

EFFEMERIDI DEL MESE GIUGNO 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	04:37:22.8	22:04:51.2	0.0	0.0	-26.7	1892.7	100.0	05:37	13:08	20:39
2 Sole	04:41:28.9	22:12:43.8	0.0	0.0	-26.7	1892.4	100.0	05:37	13:08	20:40
3 Sole	04:45:35.3	22:20:13.2	0.0	0.0	-26.7	1892.2	100.0	05:37	13:08	20:40
4 Sole	04:49:42.1	22:27:19.1	0.0	0.0	-26.7	1891.9	100.0	05:36	13:08	20:41
5 Sole	04:53:49.2	22:34:01.4	0.0	0.0	-26.7	1891.6	100.0	05:36	13:08	20:42
6 Sole	04:57:56.7	22:40:20.0	0.0	0.0	-26.7	1891.4	100.0	05:36	13:09	20:42
7 Sole	05:02:04.5	22:46:14.8	0.0	0.0	-26.7	1891.1	100.0	05:35	13:09	20:43
8 Sole	05:06:12.6	22:51:45.5	0.0	0.0	-26.7	1890.9	100.0	05:35	13:09	20:44
9 Sole	05:10:20.9	22:56:52.1	0.0	0.0	-26.7	1890.7	100.0	05:35	13:09	20:44
10 Sole	05:14:29.5	23:01:34.5	0.0	0.0	-26.7	1890.4	100.0	05:35	13:09	20:45
11 Sole	05:18:38.2	23:05:52.5	0.0	0.0	-26.7	1890.2	100.0	05:35	13:10	20:45
12 Sole	05:22:47.2	23:09:46.1	0.0	0.0	-26.7	1890.0	100.0	05:35	13:10	20:46
13 Sole	05:26:56.3	23:13:15.2	0.0	0.0	-26.7	1889.9	100.0	05:34	13:10	20:46
14 Sole	05:31:05.5	23:16:19.6	0.0	0.0	-26.7	1889.7	100.0	05:34	13:10	20:47
15 Sole	05:35:14.8	23:18:59.4	0.0	0.0	-26.7	1889.5	100.0	05:34	13:10	20:47
16 Sole	05:39:24.2	23:21:14.5	0.0	0.0	-26.7	1889.4	100.0	05:35	13:11	20:47
17 Sole	05:43:33.7	23:23:04.8	0.0	0.0	-26.7	1889.2	100.0	05:35	13:11	20:48
18 Sole	05:47:43.3	23:24:30.3	0.0	0.0	-26.7	1889.1	100.0	05:35	13:11	20:48
19 Sole	05:51:52.9	23:25:31.1	0.0	0.0	-26.7	1888.9	100.0	05:35	13:11	20:48
20 Sole	05:56:02.4	23:26:07.0	0.0	0.0	-26.7	1888.8	100.0	05:35	13:11	20:48
21 Sole	06:00:12.0	23:26:18.2	0.0	0.0	-26.7	1888.7	100.0	05:35	13:12	20:49
22 Sole	06:04:21.5	23:26:04.6	0.0	0.0	-26.7	1888.5	100.0	05:35	13:12	20:49
23 Sole	06:08:31.0	23:25:26.2	0.0	0.0	-26.7	1888.4	100.0	05:36	13:12	20:49
24 Sole	06:12:40.4	23:24:23.2	0.0	0.0	-26.7	1888.3	100.0	05:36	13:12	20:49
25 Sole	06:16:49.6	23:22:55.4	0.0	0.0	-26.7	1888.2	100.0	05:36	13:13	20:49
26 Sole	06:20:58.8	23:21:03.0	0.0	0.0	-26.7	1888.1	100.0	05:37	13:13	20:49
27 Sole	06:25:07.8	23:18:45.9	0.0	0.0	-26.7	1888.1	100.0	05:37	13:13	20:49
28 Sole	06:29:16.7	23:16:04.2	0.0	0.0	-26.7	1888.0	100.0	05:38	13:13	20:49
29 Sole	06:33:25.4	23:12:58.1	0.0	0.0	-26.7	1887.9	100.0	05:38	13:13	20:49
30 Sole	06:37:33.9	23:09:27.4	0.0	0.0	-26.7	1887.8	100.0	05:39	13:14	20:49
1 Luna	23:50:31.6	-02:41:07.5	101.404	-74.2	-10.1	1928.4	36.5	02:33	01:33	14:55
2 Luna	00:40:53.0	04:06:10.4	101.419	-60.9	-9.7	1930.7	25.8	02:56	18:55	16:09
3 Luna	01:32:14.7	10:42:32.3	101.434	-47.6	-9.4	1930.0	16.3	03:20	09:30	17:26
4 Luna	02:25:43.6	16:45:36.0	101.448	-34.3	-9.0	1925.5	8.7	03:47	10:20	18:44
