

**EFFEMERIDI DEL MESE LUGLIO 2024 - COELUM ASTRONOMIA**

<i>NAME</i>	<i>RA</i>	<i>DEC</i>	<i>SUNDIST</i>	<i>ELONG</i>	<i>MAG</i>	<i>DIAM</i>	<i>PHASE</i>	<i>RISE</i>	<i>TRAN</i>	<i>SET</i>
1 Sole	06:41:42.2	23:05:32.4	0.0	0.0	-26.7	1887.8	100.0	05:39	13:14	20:49
2 Sole	06:45:50.2	23:01:13.1	0.0	0.0	-26.7	1887.7	100.0	05:40	13:14	20:49
3 Sole	06:49:58.0	22:56:29.7	0.0	0.0	-26.7	1887.7	100.0	05:40	13:14	20:48
4 Sole	06:54:05.5	22:51:22.3	0.0	0.0	-26.7	1887.7	100.0	05:41	13:14	20:48
5 Sole	06:58:12.7	22:45:51.0	0.0	0.0	-26.7	1887.7	100.0	05:41	13:15	20:48
6 Sole	07:02:19.5	22:39:55.9	0.0	0.0	-26.7	1887.7	100.0	05:42	13:15	20:48
7 Sole	07:06:26.0	22:33:37.3	0.0	0.0	-26.7	1887.7	100.0	05:43	13:15	20:47
8 Sole	07:10:32.1	22:26:55.3	0.0	0.0	-26.7	1887.7	100.0	05:43	13:15	20:47
9 Sole	07:14:37.7	22:19:50.0	0.0	0.0	-26.7	1887.8	100.0	05:44	13:15	20:46
10 Sole	07:18:43.0	22:12:21.7	0.0	0.0	-26.7	1887.8	100.0	05:45	13:15	20:46
11 Sole	07:22:47.7	22:04:30.4	0.0	0.0	-26.7	1887.9	100.0	05:45	13:15	20:45
12 Sole	07:26:52.1	21:56:16.3	0.0	0.0	-26.7	1887.9	100.0	05:46	13:16	20:45
13 Sole	07:30:55.9	21:47:39.8	0.0	0.0	-26.7	1888.0	100.0	05:47	13:16	20:44
14 Sole	07:34:59.2	21:38:40.9	0.0	0.0	-26.7	1888.1	100.0	05:48	13:16	20:44
15 Sole	07:39:02.1	21:29:19.9	0.0	0.0	-26.7	1888.2	100.0	05:49	13:16	20:43
16 Sole	07:43:04.4	21:19:37.0	0.0	0.0	-26.7	1888.3	100.0	05:49	13:16	20:42
17 Sole	07:47:06.1	21:09:32.4	0.0	0.0	-26.7	1888.4	100.0	05:50	13:16	20:42
18 Sole	07:51:07.4	20:59:06.3	0.0	0.0	-26.7	1888.5	100.0	05:51	13:16	20:41
19 Sole	07:55:08.0	20:48:19.1	0.0	0.0	-26.7	1888.7	100.0	05:52	13:16	20:40
20 Sole	07:59:08.2	20:37:10.9	0.0	0.0	-26.7	1888.8	100.0	05:53	13:16	20:39
21 Sole	08:03:07.7	20:25:42.0	0.0	0.0	-26.7	1888.9	100.0	05:54	13:16	20:39
22 Sole	08:07:06.7	20:13:52.5	0.0	0.0	-26.7	1889.1	100.0	05:55	13:16	20:38
23 Sole	08:11:05.1	20:01:42.8	0.0	0.0	-26.7	1889.2	100.0	05:55	13:17	20:37
24 Sole	08:15:02.9	19:49:13.1	0.0	0.0	-26.7	1889.4	100.0	05:56	13:17	20:36
25 Sole	08:19:00.1	19:36:23.6	0.0	0.0	-26.7	1889.5	100.0	05:57	13:17	20:35
26 Sole	08:22:56.8	19:23:14.5	0.0	0.0	-26.7	1889.7	100.0	05:58	13:17	20:34
27 Sole	08:26:52.8	19:09:46.0	0.0	0.0	-26.7	1889.9	100.0	05:59	13:17	20:33
28 Sole	08:30:48.3	18:55:58.5	0.0	0.0	-26.7	1890.1	100.0	06:00	13:17	20:32
29 Sole	08:34:43.2	18:41:52.2	0.0	0.0	-26.7	1890.3	100.0	06:01	13:17	20:31
30 Sole	08:38:37.6	18:27:27.4	0.0	0.0	-26.7	1890.5	100.0	06:02	13:16	20:30
31 Sole	08:42:31.3	18:12:44.4	0.0	0.0	-26.7	1890.7	100.0	06:03	13:16	20:29
1 Luna	02:11:12.2	15:25:23.0	101.669	-63.8	-9.8	1915.4	28.0	01:49	08:16	16:29
2 Luna	03:05:33.3	20:40:21.0	101.671	-50.9	-9.4	1904.3	18.5	02:18	09:07	17:46
3 Luna	04:02:44.4	24:45:15.1	101.671	-38.1	-9.1	1891.4	10.7	02:55	10:00	18:59
