

EFFEMERIDI DEL MESE FEBBRAIO 2024 - COELUM ASTRONOMIA

	NAME	RA	DEC	SUNDIST	ELONG	MAG	DIAM	PHASE	RISE	TRAN	SET
	<i>NAME</i>	<i>Oggetto</i>									
	<i>RA</i>	<i>Ascensione Retta</i>									
	<i>DEC</i>	<i>Declinazione</i>									
	<i>SUNDIST</i>	<i>Distanza Sole</i>									
	<i>EADIST</i>	<i>Distanza Terra</i>									
	<i>ELONG</i>	<i>Elongazione Massima</i>									
	<i>MAG</i>	<i>Magnitudine</i>									
	<i>DIAM</i>	<i>Diametro</i>									
	<i>PHASE</i>	<i>Fase</i>									
	<i>RISE</i>	<i>Orario Sorgere</i>									
	<i>TRAN</i>	<i>Orario al Meridiano</i>									
	<i>SET</i>	<i>Orario Tramonto</i>									
1	Sole	20:56:03.6	-17:18:59.6	0.0	0.0	-26.7	1948.0	100.0	07:23	12:23	17:24
2	Sole	21:00:08.5	-17:02:00.4	0.0	0.0	-26.7	1947.8	100.0	07:22	12:24	17:26
3	Sole	21:04:12.5	-16:44:43.1	0.0	0.0	-26.7	1947.5	100.0	07:21	12:24	17:27
4	Sole	21:08:15.8	-16:27:08.2	0.0	0.0	-26.7	1947.2	100.0	07:20	12:24	17:28
5	Sole	21:12:18.3	-16:09:16.0	0.0	0.0	-26.7	1946.9	100.0	07:19	12:24	17:30
6	Sole	21:16:19.9	-15:51:07.0	0.0	0.0	-26.7	1946.5	100.0	07:18	12:24	17:31
7	Sole	21:20:20.8	-15:32:41.6	0.0	0.0	-26.7	1946.2	100.0	07:17	12:24	17:32
8	Sole	21:24:21.0	-15:14:00.2	0.0	0.0	-26.7	1945.9	100.0	07:16	12:24	17:34
9	Sole	21:28:20.3	-14:55:03.3	0.0	0.0	-26.7	1945.6	100.0	07:14	12:24	17:35
10	Sole	21:32:18.8	-14:35:51.3	0.0	0.0	-26.7	1945.2	100.0	07:13	12:24	17:36
11	Sole	21:36:16.6	-14:16:24.7	0.0	0.0	-26.7	1944.9	100.0	07:12	12:24	17:37
12	Sole	21:40:13.5	-13:56:43.8	0.0	0.0	-26.7	1944.5	100.0	07:11	12:24	17:39
13	Sole	21:44:09.7	-13:36:49.1	0.0	0.0	-26.7	1944.2	100.0	07:09	12:24	17:40
14	Sole	21:48:05.2	-13:16:41.0	0.0	0.0	-26.7	1943.8	100.0	07:08	12:24	17:41
15	Sole	21:51:59.8	-12:56:20.0	0.0	0.0	-26.7	1943.4	100.0	07:07	12:24	17:42
16	Sole	21:55:53.8	-12:35:46.5	0.0	0.0	-26.7	1943.1	100.0	07:05	12:24	17:44
17	Sole	21:59:46.9	-12:15:00.9	0.0	0.0	-26.7	1942.7	100.0	07:04	12:24	17:45
18	Sole	22:03:39.4	-11:54:03.7	0.0	0.0	-26.7	1942.3	100.0	07:03	12:24	17:46
19	Sole	22:07:31.1	-11:32:55.2	0.0	0.0	-26.7	1941.9	100.0	07:01	12:24	17:47
20	Sole	22:11:22.2	-11:11:35.9	0.0	0.0	-26.7	1941.5	100.0	07:00	12:24	17:49
21	Sole	22:15:12.6	-10:50:06.2	0.0	0.0	-26.7	1941.1	100.0	06:58	12:24	17:50
22	Sole	22:19:02.3	-10:28:26.4	0.0	0.0	-26.7	1940.7	100.0	06:57	12:24	17:51
23	Sole	22:22:51.3	-10:06:37.1	0.0	0.0	-26.7	1940.3	100.0	06:55	12:23	17:52
24	Sole	22:26:39.7	-09:44:38.5	0.0	0.0	-26.7	1939.8	100.0	06:54	12:23	17:54
25	Sole	22:30:27.5	-09:22:31.1	0.0	0.0	-26.7	1939.4	100.0	06:52	12:23	17:55
26	Sole	22:34:14.8	-09:00:15.2	0.0	0.0	-26.7	1938.9	100.0	06:51	12:23	17:56
