

EFFEMERIDI DEL MESE APRILE 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	00:42:55.3	04:36:53.8	0.0	0.0	-26.7	1920.8	100.0	06:52	13:14	19:36
2	Sole	00:46:34.1	05:00:00.0	0.0	0.0	-26.7	1920.2	100.0	06:50	13:14	19:37
3	Sole	00:50:13.1	05:23:00.9	0.0	0.0	-26.7	1919.6	100.0	06:49	13:13	19:38
4	Sole	00:53:52.2	05:45:56.2	0.0	0.0	-26.7	1919.1	100.0	06:47	13:13	19:39
5	Sole	00:57:31.6	06:08:45.6	0.0	0.0	-26.7	1918.5	100.0	06:45	13:13	19:41
6	Sole	01:01:11.1	06:31:28.7	0.0	0.0	-26.7	1917.9	100.0	06:44	13:13	19:42
7	Sole	01:04:50.8	06:54:05.2	0.0	0.0	-26.7	1917.4	100.0	06:42	13:12	19:43
8	Sole	01:08:30.8	07:16:34.6	0.0	0.0	-26.7	1916.8	100.0	06:40	13:12	19:44
9	Sole	01:12:11.0	07:38:56.6	0.0	0.0	-26.7	1916.3	100.0	06:39	13:12	19:45
10	Sole	01:15:51.4	08:01:10.9	0.0	0.0	-26.7	1915.7	100.0	06:37	13:11	19:46
11	Sole	01:19:32.2	08:23:17.1	0.0	0.0	-26.7	1915.2	100.0	06:35	13:11	19:47
12	Sole	01:23:13.2	08:45:14.8	0.0	0.0	-26.7	1914.7	100.0	06:34	13:11	19:48
13	Sole	01:26:54.5	09:07:03.7	0.0	0.0	-26.7	1914.1	100.0	06:32	13:11	19:49
14	Sole	01:30:36.2	09:28:43.4	0.0	0.0	-26.7	1913.6	100.0	06:31	13:10	19:50
15	Sole	01:34:18.1	09:50:13.6	0.0	0.0	-26.7	1913.1	100.0	06:29	13:10	19:52
16	Sole	01:38:00.4	10:11:33.9	0.0	0.0	-26.7	1912.6	100.0	06:27	13:10	19:53
17	Sole	01:41:43.1	10:32:43.9	0.0	0.0	-26.7	1912.0	100.0	06:26	13:10	19:54
18	Sole	01:45:26.1	10:53:43.4	0.0	0.0	-26.7	1911.5	100.0	06:24	13:09	19:55
19	Sole	01:49:09.5	11:14:32.1	0.0	0.0	-26.7	1911.0	100.0	06:23	13:09	19:56
20	Sole	01:52:53.2	11:35:09.5	0.0	0.0	-26.7	1910.5	100.0	06:21	13:09	19:57
21	Sole	01:56:37.4	11:55:35.4	0.0	0.0	-26.7	1910.0	100.0	06:20	13:09	19:58
22	Sole	02:00:22.1	12:15:49.5	0.0	0.0	-26.7	1909.5	100.0	06:18	13:09	19:59
23	Sole	02:04:07.1	12:35:51.4	0.0	0.0	-26.7	1909.0	100.0	06:17	13:08	20:00
24	Sole	02:07:52.7	12:55:40.9	0.0	0.0	-26.7	1908.5	100.0	06:15	13:08	20:01
25	Sole	02:11:38.7	13:15:17.6	0.0	0.0	-26.7	1907.9	100.0	06:14	13:08	20:02
26	Sole	02:15:25.2	13:34:41.3	0.0	0.0	-26.7	1907.4	100.0	06:12	13:08	20:03
27	Sole	02:19:12.2	13:53:51.6	0.0	0.0	-26.7	1906.9	100.0	06:11	13:08	20:04
28	Sole	02:22:59.7	14:12:48.3	0.0	0.0	-26.7	1906.4	100.0	06:10	13:08	20:06
29	Sole	02:26:47.8	14:31:30.9	0.0	0.0	-26.7	1905.9	100.0	06:08	13:07	20:07
30	Sole	02:30:36.4	14:49:59.3	0.0	0.0	-26.7	1905.4	100.0	06:07	13:07	20:08
1	Luna	17:44:55.2	-28:24:13.8	0.99924	-104.9	-10.8	1849.2	63.0	02:18	06:34	10:43
2	Luna	18:44:59.0	-28:19:12.7	0.99953	-92.7	-10.5	1868.6	52.5	03:16	07:33	11:47
3	Luna	19:45:38.7	-26:32:56.9	0.99981	-80.1	-10.2	1890.2	41.6	04:03	08:32	13:00
4	Luna	20:45:19.6	-23:07:30.6	10.001	-67.2	-9.9	1912.6	30.7	04:42	09:29	14:18