5 Luna	03:22:03.5	21:52:04.5	101.462	-21.2	-8.7	1916.8	3.4	04:19	11:13	20:01
6 Luna	04:21:15.8	25:39:48.4	101.476	-8.9	-8.3	1903.9	0.6	05:00	12:09	21:14
7 Luna	05:22:24.2	27:51:41.1	101.489	6.9	-8.3	1887.5	0.4	05:50	13:08	22:17

8 Luna	06:23:40.5	28:20:07.2	101.501	18.3	-8.5	1868.6	2.5	06:49	14:08	23:09
9 Luna	07:23:01.8	27:09:13.4	101.514	30.3	-8.8	1848.7	6.8	07:54	15:06	23:50
10 Luna	08:18:55.9	24:32:44.8	101.526	42.0	-9.1	1829.2	12.9	09:03	16:01	--:--
11 Luna	09:10:46.4	20:49:06.2	101.537	53.5	-9.4	1811.8	20.4	10:10	16:52	00:21
12 Luna	09:58:47.0	16:16:39.2	101.548	64.8	-9.6	1797.7	28.8	11:15	17:38	00:46
13 Luna	10:43:42.8	11:11:07.2	101.558	75.8	-9.9	1788.0	37.8	12:17	18:20	01:08
14 Luna	11:26:33.6	05:45:06.4	101.568	86.7	-10.2	1783.2	47.2	13:18	19:01	01:27
15 Luna	12:08:24.1	00:08:50.1	101.578	97.5	-10.5	1783.8	56.7	14:18	19:40	01:45
16 Luna	12:50:20.3	-05:28:37.1	101.587	108.4	-10.8	1789.6	65.9	15:20	20:19	02:03
17 Luna	13:33:28.3	-10:57:55.0	101.596	119.4	-11.1	1800.4	74.7	16:23	20:59	02:22
18 Luna	14:18:53.1	-16:08:05.5	101.604	130.6	-11.4	1815.4	82.6	17:30	21:41	02:44
19 Luna	15:07:33.8	-20:45:22.4	101.612	142.0	-11.7	1833.7	89.4	18:38	22:27	03:11
20 Luna	16:00:13.3	-24:32:38.7	101.619	153.6	-12.0	1853.8	94.8	19:48	23:18	03:44
21 Luna	16:56:59.2	-27:10:20.3	101.626	165.2	-12.3	1874.4	98.4	20:53	00:13	04:26
22 Luna	17:57:05.3	-28:19:34.0	101.632	174.8	-12.6	1893.8	99.8	21:52	01:11	05:21
23 Luna	18:58:49.6	-27:47:18.0	101.638	-167.9	-12.4	1910.8	98.9	22:40	02:11	06:26
24 Luna	20:00:03.9	-25:31:08.1	101.644	-155.5	-12.1	1924.1	95.5	23:18	03:11	07:41
25 Luna	20:59:03.0	-21:40:27.8	101.649	-142.6	-11.8	1933.4	89.8	23:49	04:07	08:58
26 Luna	21:54:58.3	-16:33:22.2	101.653	-129.5	-11.5	1938.3	81.9	--:--	05:00	10:15
27 Luna	22:47:59.4	-10:31:52.7	101.657	-116.3	-11.2	1939.4	72.3	00:15	05:50	11:31
28 Luna	23:38:55.6	-03:58:23.4	101.661	-103.1	-10.8	1937.1	61.5	00:38	01:15	12:45
29 Luna	00:28:56.6	02:45:48.4	101.664	-89.9	-10.5	1932.0	50.1	01:01	19:02	13:59
30 Luna	01:19:18.3	09:20:25.0	101.666	-76.8	-10.1	1924.7	38.7	01:24	07:27	15:14
1 Mercurio	03:33:36.8	17:42:51.7	0.35052	-15.6	-0.8	5.6	81.4	04:54	12:03	19:19
2 Mercurio	03:41:12.8	18:19:04.1	0.34502	-14.7	-0.9	5.6	83.4	04:55	12:06	19:26
3 Mercurio	03:49:00.8	18:54:47.3	0.33971	-13.7	-1.0	5.5	85.4	04:57	12:10	19:32
4 Mercurio	03:57:01.0	19:29:51.5	0.33463	-12.6	-1.1	5.4	87.4	04:59	12:14	19:39
5 Mercurio	04:05:13.3	20:04:06.0	0.32983	-11.6	-1.2	5.4	89.3	05:00	12:18	19:46
6 Mercurio	04:13:37.4	20:37:19.6	0.32537	-10.5	-1.3	5.3	91.1	05:02	12:22	19:53
7 Mercurio	04:22:13.0	21:09:20.8	0.3213	-9.4	-1.4	5.3	92.9	05:05	12:27	20:00
