407	34.78 197	56.057 100	56.95 57
2 9.6	59.807 63	56.33 81	44.631 63	46.51 19	8.540 347	32.39 239	55.978 79	56.08 87
	40	70	40	42	270	272	52	116
19.6	59.767	55.63	44.591	46.09	8.270	29.67	55.926	54.92
3 1.6	59.755 12	55.07 56	44.579 12	45.44 65	8.089 181	26.73 294	55.903 23	53.50 142
11.5	59.774 19	54.70 37	44.598 19	44.57 87	8.007 82	23.70 303	55.915 12	51.83 167
21.5	59.828 54	54.55 15	44.652 54	43.47 110	8.030 23	20.70 300	55.963 48	49.94 189
31.5	59.920 92	54.66 11	44.743 91	42.14 133	8.161 131	17.85 285	56.052 89	47.85 209
	131	38	129	154	237	259	130	224
4 10.4	60.051	55.04	44.872	40.60	8.398	15.26	56.182	45.61
20.4	60.220 169	55.71 67	45.041 169	38.88 172	8.734 336	13.03 223	56.354 172	43.25 236
30.4	60.426 206	56.67 96	45.246 205	37.00 188	9.158 424	11.23 180	56.565 211	40.82 243
5 10.4	60.665 239	57.90 123	45.486 240	35.00 200	9.659 501	9.94 129	56.815 250	38.37 245
20.3	60.932 267	59.37 147	45.755 269	32.92 208	10.219 560	9.19 75	57.097 282	35.97 240
	289	168	292	210	603	19	308	231
30.3	61.221	61.05	46.047	30.82	10.822	9.00	57.405	33.66
6 9.3	61.524 303	62.89 184	46.355 308	28.75 207	11.449 627	9.37 37	57.732 327	31.50 216
19.3	61.833 309	64.85 196	46.672 317	26.76 199	12.083 634	10.30 93	58.070 338	29.54 196
29.2	62.140 307	66.87 202	46.988 316	24.91 185	12.705 622	11.76 146	58.410 340	27.85 169
7 9.2	62.437 297	68.89 202	47.296 308	23.24 167	13.299 594	13.70 194	58.743 333	26.46 139
	280	198	292	144	551	237	318	105
19.2	62.717	70.87	47.588	21.80	13.850	16.07	59.061	25.41
29.1	62.971 254	72.75 188	47.855 267	20.63 117	14.345 495	18.82 275	59.353 292	24.73 68
8 8.1	63.195 224	74.50 175	48.092 237	19.73 90	14.774 429	21.89 307	59.615 262	24.42 31
18.1	63.384 189	76.06 156	48.293 201	19.15 58	15.126 352	25.19 330	59.839 224	24.48 6
28.1	63.535 151	77.43 137	48.455 162	18.86 29	15.398 272	28.67 348	60.020 181	24.92 44
	112	114	120	2	187	358	137	76
9 7.0	63.647	78.57	48.575	18.88	15.585	32.25	60.157	25.68
17.0	63.718 71	79.48 91	48.654 79	19.16 28	15.684 99	35.85 360	60.248 91	26.74 106
26.9	63.752 34	80.16 68	48.692 38	19.69 53	15.699 15	39.41 356	60.294 46	28.03 129
10 6.9	63.752 0	80.61 45	48.693 1	20.42 73	15.629 70	42.84 343	60.297 3	29.50 147
16.9	63.720 32	80.83 22	48.661 32	21.30 88	15.480 149	46.08 324	60.262 35	31.08 158
	57	3	61	99	223	296	68	161
26.9	63.663	80.86	48.600	22.29	15.257	49.04	60.194	32.69
11 5.9	63.583 80	80.71 15	48.516 84	23.32 103	14.965 292	51.67 263	60.098 96	34.26 157
15.8	63.489 94	80.39 32	48.415 101	24.36 104	14.613 352	53.88 221	59.981 117	35.73 147
25.8	63.381 108	79.93 46	48.302 113	25.36 100	14.210 403	55.62 174	59.850 131	37.03 130
12 5.8	63.267 114	79.34 59	48.181 121	26.28 92	13.766 444	56.83 121	59.710 140	38.12 109
