

書誌第683号

昭和24年
1949

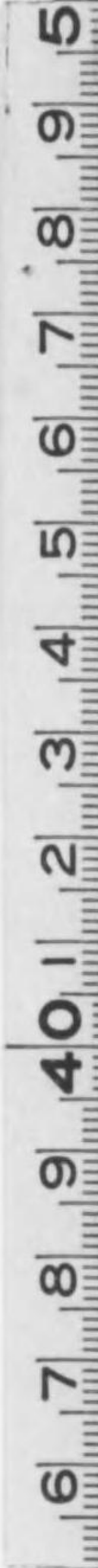
天測略曆
ABRIDGED NAUTICAL ALMANAC

航海曆は都合により自分の間休刊して、その一部を本曆末尾に付加してある。本曆は夏時間を使用しない。



水路局

HYDROGRAPHIC BUREAU, JAPAN

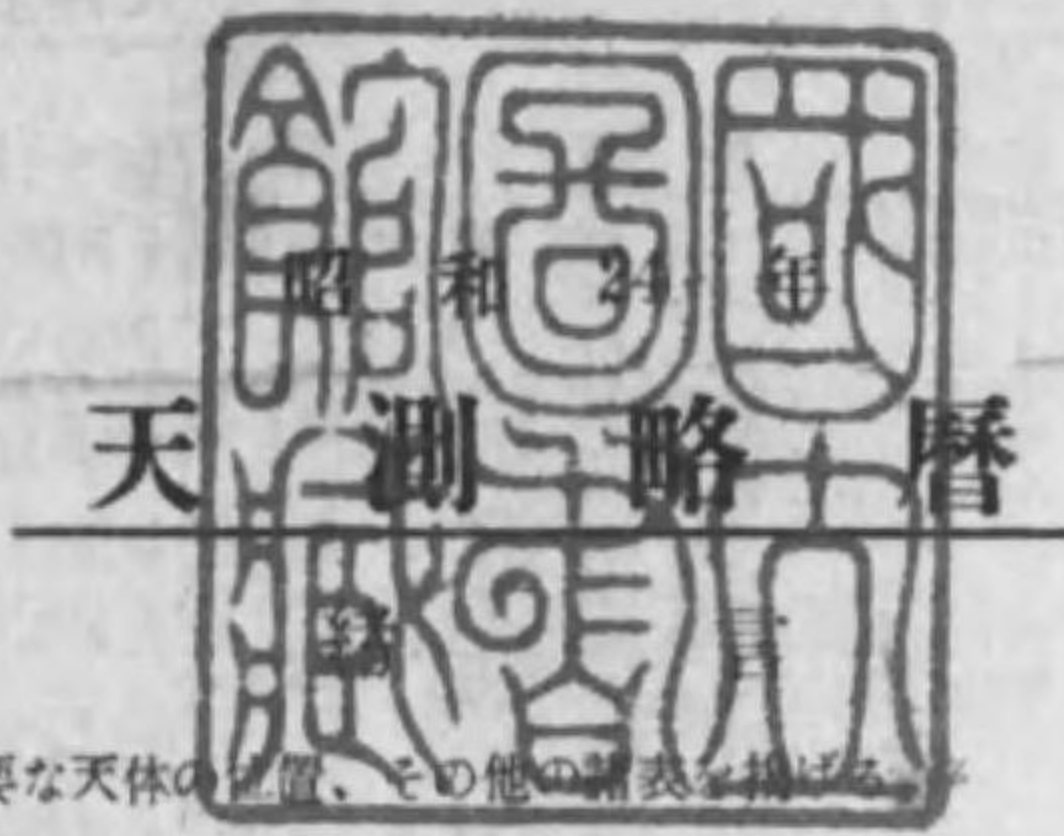


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書誌第 683 号



本曆は船舶の天測に必要な天体の位置、その他の諸表を掲げ、本曆の内容に関して特記したい点は次の通りである。

1. 時刻は日本標準時 T (正子を 0^h とし 24^h まで通算する) を用いる。
 2. 表掲数値の精度は弧は分まで、時は秒に止める。但し月の場合には所掲の比例部分を使えば最大 $3'$ 又は $15''$ の誤差を生ずることがある。
 3. E_t, E_p, E_s 等の補間は各その比例部分の欄において観測時に近い T に対する値を取ればよい。
 4. 精算したい場合には添附の比例部分表を使うこと。
 5. 月の d の補間はその日の直下にある比例部分を用い太陽、惑星はその差が小さいから目算で求める。恒星の d は変化しない。
 6. $h = T + E$ によつて與えられる時角は本初子午線における値である。これに所在経度を加減すれば地方時角が得られる。
- 昭和 23 年天測略曆に比較して改めた点は次の如くである。
- (1) 日出没時表を改編して、左頁に日出時、右頁に日没時を配し、その下方に薄明時間表を掲載した。
 - (2) 月出没時表を改編して、左頁に月出時、右頁に月没時を配した。

下記正誤表によつてすぐに本文を訂正して下さい。

昭和 24 年 天測略曆 正誤表

頁	索 引	誤	正
6	太陽, E_s , 1月12日 12 ^h	h 51 ^m 46 ^s	2h 51 ^m 46 ^s
32	月出, 3月3日	8h 29 ^m	8h 3 ^m
51	E_p , No. 37 カノプス, 4月10日	21h 37 ^m 17 ^s	21h 47 ^m 17 ^s
"	" No. 39 アカーナー,	2h 44 ^m 17 ^s	2h 34 ^m 17 ^s
109	Ro, 8月2日	11h 36 ^m 33 ^s	11h 39 ^m 33 ^s
155	E_s , No. 12 デネブ 11月1日	22h 58 ^m 37 ^s	20h 58 ^m 37 ^s
171	E_s , No. 23 レグルス 12月5日	6h 46 ^m 40 ^s	9h 46 ^m 40 ^s
183 185	E_s , No. 18 アルクトゥルス 27日~32日	22h	7h
218	第5項 4行目	不 明	$h = h_G \pm L$

昭和 23 年 5 月



水 路 局

發行者寄贈本

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天体表の内容

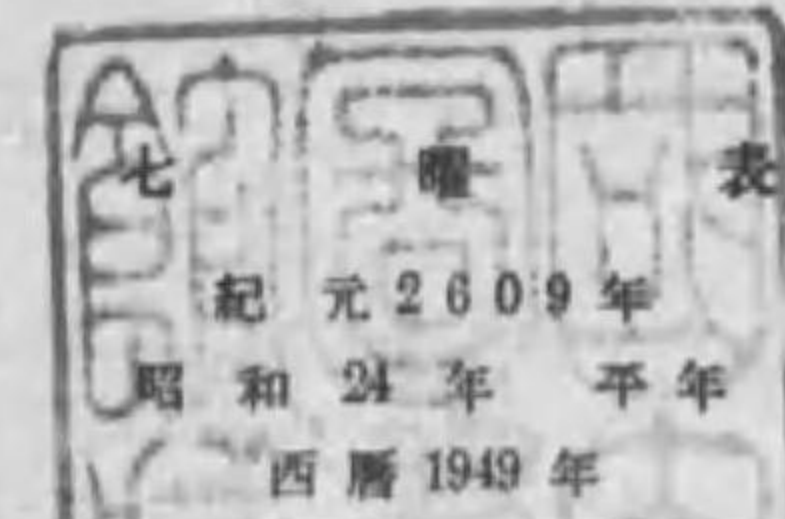
◎ 太陽	E_s, d 毎2時値 4日間平均の拂曉, 日出, 正中 日没, 黄昏時及視半径
☾ 月	E_s, d 毎時値及其の比例部分 各正午における地平視差, 視半径 月齢及月出, 正中, 月没時
☾ 月	E_p, d 毎4時値及 E_p 比例部分 4日間平均の光度, 赤経, 正中時 観測時, 高度, 方位
✳ 恒星	著名恒星 29 個の光度, E_s 毎日 0^h の値 4日間平均の d 及 E_s 比例部分 北極星緯度表, 毎日 0^h における $135^\circ E$ の R_s
☾ 月	毎日の表掲記の恒星光度, 年初 の R.A. 及 d 毎月 1 日における正中時
☾ 月	補助恒星平 位及正中時 光度, 年初の平位 毎月 1 日における正中時

略語記号及算式

平地日本標準時	M.T.	太陽	☉
地方平時	P.M.T.	恒星	☾
経緯度	T (C.S.T.)	金星	☿
赤緯	R.A.	火星	♂
経緯度	d (Dec.)	木星	♃
時角	l (Lat.)	土星	♄
本初子午線における時角	L (Long.)		
時差	h (H.A.)		
経緯差	時角 h_0		
視半径	E.T.		
地平視度	D.L (D.Long.)		
光	D.L in T. (D.Long. in T.)		
	S.D.		
	π (H.P.)		
	Mag.		
	E		
	W		
	S		
	N		

$E_s = +E.T. + 3^h$	$E_s = R - R.A. + (24^h)$
$E_p = R - R.A. + (24^h)$	$E_s = R - R.A. + (24^h)$
$R = -21^h + R.A.M.S. + (24^h)$	

$h_0 = T(C.S.T.) + E$	
$h_0 \odot = T + E_s$	
$h_0 \ominus = T + E_s$	
$h_0 \oplus = T + E_p$	
$h_0 \times = T + E_s$	
$h = h_0 \pm L$	東経+, 西経-



年	日	月	火	水	木	金	土			
1	1	2	3	4	5	6	7			
	8	9	10	11	12	13	14			
	15	16	17	18	19	20	21			
	2	22	23	24	25	26	27	28		
		29	30	31						
		1	2	3	4	5	6	7		
		8	9	10	11	12	13	14		
		15	16	17	18	19	20	21		
		22	23	24	25	26	27	28		
		29	30	31						
		3	1	2	3	4	5	6	7	
			8	9	10	11	12	13	14	
			15	16	17	18	19	20	21	
			22	23	24	25	26	27	28	
			29	30	31					
			1	2	3	4	5	6	7	
			8	9	10	11	12	13	14	
			15	16	17	18	19	20	21	
			22	23	24	25	26	27	28	
			29	30	31					
			4	1	2	3	4	5	6	7
				8	9	10	11	12	13	14
				15	16	17	18	19	20	21
				22	23	24	25	26	27	28
				29	30	31				
				1	2	3	4	5	6	7
				8	9	10	11	12	13	14
				15	16	17	18	19	20	21
				22	23	24	25	26	27	28
				29	30	31				

日本紀元西暦対照表

年号	皇紀	西暦	年号	皇紀	西暦	年号	皇紀	西暦	年号	皇紀	西暦
明治元年	2528年	1865年	明治30年	2660年	1900年	大正10年	2581年	1921年	昭和11年	2596年	1936年
3	2530	1870	35	2562	1902	11	2582	1922	12	2597	1937
5	2532	1872	37	2564	1904	12	2583	1923	13	2598	1938
7	2534	1874	39	2566	1906	13	2584	1924	14	2599	1939
9	2536	1876	41	2568	1908	14	2585	1925	15	2600	1940
11	2538	1878	43	2570	1910	大正15	2586	1926	16	2601	1941
15	2540	1880	明治45	2572	1912	昭和元			17	2602	1942
16	2542	1882	大正元			2	2587	1927	18	2603	1943
17	2544	1884	2	2573	1913	3	2588	1928	19	2604	1944
19	2546	1886	3	2574	1914	4	2589	1929	20	2605	1945
21	2548	1888	4	2575	1915	5	2590	1930	21	2606	1946
22	2550	1890	5	2576	1916	6	2591	1931	22	2607	1947
25	2552	1892	6	2577	1917	7	2592	1932	23	2608	1948
27	2554	1894	7	2578	1918	8	2593	1933	昭和24年	2609年	1949年
29	2556	1896	8	2579	1919	9	2594	1934			
明治31年	2558年	1898年	大正9年	2580年	1920年	昭和10年	2595年	1935年			

Table with columns for day (天), body (体), and astronomical data (E0, d) for days 1-4. Includes a small table for 比例部分.

l = 35°N
L = 135°E

神 鳴 5 38

日 出 7 9

正 中 12 4

日 没 17 0

黄 昏 18 30

観 平 洋 16.3

Table with columns for T, E0, d, and 比例部分. Includes a small table for 比例部分 at the bottom.