27	Sole	22:38:01.4	-08:37:51.2	0.0	0.0	-26.7	1938.5	100.0	06:49	12:23	17:57
28	Sole	22:41:47.5	-08:15:19.5	0.0	0.0	-26.7	1938.0	100.0	06:47	12:23	17:58
29	Sole	22:45:33.1	-07:52:40.5	0.0	0.0	-26.7	1937.5	100.0	06:46	12:22	17:59
1	Luna	13:10:40.9	-07:37:34.9	0.98521	-112.4	-10.9	1787.0	69.1	--:--	04:48	10:18
2	Luna	13:54:33.9	-12:59:46.6	0.98535	-101.4	-10.6	1796.7	60.0	00:07	05:30	10:39
3	Luna	14:41:10.6	-17:58:28.5	0.98549	-90.1	-10.3	1811.3	50.3	01:12	06:15	11:04
4	Luna	15:31:32.8	-22:18:59.6	0.98564	-78.6	-10.1	1830.5	40.3	02:20	07:05	11:36
5	Luna	16:26:24.8	-25:42:51.8	0.98579	-66.7	-9.8	1853.6	30.3	03:31	07:59	12:16
6	Luna	17:25:50.1	-27:48:39.1	0.98594	-54.3	-9.5	1879.4	20.9	04:39	08:58	13:09
7	Luna	18:28:49.5	-28:15:38.9	0.9861	-41.5	-9.2	1905.9	12.6	05:42	10:01	14:15
8	Luna	19:33:21.1	-26:50:20.1	0.98627	-28.3	-8.9	1930.8	6.0	06:35	11:04	15:33

9 Luna	20:37:01.3	-23:32:30.7	0.98644	-14.9	-8.6	1951.6	1.7	07:17	12:05	16:55
10 Luna	21:38:02.3	-18:36:44.7	0.98661	4.2	-8.3	1966.1	0.1	07:51	13:02	18:19
11 Luna	22:35:44.6	-12:28:22.2	0.98678	14.6	-8.6	1972.7	1.6	08:19	13:56	19:40
12 Luna	23:30:29.7	-05:37:18.6	0.98696	28.4	-8.9	1970.9	6.0	08:44	01:32	20:59
13 Luna	00:23:14.9	01:26:54.5	0.98715	42.2	-9.3	1961.5	13.0	09:08	19:32	22:15
14 Luna	01:15:10.2	08:17:53.4	0.98734	55.7	-9.6	1946.1	21.9	09:32	15:38	23:31
15 Luna	02:07:23.1	14:33:11.9	0.98753	68.9	-9.9	1926.9	32.1	09:57	16:28	--:--
16 Luna	03:00:46.5	19:54:07.4	0.98773	81.7	-10.2	1905.8	42.9	10:27	17:19	00:46
17 Luna	03:55:47.5	24:05:18.4	0.98792	94.1	-10.5	1884.8	53.7	11:03	18:11	01:59
18 Luna	04:52:17.7	26:54:59.7	0.98813	106.1	-10.8	1865.1	64.0	11:47	19:06	03:08
19 Luna	05:49:30.3	28:16:10.0	0.98833	117.8	-11.1	1847.5	73.4	12:39	20:01	04:10
20 Luna	06:46:11.9	28:07:48.8	0.98854	129.2	-11.3	1832.2	81.7	13:38	20:56	05:02
21 Luna	07:41:06.6	26:35:17.2	0.98876	140.5	-11.6	1819.3	88.6	14:41	21:49	05:45
22 Luna	08:33:20.0	23:49:02.4	0.98897	151.5	-11.9	1808.7	94.0	15:46	22:38	06:18
23 Luna	09:22:31.6	20:02:22.8	0.98919	162.4	-12.2	1800.1	97.7	16:50	23:25	06:46
24 Luna	10:08:51.6	15:29:18.7	0.98942	172.8	-12.4	1793.3	99.6	17:53	00:09	07:09
25 Luna	10:52:52.4	10:23:08.2	0.98964	-174.4	-12.5	1788.4	99.8	18:55	00:50	07:29
26 Luna	11:35:19.1	04:55:56.5	0.98987	-164.3	-12.2	1785.5	98.1	19:55	01:29	07:47
27 Luna	12:17:03.6	-00:41:19.2	0.99011	-153.6	-11.9	1784.8	94.8	20:56	02:08	08:05
28 Luna	12:59:01.3	-06:18:21.0	0.99034	-142.8	-11.6	1786.9	89.9	21:58	02:47	08:23
29 Luna	13:42:10.0	-11:44:46.7	0.99058	-131.9	-11.4	1792.2	83.5	23:02	03:28	08:43
1 Mercurio	19:42:32.7	-22:24:23.9	0.46627	-18.0	-0.3	5.2	87.9	06:33	11:11	15:49
2 Mercurio	19:48:56.9	-22:14:37.8	0.46662	-17.5	-0.3	5.2	88.6	06:35	11:14	15:52
