

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			DISTÂNCIA À TERRA		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
JAN. 0	18	40	55.05	-23	6	27.9	0.983	3697	16	15.88	12	3	4.63
1	18	45	20.30	23	1	54.8	.983	3537	16	15.89	12	3	33.17
2	18	49	45.24	22	56	54.0	.983	3414	16	15.90	12	4	1.38
3	18	54	9.83	22	51	25.8	.983	3327	16	15.91	12	4	29.23
4	18	58	34.02	22	45	30.3	.983	3279	16	15.92	12	4	56.67
5	19	2	57.80	-22	39	7.6	0.983	3273	16	15.92	12	5	23.68
6	19	7	21.12	22	32	18.1	.983	3311	16	15.91	12	5	50.22
7	19	11	43.97	22	25	1.8	.983	3398	16	15.90	12	6	16.27
8	19	16	6.32	22	17	19.0	.983	3537	16	15.89	12	6	41.81
9	19	20	28.14	22	9	10.0	.983	3730	16	15.87	12	7	6.81
10	19	24	49.41	-22	0	35.0	0.983	3981	16	15.85	12	7	31.24
11	19	29	10.12	21	51	34.3	.983	4290	16	15.82	12	7	55.09
12	19	33	30.23	21	42	8.2	.983	4661	16	15.78	12	8	18.34
13	19	37	49.73	21	32	16.9	.983	5093	16	15.74	12	8	40.97
14	19	42	8.60	21	22	0.6	.983	5588	16	15.69	12	9	2.95
15	19	46	26.82	-21	11	19.8	0.983	6145	16	15.63	12	9	24.29
16	19	50	44.38	21	0	14.6	.983	6765	16	15.57	12	9	44.95
17	19	55	1.26	20	48	45.3	.983	7445	16	15.50	12	10	4.93
18	19	59	17.45	20	36	52.3	.983	8186	16	15.43	12	10	24.22
19	20	3	32.93	20	24	35.9	.983	8986	16	15.35	12	10	42.79
20	20	7	47.70	-20	11	56.3	0.983	9843	16	15.27	12	11	0.64
21	20	12	1.74	19	58	54.0	.984	0754	16	15.18	12	11	17.76
22	20	16	15.04	19	45	29.1	.984	1718	16	15.08	12	11	34.14
23	20	20	27.60	19	31	42.1	.984	2732	16	14.98	12	11	49.76
24	20	24	39.41	19	17	33.3	.984	3793	16	14.87	12	12	4.62
25	20	28	50.45	-19	3	3.1	0.984	4897	16	14.76	12	12	18.71
26	20	33	0.72	18	48	11.9	.984	6042	16	14.65	12	12	32.03
27	20	37	10.21	18	32	60.0	.984	7225	16	14.53	12	12	44.55
28	20	41	18.91	18	17	27.8	.984	8441	16	14.41	12	12	56.28
29	20	45	26.80	18	1	35.8	.984	9690	16	14.29	12	13	7.19
30	20	49	33.88	-17	45	24.4	0.985	0968	16	14.16	12	13	17.30
31	20	53	40.13	17	28	53.9	.985	2275	16	14.03	12	13	26.57
FEV. 1	20	57	45.55	17	12	4.9	.985	3612	16	13.90	12	13	35.02
2	21	1	50.14	16	54	57.7	.985	4980	16	13.77	12	13	42.63
3	21	5	53.90	16	37	32.7	.985	6382	16	13.63	12	13	49.41
4	21	9	56.82	-16	19	50.4	0.985	7820	16	13.49	12	13	55.36
5	21	13	58.91	16	1	51.1	.985	9297	16	13.34	12	14	0.48
6	21	18	0.18	15	43	35.4	.986	0815	16	13.19	12	14	4.77
7	21	22	0.63	15	25	3.7	.986	2378	16	13.04	12	14	8.24
8	21	26	0.26	15	6	16.3	.986	3988	16	12.88	12	14	10.90
9	21	29	59.09	-14	47	13.8	0.986	5645	16	12.71	12	14	12.76
10	21	33	57.12	-14	27	56.4	0.986	7351	16	12.55	12	14	13.82

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	H	M	S	G	'	"		'	"	H	M	S
FEV. 10	21	33	57.12	-14	27	56.4	0.986 7351	16	12.55	12	14	13.82
	11	21	37 54.36	14	8	24.7	.986 9108	16	12.37	12	14	14.11
	12	21	41 50.82	13	48	38.9	.987 0915	16	12.20	12	14	13.62
	13	21	45 46.52	13	28	39.6	.987 2773	16	12.01	12	14	12.38
	14	21	49 41.46	13	8	27.1	.987 4681	16	11.82	12	14	10.40
	15	21	53 35.67	-12	48	1.7	0.987 6639	16	11.63	12	14	7.69
	16	21	57 29.16	12	27	24.0	.987 8646	16	11.43	12	14	4.26
	17	22	1 21.93	12	6	34.2	.988 0699	16	11.23	12	14	0.13
	18	22	5 14.02	11	45	32.7	.988 2797	16	11.03	12	13	55.32
	19	22	9 5.43	11	24	20.0	.988 4938	16	10.82	12	13	49.85
	20	22	12 56.18	-11	2	56.5	0.988 7120	16	10.60	12	13	43.72
	21	22	16 46.29	10	41	22.4	.988 9339	16	10.38	12	13	36.95
	22	22	20 35.78	10	19	38.3	.989 1591	16	10.16	12	13	29.56
	23	22	24 24.65	9	57	44.5	.989 3874	16	9.94	12	13	21.57
	24	22	28 12.93	9	35	41.5	.989 6183	16	9.71	12	13	12.98
	25	22	32 0.62	- 9	13	29.7	0.989 8515	16	9.48	12	13	3.82
	26	22	35 47.74	8	51	9.4	.990 0866	16	9.25	12	12	54.10
	27	22	39 34.30	8	28	41.2	.990 3232	16	9.02	12	12	43.82
	28	22	43 20.30	8	6	5.5	.990 5611	16	8.79	12	12	33.00
MAR. 1	22	47	5.77	7	43	22.6	.990 8002	16	8.56	12	12	21.66
	2	22	50 50.72	- 7	20	33.1	0.991 0404	16	8.32	12	12	9.81
	3	22	54 35.17	6	57	37.3	.991 2819	16	8.09	12	11	57.45
	4	22	58 19.13	6	34	35.7	.991 5248	16	7.85	12	11	44.62
	5	23	2 2.61	6	11	28.6	.991 7693	16	7.61	12	11	31.32
	6	23	5 45.65	5	48	16.6	.992 0157	16	7.37	12	11	17.57
	7	23	9 28.25	- 5	24	59.9	0.992 2642	16	7.13	12	11	3.40
	8	23	13 10.43	5	1	39.0	.992 5151	16	6.88	12	10	48.82
	9	23	16 52.21	4	38	14.3	.992 7684	16	6.64	12	10	33.86
	10	23	20 33.62	4	14	46.2	.993 0243	16	6.39	12	10	18.53
	11	23	24 14.67	3	51	15.0	.993 2830	16	6.14	12	10	2.85
	12	23	27 55.39	- 3	27	41.1	0.993 5446	16	5.88	12	9	46.86
	13	23	31 35.79	3	4	4.8	.993 8090	16	5.62	12	9	30.57
	14	23	35 15.91	2	40	26.5	.994 0764	16	5.36	12	9	14.00
	15	23	38 55.76	2	16	46.6	.994 3466	16	5.10	12	8	57.18
	16	23	42 35.37	1	53	5.3	.994 6197	16	4.84	12	8	40.14
	17	23	46 14.76	- 1	29	23.1	0.994 8956	16	4.57	12	8	22.89
	18	23	49 53.96	1	5	40.3	.995 1741	16	4.30	12	8	5.45
	19	23	53 33.00	0	41	57.1	.995 4550	16	4.03	12	7	47.86
	20	23	57 11.88	- 0	18	14.0	.995 7381	16	3.75	12	7	30.13
	21	0	0 50.65	+ 0	5	28.7	.996 0232	16	3.48	12	7	12.29
	22	0	4 29.32	+ 0	29	10.7	0.996 3099	16	3.20	12	6	54.36
	23	0	8 7.91	+ 0	52	51.6	0.996 5979	16	2.92	12	6	36.36

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	H	M	S	G	'	"		'	"	H	M	S
MAR. 23	0	8	7.91	+	0	52 51.6	0.996 5979	16	2.92	12	6	36.36
24	0	11	46.43		1	16 31.0	.996 8868	16	2.64	12	6	18.31
25	0	15	24.92		1	40 8.6	.997 1761	16	2.36	12	6	0.23
26	0	19	3.39		2	3 44.1	.997 4655	16	2.08	12	5	42.13
27	0	22	41.84		2	27 16.9	.997 7545	16	1.81	12	5	24.05
28	0	26	20.31	+	2	50 46.8	0.998 0428	16	1.53	12	5	5.98
29	0	29	58.81		3	14 13.3	.998 3301	16	1.25	12	4	47.96
30	0	33	37.35		3	37 36.1	.998 6162	16	0.98	12	4	29.98
31	0	37	15.95		4	0 54.8	.998 9011	16	0.70	12	4	12.08
ABR. 1	0	40	54.64		4	24 9.0	.999 1848	16	0.43	12	3	54.26
2	0	44	33.42	+	4	47 18.4	0.999 4674	16	0.16	12	3	36.54
3	0	48	12.31		5	10 22.5	0.999 7492	15	59.89	12	3	18.93
4	0	51	51.32		5	33 21.0	1.000 0302	15	59.62	12	3	1.46
5	0	55	30.48		5	56 13.5	.000 3108	15	59.35	12	2	44.14
6	0	59	9.80		6	18 59.7	.000 5912	15	59.08	12	2	26.99
7	1	2	49.29	+	6	41 39.3	1.000 8714	15	58.81	12	2	10.03
8	1	6	28.98		7	4 11.8	.001 1516	15	58.54	12	1	53.27
9	1	10	8.88		7	26 37.1	.001 4320	15	58.27	12	1	36.74
10	1	13	49.02		7	48 54.6	.001 7127	15	58.01	12	1	20.46
11	1	17	29.41		8	11 4.2	.001 9937	15	57.74	12	1	4.44
12	1	21	10.08	+	8	33 5.5	1.002 2751	15	57.47	12	0	48.70
13	1	24	51.04		8	54 58.2	.002 5570	15	57.20	12	0	33.27
14	1	28	32.31		9	16 42.0	.002 8393	15	56.93	12	0	18.16
15	1	32	13.92		9	38 16.6	.003 1220	15	56.66	12	0	3.39
16	1	35	55.88		9	59 41.6	.003 4050	15	56.39	11	59	48.99
17	1	39	38.22	+10	20	56.9	1.003 6880	15	56.12	11	59	34.96
18	1	43	20.94		10	42 1.9	.003 9710	15	55.85	11	59	21.33
19	1	47	4.07		11	2 56.5	.004 2536	15	55.58	11	59	8.11
20	1	50	47.63		11	23 40.4	.004 5356	15	55.31	11	58	55.32
21	1	54	31.61		11	44 13.1	.004 8166	15	55.05	11	58	42.97
22	1	58	16.05	+12	4	34.3	1.005 0961	15	54.78	11	58	31.08
23	2	2	0.95		12	24 43.8	.005 3738	15	54.52	11	58	19.66
24	2	5	46.31		12	44 41.0	.005 6492	15	54.26	11	58	8.71
25	2	9	32.16		13	4 25.8	.005 9219	15	54.00	11	57	58.26
26	2	13	18.51		13	23 57.7	.006 1917	15	53.74	11	57	48.31
27	2	17	5.35	+13	43	16.4	1.006 4581	15	53.49	11	57	38.85
28	2	20	52.71		14	2 21.6	.006 7211	15	53.24	11	57	29.91
29	2	24	40.57		14	21 12.8	.006 9805	15	52.99	11	57	21.48
30	2	28	28.96		14	39 49.8	.007 2364	15	52.75	11	57	13.56
MAIO 1	2	32	17.86		14	58 12.3	.007 4889	15	52.51	11	57	6.16
2	2	36	7.29	+15	16	19.8	1.007 7381	15	52.28	11	56	59.29
3	2	39	57.24		15	34 12.0	1.007 9842	15	52.04	11	56	52.95