5	Luna	21:43:02.4	-18:13:53.9	100.039	-53.8	-9.5	1934.2	20.5	05:14	10:24	15:38
6	Luna	22:38:36.1	-12:10:10.7	100.068	-40.1	-9.2	1952.8	11.8	05:41	11:16	16:58
7	Luna	23:32:31.3	-05:19:17.3	100.096	-26.1	-8.9	1966.2	5.1	06:06	01:44	18:17

8 Luna	00:25:43.7	01:52:43.8	100.125	-11.9	-8.5	1972.3	1.1	06:29	19:04	19:37
9 Luna	01:19:18.7	08:58:10.1	100.154	2.2	-8.2	1970.1	0.0	06:54	13:00	20:57
10 Luna	02:14:15.9	15:29:14.7	100.182	16.1	-8.6	1959.7	2.0	07:22	13:52	22:17
11 Luna	03:11:14.1	21:00:04.1	100.211	29.7	-8.9	1942.1	6.6	07:54	14:46	23:36
12 Luna	04:10:14.6	25:09:07.3	100.239	42.9	-9.2	1919.6	13.5	08:33	15:43	--:--
13 Luna	05:10:30.1	27:42:02.4	100.268	55.7	-9.5	1894.5	21.9	09:22	16:41	00:48
14 Luna	06:10:33.1	28:33:52.4	100.296	68.0	-9.8	1869.4	31.3	10:18	17:40	01:51
15 Luna	07:08:44.3	27:49:21.4	100.324	79.8	-10.1	1846.1	41.3	11:22	18:37	02:41
16 Luna	08:03:48.8	25:40:33.1	100.352	91.3	-10.3	1826.1	51.3	12:27	19:30	03:22
17 Luna	08:55:15.0	22:22:58.8	10.038	102.5	-10.6	1810.2	61.0	13:33	20:19	03:54
18 Luna	09:43:12.5	18:12:15.9	100.408	113.5	-10.9	1798.8	70.1	14:36	21:05	04:19
19 Luna	10:28:17.8	13:22:20.6	100.436	124.4	-11.2	1791.8	78.4	15:39	21:47	04:41
20 Luna	11:11:21.7	08:05:09.7	100.463	135.3	-11.4	1789.0	85.6	16:39	22:28	05:00
21 Luna	11:53:20.3	02:31:12.9	100.491	146.1	-11.7	1789.8	91.6	17:40	23:07	05:18
22 Luna	12:35:11.2	-03:09:33.6	100.518	157.0	-12.0	1793.6	96.1	18:41	23:46	05:36
23 Luna	13:17:52.4	-08:46:50.5	100.545	168.0	-12.3	1799.8	98.9	19:45	00:25	05:54
24 Luna	14:02:20.9	-14:09:02.2	100.572	178.2	-12.6	1807.7	100.0	20:50	01:07	06:15
25 Luna	14:49:29.0	-19:02:37.8	100.599	-169.2	-12.4	1816.9	99.1	21:58	01:52	06:40
26 Luna	15:39:57.4	-23:11:56.4	100.626	-157.8	-12.1	1827.2	96.3	23:06	02:41	07:11
27 Luna	16:34:02.5	-26:19:42.8	100.652	-146.1	-11.8	1838.4	91.6	--:--	03:33	07:50
28 Luna	17:31:22.4	-28:08:58.9	100.678	-134.2	-11.5	1850.5	85.0	00:12	04:29	08:38
29 Luna	18:30:50.2	-28:26:14.9	100.704	-122.1	-11.2	1863.8	76.7	01:11	05:27	09:39
30 Luna	19:30:47.8	-27:04:58.1	10.073	-109.8	-10.9	1878.0	67.0	02:01	06:25	10:48
1 Mercurio	01:36:01.5	13:28:53.8	0.35885	15.8	1.4	9.3	17.4	07:13	14:08	20:57
2 Mercurio	01:36:12.1	13:32:17.3	0.36461	14.9	1.7	9.5	14.6	07:09	14:05	20:53
3 Mercurio	01:35:57.9	13:31:43.7	0.37042	13.9	2.0	9.8	11.9	07:05	14:01	20:48
4 Mercurio	01:35:19.9	13:27:15.5	0.37622	12.8	2.4	10.0	9.6	07:00	13:56	20:42
5 Mercurio	01:34:19.7	13:18:57.6	0.382	11.6	2.7	10.3	7.4	06:56	13:51	20:36
6 Mercurio	01:32:59.1	13:06:57.7	0.38771	10.2	3.1	10.5	5.6	06:51	13:46	20:30
7 Mercurio	01:31:20.3	12:51:26.7	0.39334	8.8	3.5	10.7	4.0	06:47	13:41	20:23
8 Mercurio	01:29:25.8	12:32:38.6	0.39886	7.4	3.9	11.0	2.7	06:42	13:35	20:15