4 Luna	05:02:18.2	27:22:40.3	101.672	-25.6	-8.7	1876.7	5.0	03:40	10:57	20:05
5 Luna	06:02:53.2	28:21:39.8	101.672	-13.7	-8.4	1860.6	1.4	04:35	11:56	21:00
6 Luna	07:02:34.3	27:41:08.6	101.672	-5.0	-8.2	1843.6	0.2	05:39	12:54	21:45

7 Luna	07:59:35.7	25:30:14.4	101.671	12.5	-8.3	1826.4	1.2	06:46	13:50	22:20
8 Luna	08:52:55.5	22:05:05.4	101.167	23.7	-8.6	1810.0	4.2	07:54	14:43	22:48
9 Luna	09:42:24.2	17:44:11.8	101.668	34.9	-8.9	1795.4	9.0	09:01	15:31	23:11
10 Luna	10:28:31.4	12:44:52.2	101.666	46.1	-9.1	1783.6	15.4	10:04	16:15	23:31
11 Luna	11:12:08.4	07:21:39.0	101.663	57.0	-9.4	1775.8	22.9	11:06	16:56	23:49
12 Luna	11:54:16.1	01:46:17.9	101.166	67.9	-9.7	1772.5	31.3	12:07	17:36	--:--
13 Luna	12:35:58.6	-03:51:22.5	101.657	78.8	-10.0	1774.6	40.4	13:07	18:15	00:06
14 Luna	13:18:21.0	-09:22:16.8	101.653	89.6	-10.3	1782.1	49.8	14:09	18:54	00:25
15 Luna	14:02:29.2	-14:36:41.9	101.648	100.6	-10.6	1795.2	59.3	15:14	19:35	00:45
16 Luna	14:49:26.7	-19:22:55.4	101.643	111.8	-10.9	1813.5	68.7	16:20	20:19	01:10
17 Luna	15:40:08.0	-23:26:11.1	101.638	123.3	-11.2	1836.2	77.5	17:30	21:07	01:39
18 Luna	16:35:03.1	-26:28:26.3	101.632	135.1	-11.5	1862.0	85.5	18:37	22:00	02:17
19 Luna	17:33:57.3	-28:10:00.9	101.625	147.2	-11.9	1889.3	92.1	19:39	22:57	03:06
20 Luna	18:35:36.3	-28:13:48.3	101.618	159.6	-12.2	1915.9	96.9	20:32	23:57	04:08
21 Luna	19:37:58.5	-26:30:58.8	101.611	171.6	-12.6	1939.6	99.5	21:15	00:57	05:20
22 Luna	20:38:58.7	-23:04:59.6	101.603	-172.1	-12.6	1958.2	99.5	21:49	01:56	06:38
23 Luna	21:37:15.2	-18:11:05.0	101.595	-159.6	-12.3	1970.0	96.9	22:17	02:52	07:59
24 Luna	22:32:28.4	-12:12:02.7	101.586	-146.2	-12.0	1974.4	91.6	22:42	03:45	09:17
25 Luna	23:25:10.1	-05:33:21.3	101.577	-132.6	-11.6	1971.5	83.9	23:05	00:47	10:34
26 Luna	00:16:21.8	01:20:04.8	101.567	-119.1	-11.2	1962.3	74.4	23:28	19:18	11:49
27 Luna	01:07:16.4	08:05:15.2	101.557	-105.8	-10.9	1948.3	63.7	23:52	05:25	13:05
28 Luna	01:59:05.3	14:21:01.3	101.547	-92.6	-10.5	1931.1	52.4	--:--	06:14	14:20
29 Luna	02:52:47.1	19:47:36.7	101.536	-79.7	-10.2	1912.2	41.2	00:20	07:04	15:36
30 Luna	03:48:53.3	24:06:34.6	101.524	-67.0	-9.8	1892.6	30.6	00:54	07:56	16:49
31 Luna	04:47:13.5	27:01:58.4	101.512	-54.5	-9.5	1873.1	21.1	01:36	08:52	17:57
1 Mercurio	07:58:23.5	22:32:45.2	0.37638	17.7	-0.6	5.7	78.6	07:01	14:29	22:03
2 Mercurio	08:05:50.5	22:08:40.2	0.38216	18.5	-0.5	5.8	76.9	07:07	14:33	22:04
3 Mercurio	08:13:05.5	21:43:16.8	0.38787	19.2	-0.4	5.8	75.2	07:12	14:36	22:06
4 Mercurio	08:20:08.5	21:16:42.1	0.3935	20.0	-0.4	5.9	73.5	07:17	14:40	22:06
5 Mercurio	08:26:59.6	20:49:03.1	0.39902	20.7	-0.3	6.0	71.8	07:22	14:42	22:07
6 Mercurio	08:33:38.8	20:20:26.6	0.4044	21.3	-0.3	6.1	70.2	07:27	14:45	22:07
7 Mercurio	08:40:06.3	19:50:59.0	0.40964	22.0	-0.2	6.2	68.5	07:31	14:48	22:08
