

### MERKURY

M d 2024	Wsch.	Kulm.	Zach.	A	$\alpha$	$\delta$	D	F	V	$\Delta I$
	$\lambda=0$		$\varphi=50$		0 <sup>h</sup> UT					
	h m	h m	h m	°	h m	° ' "	"		m	°
I 0	6 30	10 49	15 09	58	17 28.3	- 20 08	8.9	0.23	0.9	-17
4	6 16	10 34	14 52	58	17 27.7	- 20 25	8.0	0.39	0.2	-21
8	6 13	10 28	14 42	57	17 36.1	- 21 02	7.3	0.52	-0.1	-23
12	6 16	10 27	14 37	55	17 50.6	- 21 44	6.7	0.62	-0.2	-23
16	6 23	10 30	14 37	54	18 09.1	- 22 21	6.2	0.70	-0.2	-23
20	6 31	10 36	14 40	54	18 30.3	- 22 47	5.9	0.76	-0.2	-22
24	6 40	10 43	14 46	53	18 53.3	- 22 58	5.6	0.81	-0.2	-21
28	6 47	10 52	14 56	54	19 17.6	- 22 51	5.4	0.85	-0.3	-20
II 1	6 54	11 01	15 09	55	19 42.8	- 22 24	5.2	0.88	-0.3	-18
5	6 59	11 11	15 24	56	20 08.6	- 21 37	5.1	0.91	-0.4	-16
9	7 02	11 22	15 42	58	20 34.9	- 20 28	5.0	0.93	-0.5	-14
13	7 04	11 33	16 02	61	21 01.5	- 18 58	4.9	0.95	-0.6	-12
17	7 05	11 44	16 24	64	21 28.4	- 17 06	4.8	0.97	-0.8	-9
21	7 04	11 55	16 48	68	21 55.6	- 14 52	4.8	0.98	-1.1	-6
25	7 02	12 07	17 14	72	22 22.9	- 12 16	4.9	0.99	-1.4	-3
29	6 58	12 19	17 41	77	22 50.5	- 9 18	4.9	1.00	-1.7	-2
III 4	6 54	12 31	18 09	82	23 18.3	- 6 01	5.0	0.99	-1.6	4
8	6 49	12 43	18 39	88	23 46.0	- 2 28	5.2	0.96	-1.5	8
12	6 43	12 54	19 08	94	0 13.1	1 13	5.5	0.89	-1.3	12
16	6 35	13 04	19 34	99	0 38.8	4 50	5.9	0.78	-1.1	15
20	6 26	13 10	19 56	104	1 01.4	8 07	6.5	0.63	-0.7	17
24	6 14	13 11	20 10	108	1 19.3	10 47	7.3	0.47	-0.3	19
28	6 01	13 06	20 13	111	1 31.1	12 38	8.2	0.31	0.5	18
IV 1	5 45	12 55	20 04	112	1 36.1	13 29	9.3	0.17	1.5	16
5	5 29	12 36	19 43	111	1 34.2	13 18	10.3	0.07	2.8	11
9	5 12	12 13	19 13	109	1 27.1	12 09	11.1	0.02	4.4	6
13	4 56	11 48	18 38	106	1 17.4	10 19	11.6	0.00	5.4	-3
17	4 42	11 23	18 03	103	1 08.3	8 15	11.6	0.03	3.9	-9
21	4 29	11 02	17 34	100	1 02.4	6 26	11.3	0.08	2.7	-15
25	4 18	10 45	17 12	99	1 00.8	5 11	10.7	0.15	1.9	-19
29	4 08	10 33	16 58	98	1 03.8	4 37	10.0	0.23	1.3	-23
V 3	3 59	10 25	16 51	98	1 11.1	4 42	9.3	0.30	1.0	-25
7	3 51	10 20	16 50	99	1 22.0	5 24	8.6	0.37	0.7	-26
11	3 43	10 19	16 55	101	1 36.0	6 35	7.9	0.43	0.5	-26
15	3 37	10 20	17 05	104	1 52.8	8 12	7.4	0.50	0.3	-26
19	3 31	10 24	17 19	107	2 12.3	10 08	6.9	0.57	0.0	-24
23	3 26	10 31	17 38	111	2 34.3	12 20	6.4	0.64	-0.2	-22
27	3 22	10 40	18 00	115	2 59.1	14 43	6.0	0.72	-0.4	-20
31	3 21	10 52	18 27	119	3 26.8	17 09	5.7	0.80	-0.7	-16
VI 4	3 22	11 08	18 56	123	3 57.7	19 33	5.4	0.88	-1.1	-13
8	3 27	11 27	19 28	127	4 31.7	21 42	5.2	0.95	-1.5	-8
12	3 37	11 48	20 01	130	5 08.5	23 26	5.1	0.99	-2.0	-3
16	3 52	12 11	20 30	131	5 46.7	24 32	5.1	1.00	-2.1	-2
20	4 12	12 33	20 54	132	6 24.9	24 54	5.1	0.96	-1.6	7
24	4 36	12 54	21 11	131	7 01.5	24 33	5.3	0.91	-1.2	11
28	5 01	13 11	21 21	129	7 35.5	23 34	5.5	0.84	-0.8	15