8 Mercurio	04:30:59.6	21:39:57.5	0.31768	-8.2	-1.5	5.2	94.5	05:08	12:32	20:07
9 Mercurio	04:39:56.6	22:08:57.5	0.31454	-7.1	-1.6	5.2	95.9	05:10	12:37	20:14
10 Mercurio	04:49:03.1	22:36:08.9	0.31193	-5.9	-1.7	5.2	97.1	05:14	12:42	20:21
11 Mercurio	04:58:18.2	23:01:19.9	0.3099	-4.7	-1.8	5.1	98.2	05:17	12:47	20:28
12 Mercurio	05:07:40.6	23:24:19.4	0.30847	-3.5	-2.0	5.1	99.0	05:21	12:53	20:36
13 Mercurio	05:17:09.0	23:44:57.2	0.30767	-2.3	-2.1	5.1	99.6	05:25	12:58	20:43
14 Mercurio	05:26:42.1	24:03:04.6	0.30751	-1.3	-2.2	5.1	99.9	05:29	13:04	20:50
15 Mercurio	05:36:18.2	24:18:34.2	0.30799	1.0	-2.2	5.1	99.9	05:34	13:09	20:57
16 Mercurio	05:45:55.7	24:31:20.4	0.30911	1.9	-2.1	5.1	99.7	05:38	13:15	21:03
17 Mercurio	05:55:33.1	24:41:19.2	0.31084	3.0	-2.0	5.1	99.2	05:43	13:21	21:10
18 Mercurio	06:05:08.7	24:48:28.8	0.31316	4.2	-1.9	5.1	98.6	05:48	13:26	21:16
19 Mercurio	06:14:41.0	24:52:48.9	0.31604	5.4	-1.7	5.1	97.7	05:54	13:32	21:21
20 Mercurio	06:24:08.6	24:54:21.1	0.31942	6.6	-1.6	5.2	96.6	05:59	13:38	21:27
21 Mercurio	06:33:30.2	24:53:08.5	0.32328	7.7	-1.5	5.2	95.3	06:04	13:43	21:32
22 Mercurio	06:42:44.6	24:49:15.5	0.32755	8.9	-1.4	5.2	93.9	06:10	13:49	21:37
23 Mercurio	06:51:50.7	24:42:47.8	0.33218	10.0	-1.3	5.3	92.4	06:16	13:54	21:41
24 Mercurio	07:00:47.6	24:33:51.7	0.33712	11.0	-1.2	5.3	90.8	06:21	13:59	21:45
25 Mercurio	07:09:34.7	24:22:34.5	0.34233	12.1	-1.1	5.3	89.1	06:27	14:04	21:48
26 Mercurio	07:18:11.3	24:09:03.8	0.34774	13.1	-1.0	5.4	87.4	06:33	14:09	21:52
27 Mercurio	07:26:36.9	23:53:27.3	0.35331	14.1	-0.9	5.4	85.7	06:39	14:13	21:55
28 Mercurio	07:34:51.1	23:35:53.2	0.35901	15.0	-0.8	5.5	83.9	06:44	14:17	21:57
29 Mercurio	07:42:53.8	23:16:29.4	0.36477	15.9	-0.7	5.6	82.2	06:50	14:22	21:59
30 Mercurio	07:50:44.6	22:55:24.2	0.37058	16.8	-0.6	5.6	80.4	06:56	14:26	22:01

1 Venere	04:33:11.7	21:43:52.2	0.72114	-1.0	-3.9	9.7	100.0	05:37	13:03	20:33
2 Venere	04:38:24.8	21:56:44.7	0.72102	-0.8	-3.9	9.7	100.0	05:37	13:04	20:35
3 Venere	04:43:38.8	22:09:00.2	0.7209	-0.5	-3.9	9.7	100.0	05:37	13:06	20:37
4 Venere	04:48:53.7	22:20:38.1	0.72078	-0.2	-3.9	9.7	100.0	05:38	13:07	20:39
5 Venere	04:54:09.4	22:31:37.9	0.72067	0.1	-3.9	9.7	100.0	05:38	13:08	20:41
6 Venere	04:59:26.0	22:41:59.2	0.72055	0.3	-3.9	9.7	100.0	05:39	13:10	20:43
7 Venere	05:04:43.3	22:51:41.6	0.72044	0.6	-3.9	9.7	100.0	05:39	13:11	20:46
8 Venere	05:10:01.3	23:00:44.4	0.72033	0.9	-3.9	9.7	100.0	05:40	13:12	20:48
9 Venere	05:15:20.1	23:09:07.5	0.72023	1.2	-3.9	9.7	100.0	05:41	13:14	20:50
10 Venere	05:20:39.4	23:16:50.3	0.72012	1.4	-3.9	9.7	100.0	05:42	13:15	20:52
11 Venere	05:25:59.3	23:23:52.5	0.72002	1.7	-3.9	9.7	100.0	05:43	13:16	20:54