3 Mercurio	19:55:23.3	-22:03:33.7	0.46669	-17.1	-0.3	5.2	89.2	06:37	11:16	15:55
4 Mercurio	20:01:51.7	-21:51:11.0	0.46648	-16.6	-0.3	5.1	89.9	06:38	11:19	15:59
5 Mercurio	20:08:22.0	-21:37:29.2	0.466	-16.1	-0.4	5.1	90.5	06:40	11:21	16:03
6 Mercurio	20:14:54.0	-21:22:27.5	0.46523	-15.6	-0.4	5.1	91.1	06:41	11:24	16:06
7 Mercurio	20:21:27.5	-21:06:05.5	0.46419	-15.0	-0.4	5.0	91.7	06:43	11:27	16:10
8 Mercurio	20:28:02.5	-20:48:22.7	0.46287	-14.5	-0.4	5.0	92.3	06:44	11:29	16:14
9 Mercurio	20:34:38.9	-20:29:18.8	0.46127	-13.9	-0.5	5.0	92.9	06:46	11:32	16:18
10 Mercurio	20:41:16.5	-20:08:53.4	0.45941	-13.4	-0.5	5.0	93.4	06:47	11:35	16:22
11 Mercurio	20:47:55.3	-19:47:06.1	0.45727	-12.8	-0.5	4.9	93.9	06:48	11:37	16:27
12 Mercurio	20:54:35.1	-19:23:56.6	0.45486	-12.2	-0.6	4.9	94.4	06:49	11:40	16:31
13 Mercurio	21:01:16.0	-18:59:24.6	0.45219	-11.6	-0.6	4.9	94.9	06:50	11:43	16:36
14 Mercurio	21:07:57.9	-18:33:30.0	0.44926	-11.0	-0.7	4.9	95.4	06:51	11:46	16:40
15 Mercurio	21:14:40.7	-18:06:12.6	0.44608	-10.4	-0.7	4.9	95.9	06:52	11:48	16:45
16 Mercurio	21:21:24.5	-17:37:32.2	0.44264	-9.7	-0.8	4.9	96.3	06:53	11:51	16:50
17 Mercurio	21:28:09.1	-17:07:28.7	0.43895	-9.1	-0.8	4.9	96.7	06:53	11:54	16:55
18 Mercurio	21:34:54.7	-16:36:02.2	0.43503	-8.4	-0.9	4.9	97.2	06:54	11:57	17:00
19 Mercurio	21:41:41.1	-16:03:12.6	0.43088	-7.7	-0.9	4.9	97.6	06:55	12:00	17:05
20 Mercurio	21:48:28.4	-15:29:00.1	0.4265	-7.0	-1.0	4.8	97.9	06:55	12:03	17:10
21 Mercurio	21:55:16.5	-14:53:24.7	0.42191	-6.3	-1.1	4.8	98.3	06:56	12:05	17:16
22 Mercurio	22:02:05.6	-14:16:26.9	0.41712	-5.6	-1.1	4.8	98.6	06:56	12:08	17:21
23 Mercurio	22:08:55.5	-13:38:06.8	0.41215	-4.9	-1.2	4.9	98.9	06:57	12:11	17:27
24 Mercurio	22:15:46.3	-12:58:25.0	0.40699	-4.2	-1.3	4.9	99.2	06:57	12:14	17:32
25 Mercurio	22:22:38.0	-12:17:22.1	0.40168	-3.5	-1.4	4.9	99.4	06:57	12:17	17:38
26 Mercurio	22:29:30.5	-11:34:59.1	0.39622	-2.8	-1.5	4.9	99.6	06:58	12:20	17:43
27 Mercurio	22:36:23.9	-10:51:17.1	0.39065	-2.3	-1.6	4.9	99.7	06:58	12:23	17:49
28 Mercurio	22:43:18.2	-10:06:17.3	0.38497	-1.9	-1.6	4.9	99.8	06:58	12:26	17:55
29 Mercurio	22:50:13.2	-09:20:01.7	0.37923	1.9	-1.7	4.9	99.8	06:58	12:29	18:01
1 Venere	18:45:49.8	-22:22:43.4	0.72447	-31.0	-4.0	12.3	85.7	05:37	10:14	14:51
2 Venere	18:51:09.9	-22:19:29.8	0.7246	-30.8	-4.0	12.3	85.9	05:38	10:15	14:53

3 Venere	18:56:29.9	-22:15:36.1	0.72473	-30.5	-4.0	12.3	86.1	05:39	10:17	14:54
4 Venere	19:01:49.6	-22:11:02.3	0.72486	-30.3	-4.0	12.2	86.4	05:40	10:18	14:56
5 Venere	19:07:09.0	-22:05:48.6	0.72499	-30.1	-4.0	12.2	86.6	05:41	10:19	14:58
6 Venere	19:12:28.1	-21:59:55.1	0.72512	-29.9	-4.0	12.1	86.8	05:42	10:21	15:00