9 Mercurio	01:27:18.3	12:10:50.9	0.40425	5.9	4.4	11.1	1.6	06:37	13:29	20:08
10 Mercurio	01:25:00.7	11:46:24.2	0.40949	4.4	4.8	11.3	0.9	06:33	13:23	20:00
11 Mercurio	01:22:36.1	11:19:42.2	0.41456	3.0	5.2	11.4	0.4	06:28	13:17	19:52
12 Mercurio	01:20:07.6	10:51:10.7	0.41945	2.2	5.5	11.5	0.2	06:23	13:10	19:44
13 Mercurio	01:17:38.3	10:21:17.7	0.42415	-2.6	5.4	11.6	0.3	06:19	13:04	19:36
14 Mercurio	01:15:11.1	09:50:31.9	0.42863	-3.8	5.1	11.7	0.6	06:15	12:57	19:27
15 Mercurio	01:12:49.0	09:19:22.3	0.4329	-5.3	4.7	11.7	1.2	06:10	12:51	19:19
16 Mercurio	01:10:34.5	08:48:17.3	0.43695	-6.9	4.3	11.7	1.9	06:06	12:45	19:11
17 Mercurio	01:08:30.0	08:17:43.9	0.44076	-8.5	3.9	11.7	2.9	06:02	12:39	19:03
18 Mercurio	01:06:37.3	07:48:06.9	0.44432	-10.1	3.6	11.6	4.1	05:58	12:33	18:56
19 Mercurio	01:04:58.3	07:19:48.9	0.44764	-11.6	3.3	11.5	5.4	05:55	12:27	18:49
20 Mercurio	01:03:34.3	06:53:09.3	0.45071	-13.0	3.0	11.4	6.8	05:51	12:22	18:42
21 Mercurio	01:02:26.4	06:28:24.7	0.45351	-14.4	2.7	11.3	8.3	05:47	12:17	18:36
22 Mercurio	01:01:35.2	06:05:48.5	0.45606	-15.8	2.5	11.2	9.9	05:44	12:12	18:30
23 Mercurio	01:01:01.3	05:45:31.4	0.45833	-17.0	2.3	11.1	11.6	05:41	12:07	18:25
24 Mercurio	01:00:44.9	05:27:41.1	0.46034	-18.2	2.1	10.9	13.4	05:38	12:03	18:20
25 Mercurio	01:00:46.0	05:12:22.9	0.46208	-19.2	1.9	10.7	15.2	05:35	11:59	18:15
26 Mercurio	01:01:04.6	04:59:39.9	0.46354	-20.2	1.7	10.6	17.0	05:32	11:55	18:11
27 Mercurio	01:01:40.4	04:49:33.2	0.46473	-21.1	1.6	10.4	18.8	05:29	11:52	18:08
28 Mercurio	01:02:33.0	04:42:02.5	0.46564	-22.0	1.5	10.2	20.6	05:27	11:48	18:05
29 Mercurio	01:03:42.0	04:37:06.1	0.46627	-22.7	1.4	10.0	22.4	05:24	11:45	18:02
30 Mercurio	01:05:07.0	04:34:41.3	0.46662	-23.4	1.2	9.9	24.3	05:22	11:43	18:00

1 Venere	23:43:02.5	-03:25:56.5	0.72794	-17.0	-3.9	10.4	95.8	06:23	12:14	18:06
2 Venere	23:47:35.8	-02:56:55.9	0.72789	-16.7	-3.9	10.3	95.9	06:22	12:15	18:09
3 Venere	23:52:08.9	-02:27:49.7	0.72785	-16.5	-3.9	10.3	96.0	06:20	12:16	18:11
4 Venere	23:56:41.7	-01:58:38.7	0.72779	-16.2	-3.9	10.3	96.2	06:19	01:14	18:13
5 Venere	00:01:14.2	-01:29:23.6	0.72774	-16.0	-3.9	10.3	96.3	06:18	19:23	18:16
6 Venere	00:05:46.6	-01:00:05.2	0.72768	-15.7	-3.9	10.3	96.4	06:17	12:17	18:18
7 Venere	00:10:18.8	-00:30:44.1	0.72761	-15.5	-3.9	10.2	96.5	06:16	12:17	18:20
8 Venere	00:14:51.0	-00:01:21.1	0.72754	-15.2	-3.9	10.2	96.6	06:15	12:18	18:23
9 Venere	00:19:23.0	00:28:03.1	0.72747	-15.0	-3.9	10.2	96.7	06:14	12:19	18:25
10 Venere	00:23:55.0	00:57:27.9	0.7274	-14.7	-3.9	10.2	96.8	06:12	12:19	18:27
11 Venere	00:28:27.1	01:26:52.4	0.72733	-14.5	-3.9	10.2	96.9	06:11	12:20	18:30