8 Mercurio	08:46:22.0	19:20:46.6	0.4147	22.6	-0.2	6.2	66.9	07:36	14:50	22:08
9 Mercurio	08:52:26.1	18:49:55.5	0.41959	23.1	-0.1	6.3	65.3	07:40	14:52	22:07
10 Mercurio	08:58:18.7	18:18:31.4	0.42428	23.7	-0.1	6.4	63.8	07:44	14:54	22:07
11 Mercurio	09:03:59.7	17:46:40.0	0.42876	24.1	0.0	6.5	62.2	07:48	14:56	22:06
12 Mercurio	09:09:29.4	17:14:26.9	0.43302	24.6	0.0	6.6	60.7	07:52	14:58	22:05
13 Mercurio	09:14:47.6	16:41:57.4	0.43706	25.0	0.1	6.7	59.2	07:55	14:59	22:04
14 Mercurio	09:19:54.4	16:09:16.8	0.44086	25.4	0.1	6.8	57.6	07:58	15:00	22:03
15 Mercurio	09:24:49.8	15:36:30.4	0.44442	25.7	0.2	6.9	56.1	08:01	15:02	22:02
16 Mercurio	09:29:33.7	15:03:43.3	0.44773	26.0	0.2	7.1	54.6	08:04	15:02	22:00
17 Mercurio	09:34:06.1	14:31:00.7	0.45079	26.3	0.3	7.2	53.1	08:07	15:03	21:59
18 Mercurio	09:38:26.9	13:58:27.8	0.45359	26.5	0.3	7.3	51.6	08:09	15:03	21:57
19 Mercurio	09:42:36.0	13:26:09.7	0.45613	26.7	0.3	7.4	50.1	08:12	15:04	21:55
20 Mercurio	09:46:33.2	12:54:11.8	0.4584	26.8	0.4	7.5	48.5	08:14	15:04	21:53
21 Mercurio	09:50:18.3	12:22:39.3	0.4604	26.9	0.4	7.7	47.0	08:15	15:04	21:50
22 Mercurio	09:53:51.0	11:51:37.9	0.46213	26.9	0.5	7.8	45.4	08:17	15:03	21:48
23 Mercurio	09:57:11.2	11:21:13.0	0.46358	26.9	0.5	7.9	43.8	08:18	15:03	21:45
24 Mercurio	10:00:18.5	10:51:30.5	0.46476	26.9	0.5	8.1	42.2	08:19	15:02	21:42
25 Mercurio	10:03:12.6	10:22:36.4	0.46566	26.8	0.6	8.2	40.6	08:20	15:01	21:39
26 Mercurio	10:05:53.0	09:54:36.8	0.46629	26.6	0.6	8.4	38.9	08:20	15:00	21:36
27 Mercurio	10:08:19.5	09:27:38.4	0.46663	26.4	0.7	8.5	37.2	08:20	14:58	21:33
28 Mercurio	10:10:31.6	09:01:47.8	0.4667	26.1	0.8	8.7	35.5	08:20	14:57	21:29

29 Mercurio	10:12:28.7	08:37:12.3	0.46648	25.8	0.8	8.8	33.8	08:19	14:55	21:26
30 Mercurio	10:14:10.5	08:13:59.3	0.46599	25.4	0.9	9.0	32.0	08:18	14:53	21:22
31 Mercurio	10:15:36.3	07:52:16.4	0.46522	24.9	1.0	9.2	30.2	08:17	14:50	21:18
1 Venere	07:13:14.2	23:17:41.3	0.71862	7.2	-3.9	9.8	99.2	06:11	13:45	21:21
2 Venere	07:18:33.5	23:10:00.7	0.71859	7.5	-3.9	9.8	99.1	06:13	13:46	21:22
3 Venere	07:23:52.1	23:01:39.1	0.71856	7.8	-3.9	9.8	99.1	06:15	13:48	21:22
4 Venere	07:29:10.0	22:52:36.8	0.71853	8.1	-3.9	9.8	99.0	06:17	13:49	21:23
5 Venere	07:34:27.2	22:42:54.3	0.71851	8.4	-3.9	9.8	98.9	06:19	13:50	21:23
6 Venere	07:39:43.7	22:32:31.8	0.71849	8.6	-3.9	9.9	98.9	06:22	13:52	21:24
7 Venere	07:44:59.2	22:21:29.9	0.71848	8.9	-3.9	9.9	98.8	06:24	13:53	21:24
8 Venere	07:50:14.0	22:09:48.9	0.71847	9.2	-3.9	9.9	98.7	06:26	13:54	21:25
9 Venere	07:55:27.7	21:57:29.3	0.71846	9.5	-3.9	9.9	98.6	06:28	13:56	21:25
10 Venere	08:00:40.6	21:44:31.5	0.71846	9.7	-3.9	9.9	98.5	06:30	13:57	21:25
11 Venere	08:05:52.4	21:30:56.1	0.71846	10.0	-3.9	9.9	98.5	06:33	13:58	21:25