Table with columns for 月 前, 月 出, 正 中, 日 没, 赤 経, 正 中 時, 観 測 時, 高 度, 方 位. Includes a small table for 比例部分.

Table with columns for day (天), body (体), and astronomical data (E0, d) for days 1-4. Includes a small table for 比例部分.

Table with columns for No., 星 名, 星 光 度, E0 (T=0°の値), d, and 比例部分. Lists various stars and their data.

Table with columns for day (5, 6, 7, 8), time (E, d), and astronomical data (l = 35°N, L = 135°E). Includes sunrise and sunset times.

Table with columns for time (T), ecliptic longitude (E), and distance (d). Includes a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for ecliptic longitude (E), ecliptic latitude (d), and astronomical data. Includes a section for '北緯' (Northern Latitude) with columns for hour angle (h) and distance (d).

Table with columns for day (5, 6, 7, 8), time (E, d), and astronomical data. Includes sunrise and sunset times.

Table with columns for star name (No.), ecliptic longitude (E), ecliptic latitude (d), and astronomical data. Lists stars like 北極星 (Polaris), Vega, etc.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9, 10, 11, and 12. Includes a small table for 比例部分.

Table with columns for time (時), astronomical data (E, d), and 比例部分. Includes a small table for 比例部分 at the bottom.

Table with columns for astronomical data (h, m, s) and 比例部分. Includes a small table for 比例部分 at the bottom.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9, 10, 11, and 12. Includes a small table for 比例部分.

Table with columns for No., 氷, 星, 光度, E, d, and 比例部分. Lists various stars and their properties.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 13, 14, 15, and 16. Includes coordinates l=35°N, L=135°E.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for astronomical data (E, d) and a '北緯' (Northern Latitude) section with columns for time (時) and position (方位).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 13, 14, 15, and 16. Includes coordinates l=35°N, L=135°E.

Table with columns for star name (No. 星名), magnitude (光度), and astronomical data (E, d) for days 13, 14, 15, and 16. Includes a '比例部分' (Proportion) section.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 17, 18, 19, and 20. Includes a small table for 比例部分.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 0 through 23. Includes a small table for 比例部分.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 17, 18, 19, and 20. Includes a small table for 比例部分.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 17, 18, 19, and 20. Includes a small table for 比例部分.

Table with columns for No., star name (恒星), magnitude (光度), and astronomical data (E, d) for various stars. Includes a small table for 比例部分.

Table with columns for day (21-24), time (E, d), and astronomical data for various celestial bodies.

l = 35°N
L = 135°E

拂曉 5 37
日出 7 6
正中 12 11
日没 17 17
黄昏 18 47
観中夜 16.3

Table with columns for day (0-23), time (E, d), and astronomical data for various celestial bodies.

比例部分

Table with columns for T, E, and astronomical data for various celestial bodies.

Table with columns for day (21-24), time (h, m, s), and astronomical data for various celestial bodies.

Table with columns for celestial body, time, and astronomical data for various celestial bodies.

Table with columns for day (21-24), time (E, d), and astronomical data for various celestial bodies.

比例部分

Table with columns for T, E, and astronomical data for various celestial bodies.

Table with columns for No., 氷, 恒, 星, 光度, E, d, and astronomical data for various celestial bodies.

Table with columns for day (25, 26, 27, 28), time (E, d), and astronomical data (h, m, s, o). Includes a small table for l=35°N, l=135°E.

Table with columns for day (0-23), time (E, d), and astronomical data. Includes a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for day (25, 26, 27, 28), astronomical data (h, m, s, o), and a '北緯' (Northern Latitude) section with columns for h, m, s, o.

Table with columns for day (25, 26, 27, 28), time (E, d), and astronomical data. Includes a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for No., star name, magnitude, E (T=0°), d, and E proportion. Lists stars like Polaris, Vega, etc.

Table with columns for day (天), time (T), and astronomical data (E0, d) for dates 29, 30, 1月31日, and 2月1日. Includes a section for 比例部分.

Table with columns for day (天), time (T), and astronomical data (E0, d) for dates 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23. Includes a section for 比例部分.

Table with columns for astronomical data (h, m, s) for dates 29, 30, 1月31日, 2月1日. Includes a section for 比例部分.

Table with columns for day (天), time (T), and astronomical data (E0, d) for dates 29, 30, 1月31日, and 2月1日. Includes a section for 比例部分.

Table with columns for No., star name, magnitude, and astronomical data (E0, d) for dates 29, 30, 1月31日, 2月1日. Includes a section for 比例部分.

Table with columns for day (天体 T), hour (h), minute (m), second (s), and degree (度). It lists astronomical data for days 2, 3, 4, and 5.

緯度 35°N
経度 135°E

日出 5 31
日没 6 58
正中 12 14
日没 17 30
黄昏 18 57
観中注 16.3

Table with columns for day (T), hour (h), minute (m), second (s), and degree (度). It includes astronomical data and a '比例部分' (Proportion) section.

Table with columns for day (2日, 3日, 4日, 5日), hour (h), minute (m), second (s), and degree (度). It includes astronomical data and a '高度方位' (Altitude/Azimuth) section.

Table with columns for day (天体 T), hour (h), minute (m), second (s), and degree (度). It lists astronomical data for days 2, 3, 4, and 5.

Table with columns for No., 米 (Magnitude), 恒 (Fixed), 星 (Star), 光度 (Magnitude), and 比例部分 (Proportion). It lists star data and their proportions.

Table with columns for day (天休), time (T), and astronomical data (E0, d) for days 6, 7, 8, and 9. Includes a small table for l=35°N, L=135°E.

Table with columns for time (T), astronomical data (E0, d), and a '比例部分' (Proportion) section. Includes a small table for l=35°N, L=135°E.

Table with columns for astronomical data (h, m, s) and a '比例部分' section. Includes a small table for l=35°N, L=135°E.

Table with columns for day (天休), time (T), and astronomical data (E0, d) for days 6, 7, 8, and 9. Includes a '比例部分' section.

Table with columns for star name (No. 氷恒星), magnitude (光度), astronomical data (E0, d), and a '比例部分' section. Lists stars like Polaris, Betelgeuse, etc.

Table with columns for day (天体 T), hour (h), minute (m), second (s), and degree (°) for days 10, 11, 12, 13. Includes a small table for 比例部分.

l = 35°N
L = 135°E

拂曉 5 25
日出 6 51
正中 12 15
日没 17 39
黄昏 19 4
観半夜 16.2

Table with columns for T, E, d, and 比例部分. Includes a small table for 比例部分 at the bottom left.

Table with columns for 月齢, 日出, 正中, 日没, 赤経, 正中時, 観測時, 高度, 方位. Includes a small table for 比例部分 at the bottom.

Table with columns for day (天体 T), hour (h), minute (m), second (s), and degree (°) for days 10, 11, 12, 13. Includes a small table for 比例部分.

Table with columns for No, 星名, 星, 光度, E_z (T=0°の値), d, and E_z 比例部分. Lists stars like 北極星, アルデバラン, etc.

Table with columns for day (14, 15, 16, 17), time (E, d), and astronomical data (h, m, s, o, /). Includes text for sunrise, sunset, and moon phase.

Table with columns for time (T, E, d), astronomical data (h, m, s, o, /), and proportions (比例部分). Includes a section for S.D. at the bottom.

Table with columns for date (14, 15, 16, 17), astronomical data (h, m, s, o, /), and astronomical data (h, m, s, o, /). Includes a section for star magnitude and position.

Table with columns for day (14, 15, 16, 17), time (E, d), and astronomical data (h, m, s, o, /). Includes text for sunrise, sunset, and moon phase.

Table with columns for time (T, E, d), astronomical data (h, m, s, o, /), and proportions (比例部分). Includes a section for S.D. at the bottom.

Table with columns for star name (No. 星名), magnitude (光度), astronomical data (E, d), and proportions (比例部分). Lists various stars like Polaris, Vega, etc.

Table with columns for day (18-22), time (E, d), and astronomical data for various celestial bodies.

Table with columns for day (0-23), time (E, d), and astronomical data for various celestial bodies, including a '比例部分' (Proportion) section.

Table with columns for day (18-21), time (h, u, 10, 20, 30, 40, 50, 60), and astronomical data for various celestial bodies.

Table with columns for day (18-21), time (E, d), and astronomical data for various celestial bodies, including a '比例部分' (Proportion) section.

Table with columns for No., 天 体 (Celestial Body), 風 光 度 (Wind/Light Intensity), E (T=0), d, and 比例部分 (Proportion).

Table with columns for day (22-25), time (E, d), and astronomical data. Includes coordinates l=35°N, L=135°E and various time values.

Table with columns for day (0-23), time (E, d), and astronomical data. Includes a '比例部分' (Proportion) section and coordinates l=37°N, L=135°E.

Table with columns for day (22-25), time (h, m, s), and astronomical data. Includes coordinates l=37°N, L=135°E and various time values.

Table with columns for day (22-25), time (E, d), and astronomical data. Includes a '比例部分' (Proportion) section and coordinates l=35°N, L=135°E.

Table with columns for No., star name, magnitude, E (T=0h), d, and E proportion. Lists stars like Polaris, Dubhe, Merak, etc.

Table with columns for day (26, 27, 28 Feb, 1 Mar) and time (h, m, s) for various celestial objects. Includes a small table for l = 35°N, L = 135°E.

Table with columns for T, E, d, and 比例部分 (Proportion) for various celestial objects. Includes a small table for 比例部分 at the bottom.

Table with columns for month (月), day (日), and time (h, m, s) for various celestial objects. Includes a small table for 比例部分 at the bottom.

Table with columns for day (26, 27, 28 Feb, 1 Mar) and time (h, m, s) for various celestial objects. Includes a small table for 比例部分 at the bottom.

Table with columns for No., 米, 恒, 星, 光度, E, d, and 比例部分. Includes a list of stars and their properties.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 2, 3, 4, and 5. Includes a small table for l=35°N, L=135°E with values for 拂曉, 日出, 正中, 日没, 黄昏, and 観半径.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 6 through 23. Includes a '比例部分' (Proportional Parts) table with columns for T and E.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 24 through 31. Includes a '比例部分' (Proportional Parts) table and a table for star positions (赤経, 正中時, 観測時, 高度, 方位) for various stars.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 2, 3, 4, and 5. Includes a '比例部分' (Proportional Parts) table and a table for star positions (赤経, 正中時, 観測時, 高度, 方位) for various stars.