12 Venere	00:32:59.1	01:56:16.0	0.72725	-14.2	-3.9	10.2	97.0	06:10	12:20	18:32
13 Venere	00:37:31.3	02:25:38.0	0.72716	-14.0	-3.9	10.1	97.1	06:09	12:21	18:35
14 Venere	00:42:03.6	02:54:57.6	0.72708	-13.7	-3.9	10.1	97.2	06:08	12:22	18:37
15 Venere	00:46:36.0	03:24:14.1	0.72699	-13.5	-3.9	10.1	97.3	06:07	12:22	18:39
16 Venere	00:51:08.6	03:53:26.9	0.7269	-13.2	-3.9	10.1	97.4	06:06	12:23	18:42
17 Venere	00:55:41.5	04:22:35.1	0.7268	-13.0	-3.9	10.1	97.5	06:04	12:23	18:44
18 Venere	01:00:14.7	04:51:38.2	0.72671	-12.7	-3.9	10.1	97.6	06:03	12:24	18:46
19 Venere	01:04:48.1	05:20:35.4	0.72661	-12.5	-3.9	10.0	97.7	06:02	12:25	18:49
20 Venere	01:09:22.0	05:49:26.0	0.72651	-12.2	-3.9	10.0	97.8	06:01	12:25	18:51
21 Venere	01:13:56.2	06:18:09.3	0.7264	-11.9	-3.9	10.0	97.9	06:00	12:26	18:54
22 Venere	01:18:30.9	06:46:44.6	0.72629	-11.7	-3.9	10.0	98.0	05:59	12:26	18:56
23 Venere	01:23:06.0	07:15:11.3	0.72619	-11.4	-3.9	10.0	98.1	05:58	12:27	18:58
24 Venere	01:27:41.7	07:43:28.6	0.72607	-11.2	-3.9	10.0	98.2	05:57	12:28	19:01
25 Venere	01:32:17.9	08:11:35.9	0.72596	-10.9	-3.9	10.0	98.3	05:56	12:28	19:03
26 Venere	01:36:54.8	08:39:32.4	0.72584	-10.6	-3.9	9.9	98.3	05:55	12:29	19:06
27 Venere	01:41:32.2	09:07:17.5	0.72573	-10.4	-3.9	9.9	98.4	05:54	12:30	19:08
28 Venere	01:46:10.4	09:34:50.3	0.72561	-10.1	-3.9	9.9	98.5	05:53	12:30	19:11
29 Venere	01:50:49.2	10:02:10.4	0.72549	-9.9	-3.9	9.9	98.6	05:52	12:31	19:13
30 Venere	01:55:28.8	10:29:16.7	0.72536	-9.6	-3.9	9.9	98.6	05:51	12:32	19:16
1 Marte	22:36:31.4	-10:05:44.7	139.153	-34.7	1.2	4.5	95.6	05:41	11:07	16:34
2 Marte	22:39:27.6	-09:48:32.0	139.101	-35.0	1.2	4.5	95.6	05:39	11:06	16:34
3 Marte	22:42:23.6	-09:31:14.0	139.905	-35.2	1.2	4.5	95.5	05:37	11:05	16:34
4 Marte	22:45:19.2	-09:13:50.9	139.001	-35.4	1.2	4.5	95.5	05:35	11:04	16:34
5 Marte	22:48:14.5	-08:56:23.0	138.953	-35.6	1.2	4.5	95.4	05:33	11:03	16:34
6 Marte	22:51:09.6	-08:38:50.4	138.907	-35.8	1.2	4.5	95.3	05:30	11:02	16:34
7 Marte	22:54:04.3	-08:21:13.3	138.861	-36.0	1.2	4.5	95.3	05:28	11:01	16:34
8 Marte	22:56:58.8	-08:03:32.1	138.818	-36.2	1.2	4.5	95.2	05:26	11:00	16:34
9 Marte	22:59:52.9	-07:45:46.7	138.775	-36.4	1.2	4.5	95.2	05:24	10:59	16:34
10 Marte	23:02:46.8	-07:27:57.5	138.734	-36.6	1.2	4.6	95.1	05:22	10:58	16:34
11 Marte	23:05:40.5	-07:10:04.7	138.694	-36.8	1.2	4.6	95.1	05:20	10:57	16:34
12 Marte	23:08:33.8	-06:52:08.4	138.656	-37.0	1.2	4.6	95.0	05:18	10:56	16:34
13 Marte	23:11:26.9	-06:34:08.9	138.619	-37.2	1.2	4.6	95.0	05:15	10:55	16:34
14 Marte	23:14:19.8	-06:16:06.4	138.583	-37.4	1.2	4.6	94.9	05:13	10:53	16:34
15 Marte	23:17:12.4	-05:58:01.0	138.549	-37.6	1.2	4.6	94.8	05:11	10:52	16:34