	116	70	121	80	473	66	144	82
15.8	63.151	78.64	48.060	27.03	13.293	57.49	59.566	38.94
25.7	63.036 115	77.87 77	47.940 120	27.74 66	12.806 487	57.55 6	59.425 141	39.48 54
35.7	62.926 110	77.03 84	47.826 114	28.24 50	12.318 488	57.01 54	59.291 134	39.72 24
平位	60.999	62.02	46.028	36.84	10.163	24.27	57.596	43.95
2回正中	9月16日		9月17日		9月18日		9月19日	
a b	+ 0.1527	+ 0.0062	+ 0.1549	− 0.0176	+ 0.1429	+ 0.1605	+ 0.1555	− 0.0360
a′ b′	+ 0.9950	+ 0.1001	+ 0.9961	+ 0.0882	+ 0.9979	+ 0.0647	+ 0.9981	+ 0.0612
FK3番號	892		894		895		896	

本初子午線正中時

星名	268 G. Aqar		φ Pegs		ρ Cass		27 Pisc	
等級 スペクトル型	6.08	K0	5.23	M0	4.4—5.1	F8p	5.07	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 47	° ′ −10 17	h m 23 49	° ′ +18 48	h m 23 51	° ′ +57 10	h m 23 55	° ′ − 3 52
	s	″	s	″	s	″	s	″
1 0.7	17.309	40.83	34.417	15.36	31.281	69.19	44.443	26.09
10.7	17.198 111	41.36 53	34.291 126	14.35 101	30.973 308	68.22 97	44.331 112	26.76 67
20.7	17.098 100	41.74 38	34.173 118	13.19 116	30.681 292	66.76 146	44.227 104	27.35 59
30.6	17.011 87	41.95 21	34.069 104	11.92 127	30.416 265	64.86 190	44.136 91	27.82 47
2 9.6	16.943 68	41.98 3	33.983 86	10.59 133	30.188 228	62.59 227	44.030 76	28.17 35
	46	16	62	133	177	255	54	18
19.6	16.897	41.82	33.921	9.26	30.011	60.04	44.003	28.35
3 1.6	16.877 20	41.44 38	33.888 33	8.01 125	29.892 119	57.32 272	43.977 29	28.35 0
11.5	16.888 11	40.84 60	33.889 1	6.88 113	29.840 52	54.55 277	43.978 1	28.14 21
21.5	16.933 45	40.01 83	33.927 38	5.94 94	29.861 21	51.83 272	44.014 36	27.70 44
31.5	17.015 82	38.94 107	34.007 80	5.25 69	29.958 97	49.28 255	44.086 72	27.03 67
	121	130	122	40	172	228	112	93
4 10.4	17.136 160	37.64 150	34.129 164	4.85 7	30.130 244	47.00 192	44.198 151	26.10 117
20.4	17.296 197	36.14 170	34.293 204	4.78 28	30.374 310	45.08 149	44.349 189	24.93 140
30.4	17.493 232	34.44 186	34.497 239	5.06 63	30.684 368	43.59 101	44.538 224	23.53 161
5 10.4	17.725 262	32.58 197	34.736 271	5.69 97	31.052 415	42.58 48	44.762 255	21.92 177
20.4	17.987 286	30.61 204	35.007 294	6.66 129	31.467 449	42.10 5	45.017 279	20.15 190
30.3	18.273	28.57 206	35.301	7.95 157	31.916 470	42.15 57	45.296 297	18.25 199
6 9.3	18.575 302	26.51 202	35.611 310	9.52 182	32.386 479	42.72 110	45.593 308	16.26 202
19.3	18.887 312	24.49 193	35.929 318	11.34 201	32.865 472	43.82 157	45.901 308	14.24 198
29.2	19.199 312	22.56 179	36.246 317	13.35 215	33.337 455	45.39 202	46.209 303	12.26 191
7 9.2	19.505 306	20.77 161	36.554 308	15.50 223	33.792 426	47.41 239	46.512 288	10.35 179
	289		291					
19.2	19.794	19.16	36.845	17.73	34.218	49.80	46.800	8.56
29.1	20.061 267	17.79 137	37.110 265	20.00 227	34.604 386	52.53 273	47.066 266	6.95 161