12 Venere	05:31:19.8	23:30:13.7	0.71992	2.0	-3.9	9.7	99.9	05:43	13:18	20:55
13 Venere	05:36:40.7	23:35:53.8	0.71982	2.3	-3.9	9.7	99.9	05:44	13:19	20:57
14 Venere	05:42:02.0	23:40:52.3	0.71973	2.5	-3.9	9.7	99.9	05:45	13:21	20:59
15 Venere	05:47:23.7	23:45:09.1	0.71964	2.8	-3.9	9.7	99.9	05:47	13:22	21:01
16 Venere	05:52:45.7	23:48:43.9	0.71955	3.1	-3.9	9.7	99.9	05:48	13:24	21:02
17 Venere	05:58:08.0	23:51:36.5	0.71947	3.4	-3.9	9.7	99.8	05:49	13:25	21:04
18 Venere	06:03:30.4	23:53:46.9	0.71939	3.6	-3.9	9.7	99.8	05:50	13:26	21:06
19 Venere	06:08:53.0	23:55:14.9	0.71931	3.9	-3.9	9.7	99.8	05:51	13:28	21:07
20 Venere	06:14:15.7	23:56:00.4	0.71923	4.2	-3.9	9.7	99.7	05:53	13:29	21:09
21 Venere	06:19:38.4	23:56:03.4	0.71916	4.5	-3.9	9.7	99.7	05:54	13:31	21:10
22 Venere	06:25:01.1	23:55:23.8	0.71909	4.8	-3.9	9.7	99.7	05:56	13:32	21:11
23 Venere	06:30:23.6	23:54:01.6	0.71902	5.0	-3.9	9.7	99.6	05:57	13:34	21:13
24 Venere	06:35:46.1	23:51:57.0	0.71896	5.3	-3.9	9.8	99.6	05:59	13:35	21:14
25 Venere	06:41:08.3	23:49:09.8	0.7189	5.6	-3.9	9.8	99.5	06:00	13:36	21:15
26 Venere	06:46:30.3	23:45:40.3	0.71885	5.9	-3.9	9.8	99.5	06:02	13:38	21:16
27 Venere	06:51:51.9	23:41:28.5	0.71879	6.1	-3.9	9.8	99.4	06:04	13:39	21:17
28 Venere	06:57:13.2	23:36:34.5	0.71875	6.4	-3.9	9.8	99.4	06:06	13:41	21:18
29 Venere	07:02:34.0	23:30:58.5	0.7187	6.7	-3.9	9.8	99.3	06:07	13:42	21:19
30 Venere	07:07:54.4	23:24:40.7	0.71866	7.0	-3.9	9.8	99.3	06:09	13:44	21:20
1 Marte	01:29:56.4	08:09:08.6	138.545	-47.1	1.1	5.0	92.2	03:28	10:01	16:33
2 Marte	01:32:45.2	08:25:56.7	13.858	-47.3	1.1	5.0	92.1	03:26	10:00	16:33
3 Marte	01:35:34.1	08:42:39.0	138.615	-47.5	1.0	5.1	92.1	03:23	09:59	16:33
4 Marte	01:38:23.0	08:59:15.4	138.652	-47.7	1.0	5.1	92.0	03:21	09:58	16:32
5 Marte	01:41:12.0	09:15:45.6	13.869	-48.0	1.0	5.1	92.0	03:19	09:56	16:32
6 Marte	01:44:01.1	09:32:09.5	13.873	-48.2	1.0	5.1	91.9	03:17	09:55	16:32
7 Marte	01:46:50.2	09:48:27.0	138.771	-48.4	1.0	5.1	91.9	03:15	09:54	16:32
8 Marte	01:49:39.4	10:04:37.9	138.813	-48.6	1.0	5.1	91.8	03:13	09:53	16:32
9 Marte	01:52:28.6	10:20:42.0	138.857	-48.8	1.0	5.1	91.8	03:10	09:52	16:32
10 Marte	01:55:17.9	10:36:39.2	138.902	-49.0	1.0	5.1	91.7	03:08	09:51	16:32
11 Marte	01:58:07.3	10:52:29.3	138.949	-49.2	1.0	5.1	91.6	03:06	09:50	16:32
12 Marte	02:00:56.8	11:08:12.2	138.996	-49.4	1.0	5.2	91.6	03:04	09:49	16:32
13 Marte	02:03:46.3	11:23:47.8	139.046	-49.7	1.0	5.2	91.5	03:02	09:47	16:31
14 Marte	02:06:35.9	11:39:15.8	139.096	-49.9	1.0	5.2	91.5	03:00	09:46	16:31
15 Marte	02:09:25.6	11:54:36.3	139.148	-50.1	1.0	5.2	91.4	02:58	09:45	16:31
16 Marte	02:12:15.3	12:09:49.0	139.201	-50.3	1.0	5.2	91.4	02:55	09:44	16:31