16 Marte	23:20:04.7	-05:39:53.1	138.516	-37.8	1.2	4.6	94.8	05:09	10:51	16:34
17 Marte	23:22:56.8	-05:21:42.7	138.484	-38.0	1.1	4.6	94.7	05:07	10:50	16:34
18 Marte	23:25:48.7	-05:03:30.0	138.454	-38.2	1.1	4.6	94.7	05:04	10:49	16:34
19 Marte	23:28:40.4	-04:45:15.3	138.425	-38.4	1.1	4.6	94.6	05:02	10:48	16:34
20 Marte	23:31:31.8	-04:26:58.7	138.398	-38.6	1.1	4.6	94.6	05:00	10:47	16:34
21 Marte	23:34:23.1	-04:08:40.4	138.372	-38.8	1.1	4.6	94.5	04:58	10:46	16:34
22 Marte	23:37:14.1	-03:50:20.5	138.348	-39.0	1.1	4.7	94.5	04:56	10:45	16:34

23 Marte	23:40:05.0	-03:31:59.2	138.325	-39.2	1.1	4.7	94.4	04:53	10:44	16:34
24 Marte	23:42:55.7	-03:13:36.7	138.303	-39.4	1.1	4.7	94.3	04:51	10:43	16:34
25 Marte	23:45:46.2	-02:55:13.2	138.283	-39.6	1.1	4.7	94.3	04:49	10:42	16:34
26 Marte	23:48:36.6	-02:36:48.8	138.264	-39.8	1.1	4.7	94.2	04:47	10:40	16:34
27 Marte	23:51:26.8	-02:18:23.8	138.247	-40.0	1.1	4.7	94.2	04:45	10:39	16:34
28 Marte	23:54:16.9	-01:59:58.2	138.231	-40.2	1.1	4.7	94.1	04:42	10:38	16:34
29 Marte	23:57:06.9	-01:41:32.3	138.216	-40.4	1.1	4.7	94.1	04:40	10:37	16:34
30 Marte	23:59:56.7	-01:23:06.3	138.203	-40.6	1.1	4.7	94.0	04:38	01:18	16:34
1 Giove	03:00:26.8	16:13:10.9	500.419	35.7	-2.1	34.0	99.7	08:26	15:32	22:32
2 Giove	03:01:18.1	16:16:56.2	500.442	34.9	-2.1	34.0	99.7	08:23	15:29	22:29
3 Giove	03:02:09.8	16:20:41.6	500.466	34.1	-2.1	33.9	99.7	08:20	15:26	22:27
4 Giove	03:03:01.7	16:24:27.1	500.489	33.4	-2.1	33.9	99.7	08:16	15:23	22:24
5 Giove	03:03:53.8	16:28:12.6	500.513	32.6	-2.0	33.8	99.7	08:13	15:20	22:21
6 Giove	03:04:46.2	16:31:57.9	500.536	31.8	-2.0	33.8	99.7	08:10	15:17	22:18
7 Giove	03:05:38.9	16:35:43.2	500.560	31.1	-2.0	33.7	99.7	08:06	15:14	22:15
8 Giove	03:06:31.8	16:39:28.3	500.583	30.3	-2.0	33.7	99.7	08:03	15:11	22:13
9 Giove	03:07:24.9	16:43:13.2	500.607	29.5	-2.0	33.6	99.8	08:00	15:08	22:10
10 Giove	03:08:18.2	16:46:57.9	500.630	28.8	-2.0	33.6	99.8	07:57	15:05	22:07
11 Giove	03:09:11.8	16:50:42.4	500.654	28.0	-2.0	33.5	99.8	07:53	15:02	22:04
12 Giove	03:10:05.6	16:54:26.6	500.678	27.3	-2.0	33.5	99.8	07:50	14:59	22:02
13 Giove	03:10:59.7	16:58:10.4	500.702	26.5	-2.0	33.4	99.8	07:47	14:56	21:59
14 Giove	03:11:53.9	17:01:54.0	500.726	25.8	-2.0	33.4	99.8	07:44	14:53	21:56
15 Giove	03:12:48.3	17:05:37.1	500.749	25.0	-2.0	33.4	99.8	07:40	14:50	21:53
16 Giove	03:13:43.0	17:09:19.8	500.773	24.2	-2.0	33.3	99.8	07:37	14:46	21:51
17 Giove	03:14:37.8	17:13:02.0	500.797	23.5	-2.0	33.3	99.8	07:34	14:43	21:48
18 Giove	03:15:32.8	17:16:43.7	500.821	22.7	-2.0	33.2	99.8	07:31	14:40	21:45
19 Giove	03:16:28.0	17:20:24.9	500.845	22.0	-2.0	33.2	99.9	07:27	14:37	21:43
20 Giove	03:17:23.3	17:24:05.5	500.869	21.2	-2.0	33.2	99.9	07:24	14:34	21:40