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	H	M	S	G	'	"		'	"	H	M	S		
MAIO	1	2	32	17.86	+14	58	12.3	1.007	4889	15	52.51	11	57	6.16
	2	2	36	7.29	15	16	19.8	.007	7381	15	52.28	11	56	59.29
	3	2	39	57.24	15	34	12.0	.007	9842	15	52.04	11	56	52.95
	4	2	43	47.73	15	51	48.7	.008	2274	15	51.82	11	56	47.14
	5	2	47	38.74	16	9	9.5	.008	4678	15	51.59	11	56	41.86
	6	2	51	30.30	+16	26	14.1	1.008	7057	15	51.36	11	56	37.13
	7	2	55	22.40	16	43	2.1	.008	9411	15	51.14	11	56	32.95
	8	2	59	15.04	16	59	33.4	.009	1744	15	50.92	11	56	29.32
	9	3	3	8.24	17	15	47.5	.009	4055	15	50.70	11	56	26.25
	10	3	7	1.99	17	31	44.3	.009	6348	15	50.49	11	56	23.73
11	3	10	56.31	+17	47	23.5	1.009	8621	15	50.27	11	56	21.78	
12	3	14	51.19	18	2	44.7	.010	0877	15	50.06	11	56	20.39	
13	3	18	46.65	18	17	47.8	.010	3116	15	49.85	11	56	19.57	
14	3	22	42.68	18	32	32.4	.010	5339	15	49.64	11	56	19.32	
15	3	26	39.28	18	46	58.4	.010	7543	15	49.44	11	56	19.65	
16	3	30	36.46	+19	1	5.3	1.010	9730	15	49.23	11	56	20.55	
17	3	34	34.21	19	14	53.1	.011	1896	15	49.03	11	56	22.03	
18	3	38	32.54	19	28	21.4	.011	4039	15	48.83	11	56	24.08	
19	3	42	31.44	19	41	29.9	.011	6157	15	48.63	11	56	26.70	
20	3	46	30.90	19	54	18.4	.011	8245	15	48.43	11	56	29.88	
21	3	50	30.92	+20	6	46.7	1.012	0301	15	48.24	11	56	33.63	
22	3	54	31.50	20	18	54.3	.012	2319	15	48.05	11	56	37.93	
23	3	58	32.62	20	30	41.1	.012	4296	15	47.86	11	56	42.77	
24	4	2	34.29	20	42	6.8	.012	6228	15	47.68	11	56	48.15	
25	4	6	36.48	20	53	11.2	.012	8113	15	47.51	11	56	54.04	
26	4	10	39.18	+21	3	54.0	1.012	9947	15	47.34	11	57	0.44	
27	4	14	42.39	21	14	14.9	.013	1729	15	47.17	11	57	7.32	
28	4	18	46.07	21	24	13.9	.013	3458	15	47.01	11	57	14.67	
29	4	22	50.21	21	33	50.5	.013	5135	15	46.85	11	57	22.47	
30	4	26	54.80	21	43	4.7	.013	6760	15	46.70	11	57	30.71	
31	4	30	59.80	+21	51	56.3	1.013	8334	15	46.55	11	57	39.35	
JUN.	1	4	35	5.21	22	0	24.9	.013	9859	15	46.41	11	57	48.40
	2	4	39	11.00	22	8	30.4	.014	1337	15	46.27	11	57	57.82
	3	4	43	17.16	22	16	12.8	.014	2770	15	46.14	11	58	7.60
	4	4	47	23.66	22	23	31.7	.014	4159	15	46.01	11	58	17.72
	5	4	51	30.50	+22	30	27.0	1.014	5506	15	45.88	11	58	28.16
	6	4	55	37.65	22	36	58.7	.014	6814	15	45.76	11	58	38.91
	7	4	59	45.10	22	43	6.5	.014	8085	15	45.64	11	58	49.95
	8	5	3	52.83	22	48	50.4	.014	9319	15	45.53	11	59	1.26
	9	5	8	0.82	22	54	10.3	.015	0520	15	45.42	11	59	12.82
	10	5	12	9.05	+22	59	6.0	1.015	1689	15	45.31	11	59	24.61
	11	5	16	17.52	+23	3	37.5	1.015	2826	15	45.20	11	59	36.62

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	H	M	S	G	'	"			'	"	H	M	S
JUN. 11	5	16	17.52	+23	3	37.5	1.015	2826	15	45.20	11	59	36.62
12	5	20	26.19	23	7	44.7	.015	3934	15	45.10	11	59	48.83
13	5	24	35.06	23	11	27.5	.015	5012	15	45.00	12	0	1.22
14	5	28	44.09	23	14	45.8	.015	6059	15	44.90	12	0	13.77
15	5	32	53.28	23	17	39.7	.015	7074	15	44.81	12	0	26.47
16	5	37	2.60	+23	20	8.9	1.015	8056	15	44.71	12	0	39.29
17	5	41	12.04	23	22	13.5	.015	9001	15	44.63	12	0	52.22
18	5	45	21.56	23	23	53.3	.015	9905	15	44.54	12	1	5.23
19	5	49	31.16	23	25	8.3	.016	0766	15	44.46	12	1	18.31
20	5	53	40.81	23	25	58.5	.016	1579	15	44.39	12	1	31.43
21	5	57	50.49	+23	26	23.9	1.016	2341	15	44.32	12	1	44.55
22	6	2	0.17	23	26	24.4	.016	3049	15	44.25	12	1	57.67
23	6	6	9.83	23	26	0.0	.016	3699	15	44.19	12	2	10.74
24	6	10	19.43	23	25	10.9	.016	4291	15	44.13	12	2	23.75
25	6	14	28.95	23	23	57.0	.016	4823	15	44.09	12	2	36.66
26	6	18	38.37	+23	22	18.3	1.016	5294	15	44.04	12	2	49.44
27	6	22	47.64	23	20	15.0	.016	5703	15	44.00	12	3	2.07
28	6	26	56.74	23	17	47.0	.016	6053	15	43.97	12	3	14.52
29	6	31	5.65	23	14	54.5	.016	6344	15	43.94	12	3	26.76
30	6	35	14.33	23	11	37.4	.016	6577	15	43.92	12	3	38.77
JUL. 1	6	39	22.77	+23	7	56.0	1.016	6755	15	43.91	12	3	50.52
2	6	43	30.94	23	3	50.3	.016	6878	15	43.89	12	4	2.00
3	6	47	38.82	22	59	20.4	.016	6950	15	43.89	12	4	13.17
4	6	51	46.38	22	54	26.4	.016	6973	15	43.89	12	4	24.03
5	6	55	53.62	22	49	8.6	.016	6948	15	43.89	12	4	34.54
6	7	0	0.51	+22	43	26.9	1.016	6878	15	43.89	12	4	44.69
7	7	4	7.03	22	37	21.6	.016	6767	15	43.90	12	4	54.46
8	7	8	13.17	22	30	52.9	.016	6616	15	43.92	12	5	3.83
9	7	12	18.91	22	24	0.9	.016	6427	15	43.94	12	5	12.80
10	7	16	24.23	22	16	45.7	.016	6204	15	43.96	12	5	21.35
11	7	20	29.13	+22	9	7.6	1.016	5947	15	43.98	12	5	29.46
12	7	24	33.58	22	1	6.8	.016	5658	15	44.01	12	5	37.12
13	7	28	37.58	21	52	43.3	.016	5336	15	44.04	12	5	44.32
14	7	32	41.11	21	43	57.4	.016	4981	15	44.07	12	5	51.06
15	7	36	44.16	21	34	49.2	.016	4591	15	44.11	12	5	57.32
16	7	40	46.74	+21	25	18.9	1.016	4164	15	44.15	12	6	3.10
17	7	44	48.82	21	15	26.7	.016	3695	15	44.19	12	6	8.38
18	7	48	50.40	21	5	12.8	.016	3182	15	44.24	12	6	13.15
19	7	52	51.47	20	54	37.4	.016	2621	15	44.29	12	6	17.40
20	7	56	52.02	20	43	40.8	.016	2010	15	44.35	12	6	21.12
21	8	0	52.04	+20	32	23.1	1.016	1346	15	44.41	12	6	24.30
22	8	4	51.50	+20	20	44.7	1.016	0626	15	44.48	12	6	26.93

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			DISTÂNCIA À TERRA		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
JUL. 22	8	4	51.50	+20	20	44.7	1.016	0626	15	44.48	12	6	26.93
23	8	8	50.41	20	8	45.7	.015	9849	15	44.55	12	6	28.99
24	8	12	48.75	19	56	26.5	.015	9014	15	44.63	12	6	30.47
25	8	16	46.50	19	43	47.4	.015	8121	15	44.71	12	6	31.36
26	8	20	43.66	19	30	48.6	.015	7169	15	44.80	12	6	31.66
27	8	24	40.22	+19	17	30.3	1.015	6159	15	44.89	12	6	31.35
28	8	28	36.16	19	3	52.9	.015	5093	15	44.99	12	6	30.44
29	8	32	31.49	18	49	56.7	.015	3971	15	45.09	12	6	28.90
30	8	36	26.20	18	35	41.9	.015	2796	15	45.20	12	6	26.75
31	8	40	20.29	18	21	8.9	.015	1570	15	45.32	12	6	23.97
AGO. 1	8	44	13.76	+18	6	17.8	1.015	0294	15	45.44	12	6	20.57
2	8	48	6.60	17	51	9.1	.014	8971	15	45.56	12	6	16.55
3	8	51	58.82	17	35	43.0	.014	7604	15	45.69	12	6	11.90
4	8	55	50.42	17	19	59.9	.014	6197	15	45.82	12	6	6.62
5	8	59	41.40	17	3	60.0	.014	4751	15	45.95	12	6	0.73
6	9	3	31.77	+16	47	43.6	1.014	3270	15	46.09	12	5	54.23
7	9	7	21.52	16	31	11.1	.014	1758	15	46.23	12	5	47.12
8	9	11	10.68	16	14	22.7	.014	0217	15	46.38	12	5	39.41
9	9	14	59.23	15	57	18.8	.013	8650	15	46.52	12	5	31.11
10	9	18	47.20	15	39	59.6	.013	7059	15	46.67	12	5	22.23
11	9	22	34.59	+15	22	25.4	1.013	5443	15	46.82	12	5	12.79
12	9	26	21.42	15	4	36.4	.013	3804	15	46.98	12	5	2.79
13	9	30	7.69	14	46	33.0	.013	2138	15	47.13	12	4	52.24
14	9	33	53.43	14	28	15.3	.013	0444	15	47.29	12	4	41.17
15	9	37	38.65	14	9	43.6	.012	8719	15	47.45	12	4	29.57
16	9	41	23.36	+13	50	58.4	1.012	6959	15	47.62	12	4	17.47
17	9	45	7.56	13	31	59.8	.012	5163	15	47.78	12	4	4.86
18	9	48	51.26	13	12	48.2	.012	3328	15	47.96	12	3	51.76
19	9	52	34.48	12	53	24.0	.012	1451	15	48.13	12	3	38.18
20	9	56	17.22	12	33	47.4	.011	9530	15	48.31	12	3	24.13
21	9	59	59.49	+12	13	58.8	1.011	7565	15	48.49	12	3	9.61
22	10	3	41.30	11	53	58.5	.011	5555	15	48.68	12	2	54.63
23	10	7	22.65	11	33	47.0	.011	3498	15	48.88	12	2	39.21
24	10	11	3.56	11	13	24.4	.011	1396	15	49.07	12	2	23.35
25	10	14	44.03	10	52	51.2	.010	9249	15	49.28	12	2	7.07
26	10	18	24.09	+10	32	7.6	1.010	7058	15	49.48	12	1	50.37
27	10	22	3.74	10	11	14.1	.010	4823	15	49.69	12	1	33.28
28	10	25	43.00	9	50	10.9	.010	2548	15	49.90	12	1	15.80
29	10	29	21.87	9	28	58.4	.010	0234	15	50.12	12	0	57.94
30	10	33	0.38	9	7	36.9	.009	7883	15	50.34	12	0	39.73
31	10	36	38.55	+ 8	46	6.8	1.009	5498	15	50.57	12	0	21.17
SET. 1	10	40	16.37	+ 8	24	28.4	1.009	3082	15	50.80	12	0	2.28