7 Venere	19:17:46.8	-21:53:22.0	0.72524	-29.7	-4.0	12.1	87.0	05:43	10:22	15:02
8 Venere	19:23:05.0	-21:46:09.7	0.72537	-29.4	-4.0	12.0	87.2	05:44	10:24	15:04
9 Venere	19:28:22.7	-21:38:18.2	0.72549	-29.2	-4.0	12.0	87.4	05:44	10:25	15:06
10 Venere	19:33:39.8	-21:29:48.0	0.72561	-29.0	-4.0	11.9	87.6	05:45	10:26	15:08
11 Venere	19:38:56.4	-21:20:39.2	0.72573	-28.8	-4.0	11.9	87.8	05:46	10:28	15:10
12 Venere	19:44:12.2	-21:10:52.4	0.72585	-28.5	-4.0	11.9	88.0	05:46	10:29	15:12
13 Venere	19:49:27.4	-21:00:27.7	0.72597	-28.3	-3.9	11.8	88.2	05:47	10:30	15:14
14 Venere	19:54:41.8	-20:49:25.6	0.72608	-28.1	-3.9	11.8	88.4	05:47	10:31	15:16
15 Venere	19:59:55.4	-20:37:46.5	0.72619	-27.9	-3.9	11.7	88.6	05:48	10:33	15:18
16 Venere	20:05:08.2	-20:25:30.8	0.7263	-27.6	-3.9	11.7	88.8	05:48	10:34	15:20
17 Venere	20:10:20.2	-20:12:39.1	0.72641	-27.4	-3.9	11.7	89.0	05:49	10:35	15:23
18 Venere	20:15:31.3	-19:59:11.8	0.72651	-27.2	-3.9	11.6	89.2	05:49	10:36	15:25
19 Venere	20:20:41.5	-19:45:09.4	0.72661	-27.0	-3.9	11.6	89.4	05:49	10:38	15:27
20 Venere	20:25:50.7	-19:30:32.4	0.72671	-26.7	-3.9	11.5	89.6	05:49	10:39	15:29
21 Venere	20:30:59.0	-19:15:21.4	0.72681	-26.5	-3.9	11.5	89.7	05:49	10:40	15:32
22 Venere	20:36:06.3	-18:59:36.8	0.7269	-26.3	-3.9	11.5	89.9	05:49	10:41	15:34
23 Venere	20:41:12.6	-18:43:19.3	0.72699	-26.0	-3.9	11.4	90.1	05:49	10:42	15:36
24 Venere	20:46:18.0	-18:26:29.3	0.72708	-25.8	-3.9	11.4	90.3	05:49	10:44	15:38
25 Venere	20:51:22.3	-18:09:07.5	0.72717	-25.6	-3.9	11.4	90.5	05:49	10:45	15:41
26 Venere	20:56:25.5	-17:51:14.5	0.72725	-25.3	-3.9	11.3	90.6	05:49	10:46	15:43
27 Venere	21:01:27.7	-17:32:50.8	0.72733	-25.1	-3.9	11.3	90.8	05:49	10:47	15:45
28 Venere	21:06:28.9	-17:13:57.1	0.7274	-24.9	-3.9	11.3	91.0	05:49	10:48	15:48
29 Venere	21:11:29.0	-16:54:34.0	0.72748	-24.6	-3.9	11.2	91.2	05:49	10:49	15:50
1 Marte	19:29:37.7	-22:41:19.2	144.312	-21.0	1.3	4.0	98.5	06:21	10:57	15:33
2 Marte	19:32:53.8	-22:34:46.8	144.199	-21.2	1.3	4.0	98.4	06:20	10:56	15:32
3 Marte	19:36:09.7	-22:27:59.6	144.087	-21.5	1.3	4.0	98.4	06:19	10:55	15:32
4 Marte	19:39:25.5	-22:20:57.6	143.976	-21.7	1.3	4.1	98.4	06:17	10:55	15:32
5 Marte	19:42:41.1	-22:13:40.9	143.865	-22.0	1.3	4.1	98.3	06:16	10:54	15:32
6 Marte	19:45:56.5	-22:06:09.6	143.755	-22.2	1.3	4.1	98.3	06:15	10:53	15:32
7 Marte	19:49:11.7	-21:58:23.8	143.646	-22.5	1.3	4.1	98.2	06:14	10:53	15:32
8 Marte	19:52:26.7	-21:50:23.7	143.537	-22.7	1.3	4.1	98.2	06:12	10:52	15:32
9 Marte	19:55:41.4	-21:42:09.3	14.343	-23.0	1.3	4.1	98.2	06:11	10:51	15:32
10 Marte	19:58:55.9	-21:33:40.7	143.323	-23.2	1.3	4.1	98.1	06:10	10:50	15:31