8 8.1	20.299 238	16.67 112	37.347 237	22.23 223	34.942 338	55.52 299	47.305 239	5.55 140
18.1	20.502 203	15.83 84	37.547 200	24.39 216	35.226 284	58.70 318	47.511 206	4.38 117
28.1	20.667 165	15.27 56	37.710 163	26.43 204	35.450 224	62.01 331	47.680 169	3.47 91
	126	27	123	188	163	337	130	64
9 7.0	20.793	15.00	37.833	28.31	35.613	65.38	47.810	2.83
17.0	20.878 85	15.00 0	37.916 83	30.01 170	35.713 100	68.73 335	47.902 92	2.44 39
26.9	20.923 45	15.25 25	37.960 44	31.50 149	35.752 39	72.01 328	47.955 53	2.31 13
10 6.9	20.933 10	15.72 47	37.969 9	32.77 127	35.731 21	75.14 313	47.973 18	2.40 9
16.9	20.909 24	16.36 64	37.946 23	33.79 102	35.654 77	78.06 292	47.958 15	2.69 29
	52	77	52	78	129	264	42	45
26.9	20.857	17.13	37.894	34.57	35.525	80.70	47.916	3.14
11 5.9	20.782 75	17.99 86	37.818 76	35.10 53	35.349 176	83.01 231	47.850 66	3.72 58
15.8	20.690 92	18.89 90	37.724 94	35.38 28	35.133 216	84.92 191	47.765 85	4.40 68
25.8	20.584 106	19.80 91	37.614 110	35.41 3	34.882 251	86.39 147	47.667 98	5.14 74
12 5.8	20.470 114	20.67 87	37.494 120	35.20 21	34.603 279	87.37 98	47.559 108	5.91 77
	117	81	127	46	299	46	113	77
15.8	20.353	21.48	37.367	34.74	34.304	87.83	47.446	6.68
25.7	20.236 117	22.18 70	37.238 129	34.07 67	33.994 310	87.75 8	47.331 115	7.43 75
35.7	20.124 112	22.78 60	37.111 127	33.18 89	33.681 313	87.13 62	47.219 112	8.13 70
平位	s 18.251	″ 32.80	s 35.030	″ 13.39	s 31.430	″ 56.35	s 45.267	″ 19.94
2回正中	9月19日		9月20日		9月20日		9月21日	
a b	+ 0.1540	− 0.0121	+ 0,1523	+ 0.0227	+ 0.1495	+ 0.1033	+ 0.1534	− 0.0045
a′ b′	+ 0.9985	+ 0.0554	+ 0.9990	+ 0.0454	+ 0.9993	+ 0.0370	+ 0.9998	+ 0.0185
FK3番號	897		898		899		900	

本初子午線正中時

星名	π Phoe		ω Pisc		ε Tucn		ϑ Octn	
等級 スペクトル型	5.14	K0	4.03	F5	4.71	B9	4.73	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 55	° ′ −53 3	h m 23 56	° ′ + 6 32	h m 23 56	° ′ −65 53	h m 23 58	° ′ −77 22
	s	″	s	″	s	″	s	″
1 0.7	57.311	71.45	22.209	49.41	55.789	61.56	37.734	72.35
10.7	57.071 240	70.86 59	22.094 115	48.57 84	55.390 399	60.61 95	36.899 835	71.09 126
20.7	56.853 218	69 78 108	21.987 107	47.71 86	55.027 363	59.11 150	36.135 764	69.27 182
30.6	56.664 189	68.23 155	21.892 95	46.85 86	54.709 318	57.11 200	35.465 670	66.94 233
2 9.6	56.508 156	66.28 195	21.812 80	46.04 81	54.448 261	54.68 243	34.905 560	64.17 277
	115	233	58	72	199	282	434	314
19.6	56.393	63.95	21.754	45.32	54.249	51.86	34.471	61.03
3 1.6	56.323 70	61.32 263	21.722 32	44.73 59	54.120 129	48.75 311	34.174 297	57.61 342
11.5	56.303 20	58.43 289	21.721 1	44.31 42	54.065 55	45.40 335	34.020 154	53.98 363
21.5	56.337 34	55.35 308	21.755 34	44.11 20	54.090 25	41.91 349	34.015 5	50.24 374
31.5	56.426 89	52.16 319	21.827 72	44.15 4	54.196 106	38.34 357	34.161 146	46.48 376