12 Venere	08:11:03.2	21:16:43.6	0.71846	10.3	-3.9	9.9	98.4	06:35	13:59	21:25
13 Venere	08:16:13.0	21:01:54.5	0.71847	10.6	-3.9	9.9	98.3	06:37	14:01	21:26
14 Venere	08:21:21.7	20:46:29.3	0.71848	10.8	-3.9	9.9	98.2	06:40	14:02	21:26
15 Venere	08:26:29.3	20:30:28.8	0.7185	11.1	-3.9	10.0	98.1	06:42	14:03	21:26
16 Venere	08:31:35.8	20:13:53.3	0.71852	11.4	-3.9	10.0	98.0	06:44	14:04	21:25
17 Venere	08:36:41.1	19:56:43.6	0.71854	11.7	-3.9	10.0	97.9	06:47	14:05	21:25
18 Venere	08:41:45.2	19:39:00.2	0.71857	11.9	-3.9	10.0	97.8	06:49	14:07	21:25
19 Venere	08:46:48.2	19:20:43.9	0.7186	12.2	-3.9	10.0	97.7	06:52	14:08	21:25
20 Venere	08:51:50.0	19:01:55.2	0.71864	12.5	-3.9	10.0	97.6	06:54	14:09	21:25
21 Venere	08:56:50.7	18:42:34.8	0.71868	12.8	-3.9	10.0	97.5	06:57	14:10	21:24
22 Venere	09:01:50.1	18:22:43.3	0.71872	13.0	-3.9	10.1	97.4	06:59	14:11	21:24
23 Venere	09:06:48.3	18:02:21.5	0.71876	13.3	-3.9	10.1	97.3	07:02	14:12	21:23
24 Venere	09:11:45.3	17:41:29.9	0.71881	13.6	-3.9	10.1	97.2	07:04	14:13	21:23
25 Venere	09:16:41.1	17:20:09.2	0.71887	13.9	-3.9	10.1	97.0	07:07	14:14	21:22
26 Venere	09:21:35.7	16:58:20.1	0.71892	14.1	-3.9	10.1	96.9	07:09	14:15	21:22
27 Venere	09:26:29.2	16:36:03.3	0.71898	14.4	-3.9	10.2	96.8	07:12	14:16	21:21
28 Venere	09:31:21.4	16:13:19.4	0.71905	14.7	-3.9	10.2	96.7	07:14	14:17	21:20
29 Venere	09:36:12.5	15:50:09.2	0.71912	14.9	-3.9	10.2	96.6	07:17	14:18	21:20
30 Venere	09:41:02.5	15:26:33.3	0.71919	15.2	-3.9	10.2	96.4	07:19	14:19	21:19
31 Venere	09:45:51.3	15:02:32.5	0.71926	15.5	-3.9	10.2	96.3	07:22	14:19	21:18
1 Marte	02:54:53.0	15:41:14.9	140.148	-53.7	1.0	5.4	90.6	02:25	09:28	16:28
2 Marte	02:57:44.2	15:54:08.2	140.022	-53.9	1.0	5.4	90.5	02:23	09:27	16:28
3 Marte	03:00:35.5	16:06:51.8	140.294	-54.2	1.0	5.4	90.5	02:21	09:25	16:28
4 Marte	03:03:26.9	16:19:25.6	140.037	-54.4	1.0	5.4	90.4	02:19	09:24	16:28
5 Marte	03:06:18.4	16:31:49.5	140.446	-54.6	1.0	5.4	90.4	02:17	09:23	16:27
6 Marte	03:09:09.9	16:44:03.3	140.523	-54.9	1.0	5.4	90.3	02:15	09:22	16:27
7 Marte	03:12:01.4	16:56:07.0	140.602	-55.1	1.0	5.5	90.3	02:13	09:21	16:27
8 Marte	03:14:53.0	17:08:00.4	140.681	-55.4	1.0	5.5	90.2	02:12	09:20	16:27
9 Marte	03:17:44.6	17:19:43.5	140.762	-55.6	1.0	5.5	90.2	02:10	09:19	16:26
10 Marte	03:20:36.3	17:31:16.2	140.844	-55.8	1.0	5.5	90.1	02:08	09:18	16:26
11 Marte	03:23:27.9	17:42:38.4	140.927	-56.1	1.0	5.5	90.0	02:06	09:17	16:26
12 Marte	03:26:19.6	17:53:50.1	141.011	-56.3	1.0	5.5	90.0	02:04	09:16	16:25
13 Marte	03:29:11.3	18:04:51.1	141.096	-56.6	1.0	5.5	89.9	02:02	09:15	16:25
14 Marte	03:32:03.1	18:15:41.4	141.182	-56.8	1.0	5.6	89.9	02:01	09:14	16:25
15 Marte	03:34:54.8	18:26:21.0	141.269	-57.1	0.9	5.6	89.8	01:59	09:12	16:24
16 Marte	03:37:46.6	18:36:49.7	141.357	-57.3	0.9	5.6	89.8	01:57	09:11	16:24