21 Giove	03:18:18.8	17:27:45.4	500.894	20.5	-2.0	33.1	99.9	07:21	14:31	21:37
22 Giove	03:19:14.5	17:31:24.7	500.918	19.8	-2.0	33.1	99.9	07:17	14:28	21:34
23 Giove	03:20:10.3	17:35:03.3	500.942	19.0	-2.0	33.1	99.9	07:14	14:25	21:32
24 Giove	03:21:06.3	17:38:41.3	500.966	18.3	-2.0	33.0	99.9	07:11	14:22	21:29
25 Giove	03:22:02.5	17:42:18.5	516.31.00	17.5	-2.0	33.0	99.9	07:08	14:19	21:26
26 Giove	03:22:58.8	17:45:55.1	501.015	16.8	-2.0	33.0	99.9	07:04	14:16	21:23
27 Giove	03:23:55.2	17:49:30.9	501.039	16.0	-2.0	33.0	99.9	07:01	14:13	21:21
28 Giove	03:24:51.8	17:53:05.9	501.064	15.3	-2.0	32.9	99.9	06:58	14:10	21:18
29 Giove	03:25:48.5	17:56:40.1	501.088	14.6	-2.0	32.9	99.9	06:54	14:07	21:15
30 Giove	03:26:45.4	18:00:13.6	501.113	13.8	-2.0	32.9	99.9	06:51	14:04	21:12
1 Saturno	23:02:06.2	-07:59:27.6	971.197	-28.1	1.3	15.6	99.9	05:58	11:31	17:05
2 Saturno	23:02:31.5	-07:56:58.5	971.168	-29.0	1.3	15.7	99.9	05:54	11:28	17:01
3 Saturno	23:02:56.7	-07:54:30.3	971.139	-29.9	1.3	15.7	99.9	05:51	11:24	16:58
4 Saturno	23:03:21.8	-07:52:03.0	971.111	-30.7	1.3	15.7	99.9	05:47	11:21	16:55
5 Saturno	23:03:46.7	-07:49:36.7	971.082	-31.6	1.3	15.7	99.9	05:44	11:17	16:51
6 Saturno	23:04:11.5	-07:47:11.4	971.053	-32.5	1.3	15.7	99.9	05:40	11:14	16:48
7 Saturno	23:04:36.1	-07:44:47.1	971.024	-33.4	1.3	15.7	99.9	05:36	11:10	16:44
8 Saturno	23:05:00.5	-07:42:23.8	970.995	-34.2	1.3	15.7	99.9	05:33	11:06	16:41
9 Saturno	23:05:24.8	-07:40:01.5	970.966	-35.1	1.3	15.8	99.9	05:29	11:03	16:38
10 Saturno	23:05:49.0	-07:37:40.3	970.937	-36.0	1.3	15.8	99.9	05:25	10:59	16:34
11 Saturno	23:06:12.9	-07:35:20.1	970.908	-36.9	1.3	15.8	99.9	05:21	10:56	16:31
12 Saturno	23:06:36.7	-07:33:01.1	970.879	-37.7	1.3	15.8	99.9	05:18	10:52	16:27
13 Saturno	23:07:00.4	-07:30:43.2	970.850	-38.6	1.3	15.8	99.9	05:14	10:49	16:24
14 Saturno	23:07:23.8	-07:28:26.5	970.821	-39.5	1.3	15.8	99.9	05:10	10:45	16:21

15 Saturno	23:07:47.1	-07:26:11.0	970.792	-40.4	1.3	15.8	99.9	05:07	10:42	16:17
16 Saturno	23:08:10.2	-07:23:56.8	970.763	-41.2	1.3	15.9	99.9	05:03	10:38	16:14
17 Saturno	23:08:33.1	-07:21:43.8	970.734	-42.1	1.3	15.9	99.9	04:59	10:35	16:10
18 Saturno	23:08:55.8	-07:19:32.2	970.705	-43.0	1.3	15.9	99.9	04:55	10:31	16:07
19 Saturno	23:09:18.2	-07:17:21.8	970.677	-43.9	1.3	15.9	99.9	04:52	10:27	16:04
20 Saturno	23:09:40.5	-07:15:12.8	970.648	-44.7	1.3	15.9	99.9	04:48	10:24	16:00
21 Saturno	23:10:02.6	-07:13:05.2	970.619	-45.6	1.3	16.0	99.9	04:44	10:20	15:57
22 Saturno	23:10:24.5	-07:10:58.9	97.059	-46.5	1.3	16.0	99.9	04:41	10:17	15:54
23 Saturno	23:10:46.2	-07:08:54.0	970.561	-47.4	1.3	16.0	99.9	04:37	10:13	15:50