Table with columns for No., 星名 (Star Name), 光度 (Magnitude), and astronomical data (E, d) for days 2, 3, 4, and 5. Includes a '比例部分' (Proportional Parts) table and a table for star positions (赤経, 正中時, 観測時, 高度, 方位) for various stars.

Table with columns for day (天休), time (T), and astronomical data (E0, d) for days 6, 7, 8, and 9. Includes a small table for l=35°N, L=135°E.

Table with columns for time (T), astronomical data (E0, d), and a '比例部分' (Proportion) section with sub-columns T, E0, and E0.

Table with columns for astronomical data (h, m, s) and a '比例部分' section. Includes a small table for l=35°N, L=135°E.

Table with columns for day (天休), time (T), and astronomical data (E0, d) for days 6, 7, 8, and 9. Includes a '比例部分' section.

Table with columns for star number (No.), star name (星), magnitude (光度), astronomical data (E0, d), and a '比例部分' section. Lists stars like Polaris, Dubhe, Merak, etc.

Table with columns for day (10-13), time (E, d), and astronomical data. Includes a small table for I=35°N, L=135°E.

Table with columns for T, E, d, and 比例部分. Includes a small table for I=35°N, L=135°E.

Table with columns for I=35°N, L=135°E, 月齢, 月出, 正中, 月没, 惑星光度, 赤経, 正中時視測時高度方位, 惑星, 光度, 赤経, 正中時視測時高度方位.

Table with columns for day (10-13), time (E, d), and astronomical data. Includes a small table for I=35°N, L=135°E.

Table with columns for No., 星, 光度, E (T=0h), d, and E 比例部分. Includes a list of stars and their data.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 14, 15, 16, and 17. Includes a small table for l=35°N, L=135°E.

Table with columns for T, E0, d, and 比例部分. Includes a small table for l=35°N, L=135°E.

Table with columns for 月齢, 月出, 正中, 月没, 赤経, 正午時, 観測時, 高度, 方位. Includes a small table for l=35°N, L=135°E.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 14, 15, 16, and 17. Includes a small table for 比例部分.

Table with columns for No., 氷, 星, 光度, E0 (T=0h の値), d, and E0 比例部分. Lists various stars and their data.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 18, 19, 20, 21. Includes a small table for 比例部分.

l = 35°N
L = 135°E
緯度 4 41
日出 6 5
正 中 12 8
日 没 18 11
黄昏 19 36
視半径 16.1

Table with columns for day (天), time (時), and astronomical data (E, d) for days 12 to 23. Includes a small table for 比例部分.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 18 to 21. Includes a small table for 比例部分.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 18, 19, 20, 21. Includes a small table for 比例部分.

Table with columns for No., 星名, 光度, E* (T=0h の値), d, and E* 比例部分. Lists various stars like 北極星, Vega, etc.

Table with columns for day (22-25), time (T), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions) on the right.

Table with columns for day (0-23), time (T), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions) on the right.

Table with columns for day (22-25), time (h), and astronomical data (h, m, s). Includes a small table for '比例部分' (Proportions) on the right.

Table with columns for day (22-25), time (T), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions) on the right.

Table with columns for No., star name, magnitude, and astronomical data (E, d). Includes a small table for '比例部分' (Proportions) on the right.

Table with columns for day (26-29), time (h, m, s), and astronomical data (E, d). Includes a small table for l=35°N, L=135°E.

Table with columns for day (0-23), time (h, m, s), and astronomical data (E, d). Includes a small table for 比例部分.

Table with columns for day (26-29), time (h, m, s), and astronomical data (E, d). Includes a small table for l=35°N, L=135°E.

Table with columns for day (26-29), time (h, m, s), and astronomical data (E, d). Includes a small table for 比例部分.

Table with columns for No., star name, magnitude, E (T=0), d, and E* 比例部分. Lists stars like Polaris, Vega, etc.

Table with columns for day (天体), time (T), and astronomical data (E, d) for March 30, 31, April 1, and 2. Includes parameters like l = 35°N and L = 135°E.

Table with columns for day (T), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for astronomical data (E, d) and a '北緯' (Northern Latitude) section with columns for time (h) and values (0, 10, 20, 30, 40, 50, 60).

Table with columns for day (天体), time (T), and astronomical data (E, d) for March 30, 31, April 1, and 2. Includes a '比例部分' (Proportion) section.

Table with columns for star number (No.), star name (星名), star magnitude (光度), astronomical data (E, d), and a '比例部分' (Proportion) section.

Table with columns for day (3日, 4日, 5日, 6日), time (T), and astronomical data (E0, d). Includes coordinates l=35°N, L=135°E.

Table with columns for time (T), astronomical data (E0, d), and a '比例部分' (Proportion) section with sub-columns T, E0, T, E0.

Table with columns for month (月), time (時), and astronomical data (h, m, s, 0, 10, 20, 30, 40, 50, 60). Includes coordinates l=35°N, L=135°E.

Table with columns for day (3日, 4日, 5日, 6日), time (T), and astronomical data (E0, d). Includes a '比例部分' (Proportion) section.

Table with columns for No., star name, magnitude, E0 (T=0°), d, and E0 比例部分. Lists stars like Polaris, Dubhe, Merak, etc.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 7, 8, 9, and 10. Includes a small table for l=35°N, L=135°E.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T and E.

Table with columns for astronomical data (h, m, s) and a '比例部分' section. Includes a small table for l=35°N, L=135°E.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 7, 8, 9, and 10. Includes a '比例部分' section.

Table with columns for star name (No. 星), magnitude (光度), and astronomical data (E, d). Includes a '比例部分' section.

Table with columns for day (11, 12, 13, 14), time (E0, d), and astronomical data (l = 35°N, L = 135°E). Includes sunrise and sunset times.

Table with columns for day (0-23), time (E0, d), and astronomical data. Includes a '比例部分' (Proportion) section.

Table with columns for day (11-14), time (d), and astronomical data. Includes a '透星光度' (Star Magnitude) section.

Table with columns for day (11, 12, 13, 14), time (E0, d), and astronomical data. Includes a '比例部分' (Proportion) section.

Table with columns for No., star name, magnitude, and astronomical data. Includes a 'E0 (T=0hの値)' section.

Table with columns for days 15, 16, 17, 18 and rows for celestial coordinates (E, d) and astronomical data (h, m, s, N, E).

l = 35°N
L = 135°E

日出 5 27
正 中 12 0
日 没 18 34
黄 昏 20 3
観 測 法 16.0

Table with columns for days 15, 16, 17, 18 and rows for astronomical data (T, E, d) and a '比例部分' (Proportion) section.

Table with columns for days 15, 16, 17, 18 and rows for astronomical data (h, m, s, N, E) and a '比例部分' (Proportion) section.

Table with columns for astronomical data (赤経, 正中時, 観測時, 高度, 方位) and rows for celestial objects like 金星, 火星, 木星, 土星.

Table with columns for days 15, 16, 17, 18 and rows for celestial coordinates (E, d) and astronomical data (h, m, s, N, E).

Table with columns for No., 恒星, 光度, E (T=0h), d, and 比例部分. Lists stars like 北極星, 天狼星, etc.

Table with columns for day (19-22), time (T), and astronomical data (E, d). Includes a small table for '比例部分' (Proportional parts).

Main table for astronomical data on page 56, including columns for T, E, d, and proportional parts.

Table for astronomical data on page 56, including columns for day (19-22), time (T), and astronomical data (E, d).

Table with columns for day (19-22), time (T), and astronomical data (E, d). Includes a small table for '比例部分' (Proportional parts).

Main table for astronomical data on page 57, including columns for No., star name, magnitude, E, d, and proportional parts.

Table with columns for day (23-26), time (h, m, s), and astronomical data (E, d). Includes a small table for I=35°N, L=135°E.

Table with columns for T, E, d, and 比例部分. Includes a small table for I=35°N, L=135°E.

Table with columns for 月齢, 日出, 正中, 月没, 赤経, 正中時, 観測時, 高度, 方位. Includes a small table for I=35°N, L=135°E.

Table with columns for day (23-26), time (h, m, s), and astronomical data (E, d). Includes a small table for I=35°N, L=135°E.

Table with columns for No., 氷, 恒, 星, 光度, E (T=0h), d, and E 比例部分. Lists various stars and their data.

Table with columns for day (27-30), time (h, m, s), and astronomical data (E, d). Includes text: l = 35°N, L = 135°E.

Table with columns for time (T), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, d.

Table with columns for month (月), astronomical data (h, m, s), and a '比例部分' section. Includes text: l = 35°N, L = 135°E.

Table with columns for day (27-30), time (h, m, s), and astronomical data (E, d). Includes text: l = 35°N, L = 135°E.

Table with columns for star name (No. 米 恒 星), magnitude (光度), astronomical data (E, d), and a '比例部分' section. Lists stars like Polaris, Vega, etc.

Table with columns for day (天体 T), hour (h), minute (m), second (s), and degree (度) for days 1-4. Includes data for sunrise (日出) and sunset (日没) times.

l = 35°N
L = 135°E

拂曉 3 33
日出 5 8
正中 11 57
日没 18 47
黄昏 20 21
観平経 15.9

Table with columns for T, E, d, and 比例部分. Includes a section for 比例部分 with sub-columns T, E, and d.

Table with columns for 月齢 (Moon phase), 日出 (Sunrise), 正中 (Midday), 日没 (Sunset), 赤緯 (Declination), 正午時 (Midday time), 観測時 (Observation time), 高度 (Altitude), and 方位 (Azimuth).

Table with columns for day (天体 T), hour (h), minute (m), second (s), and degree (度) for days 1-4. Includes data for sunrise (日出) and sunset (日没) times.

Table with columns for No. (Number), 光度 (Magnitude), 星名 (Star name), 光度 (Magnitude), 1日 (Day 1), 2日 (Day 2), 3日 (Day 3), 4日 (Day 4), and 比例部分 (Proportion part).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 5, 6, 7, 8. Includes a small table for i = 35°N, L = 135°E.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, T, E.

Table with columns for astronomical data (E, d) and a '比例部分' section. Includes a small table for i = 35°N, L = 135°E.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 5, 6, 7, 8. Includes a '比例部分' section.

Table with columns for No., star name, magnitude, astronomical data (E, d), and 'E, 比例部分'.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 9, 10, 11, and 12. Includes coordinates and observations.

l = 35°N
L = 135°E

拂曉 3 23
日出 5 0
正中 11 57
日没 18 53
黄昏 20 31
観半夜 15.9

Table with columns for time (T), astronomical data (E, d), and proportions (比例部分). Includes a section for 'd' and '比例部分'.

Table with columns for astronomical data (h, m, s) and observations (月齢, 月出, 正中, 日没). Includes a section for '赤緯', '赤経', '正中時', '観測時', '高度', '方位'.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 9, 10, 11, and 12. Includes proportions (比例部分).