17 Marte	03:40:38.3	18:47:07.7	141.447	-57.6	0.9	5.6	89.7	01:55	09:10	16:24
18 Marte	03:43:30.0	18:57:14.8	141.537	-57.8	0.9	5.6	89.7	01:53	09:09	16:23

19 Marte	03:46:21.8	19:07:11.0	141.628	-58.1	0.9	5.6	89.7	01:52	09:08	16:23
20 Marte	03:49:13.5	19:16:56.2	14.172	-58.4	0.9	5.7	89.6	01:50	09:07	16:23
21 Marte	03:52:05.2	19:26:30.4	141.813	-58.6	0.9	5.7	89.6	01:48	09:06	16:22
22 Marte	03:54:56.9	19:35:53.6	141.907	-58.9	0.9	5.7	89.5	01:46	09:05	16:22
23 Marte	03:57:48.5	19:45:05.6	142.002	-59.2	0.9	5.7	89.5	01:45	09:04	16:21
24 Marte	04:00:40.1	19:54:06.5	142.098	-59.4	0.9	5.7	89.4	01:43	09:03	16:21
25 Marte	04:03:31.7	20:02:56.1	142.195	-59.7	0.9	5.7	89.4	01:41	09:02	16:20
26 Marte	04:06:23.2	20:11:34.5	142.293	-60.0	0.9	5.8	89.3	01:40	09:01	16:20
27 Marte	04:09:14.6	20:20:01.6	142.392	-60.2	0.9	5.8	89.3	01:38	09:00	16:19
28 Marte	04:12:05.9	20:28:17.3	142.491	-60.5	0.9	5.8	89.2	01:36	08:58	16:19
29 Marte	04:14:57.2	20:36:21.7	142.592	-60.8	0.9	5.8	89.2	01:35	08:57	16:18
30 Marte	04:17:48.3	20:44:14.8	142.693	-61.0	0.9	5.8	89.1	01:33	08:56	16:18
31 Marte	04:20:39.4	20:51:56.4	142.795	-61.3	0.9	5.8	89.1	01:31	08:55	16:17
1 Giove	04:26:15.0	20:59:10.6	502.713	-31.4	-2.0	33.5	99.7	03:34	11:00	18:20
2 Giove	04:27:09.9	21:01:14.6	50.274	-32.1	-2.0	33.6	99.7	03:31	10:57	18:17
3 Giove	04:28:04.6	21:03:16.9	502.767	-32.9	-2.0	33.6	99.7	03:28	10:54	18:14
4 Giove	04:28:59.1	21:05:17.6	502.794	-33.6	-2.0	33.7	99.7	03:25	10:51	18:11
5 Giove	04:29:53.4	21:07:16.6	502.821	-34.3	-2.0	33.7	99.7	03:21	10:48	18:09
6 Giove	04:30:47.4	21:09:13.9	502.849	-35.1	-2.0	33.8	99.7	03:18	10:45	18:06
7 Giove	04:31:41.3	21:11:09.4	502.876	-35.8	-2.0	33.8	99.6	03:15	10:42	18:03
8 Giove	04:32:34.9	21:13:03.3	502.903	-36.6	-2.0	33.9	99.6	03:12	10:39	18:00
9 Giove	04:33:28.2	21:14:55.5	50.293	-37.3	-2.0	33.9	99.6	03:09	10:36	17:57
10 Giove	04:34:21.3	21:16:46.0	502.958	-38.1	-2.0	34.0	99.6	03:05	10:33	17:54
11 Giove	04:35:14.2	21:18:34.7	502.985	-38.8	-2.0	34.0	99.6	03:02	10:29	17:51
12 Giove	04:36:06.8	21:20:21.8	503.013	-39.6	-2.0	34.1	99.6	02:59	10:26	17:48
13 Giove	04:36:59.1	21:22:07.1	50.304	-40.3	-2.1	34.1	99.6	02:56	10:23	17:46
14 Giove	04:37:51.1	21:23:50.8	503.067	-41.1	-2.1	34.2	99.6	02:53	10:20	17:43
15 Giove	04:38:42.9	21:25:32.7	503.095	-41.8	-2.1	34.3	99.5	02:49	10:17	17:40
16 Giove	04:39:34.4	21:27:13.0	503.123	-42.6	-2.1	34.3	99.5	02:46	10:14	17:37
17 Giove	04:40:25.6	21:28:51.6	50.315	-43.3	-2.1	34.4	99.5	02:43	10:11	17:34
18 Giove	04:41:16.5	21:30:28.6	503.178	-44.1	-2.1	34.4	99.5	02:40	10:08	17:31
19 Giove	04:42:07.1	21:32:04.0	503.206	-44.8	-2.1	34.5	99.5	02:36	10:05	17:28
20 Giove	04:42:57.5	21:33:37.7	503.233	-45.6	-2.1	34.6	99.5	02:33	10:02	17:25
21 Giove	04:43:47.5	21:35:09.9	503.261	-46.3	-2.1	34.6	99.5	02:30	09:59	17:22