24 Saturno	23:11:07.6	-07:06:50.4	970.532	-48.3	1.3	16.0	99.9	04:33	10:10	15:47
25 Saturno	23:11:28.9	-07:04:48.3	970.503	-49.1	1.3	16.0	99.8	04:29	10:06	15:43
26 Saturno	23:11:49.9	-07:02:47.7	970.474	-50.0	1.3	16.0	99.8	04:26	10:02	15:40
27 Saturno	23:12:10.7	-07:00:48.4	970.445	-50.9	1.3	16.1	99.8	04:22	09:59	15:36
28 Saturno	23:12:31.3	-06:58:50.7	970.416	-51.8	1.3	16.1	99.8	04:18	09:55	15:33
29 Saturno	23:12:51.6	-06:56:54.5	970.386	-52.7	1.3	16.1	99.8	04:15	09:52	15:29
30 Saturno	23:13:11.8	-06:54:59.8	970.357	-53.5	1.3	16.1	99.8	04:11	09:48	15:26
1 Urano	03:13:41.2	17:41:07.8	1.959.882	39.1	5.8	3.4	100.0	08:33	15:46	22:51
2 Urano	03:13:52.9	17:41:54.4	1.959.866	38.2	5.8	3.4	100.0	08:29	15:42	22:47
3 Urano	03:14:04.7	17:42:41.5	195.985	37.2	5.8	3.4	100.0	08:26	15:38	22:43
4 Urano	03:14:16.6	17:43:29.0	1.959.834	36.3	5.8	3.4	100.0	08:22	15:34	22:40
5 Urano	03:14:28.6	17:44:16.9	1.959.818	35.4	5.8	3.4	100.0	08:18	15:31	22:36
6 Urano	03:14:40.7	17:45:05.0	1.959.801	34.4	5.8	3.4	100.0	08:14	15:27	22:32
7 Urano	03:14:52.9	17:45:53.5	1.959.785	33.5	5.8	3.4	100.0	08:11	15:23	22:29
8 Urano	03:15:05.2	17:46:42.3	1.959.769	32.6	5.8	3.4	100.0	08:07	15:20	22:25
9 Urano	03:15:17.6	17:47:31.4	1.959.753	31.6	5.8	3.4	100.0	08:03	15:16	22:21
10 Urano	03:15:30.1	17:48:20.8	1.959.736	30.7	5.8	3.4	100.0	07:59	15:12	22:18
11 Urano	03:15:42.8	17:49:10.5	195.972	29.8	5.8	3.4	100.0	07:56	15:08	22:14
12 Urano	03:15:55.5	17:50:00.5	1.959.704	28.8	5.8	3.3	100.0	07:52	15:05	22:10
13 Urano	03:16:08.3	17:50:50.8	1.959.688	27.9	5.8	3.3	100.0	07:48	15:01	22:07
14 Urano	03:16:21.2	17:51:41.4	1.959.672	27.0	5.8	3.3	100.0	07:45	14:57	22:03
15 Urano	03:16:34.1	17:52:32.2	1.959.655	26.1	5.8	3.3	100.0	07:41	14:53	22:00
16 Urano	03:16:47.2	17:53:23.3	1.959.639	25.1	5.8	3.3	100.0	07:37	14:50	21:56
17 Urano	03:17:00.3	17:54:14.6	1.959.623	24.2	5.8	3.3	100.0	07:33	14:46	21:52
18 Urano	03:17:13.5	17:55:06.1	1.959.607	23.3	5.8	3.3	100.0	07:29	14:42	21:49
19 Urano	03:17:26.8	17:55:57.8	195.959	22.4	5.8	3.3	100.0	07:26	14:39	21:45
20 Urano	03:17:40.1	17:56:49.6	1.959.574	21.4	5.8	3.3	100.0	07:22	14:35	21:42
21 Urano	03:17:53.5	17:57:41.6	1.959.558	20.5	5.8	3.3	100.0	07:18	14:31	21:38
22 Urano	03:18:07.0	17:58:33.7	1.959.542	19.6	5.8	3.3	100.0	07:14	14:27	21:34
23 Urano	03:18:20.5	17:59:26.0	1.959.525	18.7	5.8	3.3	100.0	07:10	14:24	21:31
24 Urano	03:18:34.1	18:00:18.4	1.959.509	17.8	5.8	3.3	100.0	07:07	14:20	21:27
25 Urano	03:18:47.7	18:01:11.0	1.959.493	16.8	5.8	3.3	100.0	07:03	14:16	21:23
26 Urano	03:19:01.4	18:02:03.7	1.959.477	15.9	5.8	3.3	100.0	06:59	14:13	21:20
27 Urano	03:19:15.2	18:02:56.5	195.946	15.0	5.8	3.3	100.0	06:55	14:09	21:16