	147	326	112	31	189	358	297	372
4 10.5	56.573	48.90	21.939	44.46	54.385	34.76	34.458	42.76
20.4	56.779 206	45.65 325	22.092 153	45.06 60	54.655 270	31.27 349	34.901 443	39.17 359
30.4	57.039 260	42.49 316	22.282 190	45.94 88	55.003 348	27.93 334	35.484 583	35.79 338
5 10.4	57.352 313	39.47 302	22.508 226	47.09 115	55.424 421	24.81 312	36.195 711	32.68 311
20.3	57.711 359	36.67 280	22.765 257	48.50 141	55.909 485	21.99 282	37.021 826	29.93 275
	398	251	281	163	539	246	921	234
30.3	58.109	34.16	23.046	50.13	56.448	19.53	37.94	27.59
6 9.3	58.536 427	31.98 218	23.345 299	51.93 180	57.030 582	17.49 204	38.942 998	25.72 187
19.3	58.982 446	30.20 178	23.653 308	53.87 194	57.639 609	15.91 158	39.980 1048	24.35 137
29.2	59.435 453	28.87 133	23.962 309	55.88 201	58.259 620	14.85 106	41.068 1073	23.53 82
7 9.2	59.884 449	28.00 87	24.264 302	57.91 203	58.876 617	14.31 54	42.121 1068	23.27 26
	432	36	288	201	595	1	1034	31
19.2	60.316	27.64	24.552	59.92	59.471	14.32	43.163	23.58
29.2	60.719 403	27.78 14	24.817 265	61.85 193	60.028 557	14.88 56	44.135 972	24.45 87
8 8.1	61.083 364	28.42 64	25.054 237	63.65 180	60.531 503	15.96 108	45.013 878	25.86 141
18.1	61.398 315	29.52 110	25.258 204	65.29 164	60.967 436	17.53 157	45.774 761	27.75 189
28.1	61.656 258	31.06 154	25.425 167	66.73 144	61.322 355	19.53 200	46.393 619	30.06 231
	195	191	130	123	267	237	458	267
9 7.0	61.851	32.97	25.555	67.96	61.589	21.90	46.851	32.73
17.0	61.980 129	35.18 221	25.646 91	68.96 100	61.759 170	24.55 265	47.132 281	35.64 291
26.9	62.043 63	37.61 243	25.699 53	69.73 77	61.831 72	27.38 283	47.230 98	38.70 306
10 6.9	62.040 3	40.15 254	25.718 19	70.27 54	61.805 26	30.28 290	47.144 86	41.79 309
16.9	61.977 63	42.71 256	25.704 14	70.58 31	61.687 118	33.14 286	46.880 264	44.79 300
	118	246	41	12	203	270	431	279
26.9	61.859	45.17	25.663	70.70	61.484	35.84	46.449	47.58
11 5.9	61.693 166	47.45 228	25.599 64	70.62 8	61.206 278	38.28 244	45.871 578	50.05 247
15.9	61.490 203	49.44 199	25.516 83	70.37 25	60.869 337	40.35 207	45.171 700	52.10 205
25.8	61.260 230	51.07 163	25.419 97	69.98 39	60.486 383	41.98 163	44.376 795	53.63 153
12 5.8	61.011 249	52.27 120	25.312 107	69.45 53	60.073 413	43.09 111	43.517 859	54.60 97
	257	73	114	64	427	55	889	35
15.8	60.754	53.00	25.198	68.81	59.646	43.64	42.628	54.95
25.7	60.499 255	53.22 22	25.082 116	68.09 72	59.221 425	43.60 4	41.739 889	54.68 27
35.7	60.253 246	52.93 29	24.967 115	67.29 80	58.811 410	42.99 61	40.879 860	53.79 89
平位	s 58.992	″ 51.09	s 22.928	″ 51.92	s 58.140	″ 39.12	s 41.755	″ 48.80
2回正中	9月21日		9月21日		9月21日		9月22日	
a b	+ 0.1549	− 0.0887	+ 0.1532	+ 0.0077	+ 0.1553	− 0.1490	+ 0.1550	− 0.2978
a′ b′	+ 0.9998	+ 0.0175	+ 0.9999	+ 0.0158	+ 0.9999	+ 0.0132	+ 0.0000	+ 0.0057