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			DISTÂNCIA À TERRA	SEMI- DIÂMETRO		PASS.MERID. GREENWICH					
	H	M	S	G	'	"		'	"	H	M	S			
SET.	1	10	40	16.37	+	8	24	28.4	1.009	3082	15	50.80	12	0	2.28
	2	10	43	53.88		8	2	42.0	.009	0639	15	51.03	11	59	43.08
	3	10	47	31.09		7	40	48.0	.008	8172	15	51.26	11	59	23.59
	4	10	51	8.01		7	18	46.7	.008	5684	15	51.49	11	59	3.82
	5	10	54	44.67		6	56	38.4	.008	3179	15	51.73	11	58	43.79
	6	10	58	21.07	+	6	34	23.4	1.008	0662	15	51.97	11	58	23.52
	7	11	1	57.24		6	12	2.1	.007	8135	15	52.21	11	58	3.05
	8	11	5	33.21		5	49	34.7	.007	5601	15	52.45	11	57	42.38
	9	11	9	9.00		5	27	1.5	.007	3059	15	52.69	11	57	21.54
	10	11	12	44.63		5	4	22.7	.007	0512	15	52.93	11	57	0.57
	11	11	16	20.14	+	4	41	38.7	1.006	7957	15	53.17	11	56	39.47
	12	11	19	55.54		4	18	49.7	.006	5392	15	53.41	11	56	18.27
	13	11	23	30.85		3	55	56.1	.006	2815	15	53.66	11	55	57.00
	14	11	27	6.11		3	32	58.1	.006	0223	15	53.90	11	55	35.67
	15	11	30	41.31		3	9	56.1	.005	7615	15	54.15	11	55	14.31
16	11	34	16.49	+	2	46	50.4	1.005	4987	15	54.40	11	54	52.92	
17	11	37	51.65		2	23	41.5	.005	2338	15	54.65	11	54	31.54	
18	11	41	26.82		2	0	29.5	.004	9666	15	54.90	11	54	10.17	
19	11	45	2.02		1	37	15.0	.004	6971	15	55.16	11	53	48.84	
20	11	48	37.26		1	13	58.2	.004	4251	15	55.42	11	53	27.56	
21	11	52	12.56	+	0	50	39.5	1.004	1507	15	55.68	11	53	6.35	
22	11	55	47.93		0	27	19.3	.003	8737	15	55.94	11	52	45.23	
23	11	59	23.41	+	0	3	57.8	.003	5944	15	56.21	11	52	24.22	
24	12	2	59.00	-	0	19	24.4	.003	3126	15	56.48	11	52	3.33	
25	12	6	34.72		0	42	47.1	.003	0287	15	56.75	11	51	42.58	
26	12	10	10.60	-	1	6	10.0	1.002	7426	15	57.02	11	51	21.99	
27	12	13	46.65		1	29	32.6	.002	4547	15	57.30	11	51	1.59	
28	12	17	22.89		1	52	54.5	.002	1651	15	57.57	11	50	41.37	
29	12	20	59.34		2	16	15.5	.001	8742	15	57.85	11	50	21.38	
30	12	24	36.01		2	39	35.1	.001	5822	15	58.13	11	50	1.61	
OUT.	1	12	28	12.93	-	3	2	53.0	1.001	2896	15	58.41	11	49	42.10
	2	12	31	50.11		3	26	8.9	.000	9966	15	58.69	11	49	22.86
	3	12	35	27.57		3	49	22.3	.000	7037	15	58.97	11	49	3.92
	4	12	39	5.33		4	12	32.9	.000	4113	15	59.25	11	48	45.29
	5	12	42	43.42		4	35	40.3	1.000	1199	15	59.53	11	48	27.00
	6	12	46	21.85	-	4	58	44.4	0.999	8297	15	59.81	11	48	9.07
	7	12	50	0.66		5	21	44.6	.999	5410	16	0.09	11	47	51.53
	8	12	53	39.87		5	44	40.9	.999	2540	16	0.36	11	47	34.40
	9	12	57	19.51		6	7	32.7	.998	9687	16	0.64	11	47	17.70
	10	13	0	59.60		6	30	19.8	.998	6850	16	0.91	11	47	1.47
	11	13	4	40.16	-	6	53	1.9	0.998	4028	16	1.18	11	46	45.72
	12	13	8	21.22	-	7	15	38.6	0.998	1219	16	1.45	11	46	30.47

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			DISTÂNCIA À TERRA	SEMI- DIÂMETRO		PASS.MERID. GREENWICH			
	H	M	S	G	'	"		'	"	H	M	S	
OUT. 12	13	8	21.22	-	7	15 38.6	0.998	1219	16	1.45	11	46	30.47
13	13	12	2.80		7	38 9.5	.997	8420	16	1.72	11	46	15.75
14	13	15	44.90		8	0 34.2	.997	5629	16	1.99	11	46	1.56
15	13	19	27.56		8	22 52.4	.997	2845	16	2.26	11	45	47.94
16	13	23	10.78		8	45 3.6	.997	0066	16	2.53	11	45	34.89
17	13	26	54.58	-	9	7 7.5	0.996	7289	16	2.80	11	45	22.43
18	13	30	38.98		9	29 3.6	.996	4515	16	3.06	11	45	10.58
19	13	34	23.99		9	50 51.6	.996	1741	16	3.33	11	44	59.35
20	13	38	9.64		10	12 31.0	.995	8969	16	3.60	11	44	48.77
21	13	41	55.93		10	34 1.5	.995	6196	16	3.87	11	44	38.83
22	13	45	42.88	-	10	55 22.6	0.995	3424	16	4.14	11	44	29.56
23	13	49	30.50		11	16 33.9	.995	0653	16	4.41	11	44	20.96
24	13	53	18.81		11	37 35.1	.994	7884	16	4.67	11	44	13.06
25	13	57	7.81		11	58 25.6	.994	5117	16	4.94	11	44	5.85
26	14	0	57.52		12	19 5.1	.994	2355	16	5.21	11	43	59.35
27	14	4	47.95	-	12	39 33.2	0.993	9599	16	5.48	11	43	53.57
28	14	8	39.11		12	59 49.5	.993	6854	16	5.74	11	43	48.53
29	14	12	31.00		13	19 53.4	.993	4121	16	6.01	11	43	44.22
30	14	16	23.63		13	39 44.7	.993	1404	16	6.27	11	43	40.66
31	14	20	17.02		13	59 22.9	.992	8707	16	6.54	11	43	37.86
NOV. 1	14	24	11.16	-	14	18 47.6	0.992	6035	16	6.80	11	43	35.83
2	14	28	6.08		14	37 58.4	.992	3391	16	7.05	11	43	34.58
3	14	32	1.78		14	56 54.9	.992	0779	16	7.31	11	43	34.12
4	14	35	58.29		15	15 36.7	.991	8204	16	7.56	11	43	34.47
5	14	39	55.61		15	34 3.6	.991	5668	16	7.81	11	43	35.64
6	14	43	53.76	-	15	52 15.1	0.991	3171	16	8.05	11	43	37.64
7	14	47	52.74		16	10 10.8	.991	0716	16	8.29	11	43	40.47
8	14	51	52.57		16	27 50.5	.990	8302	16	8.53	11	43	44.16
9	14	55	53.26		16	45 13.7	.990	5926	16	8.76	11	43	48.70
10	14	59	54.80		17	2 19.9	.990	3588	16	8.99	11	43	54.10
11	15	3	57.21	-	17	19 8.9	0.990	1286	16	9.21	11	44	0.37
12	15	8	0.47		17	35 40.2	.989	9017	16	9.44	11	44	7.50
13	15	12	4.61		17	51 53.3	.989	6780	16	9.65	11	44	15.50
14	15	16	9.60		18	7 47.9	.989	4573	16	9.87	11	44	24.37
15	15	20	15.46		18	23 23.5	.989	2395	16	10.08	11	44	34.11
16	15	24	22.19	-	18	38 39.8	0.989	0243	16	10.30	11	44	44.70
17	15	28	29.77		18	53 36.4	.988	8117	16	10.50	11	44	56.15
18	15	32	38.20		19	8 12.8	.988	6015	16	10.71	11	45	8.44
19	15	36	47.47		19	22 28.7	.988	3938	16	10.91	11	45	21.58
20	15	40	57.59		19	36 23.7	.988	1883	16	11.12	11	45	35.54
21	15	45	8.52	-	19	49 57.3	0.987	9851	16	11.32	11	45	50.32
22	15	49	20.27		20	3 9.3	0.987	7842	16	11.51	11	46	5.90

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			DISTÂNCIA À TERRA	SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"		'	"	H	M	S
NOV. 22	15	49	20.27	-20	3	9.3	0.987 7842	16	11.51	11	46	5.90
23	15	53	32.82	20	15	59.3	.987 5857	16	11.71	11	46	22.27
24	15	57	46.14	20	28	26.8	.987 3898	16	11.90	11	46	39.41
25	16	2	0.23	20	40	31.6	.987 1965	16	12.09	11	46	57.30
26	16	6	15.06	20	52	13.3	.987 0061	16	12.28	11	47	15.93
27	16	10	30.61	-21	3	31.4	0.986 8190	16	12.46	11	47	35.28
28	16	14	46.86	21	14	25.8	.986 6354	16	12.64	11	47	55.32
29	16	19	3.81	21	24	56.1	.986 4558	16	12.82	11	48	16.05
30	16	23	21.42	21	35	2.0	.986 2805	16	13.00	11	48	37.44
DEZ. 1	16	27	39.69	21	44	43.2	.986 1099	16	13.16	11	48	59.48
2	16	31	58.59	-21	53	59.4	0.985 9445	16	13.33	11	49	22.14
3	16	36	18.12	22	2	50.4	.985 7844	16	13.48	11	49	45.41
4	16	40	38.25	22	11	15.9	.985 6300	16	13.64	11	50	9.28
5	16	44	58.96	22	19	15.8	.985 4815	16	13.78	11	50	33.72
6	16	49	20.24	22	26	49.8	.985 3388	16	13.92	11	50	58.71
7	16	53	42.06	-22	33	57.6	0.985 2020	16	14.06	11	51	24.23
8	16	58	4.40	22	40	39.1	.985 0709	16	14.19	11	51	50.26
9	17	2	27.23	22	46	53.9	.984 9454	16	14.31	11	52	16.77
10	17	6	50.53	22	52	42.0	.984 8254	16	14.43	11	52	43.74
11	17	11	14.27	22	58	3.0	.984 7106	16	14.55	11	53	11.14
12	17	15	38.42	-23	2	56.8	0.984 6008	16	14.65	11	53	38.94
13	17	20	2.95	23	7	23.2	.984 4959	16	14.76	11	54	7.11
14	17	24	27.84	23	11	22.1	.984 3956	16	14.86	11	54	35.62
15	17	28	53.05	23	14	53.3	.984 2997	16	14.95	11	55	4.43
16	17	33	18.56	23	17	56.6	.984 2081	16	15.04	11	55	33.52
17	17	37	44.32	-23	20	32.0	0.984 1205	16	15.13	11	56	2.85
18	17	42	10.30	23	22	39.3	.984 0369	16	15.21	11	56	32.38
19	17	46	36.47	23	24	18.6	.983 9570	16	15.29	11	57	2.08
20	17	51	2.79	23	25	29.6	.983 8808	16	15.37	11	57	31.90
21	17	55	29.22	23	26	12.5	.983 8081	16	15.44	11	58	1.81
22	17	59	55.71	-23	26	27.0	0.983 7391	16	15.51	11	58	31.77
23	18	4	22.23	23	26	13.3	.983 6736	16	15.57	11	59	1.74
24	18	8	48.74	23	25	31.3	.983 6120	16	15.63	11	59	31.67
25	18	13	15.20	23	24	21.0	.983 5542	16	15.69	12	0	1.54
26	18	17	41.56	23	22	42.5	.983 5007	16	15.75	12	0	31.31
27	18	22	7.80	-23	20	35.7	0.983 4516	16	15.79	12	1	0.93
28	18	26	33.88	23	18	0.8	.983 4074	16	15.84	12	1	30.37
29	18	30	59.77	23	14	57.9	.983 3685	16	15.88	12	1	59.61
30	18	35	25.44	23	11	27.0	.983 3351	16	15.91	12	2	28.61
31	18	39	50.86	23	7	28.4	.983 3075	16	15.94	12	2	57.34
32	18	44	16.01	-23	3	2.0	0.983 2861	16	15.96	12	3	25.78