Table with columns for star name (No. 星名), magnitude (光度), and astronomical data (E, d, 比例部分). Lists stars like Polaris, Dubhe, Merak, etc.

Table with columns for day (13-16), time (E, d), and astronomical data for various celestial bodies.

Table with columns for time (T), astronomical data (E, d), and a '比例部分' (Proportion) section.

Table with columns for astronomical data (E, d) and a '高度方位' (Altitude/Azimuth) section.

Table with columns for day (13-16), time (E, d), and astronomical data for various celestial bodies.

Table with columns for star name, magnitude, and astronomical data (E, d) for various stars.

Table with columns for day (17-22), time (h, m, s), and astronomical data (E, d). Includes a small table for l=25°N, L=135°E.

Table with columns for day (0-23), time (h, m, s), and astronomical data (E, d). Includes a small table for l=25°N, L=135°E.

Table with columns for day (17-20), time (h, m, s), and astronomical data (E, d). Includes a small table for l=25°N, L=135°E.

Table with columns for day (17-20), time (h, m, s), and astronomical data (E, d). Includes a small table for l=25°N, L=135°E.

Table with columns for No, 星名, 光度, E (T=0の値), d, and E 比例部分. Lists various stars and their data.

Table with columns for day (21-24), time (E, d), and astronomical data. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for T, E, d, and 比例部分. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for 月齢, 月出, 正中, 月没, 赤経, 正中時, 観測時, 高度, 方位. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for day (21-24), time (E, d), and astronomical data. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for No., 星名, 光度, E (T=0の値), d, and E 比例部分. Lists various stars and their data.

Table with columns for day (25, 26, 27, 28), time (E, d), and astronomical data (h, m, s, N, O, E). Includes text: l = 35°N, J = 135°E, 観測時間 15.8.

Table with columns for day (0-23), time (E, d), and astronomical data. Includes a section for '比例部分' (Proportional Parts) with columns T, E, and d.

Table with columns for day (25, 26, 27, 28), time (h, m, s), and astronomical data. Includes text: l = 35°N, J = 135°E.

Table with columns for day (25, 26, 27, 28), time (E, d), and astronomical data. Includes a section for '比例部分' (Proportional Parts) with columns T, E, and d.

Table with columns for No., 天 体 (Star Name), 光度 (Magnitude), E (T=0), d, and E* 比例部分 (Proportional Parts). Lists stars like Polaris, Vega, etc.

Table with columns for day (29, 30, 5月31日, 6月1日), time (T), and astronomical data (Eo, d). Includes a small table for '比例部分' (Proportional parts).

Main table for astronomical data on page 76, including columns for T, Eo, d, and proportional parts. Includes a small table for '比例部分' (Proportional parts).

Table with columns for month (月), day (日), and astronomical data (h, m, s). Includes a small table for '比例部分' (Proportional parts).

Table with columns for day (29, 30, 5月31日, 6月1日), time (T), and astronomical data (Eo, d). Includes a small table for '比例部分' (Proportional parts).

Table with columns for No., star name, magnitude, and astronomical data (Eo, d). Includes a small table for '比例部分' (Proportional parts).

Table with columns for day (天), hour (時), and astronomical data (E, d) for days 2, 3, 4, and 5. Includes a small table for 比例部分.

Table with columns for day (天), hour (時), and astronomical data (E, d) for days 6 through 23. Includes a small table for 比例部分.

Table with columns for astronomical data (赤緯, 正午時, 観測時, 高度, 方位) and a table for 比例部分.

Table with columns for day (天), hour (時), and astronomical data (E, d) for days 2, 3, 4, and 5. Includes a small table for 比例部分.

Table with columns for No., 星名, 光度, E_z (T=0hの値), d, and E_z 比例部分. Lists various stars like 北極星, Vega, etc.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 6, 7, 8, and 9. Includes a small table for l = 35°N, L = 135°E.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T and E.

Table with columns for astronomical data (E, d) and a '比例部分' section. Includes a small table for l = 35°N, L = 135°E.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 6, 7, 8, and 9. Includes a small table for l = 35°N, L = 135°E.

Table with columns for No., star name, magnitude, and astronomical data (E, d). Includes a small table for l = 35°N, L = 135°E.

Table with columns for day (10-13), time (E, d), and astronomical data (h, m, s, N, E). Includes text: l = 35°N, L = 135°E, 緯度 35°N, 経度 135°E, 日出 4 44, 正中 12 0, 日没 19 16, 黄昏 21 1, 観測地 15.8

Table with columns for day (10-13), time (E, d), and astronomical data (h, m, s, S, E). Includes text: 比例部分, T, E, S, E, 0-0, 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 比例部分, 30, 40, 50, 59, 16.1, 15.9, 15.8, 15.6, 30-1.11, 60-2.22

Table with columns for day (10-13), time (h, m, s, 0, 10, 20, 30, 40, 50, 60), and astronomical data (h, m, s, 北, 緯, 星, 緯, 差, 星, 光, 度, 赤, 経, 正, 中, 時, 観, 測, 時, 高, 度, 方, 位). Includes text: l = 35°N, L = 135°E, 月 齢, 月 出, 正 中, 月 没, 差 星, 光 度, 赤 経, 正 中 時, 観 測 時, 高 度, 方 位, ♀ 金 星, ♂ 火 星, ♃ 木 星, ♄ 土 星

Table with columns for day (10-13), time (E, d), and astronomical data (h, m, s, N, E). Includes text: 比例部分, T, E, S, E, 0-0, 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 比例部分, 30, 40, 50, 59, 16.1, 15.9, 15.8, 15.6, 30-1.11, 60-2.22

Table with columns for No., 星 名, 星 光 度, E (T=0h の値), d, E 比例部分. Includes star names like 1 北極星 (Polaris), 3 デネブ (Deneb), 7 シェルル (Schedir), 11 カペラ (Capella), 12 デネブ (Deneb), 13 ベガ (Vega), 14 カストル (Castor), 15 アルファアラファツ (Alpheratz), 16 ポルクス (Pollux), 18 アルクトルス (Arcturus), 19 アルデバラン (Aldebaran), 20 マルカブ (Markab), 21 デネボラ (Denebola), 23 レグルス (Regulus), 24 アルタイル (Altaïr), 25 ベテルギウス (Betelgeuse), 27 プロキオン (Procyon), 28 リゲル (Rigel), 30 スピカ (Spica), 31 シリウス (Sirius), 33 アンタレス (Antares), 35 フォマルハウト (Fomalhaut), 37 カノプス (Canopus), 39 アカーナー (Achernar), 40 ビータクルシス (β Crucis), 41 ビータセントオリ (β Centauri), 42 アルファセントオリ (α Centauri), 43 アルファクルシス (α Crucis)

Table with columns for day (14-17), time (E, d), and celestial coordinates (h, m, s, N, E). Includes text: l = 35°N, L = 135°E, 緯度 35°N, 経度 135°E, 緯度 35°N, 経度 135°E, 緯度 35°N, 経度 135°E, 緯度 35°N, 経度 135°E.

Table with columns for day (14-17), time (E, d), and celestial coordinates (h, m, s, S, E). Includes text: 比例部分, T, E, d, h, m, s, S, E.

Table with columns for day (14-17), time (h, m, s, S, E), and celestial coordinates (h, m, s, S, E). Includes text: l = 35°N, L = 135°E, 緯度 35°N, 経度 135°E, 緯度 35°N, 経度 135°E, 緯度 35°N, 経度 135°E.

Table with columns for day (14-17), time (E, d), and celestial coordinates (h, m, s, N, E). Includes text: 比例部分, T, E, d, h, m, s, N, E.

Table with columns for No., 恒星, 光度, E_x (T=0^h の値), d, and 比例部分. Includes text: No., 恒星, 光度, E_x (T=0^h の値), d, 比例部分.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 18, 19, 20, and 21. Includes a small table for I = 35°N, L = 135°E.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for astronomical data (E, d) and a '比例部分' section. Includes a small table for I = 35°N, L = 135°E.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 18, 19, 20, and 21. Includes a '比例部分' section.

Table with columns for star name (No. 恒星), magnitude (光度), astronomical data (E, d), and a '比例部分' section.

Table with columns for day (22-25), time (h, m, s), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions).

Table with columns for day (22-25), time (h, m, s), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions).

Table with columns for day (22-25), time (h, m, s), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions).

Table with columns for day (22-25), time (h, m, s), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions).

Table with columns for No., star name, magnitude, and astronomical data (E, d). Includes a small table for '比例部分' (Proportions).

Table with columns for days 26, 27, 28, 29 and rows for celestial body (天体) and time (時). Includes data for E0, d, and h m s o.

l = 35°N
L = 135°E

拂曉 2 59

日出 4 47

正中 12 3

日没 19 19

黄昏 21 7

観中径 15.8

Table with columns for days 26, 27, 28, 29 and rows for celestial body (天体) and time (時). Includes data for E0, d, and h m s o. Also includes a '比例部分' (Proportion) section.

Table with columns for days 26, 27, 28, 29 and rows for celestial body (天体) and time (時). Includes data for E0, d, and h m s o. Also includes a '比例部分' (Proportion) section.

Table with columns for days 26, 27, 28, 29 and rows for celestial body (天体) and time (時). Includes data for E0, d, and h m s o. Also includes a '比例部分' (Proportion) section.

Table with columns for No., 星名 (Star Name), 光度 (Magnitude), and E0 (T=5h). Includes a list of stars and their positions.

Table with columns for day (天), time (時), and astronomical data (E0, d) for June 30 and July 1. Includes a small table for sunrise/sunset times.

Table with columns for time (時), astronomical data (E0, d), and a '比例部分' (Proportion) section with sub-columns T and E0.

Table with columns for astronomical data (E0, d) and a '高度方位表' (Altitude and Azimuth Table) with columns for altitude and azimuth.

Table with columns for day (天), time (時), astronomical data (E0, d), and a '比例部分' (Proportion) section with sub-columns T and E0.

Table with columns for star name (No. 星), magnitude (光度), astronomical data (E0, d), and a 'E0 比例部分' (E0 Proportion) section with sub-columns T and E0.

Table with columns for day (4日, 5日, 6日, 7日), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (4日, 5日, 6日, 7日), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (4日, 5日, 6日, 7日), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (4日, 5日, 6日, 7日), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for No., star name, magnitude, and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 8, 9, 10, and 11. Includes a small table for i=35°N, L=135°E.

Table with columns for day (T), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for astronomical data (E, d) and a section for '太陽高度方位' (Sun's altitude and azimuth) for days 8-11.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 8, 9, 10, and 11. Includes a '比例部分' (Proportion) section.

Table with columns for star name (No. 恒星), magnitude (光度), and astronomical data (E, d) for various stars. Includes a '比例部分' (Proportion) section.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 12, 13, 14, and 15. Includes latitude/longitude (l=35°N, L=135°E) and other parameters.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section. Includes a table for '比例部分' with columns T, E, and d.

Table with columns for astronomical data (E, d) and a table for '比例部分' with columns T, E, and d. Includes a table for '比例部分' with columns T, E, and d.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 12, 13, 14, and 15. Includes a '比例部分' (Proportion) section.

Table with columns for No., star name, magnitude, and astronomical data (E, d). Includes a '比例部分' (Proportion) section.