FK3番號	901		902		903		904	

本初子午線正中時

星名	2 Ceti											
等級 スペクトル型	4.62		A0									
世界時	赤經		赤緯									
月 日	h m 0 0		° ′ −17 38									
	s		″									
1 0.7	48.287	120	82.57	40								
10.7	48.167	112	82.97	17								
20.7	48.055	98	83.14	6								
30.6	47.957	81	83.08	31								
2 9.6	47.876	59	82.77	54								
19.6	47.817	33	82.23	80								
3 1.6	47.784	2	81.43	104								
11.5	47.782	32	80.39	128								
21.5	47.814	70	79.11	150								
31.5	47.884	111	77.61	171								
4 10.5	47.995	150	75.90	189								
20.4	48.145	190	74.01	205								
30.4	48.335	227	71.96	215								
5 10.4	48.562	258	69.81	221								
20.3	48.820	285	67.60	222								
30.3	49.105	305	65.38	217								
6 9.3	49.410	317	63.21	208								
19.3	49.727	320	61.13	191								
29.2	50.047	315	59.22	170								
7 9.2	50.362	301	57.52	145								
19.2	50.663	281	56.07	117								
29.2	50.944	252	54.90	85								
8 8.1	51.196	219	54.05	53								
18.1	51.415	181	53.52	19								
28.1	51.596	140	53.33	13								
9 7.0	51.736	99	53.46	42								
17.0	51.835	59	53.88	68								
26.9	51.894	20	54.56	90								
10 6.9	51.914	15	55.46	106								
16.9	51.899	46	56.52	117								
26.9	51.853	71	57.69	121								
11 5.9	51.782	92	58.90	121								
15.9	51.690	107	60.11	115								
25.8	51.583	117	61.26	103								
12 5.8	51.466	123	62.29	90								
15.8	51.343		63.19									
25.7	51.219	124	63.90	71								
35.7	51.097	122	64.42	52								
平位	s 49.240		″ 71.59									
2回正中	9月21日											
a b	+ 0.1533		− 0.0212									
a′ b′	+ 1.0000		+ 0.0036									
FK3番號	905											

世界時	赤經	赤緯	短週期項		世界時	赤經	赤緯	短週期項	
月 日	h m 1 0	° ′ +85 57			月 日	h m 1 0	° ′ +85 56		
	s	″	s	″		s	″	s	″
1 0.77	42.13	23.43	− 0.08	− 0.06	3 1.60	25.69	77.43	+ 0.07	− 0.03
1.76	41.83	23.52	6	9	2.60	25.51	77.17	7	+ 1
2.76	41.52	23.59	− 3	10	3.60	25.33	76.91	6	5
3.76	41.22	23.66	+ 1	9	4.59	25.16	76.64	+ 3	7
4.75	40.91	23.73	5	6	5.59	24.99	76.37	− 1	8
5.75	40.61	23.78	+ 7	− 2	6.59	24.82	76.09	− 4	+ 7
6.75	40.30	23.83	8	+ 2	7.59	24.67	75.82	6	4
7.75	40.00	23.88	7	6	8.58	24.51	75.53	7	+ 1
8.74	39.70	23.92	+ 4	9	9.58	24.36	75.25	6	− 2
9.74	39.40	23.95	0	9	10.58	24.22	74.97	4	4
10.74	39.10	23.97	− 3	+ 8	11.57	24.08	74.68	− 1	− 5
11.74	38.80	23.99	6	6	12.57	23.95	74.39	+ 2	4
12.73	38.49	24.00	7	+ 2	13.57	23.82	74.09	5	3
13.73	38.18	24.01	6	− 1	14.57	23.70	73.80	7	− 1
14.73	37.87	24.01	4	3	15.56	23.59	73.50	7	+ 1
15.72	37.57	24.00	− 1	− 4	16.56	23.48	73.20	+ 7	+ 3
16.72	37.26	23.99	+ 2	4	17.56	23.37	72.90	5	5
17.72	36.95	23.97	4	3	18.56	23.28	72.60	+ 2	6
18.72	36.65	23.94	6	− 2	19.55	23.18	72.29	− 1	5
19.71	36.34	23.90	7	0	20.55	23.10	71.98	4	4
20.71	36.04	23.86	+ 6	+ 2	21.55	23.01	71.68	− 6	+ 2