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH				
	H	M	S	G	'	"			'	"	H	M	S		
JAN. 0.0	18	34	14.127	-28	12	48.69	60	6.5583	16	22.72	--	--	----	-	
0.5	19	7	24.18	27	32	29.5	60	20.010	16	26.38	12	28	35.1	S	
1.0	19	40	13.54	26	22	32.0	60	29.645	16	29.01	1	0	46.8	I	
1.5	20	12	23.33	24	44	40.8	60	35.283	16	30.54	13	32	11.9	S	
2.0	20	43	39.59	22	41	34.6	60	36.890	16	30.98	2	2	34.9	I	
2.5	21	13	54.05	-20	16	30.4	60	34.572	16	30.35	14	31	47.1	S	
3.0	21	43	3.92	17	33	6.3	60	28.567	16	28.71	2	59	46.8	I	
3.5	22	11	10.98	14	35	6.1	60	19.217	16	26.16	15	26	37.4	S	
4.0	22	38	20.51	11	26	8.5	60	6.948	16	22.82	3	52	26.2	I	
4.5	23	4	40.16	8	9	39.8	59	52.236	16	18.81	16	17	22.8	S	
5.0	23	30	19.00	-	4	48	50.4	59	35.576	16	14.27	4	41	38.0	I
5.5	23	55	26.86	-	1	26	33.5	59	17.457	16	9.34	17	5	23.4	S
6.0	0	20	13.74	+	1	54	33.3	58	58.344	16	4.13	5	28	50.3	I
6.5	0	44	49.54	5	12	6.5	58	38.652	15	58.77	17	52	9.9	S	
7.0	1	9	23.69	8	23	53.2	58	18.747	15	53.34	6	15	32.4	I	
7.5	1	34	4.97	+11	27	49.4	57	58.931	15	47.94	18	39	7.5	S	
8.0	1	59	1.27	14	21	56.6	57	39.448	15	42.63	7	3	3.4	I	
8.5	2	24	19.30	17	4	20.8	57	20.483	15	37.47	19	27	26.9	S	
9.0	2	50	4.32	19	33	11.5	57	2.169	15	32.48	7	52	22.9	I	
9.5	3	16	19.72	21	46	41.8	56	44.596	15	27.69	20	17	53.7	S	
10.0	3	43	6.72	+23	43	10.3	56	27.815	15	23.12	8	43	58.9	I	
10.5	4	10	24.06	25	21	3.7	56	11.851	15	18.77	21	10	35.1	S	
11.0	4	38	7.83	26	39	1.4	55	56.708	15	14.64	9	37	35.4	I	
11.5	5	6	11.52	27	35	59.3	55	42.382	15	10.74	22	4	50.3	S	
12.0	5	34	26.41	28	11	15.0	55	28.863	15	7.06	10	32	8.2	I	
12.5	6	2	42.19	+28	24	31.1	55	16.147	15	3.59	22	59	16.2	S	
13.0	6	30	47.88	28	15	57.1	55	4.236	15	0.35	11	26	2.0	I	
13.5	6	58	32.80	27	46	9.0	54	53.147	14	57.32	23	52	14.6	S	
14.0	7	25	47.482	26	56	7.29	54	42.9132	14	54.54	--	--	----	-	
14.5	7	52	24.41	25	47	11.9	54	33.586	14	51.99	12	17	45.4	I	
15.0	8	18	18.42	+24	20	57.3	54	25.235	14	49.72	0	42	28.4	S	
15.5	8	43	26.79	22	39	6.8	54	17.948	14	47.73	13	6	21.0	I	
16.0	9	7	49.13	20	43	27.2	54	11.829	14	46.07	1	29	23.0	S	
16.5	9	31	27.09	18	35	44.7	54	6.997	14	44.75	13	51	36.7	I	
17.0	9	54	23.98	16	17	41.9	54	3.583	14	43.82	2	13	6.1	S	
17.5	10	16	44.42	+13	50	55.7	54	1.724	14	43.31	14	33	56.9	I	
18.0	10	38	34.01	11	16	56.7	54	1.561	14	43.27	2	54	15.5	S	
18.5	10	59	59.09	8	37	8.8	54	3.237	14	43.73	15	14	9.2	I	
19.0	11	21	6.52	5	52	50.4	54	6.887	14	44.72	3	33	45.9	S	
19.5	11	42	3.59	3	5	14.9	54	12.638	14	46.29	15	53	13.8	I	
20.0	12	2	57.92	+	0	15	33.1	54	20.602	14	48.46	4	12	41.4	S
20.5	12	23	57.48	-	2	35	5.5	54	30.870	14	51.25	16	32	17.9	I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO		PASS.MERID. GREENWICH					
	H	M	S	G	'	"		'	"	H	M	S			
JAN. 20.5	12	23	57.48	-	2	35	5.5	54	30.870	14	51.25	16	32	17.9	I
21.0	12	45	10.50		5	25	29.7	54	43.508	14	54.70	4	52	12.3	S
21.5	13	6	45.50		8	14	24.8	54	58.548	14	58.80	17	12	34.5	I
22.0	13	28	51.26		11	0	29.1	55	15.985	15	3.55	5	33	34.5	S
22.5	13	51	36.70		13	42	11.3	55	35.764	15	8.94	17	55	22.2	I
23.0	14	15	10.75	-	16	17	47.5	55	57.779	15	14.93	6	18	8.0	S
23.5	14	39	42.01		18	45	18.4	56	21.857	15	21.49	18	42	1.3	I
24.0	15	5	18.31		21	2	27.1	56	47.757	15	28.55	7	7	10.8	S
24.5	15	32	6.03		23	6	38.7	57	15.160	15	36.02	19	33	42.7	I
25.0	16	0	9.17		24	55	1.5	57	43.664	15	43.78	8	1	39.8	S
25.5	16	29	28.39	-	26	24	31.7	58	12.784	15	51.72	20	31	0.2	I
26.0	16	59	59.92		27	32	1.9	58	41.952	15	59.66	9	1	35.8	S
26.5	17	31	34.88		28	14	34.2	59	10.530	16	7.45	21	33	11.8	I
27.0	18	3	59.17		28	29	36.2	59	37.822	16	14.89	10	5	27.5	S
27.5	18	36	54.31		28	15	18.1	60	3.103	16	21.77	22	37	58.3	I
28.0	19	9	59.22	-	27	30	47.9	60	25.648	16	27.92	11	10	18.6	S
28.5	19	42	52.64		26	16	19.7	60	44.771	16	33.13	23	42	5.7	I
29.0	20	15	15.610		24	33	15.33	60	59.8689	16	37.24	--	--	----	-
29.5	20	46	53.42		22	23	56.5	61	10.460	16	40.13	12	13	1.8	S
30.0	21	17	36.58		19	51	32.4	61	16.218	16	41.69	0	42	56.0	I
30.5	21	47	20.94	-	16	59	43.6	61	17.000	16	41.91	13	11	43.8	S
31.0	22	16	7.00		13	52	27.0	61	12.851	16	40.78	1	39	26.5	I
31.5	22	43	58.92		10	33	42.6	61	4.001	16	38.37	14	6	9.6	S
FEV. 1.0	23	11	3.45		7	7	23.5	60	50.845	16	34.78	2	32	1.5	I
1.5	23	37	29.00		3	37	9.5	60	33.906	16	30.17	14	57	12.2	S
2.0	0	3	24.82	-	0	6	23.5	60	13.801	16	24.69	3	21	52.6	I
2.5	0	29	0.48	+	3	21	49.8	59	51.197	16	18.53	15	46	13.6	S
3.0	0	54	25.36		6	44	43.6	59	26.770	16	11.88	4	10	25.9	I
3.5	1	19	48.37		9	59	47.1	59	1.175	16	4.90	16	34	39.4	S
4.0	1	45	17.65		13	4	44.1	58	35.016	15	57.77	4	59	2.9	I
4.5	2	11	0.26	+	15	57	30.3	58	8.833	15	50.64	17	23	44.0	S
5.0	2	37	1.93		18	36	12.0	57	43.085	15	43.63	5	48	48.4	I
5.5	3	3	26.72		20	59	5.0	57	18.152	15	36.83	18	14	19.9	S
6.0	3	30	16.71		23	4	34.4	56	54.335	15	30.34	6	40	19.6	I
6.5	3	57	31.77		24	51	16.0	56	31.859	15	24.22	19	6	45.9	S
7.0	4	25	9.36	+	26	17	58.1	56	10.881	15	18.50	7	33	34.5	I
7.5	4	53	4.58		27	23	44.3	55	51.500	15	13.22	20	0	38.0	S
8.0	5	21	10.37		28	7	56.5	55	33.768	15	8.39	8	27	47.0	I
8.5	5	49	18.08		28	30	17.9	55	17.693	15	4.01	20	54	50.6	S
9.0	6	17	18.13		28	30	54.0	55	3.256	15	0.08	9	21	37.6	I
9.5	6	45	0.86	+	28	10	13.5	54	50.415	14	56.58	21	47	57.5	S
10.0	7	12	17.38	+	27	29	6.6	54	39.114	14	53.50	10	13	41.4	I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
FEV. 10.0	7	12	17.38	+27	29	6.6	54	39.114	14	53.50	10	13	41.4 I
10.5	7	39	0.26	26	28	41.8	54	29.289	14	50.82	22	38	42.6 S
11.0	8	5	3.98	25	10	22.4	54	20.876	14	48.53	11	2	57.0 I
11.5	8	30	25.19	23	35	41.7	54	13.818	14	46.61	23	26	23.3 S
12.0	8	55	2.62	21	46	19.2	54	8.065	14	45.04	11	49	2.1 I
12.5	9	18	56.969	+19	43	56.39	54	3.5803	14	43.82	--	--	---- -
13.0	9	42	10.56	17	30	14.2	54	0.345	14	42.94	0	10	56.2 S
13.5	10	4	47.08	15	6	50.7	53	58.355	14	42.40	12	32	9.9 I
14.0	10	26	51.20	12	35	20.3	53	57.628	14	42.20	0	52	48.6 S
14.5	10	48	28.41	9	57	12.5	53	58.198	14	42.35	13	12	58.4 I
15.0	11	9	44.77	+ 7	13	52.6	54	0.116	14	42.88	1	32	46.3 S
15.5	11	30	46.76	4	26	42.1	54	3.448	14	43.78	13	52	19.5 I
16.0	11	51	41.21	+ 1	36	59.2	54	8.274	14	45.10	2	11	45.8 S
16.5	12	12	35.21	- 1	13	59.4	54	14.681	14	46.84	14	31	13.0 I
17.0	12	33	36.14	4	4	57.7	54	22.760	14	49.04	2	50	49.5 S
17.5	12	54	51.57	- 6	54	38.1	54	32.604	14	51.73	15	10	43.6 I
18.0	13	16	29.28	9	41	39.8	54	44.298	14	54.91	3	31	4.2 S
18.5	13	38	37.20	12	24	36.8	54	57.912	14	58.62	15	52	0.3 I
19.0	14	1	23.31	15	1	55.3	55	13.501	15	2.87	4	13	40.8 S
19.5	14	24	55.44	17	31	52.1	55	31.089	15	7.66	16	36	14.7 I
20.0	14	49	20.97	-19	52	32.3	55	50.666	15	13.00	4	59	50.1 S
20.5	15	14	46.44	22	1	48.3	56	12.174	15	18.86	17	24	34.3 I
21.0	15	41	16.95	23	57	19.4	56	35.505	15	25.21	5	50	32.4 S
21.5	16	8	55.39	25	36	33.6	57	0.486	15	32.02	18	17	46.7 I
22.0	16	37	41.71	26	56	51.2	57	26.870	15	39.21	6	46	15.3 S
22.5	17	7	32.10	-27	55	32.3	57	54.332	15	46.69	19	15	51.6 I
23.0	17	38	18.59	28	30	5.7	58	22.462	15	54.35	7	46	23.5 S
23.5	18	9	49.07	28	38	22.2	58	50.763	16	2.06	20	17	34.2 I
24.0	18	41	48.00	28	18	46.4	59	18.655	16	9.66	8	49	3.6 S
24.5	19	13	57.85	27	30	28.8	59	45.487	16	16.97	21	20	30.5 I
25.0	19	46	0.98	-26	13	33.1	60	10.555	16	23.80	9	51	35.6 S
25.5	20	17	41.55	24	28	58.5	60	33.132	16	29.96	22	22	3.2 I
26.0	20	48	47.07	22	18	36.5	60	52.500	16	35.23	10	51	42.8 S
26.5	21	19	9.27	19	45	3.5	61	7.993	16	39.45	23	20	29.4 I
27.0	21	48	44.26	16	51	30.4	61	19.043	16	42.46	11	48	23.1 S
27.5	22	17	32.167	-13	41	32.18	61	25.2234	16	44.15	--	--	---- -
28.0	22	45	36.38	10	18	57.1	61	26.277	16	44.44	0	15	27.8 I
28.5	23	13	2.72	6	47	38.1	61	22.144	16	43.31	12	41	50.5 S
MAR. 1.0	23	39	58.61	- 3	11	25.9	61	12.965	16	40.81	1	7	39.8 I
1.5	0	6	32.39	+ 0	25	57.1	60	59.069	16	37.02	13	33	5.4 S
2.0	0	32	52.75	+ 4	1	0.0	60	40.949	16	32.09	1	58	17.4 I
2.5	0	59	8.23	+ 7	30	26.4	60	19.223	16	26.17	14	23	25.5 S