11 Marte	20:02:10.1	-21:24:58.1	143.216	-23.5	1.3	4.1	98.1	06:08	10:50	15:31
12 Marte	20:05:24.0	-21:16:01.5	143.111	-23.7	1.3	4.1	98.0	06:07	10:49	15:31
13 Marte	20:08:37.7	-21:06:51.1	143.006	-24.0	1.3	4.1	98.0	06:06	10:48	15:31
14 Marte	20:11:51.0	-20:57:27.0	142.903	-24.2	1.3	4.1	98.0	06:04	10:48	15:31
15 Marte	20:15:04.1	-20:47:49.3	142.799	-24.4	1.3	4.1	97.9	06:03	10:47	15:31
16 Marte	20:18:16.8	-20:37:58.2	142.697	-24.7	1.3	4.1	97.9	06:02	10:46	15:31
17 Marte	20:21:29.2	-20:27:53.7	142.596	-24.9	1.3	4.1	97.8	06:00	10:45	15:31
18 Marte	20:24:41.4	-20:17:36.2	142.496	-25.2	1.3	4.1	97.8	05:59	10:45	15:31
19 Marte	20:27:53.2	-20:07:05.6	142.396	-25.4	1.3	4.2	97.7	05:57	10:44	15:31
20 Marte	20:31:04.6	-19:56:22.1	142.297	-25.6	1.3	4.2	97.7	05:56	10:43	15:31
21 Marte	20:34:15.7	-19:45:25.9	142.199	-25.9	1.3	4.2	97.6	05:54	10:42	15:31
22 Marte	20:37:26.5	-19:34:17.1	142.103	-26.1	1.3	4.2	97.6	05:53	10:42	15:31
23 Marte	20:40:36.9	-19:22:55.9	142.007	-26.4	1.3	4.2	97.5	05:51	10:41	15:31
24 Marte	20:43:47.0	-19:11:22.3	141.912	-26.6	1.3	4.2	97.5	05:50	10:40	15:31
25 Marte	20:46:56.7	-18:59:36.6	141.817	-26.8	1.3	4.2	97.5	05:48	10:39	15:31
26 Marte	20:50:06.1	-18:47:38.9	141.724	-27.1	1.3	4.2	97.4	05:46	10:38	15:31

27 Marte	20:53:15.1	-18:35:29.2	141.632	-27.3	1.3	4.2	97.4	05:45	10:38	15:32
28 Marte	20:56:23.7	-18:23:07.8	141.541	-27.5	1.3	4.2	97.3	05:43	10:37	15:32
29 Marte	20:59:32.0	-18:10:34.9	141.451	-27.8	1.3	4.2	97.3	05:41	10:36	15:32
1 Giove	02:21:05.7	12:57:48.8	499.103	85.7	-2.4	39.6	99.0	10:56	17:49	00:39
2 Giove	02:21:29.5	13:00:05.8	499.124	84.8	-2.4	39.5	99.0	10:52	17:46	00:36
3 Giove	02:21:54.1	13:02:25.9	499.144	83.9	-2.4	39.4	99.0	10:48	17:42	00:32
4 Giove	02:22:19.3	13:04:48.9	499.165	83.0	-2.4	39.2	99.0	10:45	17:39	00:29
5 Giove	02:22:45.1	13:07:14.8	499.186	82.1	-2.3	39.1	99.0	10:41	17:35	00:25
6 Giove	02:23:11.6	13:09:43.6	499.207	81.2	-2.3	39.0	99.0	10:37	17:32	00:22
7 Giove	02:23:38.7	13:12:15.2	499.227	80.3	-2.3	38.9	99.0	10:34	17:28	00:19
8 Giove	02:24:06.5	13:14:49.6	499.248	79.4	-2.3	38.7	99.0	10:30	17:25	00:16
9 Giove	02:24:34.8	13:17:26.7	499.269	78.5	-2.3	38.6	99.1	10:26	17:21	00:12
10 Giove	02:25:03.8	13:20:06.5	49.929	77.6	-2.3	38.5	99.1	10:23	17:18	00:09
11 Giove	02:25:33.4	13:22:48.8	499.311	76.7	-2.3	38.4	99.1	10:19	17:14	00:06
12 Giove	02:26:03.6	13:25:33.6	499.332	75.9	-2.3	38.3	99.1	10:16	17:11	00:03
13 Giove	02:26:34.3	13:28:20.9	499.353	75.0	-2.3	38.1	99.1	10:12	17:07	23:56
14 Giove	02:27:05.7	13:31:10.6	499.374	74.1	-2.3	38.0	99.1	10:08	17:04	23:53
15 Giove	02:27:37.6	13:34:02.6	499.396	73.2	-2.3	37.9	99.1	10:05	17:01	23:50