Table with columns for day (天体 T), date (16日, 17日, 18日, 19日), and astronomical data (E, d). Includes a small table for l=35°N, L=135°E.

Table with columns for T, E, d, and 比例部分. Includes a small table for 比例部分 with T, E, T, E.

Table with columns for l=35°N, L=135°E, dates (16日, 17日, 18日, 19日), and astronomical data (h, m, s, a, o, r). Includes a small table for 比例部分.

Table with columns for day (天体 T), date (16日, 17日, 18日, 19日), and astronomical data (E, d). Includes a small table for 比例部分.

Table with columns for No., 星名, 光度, E (T=0°の値), d, and E 比例部分. Includes a small table for 比例部分.

Table with columns for day (天休), date (20日, 21日, 22日, 23日), and astronomical data (E, d). Includes a section for '比例部分' (Proportional parts) with sub-columns T, E, and d.

Table with columns for day (天休), date (20日, 21日, 22日, 23日), and astronomical data (E, d). Includes a section for '比例部分' (Proportional parts) with sub-columns T, E, and d.

Table with columns for date (20日, 21日, 22日, 23日) and astronomical data (h, m, s). Includes a section for '比例部分' (Proportional parts) with sub-columns T, E, and d.

Table with columns for day (天休), date (20日, 21日, 22日, 23日), and astronomical data (E, d). Includes a section for '比例部分' (Proportional parts) with sub-columns T, E, and d.

Table with columns for No., star name, magnitude, and astronomical data (E, d). Includes a section for '比例部分' (Proportional parts) with sub-columns T, E, and d.

Table with columns for date (24, 25, 26, 27) and time (0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22). Rows include celestial coordinates (E, d) and astronomical data (h, m, s, N, O, /).

l = 35°N
L = 135°E

神 鳴 3 22

日 出 5 3

正 中 12 6

日 没 19 10

黄 昏 20 50

観 中 径 15.8

Table with columns for date (24, 25, 26, 27) and time (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23). Rows include celestial coordinates (E, d) and astronomical data (h, m, s, N, O, /).

比 例 部 分

T E₀ T E₀

0 - 0 0 30 - 1 10

1 1 2 31 12

2 2 3 32 14

3 3 4 33 16

4 4 5 34 19

5 - 0 12 35 - 1 21

6 1 13 36 23

7 2 14 37 26

8 3 15 38 28

9 4 16 39 30

10 - 0 23 40 - 1 33

11 1 24 41 35

12 2 25 42 37

13 3 26 43 40

14 4 27 44 42

15 - 0 35 45 - 1 44

16 1 36 46 47

17 2 37 47 49

18 3 38 48 51

19 4 39 49 54

20 - 0 46 50 - 1 56

21 1 47 51 1 58

22 2 48 52 2 0

23 3 49 53 3

24 4 50 54 5

25 - 0 58 55 - 2 7

26 1 0 56 10

27 2 1 57 12

28 3 2 58 14

29 4 3 59 17

30 - 1 10 60 - 2 19

Table with columns for date (24, 25, 26, 27) and time (0, 10, 20, 30, 40, 50, 60). Rows include astronomical data (h, m, s, N, O, /) and celestial coordinates (d, h, m, s).

l = 35°N
L = 135°E

月 齢 27.7 28.7 0.3 1.3

月 出 2 46 3 49 4 59 6 12

正 中 10 31 11 31 12 30 13 25

月 没 18 16 19 7 19 51 20 28

赤 緯 正 中 時 観 測 時 高 度 方 位

Q 金星 -3.3 10 6 13 54 日 没 17 27.4

♂ 火星 +1.7 6 7 9 55 日 出 27 79

♂ 木星 -2.3 19 55 23 41 日 没 5 120

♂ 土星 +1.0 10 29 14 17 日 没 20 270

Table with columns for date (24, 25, 26, 27) and time (0, 4, 8, 12, 16, 20). Rows include celestial coordinates (E, d) and astronomical data (h, m, s, N, O, /).

Table with columns for No. 米 價 風 光 度, E₀ (T=0^hの値), and E₀ 比 例 部 分. Rows include star names and coordinates.

E₀

11 4 4 11 8 0 11 11 57 11 15 53

Table with columns for day (天), time (時), and astronomical data (E, d) for days 28, 29, 30, and 31. Includes a small table for '比例部分' (Proportional parts).

Table with columns for time (時), astronomical data (E, d), and '比例部分' (Proportional parts) for days 0 through 23. Includes a small table for '比例部分' at the bottom.

Table with columns for astronomical data (E, d) and '比例部分' (Proportional parts) for days 28, 29, 30, and 31. Includes a table for '恒星光度' (Star magnitudes) and a table for '月齢' (Moon phase).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 28, 29, 30, and 31. Includes a small table for '比例部分' (Proportional parts).

Table with columns for star name (No. 星名), magnitude (光度), astronomical data (E, d), and '比例部分' (Proportional parts) for various stars.

Table with columns for day (1-4), time (E0, d), and astronomical data. Includes parameters like l=35°N and l=135°E.

Table with columns for day (1-4), time (E0, d), and astronomical data. Includes a '比例部分' (Proportion) section.

Table with columns for day (1-4), time (E0, d), and astronomical data. Includes a '比例部分' (Proportion) section and a '表' (Table) at the bottom.

Table with columns for day (1-4), time (E0, d), and astronomical data. Includes a '比例部分' (Proportion) section.

Table with columns for No., star name, magnitude, and astronomical data. Includes a '比例部分' (Proportion) section.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 5, 6, 7, and 8. Includes a small table for '比例部分' (Proportions).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9 through 23. Includes a small table for '比例部分' (Proportions).

Table with columns for astronomical data (E, d) for days 5, 6, 7, and 8. Includes a table for '比例部分' (Proportions) and a table for '恒星光度' (Star Magnitudes).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 5, 6, 7, and 8. Includes a small table for '比例部分' (Proportions).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9 through 23. Includes a small table for '比例部分' (Proportions).

Table with columns for star name (No. 恒星), magnitude (光度), and astronomical data (E, d) for various stars. Includes a table for '比例部分' (Proportions).

Table with columns for day (9-12), time (h, m, s), and astronomical data (E, d). Includes a small table for '比例部分' (Proportional Parts) on the right.

Main table for astronomical data with columns for day (9-12), time (h, m, s), and astronomical data (E, d). Includes a '比例部分' (Proportional Parts) table at the bottom.

Table with columns for day (9-12), time (h, m, s), and astronomical data (E, d). Includes a '比例部分' (Proportional Parts) table at the bottom.

Table with columns for day (9-12), time (h, m, s), and astronomical data (E, d). Includes a '比例部分' (Proportional Parts) table on the right.

Table with columns for No., star name, magnitude, and astronomical data (E, d). Includes a '比例部分' (Proportional Parts) table at the bottom.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 13, 14, 15, and 16. Includes a small table for 比例部分.

Table with columns for time (時), astronomical data (E, d), and 比例部分. Includes a small table for 比例部分 at the bottom.

Table with columns for astronomical data (E, d) and 比例部分. Includes a small table for 比例部分 at the bottom.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 13, 14, 15, and 16. Includes a small table for 比例部分.

Table with columns for No., star name, magnitude, astronomical data (E, d), and 比例部分. Lists various stars like 北極星, 天狼星, etc.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 17, 18, 19, and 20. Includes a small table for l = 35°N, L = 135°E.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T and E.

Table with columns for astronomical data (E, d) and a section for '天 体' (Celestial Bodies) listing various stars and their positions.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 17, 18, 19, and 20. Includes a '比例部分' section.

Table with columns for time (時), astronomical data (E, d), and a '比例部分' section.

Table with columns for star name (No. 天 体), magnitude (星 光度), and astronomical data (E, d) for days 17, 18, 19, and 20. Includes a '比例部分' section.

Table with columns for days (21-24), astronomical data (E0, d), and time (h, m, s). Includes a small table for i=35°N, L=135°E.

Table with columns for days (0-23), astronomical data (E0, d), and time (h, m, s). Includes a small table for i=35°N, L=135°E.

Table with columns for days (21-24), astronomical data (h, m, s), and time (h, m, s). Includes a small table for i=35°N, L=135°E.

Table with columns for days (21-24), astronomical data (E0, d), and time (h, m, s). Includes a small table for i=35°N, L=135°E.

Table with columns for No., star name, magnitude, and astronomical data (E0, d, T, E0, T, E0). Includes a small table for E0 (T=0hの値).

Table with columns for celestial body (天体), date (25日, 26日, 27日, 28日), and astronomical data (E, d). Includes a small table for 観測時間 and 高度方位.

Table with columns for celestial body (天体), date (25日, 26日, 27日, 28日), and astronomical data (E, d). Includes a small table for 観測時間 and 高度方位.

Table with columns for celestial body (天体), date (25日, 26日, 27日, 28日), and astronomical data (E, d). Includes a small table for 観測時間 and 高度方位.

Table with columns for celestial body (天体), date (25日, 26日, 27日, 28日), and astronomical data (E, d). Includes a small table for 観測時間 and 高度方位.

Table with columns for No., 名称, 星, 光度, E (T=0h), d, and 比例部分. Lists various stars and their positions.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 29, 30, 8月31日, and 9月1日. Includes a small table for 比例部分.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 29, 30, 8月31日, and 9月1日. Includes a small table for 比例部分.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 29, 30, 8月31日, and 9月1日. Includes a small table for 比例部分.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 29, 30, 8月31日, and 9月1日. Includes a small table for 比例部分.

Table with columns for No., 天 体, 星 光 度, and astronomical data (E0, d) for days 29, 30, 8月31日, and 9月1日. Includes a small table for 比例部分.

Table with columns for day (2日, 3日, 4日, 5日) and time (0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22). Includes astronomical data like E0, d, and E1, d.

l = 35°N
L = 135°E

緯緯 4 5
日出 5 33
正中 11 59
日没 18 25
黄昏 19 53
観半徑 15.9

Table with columns for T, E0, d, E1, d, E2, d, E3, d, and 比例部分. Includes astronomical data and ratios.

Table with columns for 月 齢, 月 出, 正 中, 月 没, 赤 経, 正 中 時, 観 測 時, 高 度, 方 位. Includes astronomical data and observation times.

Table with columns for day (2日, 3日, 4日, 5日) and time (0, 4, 8, 12, 16, 20, 24). Includes astronomical data like E0, d, E1, d, E2, d, E3, d, and 比例部分.

Table with columns for No., 星 名, 星 光 度, E0 (T=0の値), d, and E0 比例部分. Includes star names and magnitudes.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 10, 11, 12, 13. Includes a small table for l=35°N, L=135°E with sunrise/sunset times.

Table with columns for day (T), time (E, d), and astronomical data (E, d) for days 10, 11, 12, 13. Includes a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for day (10, 11, 12, 13), time (h, m), and astronomical data (h, m, s). Includes a section for '赤経 正中時 観測時 高度 方位' (Right Ascension, Meridian Time, Observation Time, Altitude, Azimuth).

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 10, 11, 12, 13. Includes a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for No., star name (e.g., 北極星, アルタイル), magnitude, and astronomical data (E, d) for days 10, 11, 12, 13. Includes a 'Ez (T=0hの値)' section and a 'Ez 比例部分' section.