17 Marte	02:15:05.2	12:24:53.9	139.255	-50.5	1.0	5.2	91.3	02:53	09:43	16:31
18 Marte	02:17:55.1	12:39:50.8	139.311	-50.7	1.0	5.2	91.3	02:51	09:42	16:31
19 Marte	02:20:45.2	12:54:39.7	139.368	-51.0	1.0	5.2	91.2	02:49	09:41	16:31
20 Marte	02:23:35.3	13:09:20.4	139.426	-51.2	1.0	5.2	91.2	02:47	09:40	16:30
21 Marte	02:26:25.5	13:23:52.8	139.485	-51.4	1.0	5.3	91.1	02:45	09:39	16:30
22 Marte	02:29:15.8	13:38:16.8	139.546	-51.6	1.0	5.3	91.0	02:43	09:38	16:30

23 Marte	02:32:06.2	13:52:32.3	139.608	-51.9	1.0	5.3	91.0	02:41	09:36	16:30
24 Marte	02:34:56.8	14:06:39.2	139.671	-52.1	1.0	5.3	90.9	02:39	09:35	16:30
25 Marte	02:37:47.4	14:20:37.3	139.736	-52.3	1.0	5.3	90.9	02:37	09:34	16:29
26 Marte	02:40:38.1	14:34:26.5	139.801	-52.5	1.0	5.3	90.8	02:35	09:33	16:29
27 Marte	02:43:28.9	14:48:06.7	139.868	-52.8	1.0	5.3	90.8	02:33	09:32	16:29
28 Marte	02:46:19.8	15:01:37.8	139.936	-53.0	1.0	5.3	90.7	02:31	09:31	16:29
29 Marte	02:49:10.7	15:14:59.6	140.005	-53.2	1.0	5.4	90.7	02:29	09:30	16:29
30 Marte	02:52:01.8	15:28:12.0	140.076	-53.5	1.0	5.4	90.6	02:27	09:29	16:28
1 Giove	03:57:42.9	19:44:15.9	501.919	-9.6	-2.0	32.7	100.0	05:09	12:29	19:45
2 Giove	03:58:41.2	19:47:09.0	501.945	-10.3	-2.0	32.7	100.0	05:06	12:26	19:42
3 Giove	03:59:39.5	19:50:00.5	501.971	-11.0	-2.0	32.7	100.0	05:03	12:23	19:39
4 Giove	04:00:37.8	19:52:50.5	501.997	-11.7	-2.0	32.7	100.0	04:59	12:20	19:36
5 Giove	04:01:36.0	19:55:39.0	502.023	-12.4	-2.0	32.8	100.0	04:56	12:18	19:34
6 Giove	04:02:34.2	19:58:25.9	502.049	-13.2	-2.0	32.8	99.9	04:53	12:15	19:31
7 Giove	04:03:32.3	20:01:11.3	502.075	-13.9	-2.0	32.8	99.9	04:50	12:12	19:28
8 Giove	04:04:30.4	20:03:55.2	502.101	-14.6	-2.0	32.8	99.9	04:47	12:09	19:25
9 Giove	04:05:28.3	20:06:37.5	502.128	-15.3	-2.0	32.8	99.9	04:43	12:06	19:22
10 Giove	04:06:26.2	20:09:18.2	502.154	-16.1	-2.0	32.8	99.9	04:40	12:03	19:20
11 Giove	04:07:24.0	20:11:57.2	502.180	-16.8	-2.0	32.9	99.9	04:37	12:00	19:17
12 Giove	04:08:21.8	20:14:34.7	502.206	-17.5	-2.0	32.9	99.9	04:34	11:57	19:14
13 Giove	04:09:19.4	20:17:10.5	502.233	-18.2	-2.0	32.9	99.9	04:31	11:54	19:11
14 Giove	04:10:16.9	20:19:44.6	502.259	-19.0	-2.0	32.9	99.9	04:28	11:51	19:08
15 Giove	04:11:14.3	20:22:17.1	502.285	-19.7	-2.0	33.0	99.9	04:24	11:48	19:06
16 Giove	04:12:11.6	20:24:47.9	502.312	-20.4	-2.0	33.0	99.9	04:21	11:45	19:03
17 Giove	04:13:08.8	20:27:17.0	502.338	-21.2	-2.0	33.0	99.9	04:18	11:42	19:00
18 Giove	04:14:05.9	20:29:44.5	502.365	-21.9	-2.0	33.1	99.9	04:15	11:39	18:57
19 Giove	04:15:02.9	20:32:10.3	502.391	-22.6	-2.0	33.1	99.8	04:12	11:36	18:54
20 Giove	04:15:59.7	20:34:34.5	502.418	-23.3	-2.0	33.1	99.8	04:09	11:33	18:51
21 Giove	04:16:56.4	20:36:57.0	502.445	-24.1	-2.0	33.1	99.8	04:06	11:30	18:49