28 Urano	03:19:29.0	18:03:49.5	1.959.444	14.1	5.8	3.3	100.0	06:51	14:05	21:12
29 Urano	03:19:42.8	18:04:42.5	1.959.428	13.2	5.8	3.3	100.0	06:48	14:02	21:09
30 Urano	03:19:56.7	18:05:35.7	1.959.411	12.3	5.8	3.3	100.0	06:44	13:58	21:05
1 Nettuno	23:54:14.8	-01:57:08.8	2.990.135	-13.8	8.0	2.4	100.0	06:28	12:23	18:18
2 Nettuno	23:54:23.0	-01:56:16.6	2.990.132	-14.8	8.0	2.4	100.0	06:24	12:19	18:14
3 Nettuno	23:54:31.2	-01:55:24.7	299.013	-15.7	8.0	2.4	100.0	06:20	12:15	18:11
4 Nettuno	23:54:39.3	-01:54:33.1	2.990.127	-16.7	8.0	2.4	100.0	06:16	12:12	18:07
5 Nettuno	23:54:47.4	-01:53:41.6	2.990.125	-17.6	8.0	2.4	100.0	06:13	12:08	18:03
6 Nettuno	23:54:55.5	-01:52:50.5	2.990.122	-18.5	8.0	2.4	100.0	06:09	12:04	18:00

7 Nettuno	23:55:03.5	-01:51:59.7	299.012	-19.5	8.0	2.4	100.0	06:05	12:00	17:56
8 Nettuno	23:55:11.5	-01:51:09.1	2.990.117	-20.4	8.0	2.4	100.0	06:01	11:56	17:52
9 Nettuno	23:55:19.4	-01:50:18.8	2.990.114	-21.4	8.0	2.4	100.0	05:57	11:53	17:49
10 Nettuno	23:55:27.4	-01:49:28.8	2.990.112	-22.3	8.0	2.4	100.0	05:54	11:49	17:45
11 Nettuno	23:55:35.2	-01:48:39.1	2.990.109	-23.3	8.0	2.4	100.0	05:50	11:45	17:41
12 Nettuno	23:55:43.1	-01:47:49.6	2.990.107	-24.2	8.0	2.4	100.0	05:46	11:41	17:37
13 Nettuno	23:55:50.9	-01:47:00.5	2.990.104	-25.2	8.0	2.4	100.0	05:42	11:37	17:34
14 Nettuno	23:55:58.6	-01:46:11.8	2.990.102	-26.1	8.0	2.4	100.0	05:38	11:34	17:30
15 Nettuno	23:56:06.3	-01:45:23.4	2.990.099	-27.1	8.0	2.4	100.0	05:34	11:30	17:26
16 Nettuno	23:56:14.0	-01:44:35.4	2.990.096	-28.0	8.0	2.4	100.0	05:31	11:26	17:22
17 Nettuno	23:56:21.6	-01:43:47.7	2.990.094	-28.9	7.9	2.4	100.0	05:27	11:22	17:19
18 Nettuno	23:56:29.1	-01:43:00.5	2.990.091	-29.9	7.9	2.4	100.0	05:23	11:18	17:15
19 Nettuno	23:56:36.6	-01:42:13.7	2.990.089	-30.8	7.9	2.4	100.0	05:19	11:15	17:11
20 Nettuno	23:56:44.0	-01:41:27.3	2.990.086	-31.8	7.9	2.4	100.0	05:15	11:11	17:07
21 Nettuno	23:56:51.3	-01:40:41.4	2.990.084	-32.7	7.9	2.4	100.0	05:11	11:07	17:03
22 Nettuno	23:56:58.6	-01:39:55.8	18.31.21	-33.7	7.9	2.4	100.0	05:07	11:03	17:00
23 Nettuno	23:57:05.9	-01:39:10.7	18.31.18	-34.6	7.9	2.4	100.0	05:03	10:59	16:56
24 Nettuno	23:57:13.1	-01:38:26.1	18.31.16	-35.5	7.9	2.4	100.0	05:00	10:55	16:52
25 Nettuno	23:57:20.2	-01:37:41.8	18.31.13	-36.5	7.9	2.4	100.0	04:56	10:52	16:48
26 Nettuno	23:57:27.2	-01:36:58.0	18.31.11	-37.4	7.9	2.4	100.0	04:52	10:48	16:44
27 Nettuno	23:57:34.2	-01:36:14.7	18.31.08	-38.4	7.9	2.4	100.0	04:48	10:44	16:40
28 Nettuno	23:57:41.1	-01:35:31.8	18.31.06	-39.3	7.9	2.4	100.0	04:44	10:40	16:37
29 Nettuno	23:57:48.0	-01:34:49.4	18.31.03	-40.2	7.9	2.4	100.0	04:40	10:36	16:33
30 Nettuno	23:57:54.8	-01:34:07.5	299.06.00	-41.2	7.9	2.4	100.0	04:36	10:33	16:29