### MERKURY (c.d.)

M d 2024	Wsch.	Kulm.	Zach.	A	$\alpha$	$\delta$	D	F	V	$\Delta I$
	$\lambda=0$		$\varphi=50$		$0^h UT$					
	h m	h m	h m	°	h m	° ' "	"		m	°
VII 2	5 26	13 26	21 25	126	8 06.5	22 07	5.8	0.77	-0.5	19
6	5 49	13 38	21 25	123	8 34.2	20 18	6.1	0.70	-0.3	21
10	6 10	13 46	21 21	119	8 58.8	18 16	6.4	0.64	-0.0	24
14	6 28	13 51	21 14	116	9 20.3	16 07	6.8	0.58	0.1	25
18	6 42	13 54	21 04	112	9 38.8	13 56	7.3	0.51	0.3	27
22	6 52	13 53	20 52	109	9 54.1	11 49	7.8	0.45	0.5	27
26	6 58	13 49	20 38	106	10 06.1	9 52	8.4	0.39	0.7	27
30	6 58	13 40	20 21	103	10 14.3	8 12	9.0	0.32	0.9	25
VIII 3	6 52	13 28	20 03	101	10 18.3	6 56	9.6	0.24	1.3	23
7	6 39	13 11	19 43	100	10 17.4	6 14	10.3	0.17	1.8	19
11	6 17	12 49	19 21	101	10 11.7	6 13	10.8	0.09	2.6	15
15	5 47	12 22	18 59	102	10 01.6	6 58	11.0	0.03	3.8	9
19	5 12	11 55	18 38	104	9 49.3	8 23	10.9	0.01	4.8	5
23	4 37	11 28	18 21	107	9 38.4	10 08	10.4	0.03	3.7	-8
27	4 07	11 08	18 09	110	9 32.6	11 48	9.5	0.11	2.1	-13
31	3 48	10 55	18 02	111	9 34.5	12 56	8.5	0.24	0.9	-16
IX 4	3 41	10 50	17 59	112	9 44.8	13 18	7.5	0.40	-0.0	-18
8	3 47	10 53	17 59	110	10 02.7	12 43	6.7	0.58	-0.6	-18
12	4 02	11 01	17 59	108	10 26.0	11 15	6.0	0.74	-1.0	-16
16	4 24	11 12	17 58	104	10 52.3	9 03	5.6	0.86	-1.2	-13
20	4 50	11 24	17 56	100	11 19.7	6 20	5.2	0.94	-1.3	-9
24	5 16	11 35	17 52	95	11 47.0	3 19	5.0	0.98	-1.4	-6
28	5 42	11 46	17 48	90	12 13.5	0 12	4.9	1.00	-1.5	-3
X 2	6 06	11 56	17 43	85	12 39.3	- 2 55	4.8	1.00	-1.5	-1
6	6 30	12 05	17 38	81	13 04.3	- 5 58	4.7	0.99	-1.2	4
10	6 53	12 13	17 32	76	13 28.7	- 8 54	4.7	0.98	-0.9	7
14	7 15	12 22	17 26	72	13 52.7	- 11 40	4.8	0.97	-0.7	9
18	7 37	12 30	17 21	67	14 16.5	- 14 15	4.8	0.95	-0.5	12
22	7 58	12 37	17 16	64	14 40.1	- 16 37	4.9	0.93	-0.4	14
26	8 17	12 45	17 12	60	15 03.6	- 18 47	5.0	0.91	-0.4	16
30	8 36	12 53	17 09	57	15 27.1	- 20 41	5.2	0.88	-0.3	18
XI 3	8 54	13 00	17 06	54	15 50.4	- 22 19	5.4	0.84	-0.3	19
7	9 09	13 08	17 05	52	16 13.4	- 23 39	5.7	0.80	-0.3	21
11	9 22	13 14	17 05	50	16 35.4	- 24 39	6.0	0.74	-0.3	22
15	9 30	13 18	17 05	49	16 55.6	- 25 17	6.4	0.66	-0.3	23
19	9 33	13 18	17 04	49	17 12.7	- 25 31	7.0	0.56	-0.2	22
23	9 26	13 13	17 01	49	17 24.4	- 25 19	7.7	0.43	0.0	21
27	9 07	12 59	16 52	51	17 27.5	- 24 38	8.5	0.27	0.6	17
XII 1	8 34	12 33	16 34	53	17 18.9	- 23 24	9.4	0.10	2.0	11
5	7 47	11 58	16 09	56	16 59.5	- 21 40	9.9	0.01	4.7	3
9	6 59	11 20	15 42	59	16 37.4	- 19 53	9.7	0.04	3.2	-7
13	6 24	10 52	15 20	61	16 23.2	- 18 46	9.0	0.18	1.1	-15
17	6 06	10 35	15 03	61	16 20.6	- 18 36	8.1	0.36	0.2	-19
21	6 02	10 27	14 52	60	16 27.9	- 19 11	7.3	0.51	-0.2	-21
25	6 06	10 26	14 46	58	16 42.0	- 20 08	6.6	0.63	-0.3	-22
29	6 15	10 29	14 43	56	17 00.5	- 21 11	6.1	0.72	-0.4	-22
2025 I 2	6 27	10 35	14 43	55	17 21.8	- 22 10	5.8	0.79	-0.4	-21