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO	PASS.MERID. GREENWICH			
	H	M	S	G	'	"		'	"	H	M	S
MAR. 1.0	23	39	58.61	-	3	11 25.9	61 12.965	16	40.81	1	7	39.8 I
1.5	0	6	32.39	+	0	25 57.1	60 59.069	16	37.02	13	33	5.4 S
2.0	0	32	52.75		4	1 0.0	60 40.949	16	32.09	1	58	17.4 I
2.5	0	59	8.23		7	30 26.4	60 19.223	16	26.17	14	23	25.5 S
3.0	1	25	26.83		10	51 15.4	59 54.591	16	19.46	2	48	38.7 I
3.5	1	51	55.65	+	14	0 42.4	59 27.793	16	12.15	15	14	4.9 S
4.0	2	18	40.51		16	56 18.9	58 59.565	16	4.46	3	39	50.4 I
4.5	2	45	45.62		19	35 53.0	58 30.607	15	56.57	16	5	59.3 S
5.0	3	13	13.24		21	57 29.2	58 1.561	15	48.66	4	32	33.7 I
5.5	3	41	3.37		23	59 29.3	57 32.991	15	40.88	16	59	32.4 S
6.0	4	9	13.63	+	25	40 33.9	57 5.376	15	33.35	5	26	51.7 I
6.5	4	37	39.22		26	59 43.9	56 39.108	15	26.19	17	54	24.8 S
7.0	5	6	13.26		27	56 22.5	56 14.495	15	19.49	6	22	3.0 I
7.5	5	34	47.20		28	30 16.2	55 51.767	15	13.30	18	49	35.4 S
8.0	6	3	11.61		28	41 35.6	55 31.082	15	7.66	7	16	51.1 I
8.5	6	31	17.01	+	28	30 54.1	55 12.537	15	2.61	19	43	39.6 S
9.0	6	58	54.67		27	59 5.8	54 56.177	14	58.15	8	9	51.6 I
9.5	7	25	57.31		27	7 21.9	54 42.000	14	54.29	20	35	20.5 S
10.0	7	52	19.57		25	57 6.4	54 29.973	14	51.01	9	0	1.8 I
10.5	8	17	58.20		24	29 51.9	54 20.031	14	48.30	21	23	53.8 S
11.0	8	42	52.04	+	22	47 15.7	54 12.090	14	46.14	9	46	56.9 I
11.5	9	7	1.82		20	50 56.2	54 6.053	14	44.49	22	9	13.6 S
12.0	9	30	29.88		18	42 31.0	54 1.813	14	43.34	10	30	48.0 I
12.5	9	53	19.83		16	23 34.7	53 59.261	14	42.64	22	51	45.2 S
13.0	10	15	36.31		13	55 38.9	53 58.288	14	42.38	11	12	11.2 I
13.5	10	37	24.65	+	11	20 11.5	53 58.795	14	42.52	23	32	12.5 S
14.0	10	58	50.72		8	38 37.2	54 0.689	14	43.03	11	51	56.2 I
14.5	11	20	0.781		5	52 18.24	54 3.8926	14	43.90	--	--	----
15.0	11	41	1.35		3	2 35.2	54 8.343	14	45.12	0	11	29.5 S
15.5	12	1	59.17	+	0	10 48.2	54 13.993	14	46.66	12	30	60.0 I
16.0	12	23	1.15	-	2	41 42.3	54 20.817	14	48.52	0	50	35.3 S
16.5	12	44	14.34		5	33 33.7	54 28.802	14	50.69	13	10	23.3 I
17.0	13	5	45.89		8	23 20.5	54 37.956	14	53.19	1	30	32.0 S
17.5	13	27	43.01		11	9 32.4	54 48.296	14	56.00	13	51	9.4 I
18.0	13	50	12.87		13	50 33.4	54 59.855	14	59.15	2	12	23.8 S
18.5	14	13	22.45	-	16	24 40.3	55 12.667	15	2.64	14	34	22.9 I
19.0	14	37	18.27		18	50 1.6	55 26.771	15	6.49	2	57	14.2 S
19.5	15	2	6.12		21	4 37.1	55 42.199	15	10.69	15	21	4.0 I
20.0	15	27	50.56		23	6 18.1	55 58.969	15	15.26	3	45	57.5 S
20.5	15	54	34.38		24	52 48.5	56 17.081	15	20.19	16	11	57.4 I
21.0	16	22	18.02	-	26	21 48.1	56 36.503	15	25.48	4	39	3.3 S
21.5	16	50	58.99	-	27	30 57.5	56 57.166	15	31.11	17	7	11.3 I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
MAR. 21.5	16	50	58.99	-27	30	57.5	56	57.166	15	31.11	17	7	11.3 I
22.0	17	20	31.49	28	18	4.5	57	18.953	15	37.05	5	36	13.3 S
22.5	17	50	46.33	28	41	12.5	57	41.692	15	43.25	18	5	56.9 I
23.0	18	21	31.45	28	38	49.7	58	5.147	15	49.64	6	36	6.9 S
23.5	18	52	32.76	28	9	57.0	58	29.011	15	56.14	19	6	26.0 I
24.0	19	23	35.56	-27	14	14.5	58	52.905	16	2.65	7	36	37.3 S
24.5	19	54	25.96	25	52	4.2	59	16.381	16	9.04	20	6	25.9 I
25.0	20	24	52.32	24	4	29.4	59	38.923	16	15.19	8	35	40.4 S
25.5	20	54	46.11	21	53	11.2	59	59.965	16	20.92	21	4	14.0 I
26.0	21	24	2.37	19	20	23.1	60	18.908	16	26.08	9	32	3.9 S
26.5	21	52	39.69	-16	28	44.7	60	35.148	16	30.50	21	59	11.5 I
27.0	22	20	39.77	13	21	15.3	60	48.107	16	34.04	10	25	41.3 S
27.5	22	48	6.86	10	1	8.5	60	57.271	16	36.53	22	51	40.3 I
28.0	23	15	7.09	6	31	47.7	61	2.227	16	37.88	11	17	16.8 S
28.5	23	41	47.89	-	2	56	61	2.691	16	38.01	23	42	40.2 I
29.0	0	8	17.361	+	0	40	60	58.5392	16	36.88	--	--	----
29.5	0	34	43.88	4	16	41.0	60	49.815	16	34.50	12	8	0.2 S
30.0	1	1	15.58	7	48	2.7	60	36.732	16	30.94	0	33	25.9 I
30.5	1	27	59.98	11	11	24.0	60	19.660	16	26.29	12	59	6.1 S
31.0	1	55	3.52	14	23	36.2	59	59.099	16	20.68	1	25	8.2 I
31.5	2	22	31.15	+17	21	43.8	59	35.646	16	14.29	13	51	37.5 S
ABR. 1.0	2	50	25.84	20	3	7.0	59	9.960	16	7.30	2	18	37.3 I
1.5	3	18	48.17	22	25	25.4	58	42.723	15	59.87	14	46	7.7 S
2.0	3	47	36.05	24	26	41.2	58	14.610	15	52.21	3	14	5.8 I
2.5	4	16	44.59	26	5	22.6	57	46.259	15	44.49	15	42	25.0 S
3.0	4	46	6.28	+27	20	27.1	57	18.252	15	36.86	4	10	55.8 I
3.5	5	15	31.48	28	11	23.3	56	51.106	15	29.46	16	39	26.5 S
4.0	5	44	49.31	28	38	11.5	56	25.258	15	22.42	5	7	43.9 I
4.5	6	13	48.55	28	41	22.3	56	1.073	15	15.83	17	35	35.4 S
5.0	6	42	18.78	28	21	52.8	55	38.836	15	9.77	6	2	49.5 I
5.5	7	10	11.22	+27	41	1.5	55	18.766	15	4.30	18	29	17.4 S
6.0	7	37	19.33	26	40	22.4	55	1.014	14	59.47	6	54	53.3 I
6.5	8	3	39.06	25	21	38.6	54	45.676	14	55.29	19	19	34.3 S
7.0	8	29	8.87	23	46	37.2	54	32.796	14	51.78	7	43	20.3 I
7.5	8	53	49.45	21	57	4.4	54	22.374	14	48.94	20	6	13.7 S
8.0	9	17	43.32	+19	54	43.1	54	14.375	14	46.76	8	28	18.8 I
8.5	9	40	54.48	17	41	11.0	54	8.728	14	45.22	20	49	40.9 S
9.0	10	3	28.00	15	18	0.1	54	5.340	14	44.30	9	10	26.7 I
9.5	10	25	29.70	12	46	36.6	54	4.094	14	43.96	21	30	43.0 S
10.0	10	47	5.91	10	8	22.5	54	4.857	14	44.17	9	50	37.4 I
10.5	11	8	23.32	+	7	24	54	7.486	14	44.88	22	10	17.5 S
11.0	11	29	28.82	+	4	36	54	11.827	14	46.07	10	29	51.2 I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"		'	"	H	M	S
ABR. 11.0	11	29	28.82	+	4	36 33.8	54 11.827	14	46.07	10	29	51.2 I
11.5	11	50	29.45	+	1	45 31.9	54 17.723	14	47.67	22	49	26.4 S
12.0	12	11	32.37	-	1	7 12.0	54 25.021	14	49.66	11	9	11.1 I
12.5	12	32	44.80		4	0 17.5	54 33.566	14	51.99	23	29	13.4 S
13.0	12	54	14.00		6	52 19.6	54 43.217	14	54.62	11	49	41.5 I
13.0	13	16	7.211	-	9	41 47.17	54 53.8414	14	57.51	--	--	----
14.0	13	38	31.59		12	27 2.0	55 5.320	15	0.64	0	10	43.5 S
14.5	14	1	34.03		15	6 17.4	55 17.552	15	3.97	12	32	27.1 I
15.0	14	25	20.95		17	37 37.9	55 30.452	15	7.49	0	54	59.7 S
15.5	14	49	57.93		19	58 58.9	55 43.953	15	11.17	13	18	27.8 I
16.0	15	15	29.35	-	22	8 7.7	55 58.004	15	15.00	1	42	56.3 S
16.5	15	41	57.80		24	2 45.6	56 12.568	15	18.96	14	8	28.2 I
17.0	16	9	23.56		25	40 31.3	56 27.617	15	23.06	2	35	3.5 S
17.5	16	37	44.04		26	59 6.1	56 43.128	15	27.29	15	2	38.9 I
18.0	17	6	53.46		27	56 20.8	56 59.079	15	31.64	3	31	6.9 S
18.5	17	36	42.84	-	28	30 23.6	57 15.438	15	36.09	16	0	16.3 I
19.0	18	7	0.40		28	39 48.2	57 32.157	15	40.65	4	29	52.4 S
19.5	18	37	32.49		28	23 40.6	57 49.163	15	45.28	16	59	38.9 I
20.0	19	8	4.84		27	41 43.6	58 6.355	15	49.97	5	29	19.2 S
20.5	19	38	24.04		26	34 18.4	58 23.589	15	54.66	17	58	38.5 I
21.0	20	8	18.72	-	25	2 22.3	58 40.680	15	59.32	6	27	25.0 S
21.5	20	37	40.55		23	7 24.3	58 57.394	16	3.87	18	55	31.2 I
22.0	21	6	24.59		20	51 19.4	59 13.449	16	8.25	7	22	53.7 S
22.5	21	34	29.32		18	16 21.9	59 28.519	16	12.35	19	49	33.0 I
23.0	22	1	56.29		15	25 0.5	59 42.238	16	16.09	8	15	32.9 S
23.5	22	28	49.55	-	12	19 54.1	59 54.218	16	19.35	20	40	59.7 I
24.0	22	55	15.09		9	3 48.9	60 4.058	16	22.03	9	6	1.6 S
24.5	23	21	20.29		5	39 37.1	60 11.372	16	24.03	21	30	47.9 I
25.0	23	47	13.40	-	2	10 15.8	60 15.806	16	25.24	9	55	28.4 S
25.5	0	13	3.11	+	1	21 13.8	60 17.067	16	25.58	22	20	13.1 I
26.0	0	38	58.20	+	4	51 46.3	60 14.944	16	25.00	10	45	11.9 S
26.5	1	5	7.11		8	18 13.9	60 9.326	16	23.47	23	10	33.8 I
27.0	1	31	37.58		11	37 27.5	60 0.216	16	20.99	11	36	26.5 S
27.5	1	58	36.183		14	46 19.53	59 47.7351	16	17.59	--	--	----
28.0	2	26	7.83		17	41 47.1	59 32.122	16	13.33	0	2	55.7 I
28.5	2	54	15.21	+	20	20 56.5	59 13.719	16	8.32	12	30	4.9 S
29.0	3	22	58.27		22	41 8.9	58 52.952	16	2.66	0	57	53.8 I
29.5	3	52	13.82		24	40 6.4	58 30.313	15	56.49	13	26	18.8 S
30.0	4	21	55.36		26	15 58.4	58 6.331	15	49.96	1	55	11.8 I
30.5	4	51	53.32		27	27 27.5	57 41.552	15	43.21	14	24	21.2 S
MAIO 1.0	5	21	55.76	+	28	13 54.0	57 16.513	15	36.39	2	53	32.8 I
1.5	5	51	49.38	+	28	35 16.8	56 51.725	15	29.63	15	22	30.8 S