16 Giove	02:28:10.1	13:36:57.0	499.417	72.4	-2.3	37.8	99.1	10:01	16:57	23:47
17 Giove	02:28:43.2	13:39:53.6	499.438	71.5	-2.3	37.7	99.1	09:58	16:54	23:44
18 Giove	02:29:16.8	13:42:52.4	499.459	70.6	-2.3	37.6	99.1	09:54	16:50	23:40
19 Giove	02:29:51.0	13:45:53.4	499.481	69.8	-2.3	37.5	99.1	09:51	16:47	23:37
20 Giove	02:30:25.7	13:48:56.4	499.502	68.9	-2.2	37.4	99.1	09:47	16:44	23:34
21 Giove	02:31:00.9	13:52:01.5	499.524	68.1	-2.2	37.3	99.2	09:44	16:40	23:31
22 Giove	02:31:36.7	13:55:08.5	499.545	67.2	-2.2	37.2	99.2	09:40	16:37	23:28
23 Giove	02:32:12.9	13:58:17.4	499.567	66.4	-2.2	37.1	99.2	09:37	16:34	23:25
24 Giove	02:32:49.7	14:01:28.1	499.588	65.5	-2.2	37.0	99.2	09:33	16:30	23:22
25 Giove	02:33:27.0	14:04:40.6	49.961	64.7	-2.2	36.8	99.2	09:30	16:27	23:19
26 Giove	02:34:04.7	14:07:54.8	499.632	63.8	-2.2	36.7	99.2	09:26	16:24	23:15
27 Giove	02:34:43.0	14:11:10.8	499.654	63.0	-2.2	36.7	99.2	09:23	16:20	23:12
28 Giove	02:35:21.7	14:14:28.4	499.675	62.1	-2.2	36.6	99.2	09:19	16:17	23:09
29 Giove	02:36:00.9	14:17:47.5	499.697	61.3	-2.2	36.5	99.2	09:16	16:14	23:06
1 Saturno	22:35:11.1	-10:38:50.0	972.916	24.9	1.3	15.6	100.0	08:37	14:00	19:24
2 Saturno	22:35:37.1	-10:36:16.0	972.888	24.0	1.3	15.6	100.0	08:33	13:57	19:21
3 Saturno	22:36:03.2	-10:33:41.4	972.859	23.1	1.3	15.6	100.0	08:29	13:53	19:18
4 Saturno	22:36:29.5	-10:31:06.0	972.831	22.2	1.3	15.6	100.0	08:26	13:50	19:14
5 Saturno	22:36:55.8	-10:28:29.9	972.802	21.3	1.3	15.6	100.0	08:22	13:46	19:11
6 Saturno	22:37:22.3	-10:25:53.2	972.774	20.4	1.3	15.6	100.0	08:18	13:43	19:08
7 Saturno	22:37:48.9	-10:23:15.9	972.745	19.6	1.3	15.5	100.0	08:15	13:39	19:04
8 Saturno	22:38:15.5	-10:20:38.0	972.717	18.7	1.3	15.5	100.0	08:11	13:36	19:01
9 Saturno	22:38:42.3	-10:17:59.6	972.688	17.8	1.3	15.5	100.0	08:08	13:32	18:57
10 Saturno	22:39:09.1	-10:15:20.7	97.266	16.9	1.3	15.5	100.0	08:04	13:29	18:54
11 Saturno	22:39:36.0	-10:12:41.4	972.631	16.0	1.3	15.5	100.0	08:00	13:25	18:51
12 Saturno	22:40:03.0	-10:10:01.6	972.602	15.1	1.3	15.5	100.0	07:57	13:22	18:47
13 Saturno	22:40:30.0	-10:07:21.4	972.574	14.2	1.3	15.5	100.0	07:53	13:18	18:44
14 Saturno	22:40:57.1	-10:04:40.7	972.545	13.3	1.3	15.5	100.0	07:50	13:15	18:41
15 Saturno	22:41:24.3	-10:01:59.7	972.517	12.4	1.3	15.5	100.0	07:46	13:11	18:37
16 Saturno	22:41:51.5	-09:59:18.3	972.488	11.6	1.3	15.5	100.0	07:42	13:08	18:34
17 Saturno	22:42:18.8	-09:56:36.6	97.246	10.7	1.3	15.5	100.0	07:39	13:04	18:31
18 Saturno	22:42:46.2	-09:53:54.5	972.431	9.8	1.2	15.5	100.0	07:35	13:01	18:27
19 Saturno	22:43:13.5	-09:51:12.2	972.403	8.9	1.2	15.5	100.0	07:31	12:57	18:24
20 Saturno	22:43:41.0	-09:48:29.7	972.374	8.1	1.2	15.5	100.0	07:28	12:54	18:21