21.71	35.74	23.82	5	4	22.54	22.94	71.37	8	− 1
22.71	35.43	23.76	+ 3	5	23.54	22.87	71.06	8	4
23.70	35.13	23.70	0	5	24.54	22.80	70.75	6	7
24.70	34.83	23.64	− 3	4	25.54	22.75	70.43	− 3	8
25.70	34.53	23.53	− 6	+ 2	26.53	22.69	70.12	0	− 8
26.69	34.23	23.48	8	− 1	27.53	22.65	69.81	+ 4	7
27.69	33.94	23 40	8	4	28.53	22.61	69.49	6	− 4
28.69	33.64	23.31	7	7	29.53	22.57	69.18	8	0
29.69	33.35	23.21	5	9	30.52	22.54	68.87	7	+ 4
30.68	33.06	23.10	− 1	− 10	31.52	22.52	68.55	+ 4	+ 7
31.68	32.77	22.99	+ 3	8	4 1.52	22.50	68.24	+ 1	8
2 1.68	32.48	22.88	6	5	2.51	22.49	67.92	− 3	7
2.68	32.20	22.76	8	− 1	3.51	22.49	67.61	6	5
3.67	31.91	22.63	7	+ 4	4.51	22.49	67.29	7	+ 2
4.67	31.63	22.49	+ 5	+ 7	5.51	22.50	66.98	− 7	− 1
5.67	31.35	22.35	+ 2	9	6.50	22.51	66.67	5	3
6.66	31.08	22.21	− 2	8	7.50	22.53	66.35	− 3	5
7.66	30.81	22.06	5	7	8.50	22.55	66.04	+ 1	5
8.66	30.54	21.90	7	+ 4	9.50	22.58	65.73	4	4
9.66	30.27	21.74	− 7	0	10.49	22.62	65.42	+ 6	− 2
10.65	30.00	21.57	5	− 2	11.49	22.66	65.11	7	0
11.65	29.74	21.40	− 2	4	12.49	22.70	64.81	7	+ 2
12.65	29.49	21.22	+ 1	4	13.48	22.76	64.50	6	4
13.65	29.23	21.03	4	4	14.48	22.82	64.20	4	5
14.64	28.98	20.84	+ 6	− 2	15.48	22.88	63.89	+ 1	+ 6
15.64	28.73	20.65	7	0	16.48	22.95	63.59	− 3	5
16.64	28.49	20.45	7	+ 2	17.47	23.03	63.30	5	+ 3
17.63	28.25	20.24	6	4	18.47	23.11	63.00	7	0
18.63	28.01	20.03	4	5	19.47	23.19	62.70	8	− 3
19.63	27.78	19.82	+ 1	+ 5	20.47	23.29	62.41	− 7	− 6
20.63	27.55	19.60	− 2	5	21.46	23.38	62.12	5	8
21.62	27.33	19.38	5	3	22.46	23.49	61.83	− 1	8
22.62	27.11	19.15	7	+ 1	23.46	23.60	61.55	+ 3	7
23.62	26.89	18.91	8	− 3	24.45	23.71	61.27	6	4
24.62	26.68	18.68	− 8	− 6	25.45	23.83	60.99	+ 8	− 1
25.61	26.47	18.44	6	8	26.45	23.95	60.71	8	+ 3
26.61	26.27	18.19	− 2	9	27.45	24.08	60.44	6	6
27.61	26.07	17.94	+ 1	9	28.44	24.22	60.16	+ 3	8
28.60	25.88	17.69	5	6	29.44	24.36	59.90	− 1	8
3 1.60	25.69	17.43	+ 0.07	− 0.03	30.44	24.50	59.63	− 4	+ 6
					5 1.44	24.65	59.37	− 0.07	+ 0.03

世界時	赤 經	赤 緯	短週期項		世界時	赤 經	赤 緯	短週期項	
月 日	h m 1 0	° ′ +85 56	s	″	月 日	h m 1 0	° ′ +85 55	s	″
5 1.44	24.65	59.37	−0.07	+0.03	7 1.27	40.25	52.11	+0.06	−0.02
2.43	24.81	59.11	7	0	2.27	40.56	52.16	7	0
3.43	24.97	58.86	6	− 3	3.26	40.87	52.21	7	+ 2
4.43	25.13	58.61	4	4	4.26	41.17	52.26	6	4
5.42	25.30	58.36	− 1	5	5.26	41.48	52.33	4	5
6.42	25.47	58.12	+ 2	− 5	6.26	41.79	52.40	+ 1	+ 5
7.42	25.65	57.88	5	3	7.25	42.10	52.47	− 2	5
8.42	25.83	57.64	7	− 1	8.25	42.41	52.55	5	+ 3
9.41	26.02	57.41	7	+ 1	9.25	42.72	52.63	7	0
10.41	26.21	57.18	6	3	10.24	43.02	52.72	9	− 3
11.41	26.41	56.95	+ 5	+ 5	11.24	43.33	52.82	− 8	− 7
12.41	26.61	56.73	+ 2	6	12.24	43.64	52.92	6	9
13.40	26.81	56.52	− 1	5	13.24	43.94	53.02	− 3	10
14.40	27.02	56.31	4	3	14.23	44.25	53.13	+ 1	9