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
MAIO 1.0	5	21	55.76	+28	13	54.0	57	16.513	15	36.39	2	53	32.8 I
1.5	5	51	49.38	28	35	16.8	56	51.725	15	29.63	15	22	30.8 S
2.0	6	21	20.89	28	32	12.6	56	27.660	15	23.08	3	50	59.9 I
2.5	6	50	18.24	28	5	50.3	56	4.741	15	16.83	16	18	46.9 S
3.0	7	18	31.67	27	17	44.0	55	43.336	15	11.00	4	45	41.7 I
3.5	7	45	54.33	+26	9	44.9	55	23.754	15	5.66	17	11	37.8 S
4.0	8	12	22.48	24	43	52.8	55	6.247	15	0.89	5	36	32.7 I
4.5	8	37	55.27	23	2	9.2	54	51.012	14	56.74	18	0	27.0 S
5.0	9	2	34.35	21	6	31.9	54	38.194	14	53.25	6	23	23.9 I
5.5	9	26	23.37	18	58	52.0	54	27.886	14	50.44	18	45	28.8 S
6.0	9	49	27.43	+16	40	51.9	54	20.138	14	48.33	7	6	48.1 I
6.5	10	11	52.67	14	14	5.1	54	14.960	14	46.92	19	27	29.5 S
7.0	10	33	45.89	11	39	57.0	54	12.321	14	46.20	7	47	40.9 I
7.5	10	55	14.34	8	59	46.3	54	12.157	14	46.16	20	7	30.7 S
8.0	11	16	25.50	6	14	47.0	54	14.373	14	46.76	8	27	7.3 I
8.5	11	37	27.02	+ 3	26	10.3	54	18.843	14	47.98	20	46	39.4 S
9.0	11	58	26.64	+ 0	35	7.0	54	25.417	14	49.77	9	6	15.6 I
9.5	12	19	32.17	- 2	17	10.5	54	33.919	14	52.09	21	26	4.6 S
10.0	12	40	51.44	5	9	25.2	54	44.154	14	54.87	9	46	15.3 I
10.5	13	2	32.33	8	0	14.5	54	55.910	14	58.08	22	6	56.4 S
11.0	13	24	42.62	-10	48	6.9	55	8.962	15	1.63	10	28	16.6 I
11.5	13	47	29.93	13	31	21.2	55	23.075	15	5.48	22	50	24.1 S
12.0	14	11	1.46	16	8	4.6	55	38.011	15	9.55	11	13	26.7 I
12.5	14	35	23.73	18	36	12.3	55	53.534	15	13.78	23	37	30.8 S
13.0	15	0	42.111	20	53	27.92	56	9.4155	15	18.10	--	--	----
13.5	15	27	0.25	-22	57	25.0	56	25.438	15	22.47	12	2	40.8 I
14.0	15	54	19.44	24	45	30.8	56	41.404	15	26.82	0	28	58.6 S
14.5	16	22	38.00	26	15	12.1	56	57.138	15	31.11	12	56	22.5 I
15.0	16	51	50.68	27	24	2.9	57	12.489	15	35.29	1	24	46.4 S
15.5	17	21	48.58	28	9	54.0	57	27.333	15	39.33	13	53	59.7 I
16.0	17	52	19.37	-28	31	2.9	57	41.576	15	43.21	2	23	47.6 S
16.5	18	23	8.23	28	26	23.1	57	55.144	15	46.91	14	53	52.4 I
17.0	18	53	59.19	27	55	29.7	58	7.988	15	50.41	3	23	55.1 S
17.5	19	24	36.84	26	58	41.7	58	20.072	15	53.70	15	53	38.3 I
18.0	19	54	47.81	25	36	59.6	58	31.371	15	56.78	4	22	47.3 S
18.5	20	24	21.92	-23	51	59.1	58	41.860	15	59.64	16	51	11.7 I
19.0	20	53	12.84	21	45	43.0	58	51.507	16	2.27	5	18	46.1 S
19.5	21	21	18.05	19	20	32.5	59	0.269	16	4.65	17	45	29.5 I
20.0	21	48	38.48	16	38	59.6	59	8.083	16	6.78	6	11	24.7 S
20.5	22	15	17.93	13	43	41.4	59	14.865	16	8.63	18	36	37.5 I
21.0	22	41	22.39	-10	37	16.1	59	20.504	16	10.17	7	1	16.0 S
21.5	23	6	59.38	- 7	22	21.7	59	24.870	16	11.36	19	25	29.6 I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO		PASS.MERID. GREENWICH			
	H	M	S	G	'	"		'	"	H	M	S	
MAIO 21.5	23	6	59.38	-	7	22	59	24.870	16	11.36	19	25	29.6 I
22.0	23	32	17.45		4	1	59	27.811	16	12.16	7	49	28.6 S
22.5	23	57	25.75	-	0	37	59	29.166	16	12.53	20	13	23.4 I
23.0	0	22	33.61	+	2	47	59	28.772	16	12.42	8	37	24.8 S
23.5	0	47	50.32		6	9	59	26.475	16	11.79	21	1	43.1 I
24.0	1	13	24.72	+	9	27	59	22.144	16	10.61	9	26	27.7 S
24.5	1	39	24.91		12	37	59	15.685	16	8.85	21	51	47.1 I
25.0	2	5	57.79		15	38	59	7.053	16	6.50	10	17	47.7 S
25.5	2	33	8.53		18	24	58	56.257	16	3.56	22	44	33.4 I
26.0	3	1	0.04		20	56	58	43.373	16	0.05	11	12	4.8 S
26.5	3	29	32.36	+	23	8	58	28.541	15	56.01	23	40	18.6 I
27.0	3	58	42.193		25	0	58	11.9664	15	51.49	--	--	----
27.5	4	28	22.68		26	29	57	53.912	15	46.58	12	9	7.1 S
28.0	4	58	23.62		27	34	57	34.689	15	41.34	0	38	18.4 I
28.5	5	28	32.14		28	14	57	14.646	15	35.88	13	7	37.4 S
29.0	5	58	33.83	+	28	29	56	54.158	15	30.29	1	36	47.1 I
29.5	6	28	14.22		28	19	56	33.609	15	24.70	14	5	30.8 S
30.0	6	57	20.18		27	46	56	13.381	15	19.18	2	33	33.5 I
30.5	7	25	41.05		26	51	55	53.846	15	13.86	15	0	43.7 S
31.0	7	53	9.39		25	36	55	35.354	15	8.82	3	26	53.9 I
31.5	8	19	41.13	+	24	4	55	18.226	15	4.16	15	52	0.5 S
JUN. 1.0	8	45	15.34		22	16	55	2.749	14	59.94	4	16	3.9 I
1.5	9	9	53.81		20	15	54	49.175	14	56.24	16	39	7.3 S
2.0	9	33	40.46		18	2	54	37.717	14	53.12	5	1	15.9 I
2.5	9	56	40.73		15	40	54	28.546	14	50.62	17	22	36.6 S
3.0	10	19	1.15	+	13	10	54	21.798	14	48.78	5	43	17.4 I
3.5	10	40	48.96		10	33	54	17.566	14	47.63	18	3	26.7 S
4.0	11	2	11.81		7	51	54	15.907	14	47.18	6	23	13.2 I
4.5	11	23	17.63		5	5	54	16.839	14	47.43	18	42	45.8 S
5.0	11	44	14.49	+	2	17	54	20.343	14	48.39	7	2	13.7 I
5.5	12	5	10.61	-	0	33	54	26.361	14	50.03	19	21	46.1 S
6.0	12	26	14.25		3	23	54	34.799	14	52.32	7	41	32.2 I
6.5	12	47	33.80		6	14	54	45.524	14	55.25	20	1	41.3 S
7.0	13	9	17.65		9	2	54	58.366	14	58.75	8	22	23.1 I
7.5	13	31	34.19		11	47	55	13.119	15	2.77	20	43	46.7 S
8.0	13	54	31.66	-	14	27	55	29.538	15	7.24	9	6	1.4 I
8.5	14	18	17.86		17	0	55	47.346	15	12.09	21	29	15.6 S
9.0	14	42	59.86		19	24	56	6.234	15	17.24	9	53	36.5 I
9.5	15	8	43.42		21	36	56	25.868	15	22.59	22	19	9.2 S
10.0	15	35	32.33		23	35	56	45.894	15	28.04	10	45	55.8 I
10.5	16	3	27.65	-	25	17	57	5.946	15	33.51	23	13	54.4 S
11.0	16	32	26.90	-	26	40	57	25.660	15	38.88	11	42	58.0 I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"		'	"	H	M	S
JUN. 11.0	16	32	26.90	-26	40	6.1	57 25.660	15	38.88	11	42	58.0 I
11.5	17	2	23.487	27	40	37.18	57 44.6783	15	44.06	--	--	---- -
12.0	17	33	6.56	28	16	49.4	58 2.669	15	48.96	0	12	54.3 S
12.5	18	4	21.45	28	26	58.0	58 19.334	15	53.50	12	43	26.3 I
13.0	18	35	50.91	28	10	1.6	58 34.417	15	57.61	1	14	13.6 S
13.5	19	7	16.86	-27	25	49.3	58 47.718	16	1.24	13	44	54.7 I
14.0	19	38	22.31	26	15	1.8	58 59.094	16	4.33	2	15	10.2 S
14.5	20	8	53.17	24	39	7.3	59 8.461	16	6.89	14	44	44.1 I
15.0	20	38	39.31	22	40	12.3	59 15.794	16	8.88	3	13	25.7 S
15.5	21	7	35.06	20	20	51.2	59 21.123	16	10.34	15	41	10.0 I
16.0	21	35	38.96	-17	43	54.4	59 24.519	16	11.26	4	7	56.7 S
16.5	22	2	53.20	14	52	19.3	59 26.087	16	11.69	16	33	49.7 I
17.0	22	29	22.79	11	49	3.2	59 25.956	16	11.65	4	58	55.9 S
17.5	22	55	14.79	8	36	59.1	59 24.261	16	11.19	17	23	24.2 I
18.0	23	20	37.63	5	18	53.2	59 21.140	16	10.34	5	47	24.8 S
18.5	23	45	40.53	-	1	57 24.9	59 16.716	16	9.14	18	11	8.5 I
19.0	0	10	33.14	+	1	24 52.4	59 11.101	16	7.61	6	34	46.4 S
19.5	0	35	25.10	4	45	29.6	59 4.382	16	5.78	18	58	29.3 I
20.0	1	0	25.85	8	1	59.9	58 56.627	16	3.66	7	22	27.7 S
20.5	1	25	44.28	11	11	57.5	58 47.883	16	1.28	19	46	51.2 I
21.0	1	51	28.43	+	14	12 56.0	58 38.182	15	58.64	8	11	48.2 S
21.5	2	17	45.05	17	2	28.6	58 27.546	15	55.74	20	37	25.2 I
22.0	2	44	39.15	19	38	8.2	58 15.992	15	52.59	9	3	46.4 S
22.5	3	12	13.47	21	57	31.1	58 3.544	15	49.20	21	30	52.6 I
23.0	3	40	27.89	23	58	20.1	57 50.237	15	45.57	9	58	41.1 S
23.5	4	9	19.06	+	25	38 31.3	57 36.124	15	41.73	22	27	4.6 I
24.0	4	38	40.17	26	56	20.9	57 21.283	15	37.69	10	55	52.1 S
24.5	5	8	21.21	27	50	32.1	57 5.818	15	33.47	23	24	49.3 I
25.0	5	38	9.64	28	20	22.2	56 49.864	15	29.13	11	53	39.8 S
25.5	6	7	51.458	28	25	45.91	56 33.5835	15	24.69	--	--	---- -
26.0	6	37	12.64	+	28	7 15.7	56 17.165	15	20.22	0	22	7.3 I
26.5	7	6	0.45	27	25	58.8	56 0.821	15	15.76	12	49	57.0 S
27.0	7	34	4.55	26	23	30.7	55 44.782	15	11.39	1	16	57.1 I
27.5	8	1	17.65	25	1	47.1	55 29.289	15	7.17	13	42	59.7 S
28.0	8	27	35.73	23	22	54.8	55 14.590	15	3.17	2	8	1.0 I
28.5	8	52	57.83	+	21	29 4.3	55 0.935	14	59.45	14	32	0.4 S
29.0	9	17	25.59	19	22	23.7	54 48.564	14	56.08	2	55	0.8 I
29.5	9	41	2.75	17	4	54.0	54 37.711	14	53.12	15	17	6.9 S
30.0	10	3	54.57	14	38	26.9	54 28.591	14	50.63	3	38	25.3 I
30.5	10	26	7.39	12	4	43.7	54 21.403	14	48.68	15	59	3.4 S
JUL. 1.0	10	47	48.29	+	9	25 16.0	54 16.321	14	47.29	4	19	9.5 I
1.5	11	9	4.77	+	6	41 26.3	54 13.496	14	46.52	16	38	52.1 S