21 Saturno	22:44:08.4	-09:45:47.0	972.345	7.2	1.2	15.5	100.0	07:24	12:51	18:17
22 Saturno	22:44:35.9	-09:43:04.1	972.317	6.3	1.2	15.5	100.0	07:20	12:47	18:14
23 Saturno	22:45:03.4	-09:40:21.1	972.288	5.5	1.2	15.5	100.0	07:17	12:44	18:11
24 Saturno	22:45:30.9	-09:37:37.9	972.259	4.6	1.2	15.5	100.0	07:13	12:40	18:08
25 Saturno	22:45:58.5	-09:34:54.7	972.231	3.8	1.2	15.5	100.0	07:09	12:37	18:04
26 Saturno	22:46:26.0	-09:32:11.3	972.202	3.1	1.2	15.5	100.0	07:06	12:33	18:01
27 Saturno	22:46:53.6	-09:29:27.9	972.174	2.4	1.2	15.5	100.0	07:02	12:30	17:58
28 Saturno	22:47:21.1	-09:26:44.5	972.145	1.8	1.2	15.5	100.0	06:58	12:26	17:55
29 Saturno	22:47:48.7	-09:24:01.0	972.116	-1.6	1.2	15.5	100.0	06:55	12:23	17:51
1 Urano	03:06:54.6	17:12:46.5	1.960.849	97.5	5.7	3.5	99.9	11:25	18:35	01:42
2 Urano	03:06:55.6	17:12:52.3	1.960.833	96.5	5.7	3.5	99.9	11:21	18:31	01:38
3 Urano	03:06:56.9	17:12:58.9	1.960.817	95.5	5.7	3.5	99.9	11:17	18:27	01:34
4 Urano	03:06:58.4	17:13:06.5	1.960.801	94.5	5.7	3.5	99.9	11:13	18:23	01:30
5 Urano	03:07:00.1	17:13:14.9	1.960.785	93.5	5.7	3.5	99.9	11:09	18:19	01:26
6 Urano	03:07:02.0	17:13:24.2	1.960.769	92.5	5.7	3.5	99.9	11:05	18:15	01:23
7 Urano	03:07:04.2	17:13:34.4	1.960.753	91.5	5.7	3.5	99.9	11:01	18:11	01:19
8 Urano	03:07:06.5	17:13:45.5	1.960.737	90.5	5.7	3.5	99.9	10:57	18:08	01:15
9 Urano	03:07:09.1	17:13:57.4	1.960.721	89.5	5.7	3.5	99.9	10:53	18:04	01:11
10 Urano	03:07:11.9	17:14:10.2	1.960.705	88.5	5.7	3.5	99.9	10:49	18:00	01:07
11 Urano	03:07:14.8	17:14:23.8	1.960.688	87.5	5.7	3.5	99.9	10:45	17:56	01:03
12 Urano	03:07:18.0	17:14:38.2	1.960.672	86.5	5.7	3.5	99.9	10:41	17:52	00:59
13 Urano	03:07:21.4	17:14:53.4	1.960.656	85.5	5.7	3.5	99.9	10:37	17:48	00:55
14 Urano	03:07:25.0	17:15:09.5	196.064	84.5	5.7	3.5	99.9	10:34	17:44	00:51
15 Urano	03:07:28.8	17:15:26.4	1.960.624	83.5	5.7	3.5	99.9	10:30	17:40	00:47
16 Urano	03:07:32.8	17:15:44.1	1.960.608	82.5	5.7	3.5	99.9	10:26	17:37	00:43
17 Urano	03:07:37.1	17:16:02.6	1.960.592	81.5	5.7	3.5	99.9	10:22	17:33	00:40
18 Urano	03:07:41.5	17:16:22.0	1.960.576	80.5	5.7	3.5	99.9	10:18	17:29	00:36
19 Urano	03:07:46.1	17:16:42.2	196.056	79.5	5.8	3.5	99.9	10:14	17:25	00:32
20 Urano	03:07:51.0	17:17:03.2	1.960.544	78.5	5.8	3.5	99.9	10:10	17:21	00:28
21 Urano	03:07:56.0	17:17:25.0	1.960.528	77.6	5.8	3.5	99.9	10:06	17:17	00:24
22 Urano	03:08:01.2	17:17:47.6	1.960.512	76.6	5.8	3.5	99.9	10:03	17:13	00:20
23 Urano	03:08:06.6	17:18:10.9	1.960.495	75.6	5.8	3.5	99.9	09:59	17:10	00:17
24 Urano	03:08:12.3	17:18:35.0	1.960.479	74.6	5.8	3.5	99.9	09:55	17:06	00:13
25 Urano	03:08:18.1	17:18:59.9	1.960.463	73.6	5.8	3.5	99.9	09:51	17:02	00:09