Table with columns for day (14-17), time (E, d), and astronomical data (h, m, s, N, O, /). Includes a small table for i=35°N, l=135°E.

Table with columns for time (T), E, d, and astronomical data. Includes a '比例部分' (Proportion) section and a table for i=35°N, l=135°E.

Table with columns for day (14-17), time (h, m, s, N, O, /), and astronomical data. Includes a table for i=35°N, l=135°E.

Table with columns for day (14-17), time (E, d), and astronomical data. Includes a '比例部分' (Proportion) section.

Table with columns for No., star name, magnitude, E (T=0h), d, and astronomical data. Lists stars like Polaris, Dubhe, Merak, etc.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 18, 19, 20, 21. Includes latitude/longitude (I=35°N, L=135°E) and celestial body names like 太陽 (Sun), 金星 (Venus), 火星 (Mars), 木星 (Jupiter), 土星 (Saturn).

Table with columns for time (時), astronomical data (E, d), and 比例部分 (Proportional parts). Includes a section for 比例部分 with columns T, E, and d.

Table with columns for astronomical data (E, d) and 比例部分 (Proportional parts). Includes a section for 比例部分 with columns T, E, and d.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 18, 19, 20, 21. Includes celestial body names like 金星 (Venus), 火星 (Mars), 木星 (Jupiter), 土星 (Saturn).

Table with columns for time (時), astronomical data (E, d), and 比例部分 (Proportional parts). Includes a section for 比例部分 with columns T, E, and d.

Table with columns for No., 氷 (Ice), 星 (Star), 光度 (Magnitude), and astronomical data (E, d). Lists stars like 北極星 (Polaris), 天狼星 (Sirius), etc.

Table with columns for day (22, 23, 24, 25), time (E, d), and astronomical data for various celestial bodies.

l = 35°N, L = 135°E

太陽 4 23, 日出 5 48, 正中 11 52, 日没 17 56, 黄昏 19 21, 夜半 16.0

Table with columns for day (22-25), time (E, d), and astronomical data for various celestial bodies, including a '比例部分' (Proportion) section.

Table with columns for day (22-25), time (E, d), and astronomical data for various celestial bodies, including a '比例部分' (Proportion) section.

Table with columns for day (22, 23, 24, 25), time (E, d), and astronomical data for various celestial bodies.

Table with columns for No., star name, magnitude, E (T=0h), d, and E proportion for various stars.

Table with columns for day (26-29), time (E, d), and astronomical data. Includes a small table for l=35°N, L=135°E.

Table with columns for day (0-23), time (E, d), and astronomical data. Includes a small table for l=35°N, L=135°E.

Table with columns for day (26-29), time (h, m, s), and astronomical data. Includes a small table for l=35°N, L=135°E.

Table with columns for day (26-29), time (E, d), and astronomical data. Includes a small table for l=35°N, L=135°E.

Table with columns for No., star name, magnitude, and astronomical data. Includes a small table for l=35°N, L=135°E.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9月30日, 10月1日, 2日, 3日. Includes a small table for 比例部分.

Table with columns for time (時), astronomical data (E, d), and 比例部分. Includes a table for 比例部分 at the bottom right.

Table with columns for astronomical data (E, d) and 比例部分. Includes a table for 比例部分 at the bottom right.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9月30日, 10月1日, 2日, 3日. Includes a table for 比例部分.

Table with columns for No., 氷, 星, 光度, E (T=0°), d, and 比例部分. Includes a table for 比例部分 at the bottom right.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 4, 5, 6, 7. Includes coordinates and observations like sunrise/sunset.

Table with columns for time (T), astronomical data (E0, d), and proportions (比例部分). Includes a section for '比例部分' with sub-columns T, E0, T, E0.

Table with columns for astronomical data (E0, d) and a section for '比例部分' with sub-columns T, E0, T, E0. Includes a section for '比例部分' with sub-columns T, E0, T, E0.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 4, 5, 6, 7. Includes coordinates and observations like sunrise/sunset.

Table with columns for No., star name, magnitude, and astronomical data (E0, d) for various stars. Includes a section for '比例部分' with sub-columns T, E0, T, E0.

Table with columns for day (天), body (体), and astronomical data (E, d) for days 8, 9, 10, and 11. Includes coordinates and time values.

l = 35°N
L = 135°E

拂曉 4 38
日出 6 1
正中 11 47
日没 17 34
黄昏 18 58
観半夜 16.1

Table with columns for day (天), body (体), and astronomical data (E, d) for days 12 through 23. Includes coordinates and time values.

Table with columns for day (天), body (体), and astronomical data (E, d) for days 24 through 31. Includes coordinates and time values.

Table with columns for day (天), body (体), and astronomical data (E, d) for days 8, 9, 10, and 11. Includes coordinates and time values.

Table with columns for No., star name, magnitude, and astronomical data (E, d) for various stars. Includes star names like Polaris, Vega, and Sirius.

Table with columns for day (天), time (T), and astronomical data (E0, d) for days 12, 13, 14, and 15. Includes a small table for l=35°N, L=135°E.

Table with columns for day (天), time (T), and astronomical data (Eκ, d) for days 12, 13, 14, and 15. Includes a '比例部分' (Proportion) section.

Table with columns for day (天), time (T), and astronomical data (Eκ, d) for days 12, 13, 14, and 15. Includes a '比例部分' (Proportion) section and a table for l=35°N, L=135°E.

Table with columns for day (天), time (T), and astronomical data (Eκ, d) for days 12, 13, 14, and 15. Includes a '比例部分' (Proportion) section.

Table with columns for No., star name, magnitude, and astronomical data (Eκ, d) for days 12, 13, 14, and 15. Includes a '比例部分' (Proportion) section.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 16-19. Includes a small table for 太陽 (Sun) and 月 (Moon) positions.

Table with columns for time (時), astronomical data (E, d), and 比例部分 (Proportional parts). Includes a small table for 太陽 (Sun) and 月 (Moon) positions.

Table with columns for astronomical data (E, d) and 比例部分 (Proportional parts). Includes a small table for 太陽 (Sun) and 月 (Moon) positions.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 16-19. Includes a small table for 太陽 (Sun) and 月 (Moon) positions.

Table with columns for No., 星名 (Star Name), 光度 (Magnitude), E, d, and 比例部分 (Proportional parts). Lists various stars like 北極星 (Polaris), 天狼星 (Sirius), etc.

Table with columns for day (天), time (時), and astronomical data (E0, d) for days 20, 21, 22, and 23. Includes a small table for the sun's position (日食あり).

Table with columns for time (時), astronomical data (E0, d), and a '比例部分' (Proportion) section with sub-columns T, E0, and E0.

Table with columns for astronomical data (E0, d) and a '比例部分' section. Includes a small table for the sun's position (日食あり).

Table with columns for day (天), time (時), and astronomical data (E0, d) for days 20, 21, 22, and 23. Includes a '比例部分' section.

Table with columns for No., star name (星), magnitude (光度), astronomical data (E0, d), and a '比例部分' section. Lists various stars like Polaris, Dubhe, etc.

Table with columns for day (24-27), time (h, m, s), and astronomical data (E, d). Includes a section for '太陽' (Sun) with times for sunrise and sunset.

Table with columns for day (0-23), time (h, m, s), and astronomical data (E, d). Includes a section for '比例部分' (Proportional parts) and a table for '太陽' (Sun) with times for sunrise and sunset.

Table with columns for day (24-27), time (h, m, s), and astronomical data (E, d). Includes a section for '太陽' (Sun) with times for sunrise and sunset.

Table with columns for day (24-27), time (h, m, s), and astronomical data (E, d). Includes a section for '比例部分' (Proportional parts) and a table for '太陽' (Sun) with times for sunrise and sunset.

Table with columns for No., 名称 (Name), 星 光 度 (Magnitude), E (T=0h), d, and E 比例部分 (Proportional parts). Lists various stars like Polaris, Dubhe, Merak, etc.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 28, 29, 30, 31. Includes a small table for 比例部分.

l = 35°N
L = 135°E

拂曉 4 52
日出 6 18
正中 11 44
日没 17 9
黄昏 18 35
観半徑 16.1

Table with columns for day (天), time (T), and astronomical data (E, d) for days 0-23. Includes a small table for 比例部分.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 28, 29, 30, 31. Includes a small table for 比例部分.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 28, 29, 30, 31. Includes a small table for 比例部分.

Table with columns for day (天), time (T), and astronomical data (E, d) for days 28, 29, 30, 31. Includes a small table for 比例部分.

Table with columns for No., 星名, 光度, and astronomical data (E, d) for various stars. Includes a small table for 比例部分.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 1-4. Includes a small table for sunrise/sunset times (日出, 日没, 正中, 黄昏) and moon phase (観半徑).

Table with columns for day (T), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for astronomical data (h, m, s) and a '観星光度' (Star Magnitude) section with columns for date, magnitude, and position.

Table with columns for day (天体), time (T), and astronomical data (E, d) for days 1-4. Includes a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for star name (No. 星名), magnitude (光度), and astronomical data (E, d) for various stars. Includes a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for day (天), body (体), and time (T). It lists astronomical data for days 5, 6, 7, and 8, including coordinates and times.

Table with columns for day (天), body (体), and time (T). It lists astronomical data for days 9 through 23, including coordinates and times.

Table with columns for day (天), body (体), and time (T). It lists astronomical data for days 24 through 30, including coordinates and times.

Table with columns for day (天), body (体), and time (T). It lists astronomical data for days 5, 6, 7, and 8, including coordinates and times.

Table with columns for No., star name, magnitude, and other astronomical data. It lists various stars and their properties.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9, 10, 11, 12. Includes a small table for 比例部分.

Table with columns for time (時), astronomical data (E, d), and 比例部分. Includes a table for 高度方位 (Altitude and Azimuth) at the bottom.

Table with columns for astronomical data (E, d) and 高度方位 (Altitude and Azimuth) for various stars.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 9, 10, 11, 12. Includes a table for 比例部分.

Table with columns for star name (No. 米 恒 星 光度), astronomical data (E, d), and 比例部分. Lists stars like Polaris, Vega, etc.

Table with columns for day (13-16), time (E0, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (13-16), time (E0, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (13-16), time (E0, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (13-16), time (E0, d), and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for No., star name, magnitude, and astronomical data. Includes a small table for '比例部分' (Proportions).

Table with columns for day (17-20), time (h m s), and astronomical data (E0, d). Includes a small table for '比例部分' (Proportions).

Table with columns for day (17-20), time (h m s), and astronomical data (E0, d). Includes a small table for '比例部分' (Proportions).

Table with columns for day (17-20), time (h m s), and astronomical data (E0, d). Includes a small table for '比例部分' (Proportions).

Table with columns for day (17-20), time (h m s), and astronomical data (E0, d). Includes a small table for '比例部分' (Proportions).

Table with columns for No., star name, magnitude, and astronomical data (E0, d). Includes a small table for '比例部分' (Proportions).

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 21-24. Includes a small table for l=35°N, L=135°E.

Table with columns for day (T), astronomical data (E0, d), and a '比例部分' (Proportion) section with sub-columns T, E0, T, E0.

Table with columns for astronomical data (l, L, day, h, m, s) and a '表' (Table) section with columns for star name, magnitude, and other data.