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO	PASS.MERID. GREENWICH			
	H	M	S	G	'	"		'	"	H	M	S
JUL. 1.0	10	47	48.29	+	9	25 16.0	54 16.321	14	47.29	4	19	9.5 I
1.5	11	9	4.77		6	41 26.3	54 13.496	14	46.52	16	38	52.1 S
2.0	11	30	4.67		3	54 29.7	54 13.051	14	46.40	4	58	20.1 I
2.5	11	50	56.00	+	1	5 36.4	54 15.079	14	46.95	17	17	42.4 S
3.0	12	11	46.94	-	1	44 6.2	54 19.641	14	48.20	5	37	8.3 I
3.5	12	32	45.77	-	4	33 30.9	54 26.761	14	50.14	17	56	47.0 S
4.0	12	54	0.95		7	21 28.3	54 36.430	14	52.77	6	16	48.0 I
4.5	13	15	40.99		10	6 43.5	54 48.594	14	56.08	18	37	20.9 S
5.0	13	37	54.45		12	47 54.0	55 3.157	15	0.05	6	58	35.3 I
5.5	14	0	49.81		15	23 26.4	55 19.977	15	4.63	19	20	40.8 S
6.0	14	24	35.20	-	17	51 34.0	55 38.861	15	9.78	7	43	46.3 I
6.5	14	49	18.05		20	10 15.7	55 59.561	15	15.42	20	7	59.6 S
7.0	15	15	4.57		22	17 14.4	56 21.779	15	21.47	8	33	27.0 I
7.5	15	41	59.02		24	9 58.6	56 45.160	15	27.84	21	0	11.5 S
8.0	16	10	2.90		25	45 45.5	57 9.299	15	34.42	9	28	12.2 I
8.5	16	39	14.09	-	27	1 47.7	57 33.746	15	41.08	21	57	23.3 S
9.0	17	9	26.18		27	55 23.2	57 58.011	15	47.69	10	27	33.2 I
9.5	17	40	28.21		28	24 7.5	58 21.585	15	54.12	22	58	25.0 S
10.0	18	12	5.17		28	26 8.1	58 43.949	16	0.21	11	29	37.9 I
10.5	18	43	59.127		28	0 16.95	59 4.5975	16	5.83	--	--	---- -
11.0	19	15	51.17	-	27	6 19.6	59 23.061	16	10.86	0	0	49.5 S
11.5	19	47	23.46		25	44 58.2	59 38.928	16	15.19	12	31	38.8 I
12.0	20	18	21.12		23	57 48.0	59 51.863	16	18.71	1	1	48.2 S
12.5	20	48	33.47		21	47 8.9	60 1.629	16	21.37	13	31	5.7 I
13.0	21	17	54.51		19	15 53.2	60 8.091	16	23.13	1	59	25.0 S
13.5	21	46	22.68	-	16	27 13.6	60 11.227	16	23.99	14	26	45.3 I
14.0	22	14	0.23		13	24 31.8	60 11.118	16	23.96	2	53	10.0 S
14.5	22	40	52.31		10	11 9.8	60 7.943	16	23.09	15	18	46.0 I
15.0	23	7	6.16		6	50 24.1	60 1.957	16	21.46	3	43	42.0 S
15.5	23	32	50.35	-	3	25 21.7	59 53.473	16	19.15	16	8	8.4 I
16.0	23	58	14.20	+	0	1 0.5	59 42.843	16	16.25	4	32	15.9 S
16.5	0	23	27.30		3	25 56.4	59 30.429	16	12.87	16	56	15.6 I
17.0	0	48	39.18		6	46 49.2	59 16.592	16	9.10	5	20	18.1 S
17.5	1	13	58.98		10	1 9.6	59 1.670	16	5.04	17	44	33.7 I
18.0	1	39	35.11		13	6 34.8	58 45.970	16	0.76	6	9	11.3 S
18.5	2	5	34.98	+	16	0 46.2	58 29.760	15	56.34	18	34	18.9 I
19.0	2	32	4.53		18	41 29.8	58 13.262	15	51.85	7	0	2.1 S
19.5	2	59	7.84		21	6 35.9	57 56.658	15	47.32	19	26	24.4 I
20.0	3	26	46.62		23	14 1.5	57 40.090	15	42.81	7	53	25.8 S
20.5	3	54	59.81		25	1 53.2	57 23.663	15	38.33	20	21	3.1 I
21.0	4	23	43.28	+	26	28 32.4	57 7.453	15	33.92	8	49	9.0 S
21.5	4	52	49.86	+	27	32 40.6	56 51.518	15	29.58	21	17	32.9 I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
JUL. 21.5	4	52	49.86	+27	32	40.6	56	51.518	15	29.58	21	17	32.9 I
22.0	5	22	9.66	28	13	25.2	56	35.900	15	25.32	9	46	1.5 S
22.5	5	51	30.85	28	30	23.5	56	20.634	15	21.16	22	14	20.0 I
23.0	6	20	40.69	28	23	46.1	56	5.756	15	17.11	10	42	13.9 S
23.5	6	49	26.79	27	54	15.3	55	51.309	15	13.17	23	9	30.2 I
24.0	7	17	38.20	+27	3	2.8	55	37.345	15	9.37	11	35	58.8 S
24.5	7	45	6.283	25	51	43.71	55	23.9308	15	5.71	--	--	----
25.0	8	11	45.19	24	22	9.7	55	11.149	15	2.23	0	1	32.8 I
25.5	8	37	31.93	22	36	21.9	54	59.098	14	58.95	12	26	9.0 S
26.0	9	2	26.18	20	36	25.0	54	47.895	14	55.89	0	49	47.4 I
26.5	9	26	29.89	+18	24	21.6	54	37.668	14	53.11	13	12	30.3 S
27.0	9	49	46.76	16	2	9.0	54	28.560	14	50.63	1	34	22.5 I
27.5	10	12	21.86	13	31	37.0	54	20.724	14	48.49	13	55	29.9 S
28.0	10	34	21.19	10	54	26.6	54	14.315	14	46.74	2	15	59.4 I
28.5	10	55	51.41	8	12	10.8	54	9.495	14	45.43	14	35	58.7 S
29.0	11	16	59.58	+ 5	26	14.3	54	6.421	14	44.59	2	55	35.8 I
29.5	11	37	53.08	+ 2	37	55.8	54	5.245	14	44.27	15	14	59.0 S
30.0	11	58	39.47	- 0	11	31.4	54	6.110	14	44.51	3	34	16.7 I
30.5	12	19	26.47	3	0	56.6	54	9.143	14	45.33	15	53	37.6 S
31.0	12	40	21.97	5	49	10.2	54	14.456	14	46.78	4	13	10.5 I
31.5	13	1	33.96	- 8	35	1.1	54	22.137	14	48.88	16	33	4.4 S
AGO. 1.0	13	23	10.56	11	17	14.6	54	32.246	14	51.63	4	53	28.4 I
1.5	13	45	19.91	13	54	29.3	54	44.811	14	55.05	17	14	31.6 S
2.0	14	8	10.07	16	25	15.5	54	59.824	14	59.14	5	36	23.2 I
2.5	14	31	48.79	18	47	52.2	55	17.233	15	3.89	17	59	11.7 S
3.0	14	56	23.16	-21	0	25.5	55	36.935	15	9.25	6	23	5.0 I
3.5	15	21	59.13	23	0	48.0	55	58.771	15	15.20	18	48	9.1 S
4.0	15	48	40.90	24	46	39.0	56	22.521	15	21.68	7	14	27.7 I
4.5	16	16	30.09	26	15	27.3	56	47.898	15	28.59	19	42	0.9 S
5.0	16	45	25.04	27	24	36.2	57	14.541	15	35.85	8	10	44.3 I
5.5	17	15	20.14	-28	11	32.3	57	42.020	15	43.34	20	40	28.5 S
6.0	17	46	5.61	28	33	56.4	58	9.831	15	50.91	9	10	58.8 I
6.5	18	17	27.80	28	29	55.6	58	37.410	15	58.43	21	41	56.7 S
7.0	18	49	10.30	27	58	16.7	59	4.142	16	5.71	10	13	1.5 I
7.5	19	20	55.52	26	58	34.6	59	29.379	16	12.59	22	43	53.0 S
8.0	19	52	26.63	-25	31	18.4	59	52.470	16	18.88	11	14	13.9 I
8.5	20	23	29.29	23	37	49.8	60	12.787	16	24.41	23	43	51.3 S
9.0	20	53	52.969	21	20	17.83	60	29.7607	16	29.04	--	--	----
9.5	21	23	31.42	18	41	29.6	60	42.916	16	32.62	12	12	38.0 I
10.0	21	52	22.64	15	44	39.1	60	51.898	16	35.07	0	40	31.6 S
10.5	22	20	28.31	-12	33	16.9	60	56.501	16	36.32	13	7	34.5 I
11.0	22	47	53.04	- 9	11	0.7	60	56.674	16	36.37	1	33	52.4 S

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"	'	"	H	M	S		
AGO.11.0	22	47	53.04	-	9	11 0.7	60	56.674	16	36.37	1	33 52.4 S	
11.5	23	14	43.53		5	41 27.9	60	52.528	16	35.24	13	59 33.3 I	
12.0	23	41	7.88	-	2	8 10.3	60	44.317	16	33.00	2	24 46.8 S	
12.5	0	7	14.91	+	1	25 29.4	60	32.423	16	29.76	14	49 43.1 I	
13.0	0	33	13.73		4	56 19.6	60	17.322	16	25.65	3	14 32.7 S	
13.5	0	59	13.27	+	8	21 20.5	59	59.551	16	20.81	15	39 25.6 I	
14.0	1	25	21.92		11	37 44.3	59	39.675	16	15.39	4	4 31.3 S	
14.5	1	51	47.16		14	42 54.4	59	18.258	16	9.56	16	29 57.9 I	
15.0	2	18	35.18		17	34 24.9	58	55.834	16	3.45	4	55 51.9 S	
15.5	2	45	50.44		20	10 1.3	58	32.894	15	57.20	17	22 17.6 I	
16.0	3	13	35.26	+	22	27 40.4	58	9.867	15	50.92	5	49 16.5 S	
16.5	3	41	49.45		24	25 33.0	57	47.118	15	44.72	18	16 46.9 I	
17.0	4	10	30.00		26	2 6.1	57	24.943	15	38.68	6	44 43.9 S	
17.5	4	39	31.09		27	16 7.2	57	3.576	15	32.86	19	12 58.9 I	
18.0	5	8	44.37		28	6 47.7	56	43.188	15	27.31	7	41 20.8 S	
18.5	5	37	59.49	+	28	33 46.2	56	23.899	15	22.05	20	9 36.7 I	
19.0	6	7	5.07		28	37 10.3	56	5.785	15	17.12	8	37 33.1 S	
19.5	6	35	49.71		28	17 36.3	55	48.886	15	12.51	21	4 57.5 I	
20.0	7	4	3.06		27	36 6.9	55	33.214	15	8.24	9	31 39.6 S	
20.5	7	31	36.61		26	34 6.4	55	18.763	15	4.30	21	57 31.8 I	
21.0	7	58	24.27	+	25	13 15.7	55	5.515	15	0.69	10	22 29.6 S	
21.5	8	24	22.49		23	35 26.1	54	53.450	14	57.41	22	46 31.6 I	
22.0	8	49	30.22		21	42 34.1	54	42.545	14	54.44	11	9 39.1 S	
22.5	9	13	48.58		19	36 36.5	54	32.790	14	51.78	23	31 55.2 I	
23.0	9	37	20.47		17	19 27.7	54	24.181	14	49.43	11	53 24.9 S	
23.5	10	0	10.132	+	14	52 56.94	54	16.7302	14	47.40	--	-- ---- -	
24.0	10	22	22.84		12	18 47.4	54	10.464	14	45.69	0	14 14.3 I	
24.5	10	44	4.54		9	38 35.6	54	5.426	14	44.32	12	34 30.1 S	
25.0	11	5	21.65		6	53 52.1	54	1.676	14	43.30	0	54 19.5 I	
25.5	11	26	20.89		4	6 1.5	53	59.289	14	42.65	13	13 50.1 S	
26.0	11	47	9.19	+	1	16 24.0	53	58.353	14	42.39	1	33 9.7 I	
26.5	12	7	53.61	-	1	33 43.4	53	58.966	14	42.56	13	52 26.0 S	
27.0	12	28	41.34		4	23 5.9	54	1.235	14	43.18	2	11 47.2 I	
27.5	12	49	39.64		7	10 28.7	54	5.269	14	44.28	14	31 21.2 S	
28.0	13	10	55.86		9	54 35.7	54	11.178	14	45.89	2	51 16.4 I	
28.5	13	32	37.37	-	12	34 7.6	54	19.064	14	48.04	15	11 40.9 S	
29.0	13	54	51.47		15	7 40.1	54	29.021	14	50.75	3	32 43.0 I	
29.5	14	17	45.27		17	33 41.7	54	41.124	14	54.05	15	54 30.7 S	
30.0	14	41	25.47		19	50 32.8	54	55.427	14	57.95	4	17 11.4 I	
30.5	15	5	58.00		21	56 24.1	55	11.952	15	2.45	16	40 51.8 S	
31.0	15	31	27.62	-	23	49 16.5	55	30.686	15	7.55	5	5 36.7 I	
31.5	15	57	57.34	-	25	27 1.5	55	51.569	15	13.24	17	31 28.9 S	