15.40	27.23	56.10	7	+ 1	15.23	44.55	53.25	5	7
16.39	27.45	55.90	− 8	− 2	16.23	44.85	53.37	+ 7	− 3
17.39	27.67	55.70	8	5	17.23	45.15	53.50	8	+ 2
18.39	27.89	55.51	6	8	18.22	45.45	53.63	7	6
19.39	28.12	55.32	− 3	9	19.22	45.75	53.77	+ 4	8
20.38	28.35	55.13	+ 1	8	20.22	46.05	53.91	0	9
21.38	28.58	54.95	+ 5	− 6	21.21	46.34	54.06	− 4	+ 8
22.38	28.82	54.78	7	− 2	22.21	46.64	54.21	6	5
23.38	29.06	54.61	8	+ 2	23.21	46.93	54.37	7	+ 2
24.37	29.31	54.44	7	6	24.21	47.23	54.53	6	− 1
25.37	29.56	54.28	+ 4	8	25.20	47.52	54.70	4	3
26.37	29.81	54.13	0	+ 9	26.20	47.80	54.87	− 1	− 4
27.36	30.06	53.98	− 3	8	27.20	48.09	55.05	+ 3	4
28.36	30.32	53.83	6	5	28.20	48.38	55.23	5	− 2
29.36	30.58	53.69	7	+ 2	29.19	48.66	55.42	7	0
30.36	30.84	53.56	7	− 1	30.19	48.94	55.61	7	+ 2
31.35	31.11	53.43	− 5	− 4	31.19	49.22	55.81	+ 7	+ 4
6 1.35	31.38	53.31	− 2	5	8 1.18	49.50	56.01	5	5
2.35	31.65	53.19	+ 1	5	2.18	49.78	56.21	+ 2	6
3.35	31.92	53.07	4	4	3.18	50.05	56.42	− 1	5
4.34	32.20	52.96	6	− 2	4.18	50.32	56.64	4	4
5.34	32.48	52.86	+ 7	0	5.17	50.59	56.86	− 6	+ 2
6.34	32.76	52.76	7	+ 3	6.17	50.85	57.08	8	− 2
7.33	33.04	52.67	5	4	7.17	51.12	57.31	8	5
8.33	33.32	52.58	+ 3	5	8.17	51.38	57.54	7	8
9.33	33.61	52.50	0	5	9.16	51.64	57.78	4	10
10.33	33.90	52.43	− 3	+ 4	10.16	51.90	58.02	− 1	− 10
11.32	34.19	52.36	6	+ 2	11.16	52.15	58.26	+ 3	9
12.32	34.48	52.29	8	− 1	12.15	52.40	58.51	6	5
13.32	34.77	52.23	9	5	13.15	52.65	58.76	8	− 1
14.32	35.07	52.18	7	8	14.15	52.90	59.02	7	+ 3
15.31	35.37	52.13	− 5	− 9	15.15	53.14	59.28	+ 5	+ 7
16.31	35.66	52.09	− 1	9	16.14	53.38	59.54	+ 1	8
17.31	35.96	52.05	+ 3	8	17.14	53.62	59.81	− 2	8
18.30	36.26	52.02	6	− 4	18.14	53.85	60.09	6	6
19.30	36.57	51.99	8	0	19.14	54.08	60.36	7	+ 3
20.30	36.87	51.97	+ 8	+ 4	20.13	54.31	60.64	− 7	0
21.30	37.17	51.95	6	7	21.13	54.54	60.92	5	− 3
22.29	37.48	51.94	+ 2	9	22.13	54.76	61.21	− 2	4
23.29	37.78	51.94	− 2	9	23.12	54.98	61.50	+ 1	4
24.29	38.09	51.94	5	7	24.12	55.19	61.80	4	3
25.29	38.40	51.95	− 7	+ 4	25.12	55.41	62.09	+ 7	− 1
26.28	38.70	51.96	7	0	26.12	55.62	62.39	8	+ 2
27.28	39.01	51.98	5	− 2	27.11	55.82	62.70	7	4
28.28	39.32	52.01	− 3	4	28.11	56.02	63.00	6	5
29.27	39.63	52.03	0	5	29.11	56.22	63.32	3	6
30.27	39.94	52.07	+ 3	− 4	30.10	56.42	63.63	+ 1	+ 6
7 1.27	40.25	52.11	+0.06	−0.02	31.10	56.61	63.95	− 2	5
					9 1.10	56.80	64.26	−0.05	+0.03

世界時	赤 經	赤 緯	短週期項		世界時	赤 經	赤 緯	短週期項	
月 日	h m 1 0	° ′ +85 57	s	″	月 日	h m 1 0	° ′ +85 57	s	″
9 1.10	55.80	4.26	−0.05	+0.03	11 1.93	60.26	26.86	+0.06	−0.05
2.10	56.98	4.59	7	0	2.93	60.17	27.21	8	− 1
3.09	57.16	4.91	8	− 3	3.92	60.08	27.57	8	+ 3
4.09	57.34	5.24	7	6	4.92	59.98	27.92	6	6
5.09	57.51	5.57	5	9	5.92	59.88	28.27	+ 2	7
6.09	57.68	5.90	− 2	− 10	6.92	59.77	28.62	− 2	+ 7