Table with columns for day (天体), time (T), and astronomical data (E0, d) for days 21-24. Includes a small table for l=35°N, L=135°E.

Table with columns for star name (No. 恒星), magnitude (星 光度), astronomical data (E0, d), and a '比例部分' (Proportion) section with sub-columns T, m0, m20, m40.

Table with columns for day (25, 26, 27, 28), time (E0, d), and astronomical data for the month of November.

l = 35°N
L = 135°E

日 出 6 16
日 中 11 47
日 没 16 49
黄 昏 18 18
観 測 注 16.2

Table with columns for day (T), time (E0, d), and astronomical data for the month of November, including a '比例部分' (Proportion) section.

Table with columns for day (25, 26, 27, 28), time (h, m, s), and astronomical data for the month of November, including a '比例部分' (Proportion) section.

Table with columns for day (25, 26, 27, 28), time (E0, d), and astronomical data for the month of November, including a '比例部分' (Proportion) section.

Table with columns for No., 天 体 (Star/Planet), 星 光 度 (Magnitude), E0 (T=0h value), d, and E0 比例部分 (E0 Proportion).

Table with columns for day (29, 11月30日, 12月1日, 2日) and rows for celestial body (天体) and time (h, m, s). Includes parameters like E0 and d.

l = 35°N
L = 135°E
緯度 5 19
日出 6 49
正中 11 48
日没 16 47
黄昏 18 18
観測日 16.3

Table with columns for day (29, 11月30日, 12月1日, 2日) and rows for celestial body (天体) and time (h, m, s). Includes parameters like E0 and d, and a section for '比例部分' (Proportion).

Table with columns for day (29, 11月30日, 12月1日, 2日) and rows for celestial body (天体) and time (h, m, s). Includes parameters like E0 and d, and a section for '差星光度' (Star magnitude differences).

Table with columns for day (29, 11月30日, 12月1日, 2日) and rows for celestial body (天体) and time (h, m, s). Includes parameters like E0 and d, and a section for '比例部分' (Proportion).

Table with columns for No., 星名 (Star name), 光度 (Magnitude), and E0 (T=0h の値). Includes a section for 'E0 比例部分' (E0 Proportion).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 3, 4, 5, and 6. Includes a small table for 比例部分.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 7 through 23. Includes a small table for 比例部分.

Table with columns for astronomical data (E, d) and a small table for 比例部分. Includes a table for 月齢 (Moon phase) and 月出 (Moon rise).

Table with columns for day (天), time (時), and astronomical data (E, d) for days 3, 4, 5, and 6. Includes a small table for 比例部分.

Table with columns for No., 星名 (Star name), 光度 (Magnitude), and astronomical data (E, d). Includes a list of stars with their names and magnitudes.

Table with columns for day (7, 8, 9, 10), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportional parts).

Table with columns for day (7, 8, 9, 10), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportional parts).

Table with columns for day (7, 8, 9, 10), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportional parts).

Table with columns for day (7, 8, 9, 10), time (E, d), and astronomical data. Includes a small table for '比例部分' (Proportional parts).

Table with columns for No., 恒星 (Star), 光度 (Magnitude), E (T=0h), d, and 比例部分 (Proportional parts). Lists various stars like Polaris, Dubbe, etc.

Table with columns for day (11-14), time (E, d), and astronomical data for various celestial bodies.

l = 35°N
L = 135°E
沸騰 5 28
日出 6 59
正中 11 54
日没 16 49
黄昏 18 19
観半徑 16.3

Table with columns for T, E, d, and 比例部分 (Proportional Parts) for various celestial bodies.

Table with columns for 月動, 月出, 正中, 月没, 赤緯, 正午時, 観測時, 高度, 方位, and 赤緯.

Table with columns for day (11-14), time (E, d), and astronomical data for various celestial bodies.

Table with columns for No., 星名, 光度, E (T=0h), d, and E 比例部分 for various stars.

Table with columns for day (天), body (体), and time (T). It lists astronomical data for days 15, 16, 17, and 18, including coordinates and times.

l = 35°N
L = 135°E

日 出 5 31
日 出 7 2
正 中 11 56
日 没 16 50
黄 昏 18 21
観 測 高 16.3

Table with columns for T, E, d, and 比例部分. It provides detailed astronomical data and proportions for days 0 through 23.

Table with columns for 月 齢, 月 出, 正 中, 月 没, 赤 緯, 正 中 時, 観 測 時, 高 度, 方 位. It lists monthly astronomical data and observation details.

Table with columns for day (天), body (体), and time (T). It lists astronomical data for days 15, 16, 17, and 18, including coordinates and times.

Table with columns for No., 氷 恒 星 光 度, E_z (T=0^hの値), d, and E_z 比例部分. It lists star magnitudes and proportions for various stars.

Table with columns for day (19-22), time (E, d), and astronomical data for 1949. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for day (0-23), time (E, d), and astronomical data. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for day (19-22), time (h, m, s), and astronomical data. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for day (19-22), time (E, d), and astronomical data for 1949. Includes a small table for 1 = 35°N, L = 135°E.

Table with columns for No., star name, magnitude, E_z (T=0h), d, and E_z 比例部分. Lists stars like Polaris, Vega, etc.

Table with columns for day (23, 24, 25, 26), time (E0, d), and astronomical data (h, m, s, o, r). Includes notes for latitude (I = 35°N, L = 135°E) and moon phases.

Table with columns for day (0-23), time (E0, d), and astronomical data. Includes a section for '比例部分' (Proportional Parts) and a table for 'π S.D.' (Parallax and Standard Deviation).

Table with columns for day (23, 24, 25, 26), time (h, m, s, o, r), and astronomical data. Includes a section for 'π S.D.' and a table for '赤経 正中時 観測時 高度 方位' (Right Ascension, Meridian Time, Observation Time, Altitude, Azimuth).

Table with columns for day (23, 24, 25, 26), time (E0, d), and astronomical data. Includes a section for '比例部分' (Proportional Parts) and a table for 'π S.D.'.

Table with columns for star name, magnitude, and astronomical data. Includes a section for 'Ez (T=0) の値' (Value of Ez at T=0) and a table for 'Ez 比例部分' (Proportional Parts of Ez).

Table with columns for day (27-30), time (h, m, s), and astronomical data (E, d). Includes a small table for '比例部分' (Proportions).

Main table for astronomical data on page 182, including columns for time, astronomical data, and '比例部分'.

Table with columns for day (27-30), time (h, m, s), and astronomical data. Includes a section for '高度方位' (Altitude and Azimuth).

Table with columns for day (27-30), time (h, m, s), and astronomical data. Includes a section for '比例部分'.

Table with columns for No., star name, magnitude, and astronomical data. Includes a section for 'E_0 (T=0^h の値)' and 'E_0 比例部分'.

Table with columns for day (天), time (時), and astronomical data (E, d) for days 31 and 32. Includes a small table for sunrise/sunset times (日出, 日没, 正午, 日没).

Table with columns for time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for astronomical data (E, d) and a section for star positions (赤経, 正午時, 観測時, 高度, 方位) for various stars.

Table with columns for day (天), time (時), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for star number (No.), name (星名), magnitude (光度), astronomical data (E, d), and a '比例部分' (Proportion) section with sub-columns T, E, and d.

Table with columns for declination (緯度) and hour angle (時角). Rows include star names like Polaris, Dubhe, Merak, etc., and numerical values for hour angles from 0 to 12.

Table with columns for declination (緯度) and hour angle (時角). Rows include star names like Altair, Betelgeuse, Procyon, etc., and numerical values for hour angles from 12 to 24.

b = T + E_m ± L in T (Lが東経ならば+)

時角 h 0—12 北極星は子午線の西にある

h 12—24 東にある

Table listing stars with columns for No., star name, magnitude (光度), right ascension (赤経), declination (赤緯), and a table of dates (1月 to 6月) for the star's meridian passage.

正中時比例部分表(常 減)

Table with columns for day of year (経過日数) and values for days 1 through 10, showing the proportion of the day.

注意……1日の正中時からひけないときには23 56を加えてからひく(第22項参照)。

Table with columns: No., 星名, 光度, 赤経, 赤緯, 標準子午線 (135°E) 正中時 日本標準時, and a grid of dates from July to December.

正中時比例部分表 (常減)

Table with columns: 経過日数 (0, 10, 20) and a grid of values for days 1-10.

注意……1 日の正中時からひけないときには 23 56 を加えてからひく (第 23 項参照)

Table with columns: 星名, 光度, S, 赤緯, 標準子午線 (135°E) 正中時 日本標準時, and a grid of dates from July to December.

h₀ X = T + R + S RA X = 24^h - S

正中時比例部分表 (常減)

Table with columns: 経過日数 (0, 10, 20, 30, 40, 50) and a grid of values for days 1-10.

注意……1 日の正中時からひけないときには 23 56 を加えてからひく (第 23 項参照)

Main table for page 190 listing star names, magnitudes, and coordinates for various constellations like Puppis, Velorum, Carinae, etc.

h°X = T + R + S RA X = 24h - S

正中時比例部分表 (常減)

Table showing time ratios for page 190, with columns for days (経過日数) and hours (1-10).

注意...1 日の正中時からひけないときには 23 56 を加えてからひく (第 23 項参照)

Main table for page 191 listing star names, magnitudes, and coordinates for various constellations like Trianguli Australia, Scorpil, Ophiuchi, etc.

h°X = T + R + S RA X = 24h - S

正中時比例部分表 (常減)

Table showing time ratios for page 191, with columns for days (経過日数) and hours (1-10).