22 Giove	04:44:37.1	21:36:40.4	503.289	-47.1	-2.1	34.7	99.5	02:27	09:56	17:19
23 Giove	04:45:26.5	21:38:09.4	503.317	-47.9	-2.1	34.8	99.4	02:23	09:52	17:16
24 Giove	04:46:15.5	21:39:36.7	503.345	-48.6	-2.1	34.8	99.4	02:20	09:49	17:13
25 Giove	04:47:04.1	21:41:02.4	509.12.00	-49.4	-2.1	34.9	99.4	02:17	09:46	17:10
26 Giove	04:47:52.5	21:42:26.4	5.034	-50.1	-2.1	35.0	99.4	02:14	09:43	17:07
27 Giove	04:48:40.4	21:43:48.9	503.428	-50.9	-2.1	35.1	99.4	02:11	09:40	17:03
28 Giove	04:49:28.1	21:45:09.8	503.456	-51.7	-2.1	35.1	99.4	02:07	09:37	17:00
29 Giove	04:50:15.3	21:46:29.1	503.484	-52.5	-2.1	35.2	99.4	02:04	09:34	16:57
30 Giove	04:51:02.2	21:47:46.8	503.512	-53.2	-2.1	35.3	99.3	02:01	09:31	16:54
31 Giove	04:51:48.7	21:49:03.0	503.541	-54.0	-2.1	35.4	99.3	01:58	09:27	16:51
1 Saturno	23:24:15.3	-06:00:31.5	968.546	-110.1	1.1	17.8	99.8	00:15	05:55	11:36
2 Saturno	23:24:15.1	-06:00:49.2	968.516	-111.1	1.1	17.9	99.8	00:11	05:51	11:32
3 Saturno	23:24:14.5	-06:01:09.3	968.487	-112.1	1.1	17.9	99.8	00:07	05:47	11:28
4 Saturno	23:24:13.6	-06:01:31.7	968.457	-113.0	1.1	17.9	99.8	00:03	05:43	11:24
5 Saturno	23:24:12.3	-06:01:56.4	968.428	-114.0	1.1	17.9	99.8	23:55	05:39	11:20
6 Saturno	23:24:10.6	-06:02:23.4	968.399	-114.9	1.1	18.0	99.8	23:52	05:35	11:16
7 Saturno	23:24:08.6	-06:02:52.8	968.369	-115.9	1.1	18.0	99.8	23:48	05:31	11:12
8 Saturno	23:24:06.1	-06:03:24.5	96.834	-116.9	1.1	18.0	99.8	23:44	05:27	11:08

9 Saturno	23:24:03.4	-06:03:58.4	96.831	-117.8	1.1	18.1	99.8	23:40	05:24	11:04
10 Saturno	23:24:00.2	-06:04:34.7	968.281	-118.8	1.1	18.1	99.8	23:36	05:20	11:00
11 Saturno	23:23:56.7	-06:05:13.2	968.251	-119.8	1.1	18.1	99.8	23:32	05:16	10:56
12 Saturno	23:23:52.8	-06:05:53.9	968.222	-120.7	1.1	18.2	99.8	23:28	05:12	10:52
13 Saturno	23:23:48.6	-06:06:36.8	968.193	-121.7	1.1	18.2	99.8	23:24	05:08	10:48
14 Saturno	23:23:44.0	-06:07:21.9	968.163	-122.7	1.1	18.2	99.8	23:20	05:04	10:44
15 Saturno	23:23:39.1	-06:08:09.2	968.134	-123.7	1.1	18.2	99.8	23:16	05:00	10:40
16 Saturno	23:23:33.8	-06:08:58.6	968.104	-124.6	1.1	18.3	99.8	23:12	04:55	10:35
17 Saturno	23:23:28.1	-06:09:50.0	968.075	-125.6	1.0	18.3	99.8	23:08	04:51	10:31
18 Saturno	23:23:22.2	-06:10:43.6	968.045	-126.6	1.0	18.3	99.8	23:04	04:47	10:27
19 Saturno	23:23:15.8	-06:11:39.2	968.016	-127.6	1.0	18.3	99.8	23:00	04:43	10:23
20 Saturno	23:23:09.2	-06:12:36.9	967.986	-128.6	1.0	18.4	99.8	22:56	04:39	10:19
21 Saturno	23:23:02.2	-06:13:36.6	967.957	-129.6	1.0	18.4	99.8	22:52	04:35	10:15
22 Saturno	23:22:54.9	-06:14:38.3	967.927	-130.6	1.0	18.4	99.8	22:48	04:31	10:11
23 Saturno	23:22:47.2	-06:15:42.0	967.898	-131.5	1.0	18.5	99.8	22:44	04:27	10:07
24 Saturno	23:22:39.2	-06:16:47.7	967.868	-132.5	1.0	18.5	99.9	22:40	04:23	10:03