22 Giove	04:17:53.0	20:39:17.9	502.471	-24.8	-2.0	33.2	99.8	04:02	11:27	18:46
23 Giove	04:18:49.4	20:41:37.2	502.498	-25.5	-2.0	33.2	99.8	03:59	11:24	18:43
24 Giove	04:19:45.7	20:43:54.7	502.525	-26.3	-2.0	33.3	99.8	03:56	11:21	18:40
25 Giove	04:20:41.8	20:46:10.7	511.11.00	-27.0	-2.0	33.3	99.8	03:53	11:18	18:37
26 Giove	04:21:37.8	20:48:24.9	502.578	-27.7	-2.0	33.3	99.8	03:50	11:15	18:34
27 Giove	04:22:33.6	20:50:37.5	502.605	-28.5	-2.0	33.4	99.8	03:47	11:12	18:31
28 Giove	04:23:29.2	20:52:48.3	502.632	-29.2	-2.0	33.4	99.8	03:44	11:09	18:29
29 Giove	04:24:24.6	20:54:57.5	502.659	-29.9	-2.0	33.4	99.7	03:41	11:06	18:26
30 Giove	04:25:19.9	20:57:04.9	502.686	-30.7	-2.0	33.5	99.7	03:37	11:03	18:23
1 Saturno	23:21:31.7	-06:09:43.2	969.425	-82.2	1.3	16.9	99.7	02:11	07:50	13:31
2 Saturno	23:21:42.3	-06:08:51.6	969.396	-83.1	1.3	17.0	99.7	02:07	07:47	13:27
3 Saturno	23:21:52.5	-06:08:02.2	969.367	-84.0	1.3	17.0	99.7	02:03	07:43	13:24
4 Saturno	23:22:02.4	-06:07:15.0	969.337	-84.9	1.3	17.0	99.7	01:59	07:39	13:20
5 Saturno	23:22:11.9	-06:06:30.0	969.308	-85.8	1.3	17.0	99.7	01:56	07:35	13:16
6 Saturno	23:22:21.2	-06:05:47.3	969.279	-86.8	1.2	17.1	99.7	01:52	07:32	13:12
7 Saturno	23:22:30.0	-06:05:06.8	96.925	-87.7	1.2	17.1	99.7	01:48	07:28	13:08
8 Saturno	23:22:38.6	-06:04:28.5	96.922	-88.6	1.2	17.1	99.7	01:44	07:24	13:05
9 Saturno	23:22:46.7	-06:03:52.6	969.191	-89.5	1.2	17.2	99.7	01:40	07:20	13:01
10 Saturno	23:22:54.6	-06:03:19.0	969.162	-90.4	1.2	17.2	99.7	01:37	07:16	12:57
11 Saturno	23:23:02.0	-06:02:47.7	969.132	-91.4	1.2	17.2	99.7	01:33	07:13	12:53
12 Saturno	23:23:09.1	-06:02:18.8	969.103	-92.3	1.2	17.3	99.7	01:29	07:09	12:49
13 Saturno	23:23:15.9	-06:01:52.2	969.074	-93.2	1.2	17.3	99.7	01:25	07:05	12:46
14 Saturno	23:23:22.3	-06:01:27.9	969.045	-94.1	1.2	17.3	99.7	01:21	07:01	12:42

15 Saturno	23:23:28.3	-06:01:05.9	969.015	-95.1	1.2	17.3	99.7	01:17	06:57	12:38
16 Saturno	23:23:33.9	-06:00:46.3	968.986	-96.0	1.2	17.4	99.7	01:13	06:53	12:34
17 Saturno	23:23:39.2	-06:00:29.0	968.957	-96.9	1.2	17.4	99.7	01:10	06:50	12:30
18 Saturno	23:23:44.2	-06:00:14.0	968.927	-97.9	1.2	17.4	99.7	01:06	06:46	12:26
19 Saturno	23:23:48.8	-06:00:01.3	968.898	-98.8	1.2	17.5	99.7	01:02	06:42	12:22
20 Saturno	23:23:53.0	-05:59:50.9	968.869	-99.7	1.2	17.5	99.7	00:58	06:38	12:19
21 Saturno	23:23:56.9	-05:59:42.8	968.839	-100.7	1.2	17.5	99.7	00:54	06:34	12:15
22 Saturno	23:24:00.4	-05:59:37.1	96.881	-101.6	1.2	17.6	99.7	00:50	06:30	12:11
23 Saturno	23:24:03.5	-05:59:33.7	968.781	-102.6	1.2	17.6	99.7	00:46	06:26	12:07
24 Saturno	23:24:06.3	-05:59:32.7	968.751	-103.5	1.2	17.6	99.7	00:42	06:23	12:03