26 Urano	03:08:24.1	17:19:25.5	1.960.447	72.6	5.8	3.4	99.9	09:47	16:58	00:05
27 Urano	03:08:30.2	17:19:51.8	1.960.431	71.7	5.8	3.4	99.9	09:44	16:54	00:02
28 Urano	03:08:36.6	17:20:18.8	1.960.415	70.7	5.8	3.4	99.9	09:40	16:50	23:54
29 Urano	03:08:43.2	17:20:46.6	1.960.399	69.7	5.8	3.4	99.9	09:36	16:47	23:50
1 Nettuno	23:46:24.3	-02:48:15.9	2.990.288	44.2	7.9	2.4	100.0	09:19	15:11	21:03
2 Nettuno	23:46:30.7	-02:47:32.9	2.990.285	43.2	7.9	2.4	100.0	09:16	15:07	21:00
3 Nettuno	23:46:37.3	-02:46:49.3	2.990.283	42.3	7.9	2.4	100.0	09:12	15:03	20:56
4 Nettuno	23:46:43.8	-02:46:05.2	299.028	41.3	7.9	2.4	100.0	09:08	15:00	20:52
5 Nettuno	23:46:50.5	-02:45:20.6	2.990.278	40.3	7.9	2.4	100.0	09:04	14:56	20:48
6 Nettuno	23:46:57.3	-02:44:35.5	2.990.275	39.3	7.9	2.4	100.0	09:00	14:52	20:44
7 Nettuno	23:47:04.1	-02:43:50.0	2.990.273	38.3	7.9	2.4	100.0	08:56	14:48	20:41
8 Nettuno	23:47:11.0	-02:43:03.9	299.027	37.3	7.9	2.4	100.0	08:52	14:44	20:37
9 Nettuno	23:47:18.0	-02:42:17.5	2.990.267	36.4	7.9	2.4	100.0	08:48	14:40	20:33
10 Nettuno	23:47:25.1	-02:41:30.7	2.990.265	35.4	7.9	2.4	100.0	08:44	14:37	20:29
11 Nettuno	23:47:32.2	-02:40:43.5	2.990.262	34.4	7.9	2.4	100.0	08:40	14:33	20:25
12 Nettuno	23:47:39.4	-02:39:55.9	299.026	33.4	7.9	2.4	100.0	08:37	14:29	20:22
13 Nettuno	23:47:46.6	-02:39:07.9	2.990.257	32.4	7.9	2.4	100.0	08:33	14:25	20:18
14 Nettuno	23:47:53.9	-02:38:19.6	2.990.255	31.5	7.9	2.4	100.0	08:29	14:21	20:14

15 Nettuno	23:48:01.3	-02:37:30.8	2.990.252	30.5	7.9	2.4	100.0	08:25	14:18	20:10
16 Nettuno	23:48:08.7	-02:36:41.7	299.025	29.5	7.9	2.4	100.0	08:21	14:14	20:07
17 Nettuno	23:48:16.2	-02:35:52.3	2.990.247	28.5	7.9	2.4	100.0	08:17	14:10	20:03
18 Nettuno	23:48:23.8	-02:35:02.5	2.990.245	27.6	7.9	2.4	100.0	08:13	14:06	19:59
19 Nettuno	23:48:31.4	-02:34:12.4	2.990.242	26.6	8.0	2.4	100.0	08:10	14:02	19:56
20 Nettuno	23:48:39.0	-02:33:22.0	299.024	25.6	8.0	2.4	100.0	08:06	13:59	19:52
21 Nettuno	23:48:46.7	-02:32:31.3	2.990.237	24.6	8.0	2.4	100.0	08:02	13:55	19:48
22 Nettuno	23:48:54.5	-02:31:40.3	2.990.234	23.7	8.0	2.4	100.0	07:58	13:51	19:45
23 Nettuno	23:49:02.3	-02:30:49.1	2.990.232	22.7	8.0	2.4	100.0	07:54	13:47	19:41
24 Nettuno	23:49:10.1	-02:29:57.7	2.990.229	21.7	8.0	2.4	100.0	07:51	13:43	19:37
25 Nettuno	23:49:18.0	-02:29:06.0	2.990.227	20.8	8.0	2.4	100.0	07:47	13:40	19:33
26 Nettuno	23:49:25.9	-02:28:14.2	2.990.224	19.8	8.0	2.4	100.0	07:43	13:36	19:30
27 Nettuno	23:49:33.9	-02:27:22.1	2.990.222	18.8	8.0	2.4	100.0	07:39	13:32	19:26
28 Nettuno	23:49:41.9	-02:26:29.8	2.990.219	17.9	8.0	2.4	100.0	07:35	13:28	19:22
29 Nettuno	23:49:49.9	-02:25:37.3	2.990.217	16.9	8.0	2.4	100.0	07:31	13:24	19:18