7.08	57.85	6.24	+ 2	9	7.91	59.66	28.96	5	6
8.08	58.01	6.58	5	7	8.91	59.54	29.31	7	+ 3
9.08	58.17	6.92	7	− 3	9.91	59.42	29.65	8	− 1
10.07	58.32	7.26	8	+ 1	10.91	59.29	29.98	6	3
11.07	58.47	7.61	+ 6	+ 5	11.90	59.16	30.32	− 4	− 5
12.07	58.62	7.95	+ 3	7	12.90	59.03	30.65	0	5
13.07	58.76	8.30	− 1	8	13.90	58.89	30.98	+ 3	4
14.06	58.90	8.65	5	6	14.89	58.75	31.30	6	− 2
15.06	59.03	9.01	7	4	15.89	58.60	31.63	8	+ 1
16.06	59.17	9.36	− 8	+ 1	16.89	58.44	31.95	+ 8	+ 3
17.06	59.29	9.72	6	− 2	17.89	58.29	32.26	6	5
18.05	59.41	10.08	− 4	4	18.88	58.13	32.58	4	6
19.05	59.53	10.44	0	5	19.88	57.96	32.88	+ 1	7
20.05	59.65	10.80	+ 3	4	20.88	57.79	33.19	− 2	6
21.04	59.75	11.17	+ 6	− 2	21.88	57.61	33.49	− 5	+ 3
22.04	59.86	11.53	8	+ 1	22.87	57.44	33.79	7	0
23.04	59.93	11.90	8	3	23.87	57.25	34.03	8	− 3
24.04	60.03	12.27	7	5	24.87	57.06	34.37	8	6
25.03	60.15	12.64	5	6	25.86	56.87	34.66	6	8
26.03	60.24	13.01	+ 2	+ 7	26.86	56.68	34.94	− 2	− 9
27.03	60.32	13.38	− 1	6	27.86	56.48	35.22	+ 2	9
28.03	60.40	13.76	4	4	28.86	56.27	35.50	5	6
29.02	60.47	14.13	6	+ 1	29.85	56.06	35.77	8	− 3
30.02	60.54	14.51	8	− 2	30.85	55.85	36.03	8	+ 1
10 1.02	60.61	14.88	− 8	− 5	12 1.85	55.64	36.29	+ 7	+ 5
2.01	60.67	15.25	6	8	2.85	55.42	36.55	+ 4	8
3.01	60.72	15.63	− 3	9	3.84	55.20	36.80	0	8
4.01	60.78	16.01	0	9	4.84	54.97	37.04	− 4	7
5.01	60.82	16.39	+ 4	7	5.84	54.74	37.29	6	4
6.00	60.87	16.77	+ 7	− 4	6.83	54.50	37.52	− 8	+ 1
7.00	60.90	17.15	8	0	7.83	54.27	37.76	7	− 2
7.99	60.94	17.53	7	+ 3	8.83	54.03	37.98	5	4
8.99	60.97	17.91	4	6	9.83	53.78	38.20	− 1	5
9.99	60.99	18.29	+ 1	7	10.82	53.54	38.42	+ 2	5
10.99	61.01	18.67	− 3	+ 7	11.82	53.28	38.63	+ 5	− 3
11.99	61.03	19.05	6	5	12.82	53.03	38.84	7	− 1
12.98	61.04	19.43	8	+ 1	13.82	52.77	39.04	8	+ 2
13.98	61.05	19.80	7	− 2	14.81	52.51	39.23	7	4
14.98	61.05	20.18	5	4	15.81	52.25	39.42	5	6
15.98	61.04	20.56	− 2	− 5	16.81	51.99	39.61	+ 2	+ 7
16.97	61.04	20.94	+ 2	5	17.80	51.72	39.78	− 1	6
17.97	61.02	21.32	5	3	18.80	51.45	39.96	4	4
18.97	61.01	21.70	7	− 1	19.80	51.17	40.12	7	+ 2
19.97	60.98	22.07	8	+ 2	20.80	50.89	40.28	8	− 2
20.96	60.96	22.45	+ 7	+ 4	21.79	50.62	40.44	− 8	− 5
21.96	60.92	22.82	6	6	22.79	50.33	40.59	7	8
22.96	60.89	23.19	+ 3	7	23.79	50.05	40.73	− 4	10
23.95	60.85	23.57	0	6	24.79	49.76	40.87	0	10
24.95	60.80	23.94	− 3	5	25.78	49.48	41.00	+ 4	8
25.95	60.75	24.31	− 6	+ 2	26.78	49.19	41.12	+ 7	− 5
26.95	60.69	24.68	8	− 1	27.78	48.89	41.24	8	− 1
27.94	60.63	25.05	8	4	28.77	48.60	41.35	8	+ 4
28.94	60.57	25.41	7	7	29.77	48.30	41.46	5	7
29.94	60.50	25.78	4	9	30.77	48.01	41.56	+ 2	9
30.94	60.42	26.14	− 1	− 9	31.77	47.71	41.65	− 2	+ 8
31.93	60.34	26.50	+ 3	8	12 32.76	47.41	41.74	−0.05	+0.06
11 1.93	60.26	26.86	+0.06	−0.05					