25 Saturno	23:24:08.7	-05:59:34.0	968.722	-104.4	1.2	17.6	99.7	00:38	06:19	11:59
26 Saturno	23:24:10.7	-05:59:37.7	968.693	-105.4	1.2	17.7	99.7	00:34	06:15	11:56
27 Saturno	23:24:12.3	-05:59:43.7	968.663	-106.3	1.2	17.7	99.7	00:30	06:11	11:52
28 Saturno	23:24:13.6	-05:59:52.2	968.634	-107.3	1.2	17.7	99.7	00:26	06:07	11:48
29 Saturno	23:24:14.5	-06:00:02.9	968.604	-108.2	1.1	17.8	99.8	00:23	06:03	11:44
30 Saturno	23:24:15.1	-06:00:16.0	968.575	-109.2	1.1	17.8	99.8	00:19	05:59	11:40
1 Urano	03:27:27.5	18:33:33.3	1.958.889	-16.8	5.8	3.3	100.0	04:44	12:00	19:09
2 Urano	03:27:41.3	18:34:23.1	1.958.873	-17.7	5.8	3.3	100.0	04:40	11:56	19:05
3 Urano	03:27:55.0	18:35:12.7	1.958.857	-18.6	5.8	3.3	100.0	04:36	11:52	19:01
4 Urano	03:28:08.7	18:36:01.9	195.884	-19.5	5.8	3.3	100.0	04:32	11:48	18:57
5 Urano	03:28:22.3	18:36:50.9	1.958.824	-20.4	5.8	3.3	100.0	04:28	11:45	18:54
6 Urano	03:28:35.8	18:37:39.7	1.958.807	-21.3	5.8	3.3	100.0	04:25	11:41	18:50
7 Urano	03:28:49.3	18:38:28.1	1.958.791	-22.2	5.8	3.3	100.0	04:21	11:37	18:46
8 Urano	03:29:02.8	18:39:16.3	1.958.775	-23.1	5.8	3.3	100.0	04:17	11:34	18:43
9 Urano	03:29:16.2	18:40:04.2	1.958.758	-24.0	5.8	3.3	100.0	04:13	11:30	18:39
10 Urano	03:29:29.5	18:40:51.7	1.958.742	-24.9	5.8	3.3	100.0	04:10	11:26	18:35
11 Urano	03:29:42.7	18:41:39.0	1.958.726	-25.8	5.8	3.3	100.0	04:06	11:22	18:32
12 Urano	03:29:55.8	18:42:25.8	1.958.709	-26.7	5.8	3.3	100.0	04:02	11:19	18:28
13 Urano	03:30:08.9	18:43:12.3	1.958.693	-27.6	5.8	3.3	100.0	03:59	11:15	18:24
14 Urano	03:30:21.9	18:43:58.4	1.958.676	-28.5	5.8	3.3	100.0	03:55	11:11	18:21
15 Urano	03:30:34.8	18:44:44.2	195.866	-29.4	5.8	3.4	100.0	03:51	11:08	18:17
16 Urano	03:30:47.6	18:45:29.5	1.958.644	-30.3	5.8	3.4	100.0	03:47	11:04	18:13
17 Urano	03:31:00.3	18:46:14.4	1.958.627	-31.2	5.8	3.4	100.0	03:44	11:00	18:10
18 Urano	03:31:13.0	18:46:59.0	1.958.611	-32.1	5.8	3.4	100.0	03:40	10:56	18:06
19 Urano	03:31:25.5	18:47:43.2	1.958.594	-33.0	5.8	3.4	100.0	03:36	10:53	18:03
20 Urano	03:31:38.0	18:48:27.0	1.958.578	-33.9	5.8	3.4	100.0	03:32	10:49	17:59
21 Urano	03:31:50.3	18:49:10.4	1.958.562	-34.8	5.8	3.4	100.0	03:29	10:45	17:55
22 Urano	03:32:02.6	18:49:53.4	1.958.545	-35.7	5.8	3.4	100.0	03:25	10:42	17:52
23 Urano	03:32:14.8	18:50:36.0	1.958.529	-36.6	5.8	3.4	100.0	03:21	10:38	17:48
24 Urano	03:32:26.9	18:51:18.2	1.958.512	-37.5	5.8	3.4	100.0	03:17	10:34	17:44
25 Urano	03:32:38.8	18:52:00.0	1.958.496	-38.4	5.8	3.4	100.0	03:13	10:30	17:41
26 Urano	03:32:50.7	18:52:41.4	195.848	-39.3	5.8	3.4	100.0	03:10	10:27	17:37
27 Urano	03:33:02.4	18:53:22.2	1.958.463	-40.2	5.8	3.4	100.0	03:06	10:23	17:33