注意...1 日の正中時からひけないときには 23 56 を加えてからひく (第 23 項参照)

月	日	北緯日出時												
		0	10	20	30	35	40	45	50	52	54	56	58	60
1	1	5 59	6 17	6 35	6 56	7 8	7 22	7 38	7 58	8 8	8 19	8 31	8 45	9 2
1	11	6 4	20	37	57	8	21	37	55	8 4	14	25	38	8 54
1	21	7	22	38	55	6	17	31	48	7 55	8 4	14	25	38
1	31	10	22	36	51	7 0	10	22	36	42	7 50	7 58	8 7	8 17
2	10	11	21	32	44	6 52	7 0	7 9	20	26	31	38	7 45	7 53
2	20	6 10	6 18	6 26	6 36	6 41	6 47	6 54	7 2	7 6	7 10	7 15	7 20	7 26
3	2	9	14	19	26	29	33	37	43	6 45	6 48	6 50	6 54	6 57
3	12	6	9	11	14	16	17	19	22	6 25	6 24	6 25	6 26	6 28
3	22	4 6	3	6 3	6 2	6 2	6 1	6 0	5 59	5 59	5 59	5 58	5 57	5 57
4	1	6 1	5 57	5 54	5 50	5 48	5 45	5 42	5 38	5 36	5 34	5 32	5 30	5 27
4	11	5 58	5 52	5 46	5 38	5 34	5 29	5 24	5 17	5 14	5 10	5 6	5 2	4 57
4	21	55	47	38	27	21	14	5 6	4 56	4 52	4 47	4 41	4 35	4 28
5	1	53	43	31	18	10	5 1	4 50	37	31	25	4 17	4 9	3 59
5	11	53	40	26	9	5 0	4 49	36	21	4 13	4 5	3 56	3 45	3 33
5	21	53	38	22	5 3	4 52	40	25	4 7	3 58	3 48	3 37	25	3 10
6	10	5 54	5 37	5 20	4 59	4 47	4 34	4 17	3 57	3 47	3 36	3 23	3 8	2 51
6	20	55	38	19	58	45	30	12	51	49	28	14	2 58	38
6	30	5 59	42	23	5 1	48	33	16	3 53	42	30	16	2 59	39
7	10	6 1	45	27	6 4	53	39	22	4 1	3 51	39	26	3 11	2 52
7	20	6 2	5 47	5 30	5 11	5 0	4 46	4 31	4 12	4 2	3 52	3 40	3 27	3 11
8	30	3	49	34	17	7	4 55	4 1	25	17	4 8	3 58	3 46	3 33
8	9	2	50	37	23	14	5 5	4 53	39	32	25	4 17	4 8	3 57
8	19	6 0	51	40	29	22	14	5 5	4 54	4 49	4 43	36	29	4 21
8	29	5 57	51	43	34	29	24	17	5 9	5 5	4 56	4 51	4 45	4 45
9	8	5 54	5 50	5 45	5 40	5 37	5 33	5 29	5 24	5 21	5 19	5 16	5 12	5 9
9	18	51	49	47	45	44	43	41	39	38	36	35	34	32
9	28	47	49	50	51	51	5 52	5 53	5 54	5 54	5 55	5 55	5 55	5 56
10	8	44	48	52	5 57	5 59	6 2	6 5	6 9	6 11	6 13	6 15	6 17	6 20
10	18	42	48	55	6 3	6 7	12	18	25	28	32	35	6 40	6 44
10	28	5 40	5 49	5 59	6 10	6 16	6 23	6 32	6 41	6 46	6 51	6 56	7 3	7 9
11	7	40	52	6 4	18	26	35	45	6 58	7 4	7 10	7 18	26	7 35
11	17	41	55	9	26	35	46	6 59	7 14	22	30	39	7 49	8 1
11	27	44	5 59	15	34	45	6 57	7 12	30	38	7 48	7 58	8 10	24
12	7	47	6 4	22	42	6 54	7 7	23	43	7 52	8 3	8 14	28	44
12	17	5 52	6 9	6 28	6 49	7 1	7 15	7 32	7 53	8 2	8 13	8 26	8 40	8 58
12	27	5 57	14	33	54	6	20	37	58	7	18	31	46	9 3
12	37	6 2	6 18	6 36	6 57	7 8	7 22	7 38	7 58	8 7	8 17	8 29	8 43	8 59

南緯に対する改正数

12	8	12	8	12	8	12	9	12	9	12	10	12	11	12	13	12	13	12	14	12	15	12	17	12	18
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南緯日没時=北緯日出時+南緯に対する改正数

薄明時間

北緯日附	南緯日附	0	10	20	30	35	40	45	50	52	54	56	58	60
1	1	1 15	1 16	1 18	1 25	1 30	1 37	1 46	1 58	2 5	2 12	2 20	2 31	2 43
1	11	13	14	14	17	24	29	36	45	56	2	9	17	27
1	21	24	13	13	17	23	28	34	43	54	2 0	6	14	22
1	31	4	12	12	15	22	27	33	41	51	1 57	3	9	17
2	10	14	11	11	14	21	25	31	39	49	54	2 0	5	13
2	20	25	1 10	1 10	1 14	1 20	1 24	1 30	1 38	1 48	1 52	1 58	2 4	2 11
3	2	9	4	9	10	13	19	24	30	37	47	52	57	3 10
3	12	14	9	9	13	19	24	30	37	48	53	1 58	5	12
3	22	24	8	10	13	20	24	31	39	50	1 55	2 1	8	17
4	1	10	5	9	10	14	21	26	32	41	54	2 0	7	16
4	11	14	1 9	1 11	1 15	1 22	1 28	1 35	1 45	1 59	2 7	2 16	2 26	2 40
4	21	24	10	12	16	24	30	39	50	2 7	17	29	2 45	3 9
5	1	11	3	11	13	18	27	33	43	1 57	19	32	2 51	3 23
5	11	13	12	14	19	29	37	48	2 5	34	2 56			
5	21	22	13	15	21	32	40	53	14					
6	10	11	1 14	1 16	1 22	1 34	1 44	1 58	2 22					
6	20	11	15	17	23	36	46	2 1	30					
6	30	20	15	17	24	36	47	3	33					
7	10	30	15	17	24	36	46	2 2	31					
7	20	1 8	1 14	1 17	1 23	1 34	1 44	1 59	2 25					

月	日	北緯日没時												
		0	10	20	30	35	40	45	50	52	54	56	58	60
1	1	18 7 17	50 17	32 17	11 16	59 16	45 16	29 16	9 15	59 15	48 15	36 15	22 15	5
1	11	12 17	56 39	19 17	8 16	55 39	21 16	12 16	2 15	51 38	15 16	9 15	58 15	23
1	21	15 18	1 45	28 17	17 6	16 52	35 28	19 16	9 15	58 15	45 15	30 16	21 16	10
1	31	17 5	51 36	27 18	17 6	16 52	35 28	19 16	9 15	58 15	45 15	30 16	21 16	10
2	10	18 8	17 57	45 38	30 20	17 9	17 4	16 58	16 52	16 45	16 37			
2	20	18 18	10 18	2 17	52 17	47 17	41 17	34 17	26 17	22 17	18 17	14 17	9 17	3
3	2	16 11	6 18	0 17	56 17	53 17	48 43	41 38	35 32	29 29				
3	12	14 11	9 6	18 5	18 3	18 2	17 59	17 58	17 57	17 56	17 55	17 54		
3	22	11 11	12 13	13 14	14 18	15 18	16 18	16 18	16 18	16 18	16 18	16 18	16 18	18
4	1	8 11	14 19	21 24	27 31	33 36	37 45	41 53	45 61	49 69	53 77	57 85	61 93	65 101
4	11	18 5	18 11	18 17	18 25	18 29	18 35	18 40	18 47	18 50	18 54	18 58	19 2	7
4	21	2 11	20 31	37 44	18 52	19 2	19 7	19 12	19 18	19 24	19 30	19 36	19 42	32
5	1	1 12	24 37	45 18	54 19	5 18	18 2	18 5	18 8	18 11	18 14	18 17	18 20	23
5	11	0 13	27 44	18 53	19 4	17 33	40 19	49 19	58 20	67 20	76 20	85 20	94 20	103 20
5	21	0 15	31 50	19 1	14 29	47 19	56 20	6 20	17 30	26 20	35 20	44 20	53 20	62 20
6	10	18 1	18 18	35 18	56 19	8 19	22 19	38 19	59 20	9 20	20 20	33 20	48 21	5
6	20	3 20	39 19	1 13	28 46	20 8	19 31	45 21	1 31	45 21	1 31	45 21	1 31	21
6	30	5 23	42 4	17 32	50 13	24 36	51 8	24 36	51 8	24 36	51 8	24 36	51 8	28
7	10	7 25	44 5	18 33	51 13	24 36	50 21	7 27	37	50 21	7 27	37	50 21	27
7	20	9 26	44 5	17 31	48 9	19 30	43 20	59	17	43 20	59	17	43 20	17
7	30	18 10	18 25	18 42	19 1	19 12	19 25	19 41	20 0	20 9	20 19	20 31	20 44	21 0
8	9	10 24	39 18	56 19	5 17	30 19	47 19	55 20	4 20	14 25	20 38			
8	19	9 21	33 48	18 56	19 6	17 31	38 19	45 19	53 20	2 30	12			
8	29	7 17	27 38	45 18	53 19	2 19	13 19	18 23	30 19	37 19	45			
9	8	5 11	19 27	32 38	18 44	18 52	18 56	19 0	19 5	19 10	19 15			
9	18	1 18	6 18	10 18	15 18	18 18	22 18	26 18	31 18	33 18	36 18	39 18	42 18	45
9	28	17 58	17 59	18 1 18	3 18	4 18	5 18	7 18	9 18	10 18	11 18	12 18	14 18	16
10	8	54 53	17 52	17 50	17 50	17 49	17 48	17 47	17 47	17 46	17 46	17 45	17 45	45
10	18	51 47	43 38	36 33	29 26	24 17	22 17	20 17	17 17	17 14				
10	28	49 42	35 27	23 18	17 12	17 5	17 2	16 58	16 54	16 50	16 45			
11	7	17 48	17 38	17 28	17 17	17 11	17 4	16 56	16 46	16 41	16 36	16 31	16 24	16 17
11	17	47 36	23 9	17 1	16 52	42 29	23 16	16 9	16 1	15 51				
11	27	49 35	20 4	16 54	43 30	15 16	8 16	0 15	51 15	40 29				
12	7	51 36	19 1	50 37	2									

地方平時を標準時で表はす爲の改正表

Table with columns for longitude (70E to 130W) and rows for time differences (0 to 108). It provides correction values for local standard time.

所要月出没時(地方平時)=135°E, 求める緯度に対する月出没時干改正数 135°EよりE... 前日値との差を用ひ 135°EよりW... 翌日値との差を用ひ

月出沒時表

凡例

- 1. 本表は最高0で月の上辺が観地平線に接する時刻を載せてある。
2. 本表は東経135度の月出沒時を日本標準時で載せてある。東経135度以外の地点の月出沒時を求めるには次のようにする。

- (1) 與えられた地点の経度が135°Eより東(西)ならば(西)の値を本表より求める(基準経度135°E)。
(2) このようにして求めた兩日値の差及び與えられた経度を引数として第一改正表より第一改正数を求める。

- (3) この第一改正数を(1)で求めた当日値より減ず(当日値に加え)ると與えられた地点に対する月出沒時の地方平時を得る。
(4) 地方平時に標準子午線の経度時を加え、與えられた地点の経度時を減ずれば標準時を得る(東経は正とする。西経の場合には加減を逆にする)。又は標準子午線との経差を引数として、第二改正表より改正数を求めて加減してもよい。

使用例

例1 昭和24年1月22日 東経147°20', 北緯38°40'における月出沒時を求める(標準子午線、東経150°)。

Table showing moon rise and set times for Example 1, including longitude, latitude, and time values.

例2 昭和24年2月5日西経175°30', 北緯26°48'における月出沒時を求める(標準子午線、西経175°)。

Table showing moon rise and set times for Example 2, including longitude, latitude, and time values.

(註1) 北緯35°,40°共に1月21日に月出はない。22日より一つ前の月出は夫々1月20日22h25m及び23h28mである。兩者間に緯度補間を行つて22日より一つ前の月出時を得る。

(註2) 北緯20°,30°共に2月6日には月出はない。5日より一つ次の月出は夫々7日0h36m, 0h55mである。兩者間に緯度補間を行つて5日より一つ次の月出時を得る。

(註3) 5日を基準として求めると月出時は6日0h43mとなり、その一つ前の月出時を求めると、4日23h48mとなる。即ち與えられた地点においては5日に月出はない。

第二改正表

地方平時に加減して標準時を得る爲の改正表

Table with columns for longitude difference and correction values, used for converting local standard time to standard time.