25 Saturno	23:22:30.9	-06:17:55.3	967.839	-133.5	1.0	18.5	99.9	22:36	04:19	09:59
26 Saturno	23:22:22.2	-06:19:04.9	967.809	-134.5	1.0	18.5	99.9	22:32	04:15	09:55
27 Saturno	23:22:13.2	-06:20:16.3	96.778	-135.5	1.0	18.6	99.9	22:28	04:11	09:51
28 Saturno	23:22:03.9	-06:21:29.6	96.775	-136.5	1.0	18.6	99.9	22:24	04:07	09:46
29 Saturno	23:21:54.3	-06:22:44.6	967.721	-137.5	1.0	18.6	99.9	22:20	04:03	09:42
30 Saturno	23:21:44.4	-06:24:01.5	967.691	-138.5	1.0	18.6	99.9	22:16	03:59	09:38
31 Saturno	23:21:34.2	-06:25:20.1	967.661	-139.5	1.0	18.6	99.9	22:12	03:55	09:34
1 Urano	03:33:48.2	18:56:00.9	1.958.397	-43.9	5.8	3.4	100.0	02:50	10:08	17:19
2 Urano	03:33:59.3	18:56:39.4	1.958.381	-44.8	5.8	3.4	100.0	02:47	10:04	17:15
3 Urano	03:34:10.4	18:57:17.4	1.958.364	-45.7	5.8	3.4	100.0	02:43	10:00	17:11
4 Urano	03:34:21.3	18:57:54.9	1.958.348	-46.6	5.8	3.4	100.0	02:39	09:57	17:07
5 Urano	03:34:32.0	18:58:31.9	1.958.332	-47.5	5.8	3.4	100.0	02:35	09:53	17:04
6 Urano	03:34:42.7	18:59:08.5	1.958.315	-48.4	5.8	3.4	100.0	02:31	09:49	17:00
7 Urano	03:34:53.2	18:59:44.5	1.958.299	-49.3	5.8	3.4	100.0	02:27	09:45	16:56
8 Urano	03:35:03.5	19:00:20.0	1.958.282	-50.2	5.8	3.4	100.0	02:24	09:42	16:52
9 Urano	03:35:13.8	19:00:55.0	1.958.266	-51.2	5.8	3.4	100.0	02:20	09:38	16:49
10 Urano	03:35:23.8	19:01:29.4	1.958.249	-52.1	5.8	3.4	100.0	02:16	09:34	16:45
11 Urano	03:35:33.8	19:02:03.3	1.958.233	-53.0	5.8	3.4	100.0	02:12	09:30	16:41
12 Urano	03:35:43.5	19:02:36.6	1.958.216	-53.9	5.8	3.4	100.0	02:09	09:27	16:37
13 Urano	03:35:53.2	19:03:09.3	19.582	-54.8	5.8	3.4	100.0	02:05	09:23	16:33
14 Urano	03:36:02.6	19:03:41.5	1.958.183	-55.7	5.8	3.4	100.0	02:01	09:19	16:30
15 Urano	03:36:12.0	19:04:13.1	1.958.167	-56.6	5.8	3.4	100.0	01:57	09:15	16:26
16 Urano	03:36:21.1	19:04:44.1	1.958.151	-57.6	5.8	3.4	100.0	01:54	09:11	16:22
17 Urano	03:36:30.2	19:05:14.6	1.958.134	-58.5	5.8	3.4	100.0	01:50	09:08	16:19
18 Urano	03:36:39.0	19:05:44.5	1.958.118	-59.4	5.8	3.4	100.0	01:46	09:04	16:15
19 Urano	03:36:47.8	19:06:13.9	1.958.101	-60.3	5.8	3.4	99.9	01:42	09:00	16:11
20 Urano	03:36:56.3	19:06:42.7	1.958.085	-61.2	5.8	3.4	99.9	01:38	08:56	16:07
21 Urano	03:37:04.7	19:07:11.0	1.958.068	-62.1	5.8	3.4	99.9	01:35	08:53	16:04
22 Urano	03:37:12.9	19:07:38.6	1.958.052	-63.1	5.8	3.4	99.9	01:31	08:49	16:00
23 Urano	03:37:21.0	19:08:05.7	1.958.035	-64.0	5.8	3.4	99.9	01:27	08:45	15:56
24 Urano	03:37:28.8	19:08:32.2	1.958.019	-64.9	5.8	3.4	99.9	01:23	08:41	15:53
25 Urano	03:37:36.6	19:08:58.0	1.958.002	-65.8	5.8	3.4	99.9	01:19	08:37	15:49
26 Urano	03:37:44.1	19:09:23.2	1.957.986	-66.8	5.8	3.4	99.9	01:15	08:34	15:45
27 Urano	03:37:51.4	19:09:47.8	1.957.969	-67.7	5.8	3.4	99.9	01:11	08:30	15:41
28 Urano	03:37:58.6	19:10:11.7	1.957.953	-68.6	5.8	3.4	99.9	01:08	08:26	15:38