28 Urano	03:33:14.0	18:54:02.6	1.958.447	-41.1	5.8	3.4	100.0	03:02	10:19	17:30
29 Urano	03:33:25.5	18:54:42.5	195.843	-42.1	5.8	3.4	100.0	02:58	10:15	17:26
30 Urano	03:33:36.9	18:55:22.0	1.958.414	-43.0	5.8	3.4	100.0	02:54	10:12	17:22
1 Nettuno	00:00:46.0	-01:17:00.8	2.989.978	-71.3	7.9	2.4	100.0	02:32	08:33	14:27
2 Nettuno	00:00:49.7	-01:16:39.8	2.989.975	-72.2	7.9	2.4	100.0	02:28	08:30	14:23
3 Nettuno	00:00:53.3	-01:16:19.5	2.989.973	-73.1	7.9	2.4	100.0	02:24	08:26	14:19
4 Nettuno	00:00:56.8	-01:15:59.9	298.997	-74.1	7.9	2.4	100.0	02:20	08:22	14:16
5 Nettuno	00:01:00.1	-01:15:41.1	2.989.968	-75.0	7.9	2.4	100.0	02:17	08:18	14:12
6 Nettuno	00:01:03.4	-01:15:23.0	2.989.965	-76.0	7.9	2.4	100.0	02:13	08:14	14:08

7 Nettuno	00:01:06.6	-01:15:05.6	2.989.962	-76.9	7.9	2.4	100.0	02:09	08:10	14:04
8 Nettuno	00:01:09.6	-01:14:49.0	298.996	-77.9	7.9	2.4	100.0	02:05	08:06	14:00
9 Nettuno	00:01:12.5	-01:14:33.2	2.989.957	-78.8	7.9	2.4	100.0	02:01	08:02	13:57
10 Nettuno	00:01:15.4	-01:14:18.1	2.989.955	-79.7	7.9	2.4	100.0	01:57	07:59	13:53
11 Nettuno	00:01:18.1	-01:14:03.9	2.989.952	-80.7	7.9	2.4	100.0	01:54	07:55	13:49
12 Nettuno	00:01:20.6	-01:13:50.4	2.989.949	-81.6	7.9	2.4	100.0	01:50	07:51	13:45
13 Nettuno	00:01:23.1	-01:13:37.7	2.989.947	-82.6	7.9	2.4	100.0	01:46	07:47	13:41
14 Nettuno	00:01:25.4	-01:13:25.7	2.989.944	-83.5	7.9	2.4	100.0	01:42	07:43	13:37
15 Nettuno	00:01:27.6	-01:13:14.6	2.989.942	-84.5	7.9	2.4	100.0	01:38	07:39	13:33
16 Nettuno	00:01:29.7	-01:13:04.2	2.989.939	-85.4	7.9	2.4	100.0	01:34	07:35	13:30
17 Nettuno	00:01:31.7	-01:12:54.6	2.989.937	-86.4	7.9	2.4	100.0	01:30	07:31	13:26
18 Nettuno	00:01:33.6	-01:12:45.8	2.989.934	-87.3	7.9	2.4	100.0	01:26	07:27	13:22
19 Nettuno	00:01:35.3	-01:12:37.7	2.989.931	-88.3	7.9	2.4	100.0	01:22	07:24	13:18
20 Nettuno	00:01:37.0	-01:12:30.4	2.989.929	-89.2	7.9	2.4	100.0	01:18	07:20	13:14
21 Nettuno	00:01:38.5	-01:12:23.8	2.989.926	-90.1	7.9	2.4	100.0	01:14	07:16	13:10
22 Nettuno	00:01:39.9	-01:12:18.0	18.44.24	-91.1	7.9	2.4	100.0	01:11	07:12	13:06
23 Nettuno	00:01:41.2	-01:12:12.9	18.44.21	-92.0	7.9	2.4	100.0	01:07	07:08	13:02
24 Nettuno	00:01:42.4	-01:12:08.7	18.44.18	-93.0	7.9	2.5	100.0	01:03	07:04	12:58
25 Nettuno	00:01:43.4	-01:12:05.2	18.44.16	-93.9	7.9	2.5	100.0	00:59	07:00	12:54
26 Nettuno	00:01:44.3	-01:12:02.5	18.44.13	-94.9	7.9	2.5	100.0	00:55	06:56	12:50
27 Nettuno	00:01:45.1	-01:12:00.7	18.44.11	-95.8	7.9	2.5	100.0	00:51	06:52	12:46
28 Nettuno	00:01:45.8	-01:11:59.6	18.44.08	-96.8	7.9	2.5	100.0	00:47	06:48	12:42
29 Nettuno	00:01:46.3	-01:11:59.3	18.44.05	-97.7	7.9	2.5	100.0	00:43	06:44	12:38
30 Nettuno	00:01:46.8	-01:11:59.8	18.44.03	-98.7	7.9	2.5	100.0	00:39	06:40	12:34