29 Urano	03:38:05.6	19:10:35.0	1.957.936	-69.5	5.8	3.4	99.9	01:04	08:22	15:34
30 Urano	03:38:12.5	19:10:57.7	195.792	-70.5	5.8	3.4	99.9	01:00	08:18	15:30

31 Urano	03:38:19.1	19:11:19.8	1.957.903	-71.4	5.8	3.4	99.9	00:56	08:14	15:26
1 Nettuno	00:01:47.1	-01:12:01.0	29.899	-99.6	7.9	2.5	100.0	00:35	06:37	12:30
2 Nettuno	00:01:47.3	-01:12:03.0	2.989.898	-100.6	7.9	2.5	100.0	00:31	06:33	12:26
3 Nettuno	00:01:47.4	-01:12:05.8	2.989.895	-101.6	7.9	2.5	100.0	00:27	06:29	12:23
4 Nettuno	00:01:47.3	-01:12:09.3	2.989.892	-102.5	7.9	2.5	100.0	00:23	06:25	12:19
5 Nettuno	00:01:47.2	-01:12:13.6	298.989	-103.5	7.9	2.5	100.0	00:19	06:21	12:15
6 Nettuno	00:01:46.9	-01:12:18.7	2.989.887	-104.4	7.9	2.5	100.0	00:15	06:17	12:11
7 Nettuno	00:01:46.5	-01:12:24.5	2.989.885	-105.4	7.9	2.5	100.0	00:11	06:13	12:07
8 Nettuno	00:01:46.0	-01:12:31.1	2.989.882	-106.3	7.9	2.5	100.0	00:07	06:09	12:03
9 Nettuno	00:01:45.4	-01:12:38.5	2.989.879	-107.3	7.9	2.5	100.0	00:04	06:05	11:59
10 Nettuno	00:01:44.6	-01:12:46.7	2.989.877	-108.2	7.9	2.5	100.0	23:56	06:01	11:55
11 Nettuno	00:01:43.7	-01:12:55.7	2.989.874	-109.2	7.9	2.5	100.0	23:52	05:57	11:51
12 Nettuno	00:01:42.7	-01:13:05.4	2.989.872	-110.2	7.9	2.5	100.0	23:48	05:53	11:47
13 Nettuno	00:01:41.6	-01:13:15.9	2.989.869	-111.1	7.9	2.5	100.0	23:44	05:49	11:44
14 Nettuno	00:01:40.4	-01:13:27.1	2.989.866	-112.1	7.9	2.5	100.0	23:40	05:45	11:40
15 Nettuno	00:01:39.1	-01:13:39.0	2.989.864	-113.0	7.9	2.5	100.0	23:36	05:41	11:36
16 Nettuno	00:01:37.6	-01:13:51.6	2.989.861	-114.0	7.9	2.5	100.0	23:32	05:37	11:32
17 Nettuno	00:01:36.0	-01:14:04.9	2.989.859	-115.0	7.9	2.5	100.0	23:28	05:33	11:28
18 Nettuno	00:01:34.4	-01:14:19.0	2.989.856	-115.9	7.9	2.5	100.0	23:24	05:30	11:24
19 Nettuno	00:01:32.6	-01:14:33.7	2.989.853	-116.9	7.9	2.5	100.0	23:21	05:26	11:20
20 Nettuno	00:01:30.7	-01:14:49.1	2.989.851	-117.8	7.9	2.5	100.0	23:17	05:22	11:16
21 Nettuno	00:01:28.7	-01:15:05.2	2.989.848	-118.8	7.8	2.5	100.0	23:13	05:18	11:12
22 Nettuno	00:01:26.5	-01:15:22.1	18.43.06	-119.8	7.8	2.5	100.0	23:09	05:14	11:08
23 Nettuno	00:01:24.3	-01:15:39.6	18.43.03	-120.7	7.8	2.5	100.0	23:05	05:10	11:04
24 Nettuno	00:01:22.0	-01:15:57.9	2.24.00	-121.7	7.8	2.5	100.0	23:01	05:06	11:00
25 Nettuno	00:01:19.5	-01:16:16.8	18.42.58	-122.7	7.8	2.5	100.0	22:57	05:02	10:55
26 Nettuno	00:01:17.0	-01:16:36.5	18.42.55	-123.6	7.8	2.5	100.0	22:53	04:58	10:51
27 Nettuno	00:01:14.3	-01:16:56.7	18.42.53	-124.6	7.8	2.5	100.0	22:49	04:54	10:47
28 Nettuno	00:01:11.5	-01:17:17.7	2.23.00	-125.6	7.8	2.5	100.0	22:45	04:50	10:43
29 Nettuno	00:01:08.6	-01:17:39.3	18.42.47	-126.5	7.8	2.5	100.0	22:41	04:46	10:39
30 Nettuno	00:01:05.7	-01:18:01.5	18.42.45	-127.5	7.8	2.5	100.0	22:37	04:42	10:35
31 Nettuno	00:01:02.6	-01:18:24.3	18.42.42	-128.5	7.8	2.5	100.0	22:33	04:38	10:31