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
AGO.31.5	15	57	57.34	-25	27	1.5	55	51.569	15	13.24	17	31	28.9 S
SET. 1.0	16	25	27.84	26	47	24.7	56	14.487	15	19.49	5	58	28.2 I
1.5	16	53	56.90	27	48	9.1	56	39.266	15	26.24	18	26	30.3 S
2.0	17	23	18.98	28	27	3.1	57	5.658	15	33.43	6	55	27.1 I
2.5	17	53	25.12	28	42	8.0	57	33.340	15	40.97	19	25	6.0 S
3.0	18	24	3.42	-28	31	48.4	58	1.906	15	48.75	7	55	11.8 I
3.5	18	54	59.89	27	55	1.2	58	30.867	15	56.64	20	25	27.0 S
4.0	19	25	59.80	26	51	22.7	58	59.652	16	4.49	8	55	35.0 I
4.5	19	56	49.23	25	21	13.2	59	27.621	16	12.11	21	25	20.8 S
5.0	20	27	16.40	23	25	37.3	59	54.080	16	19.32	9	54	33.7 I
5.5	20	57	12.65	-21	6	20.8	60	18.308	16	25.92	22	23	6.8 S
6.0	21	26	32.96	18	25	45.7	60	39.587	16	31.71	10	50	57.9 I
6.5	21	55	15.85	15	26	42.9	60	57.247	16	36.53	23	18	8.8 S
7.0	22	23	23.05	12	12	25.5	61	10.702	16	40.19	11	44	44.3 I
7.5	22	50	58.879	8	46	21.86	61	19.4958	16	42.59	--	--	---- -
8.0	23	18	9.58	- 5	12	9.4	61	23.332	16	43.63	0	10	51.7 S
8.5	23	45	2.68	- 1	33	29.3	61	22.099	16	43.30	12	36	39.7 I
9.0	0	11	46.47	+ 2	5	57.6	61	15.879	16	41.60	1	2	17.8 S
9.5	0	38	29.40	5	42	35.6	61	4.935	16	38.62	13	27	55.7 I
10.0	1	5	19.72	9	12	56.3	60	49.698	16	34.47	1	53	43.0 S
10.5	1	32	24.94	+12	33	42.2	60	30.723	16	29.30	14	19	48.0 I
11.0	1	59	51.41	15	41	48.3	60	8.656	16	23.29	2	46	17.8 S
11.5	2	27	43.82	18	34	24.6	59	44.190	16	16.62	15	13	17.4 I
12.0	2	56	4.72	21	8	58.2	59	18.022	16	9.49	3	40	49.2 S
12.5	3	24	54.10	23	23	16.3	58	50.826	16	2.08	16	8	52.2 I
13.0	3	54	9.07	+25	15	29.1	58	23.223	15	54.56	4	37	22.0 S
13.5	4	23	43.82	26	44	12.9	57	55.763	15	47.08	17	6	10.7 I
14.0	4	53	29.83	27	48	34.0	57	28.921	15	39.77	5	35	7.2 S
14.5	5	23	16.57	28	28	10.0	57	3.085	15	32.73	18	3	58.5 I
15.0	5	52	52.37	28	43	11.0	56	38.563	15	26.05	6	32	30.8 S
15.5	6	22	5.55	+28	34	17.5	56	15.590	15	19.79	19	0	31.0 I
16.0	6	50	45.52	28	2	37.1	55	54.330	15	13.99	7	27	48.1 S
16.5	7	18	43.61	27	9	38.9	55	34.886	15	8.70	19	54	13.8 I
17.0	7	45	53.63	25	57	7.3	55	17.312	15	3.91	8	19	43.1 S
17.5	8	12	12.07	24	26	55.7	55	1.620	14	59.63	20	44	14.3 I
18.0	8	37	37.94	+22	41	0.8	54	47.790	14	55.86	9	7	48.3 S
18.5	9	2	12.45	20	41	18.9	54	35.774	14	52.59	21	30	28.2 I
19.0	9	25	58.61	18	29	42.3	54	25.511	14	49.79	9	52	18.7 S
19.5	9	49	0.79	16	7	57.9	54	16.926	14	47.46	22	13	26.0 I
20.0	10	11	24.32	13	37	46.5	54	9.944	14	45.55	10	33	56.7 S
20.5	10	33	15.16	+11	0	42.8	54	4.488	14	44.07	22	53	58.0 I
21.0	10	54	39.72	+ 8	18	15.8	54	0.488	14	42.98	11	13	37.2 S

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL		SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"			'	"	H	M	S
SET. 21.0	10	54	39.72	+	8	18 15.8	54	0.488	14	42.98	11	13	37.2 S
21.5	11	15	44.62		5	31 50.3	53	57.886	14	42.27	23	33	2.1 I
22.0	11	36	36.63	+	2	42 47.4	53	56.635	14	41.93	11	52	20.1 S
22.5	11	57	22.605	-	0	7 34.05	53	56.7048	14	41.95	--	--	----
23.0	12	18	9.41		2	57 56.0	53	58.082	14	42.32	0	11	38.9 I
23.5	12	39	3.94	-	5	47 0.2	54	0.772	14	43.05	12	31	6.2 S
24.0	13	0	13.05		8	33 26.8	54	4.794	14	44.15	0	50	49.7 I
24.5	13	21	43.57		11	15 53.3	54	10.186	14	45.62	13	10	56.9 S
25.0	13	43	42.16		13	52 52.8	54	16.999	14	47.48	1	31	35.3 I
25.5	14	6	15.27		16	22 53.5	54	25.292	14	49.73	13	52	52.2 S
26.0	14	29	28.90	-	18	44 17.5	54	35.134	14	52.42	2	14	54.4 I
26.5	14	53	28.34		20	55 20.3	54	46.591	14	55.54	14	37	47.7 S
27.0	15	18	17.88		22	54 10.8	54	59.727	14	59.12	3	1	37.1 I
27.5	15	44	0.34		24	38 52.4	55	14.596	15	3.17	15	26	25.3 S
28.0	16	10	36.63		26	7 25.0	55	31.230	15	7.70	3	52	13.1 I
28.5	16	38	5.32	-	27	17 47.9	55	49.639	15	12.72	16	18	58.0 S
29.0	17	6	22.31		28	8 5.4	56	9.794	15	18.21	4	46	34.5 I
29.5	17	35	20.74		28	36 31.8	56	31.626	15	24.16	17	14	53.6 S
30.0	18	4	51.24		28	41 39.0	56	55.010	15	30.53	5	43	43.4 I
30.5	18	34	42.55		28	22 22.4	57	19.759	15	37.27	18	12	50.1 S
OUT. 1.0	19	4	42.50	-	27	38 6.5	57	45.617	15	44.32	6	41	59.4 I
1.5	19	34	39.13		26	28 48.4	58	12.249	15	51.57	19	10	58.2 S
2.0	20	4	21.86		24	54 58.8	58	39.240	15	58.93	7	39	35.3 I
2.5	20	33	42.37		22	57 41.2	59	6.093	16	6.24	20	7	43.2 S
3.0	21	2	35.23		20	38 28.6	59	32.236	16	13.36	8	35	18.0 I
3.5	21	30	58.03	-	17	59 20.8	59	57.036	16	20.12	21	2	19.2 S
4.0	21	58	51.26		15	2 39.6	60	19.818	16	26.33	9	28	49.9 I
4.5	22	26	17.97		11	51 6.3	60	39.892	16	31.80	21	54	55.3 S
5.0	22	53	23.26		8	27 38.3	60	56.593	16	36.35	10	20	42.9 I
5.5	23	20	13.79		4	55 26.9	61	9.319	16	39.81	22	46	21.4 S
6.0	23	46	57.27	-	1	17 54.5	61	17.572	16	42.06	11	12	0.4 I
6.5	0	13	42.01	+	2	21 27.7	61	20.998	16	43.00	23	37	49.6 S
7.0	0	40	36.432		5	59 2.65	61	19.4127	16	42.56	--	--	----
7.5	1	7	48.60		9	31 10.8	61	12.824	16	40.77	12	3	58.2 I
8.0	1	35	25.73		12	54 14.3	61	1.426	16	37.66	0	30	34.6 S
8.5	2	3	33.61	+	16	4 41.2	60	45.590	16	33.35	12	57	45.6 I
9.0	2	32	15.98		18	59 11.1	60	25.835	16	27.97	1	25	35.4 S
9.5	3	1	33.92		21	34 41.0	60	2.791	16	21.69	13	54	5.0 I
10.0	3	31	25.34		23	48 31.2	59	37.154	16	14.70	2	23	11.4 S
10.5	4	1	44.65		25	38 32.7	59	9.652	16	7.21	14	52	47.6 I
11.0	4	32	22.89	+	27	3 12.2	58	41.002	15	59.41	3	22	42.2 S
11.5	5	3	8.23	+	28	1 37.6	58	11.880	15	51.47	15	52	40.6 I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO		PASS.MERID. GREENWICH			
	H	M	S	G	'	"		'	"	H	M	S	
OUT. 11.5	5	3	8.23	+28	1	37.6	58	11.880	15	51.47	15	52	40.6 I
12.0	5	33	47.06	28	33	38.8	57	42.905	15	43.58	4	22	26.5 S
12.5	6	4	5.30	28	39	47.4	57	14.616	15	35.87	16	51	43.5 I
13.0	6	33	49.80	28	21	11.3	56	47.473	15	28.47	5	20	17.3 S
13.5	7	2	49.60	27	39	27.3	56	21.849	15	21.49	17	47	56.5 I
14.0	7	30	56.67	+26	36	32.7	55	58.040	15	15.00	6	14	33.8 S
14.5	7	58	6.25	25	14	35.7	55	36.263	15	9.07	18	40	5.8 I
15.0	8	24	16.69	23	35	47.9	55	16.669	15	3.73	7	4	32.6 S
15.5	8	49	29.06	21	42	18.2	54	59.347	14	59.01	19	27	57.2 I
16.0	9	13	46.60	19	36	9.1	54	44.338	14	54.92	7	50	24.7 S
16.5	9	37	14.13	+17	19	14.0	54	31.637	14	51.46	20	12	1.6 I
17.0	9	59	57.59	14	53	17.4	54	21.202	14	48.62	8	32	55.3 S
17.5	10	22	3.62	12	19	54.7	54	12.965	14	46.38	20	53	13.7 I
18.0	10	43	39.22	9	40	33.7	54	6.833	14	44.71	9	13	4.8 S
18.5	11	4	51.63	6	56	36.3	54	2.697	14	43.58	21	32	36.9 I
19.0	11	25	48.13	+ 4	9	20.0	54	0.438	14	42.96	9	51	57.9 S
19.5	11	46	36.00	+ 1	20	0.0	53	59.931	14	42.83	22	11	16.1 I
20.0	12	7	22.47	- 1	30	9.2	54	1.050	14	43.13	10	30	39.4 S
20.5	12	28	14.70	4	19	52.1	54	3.670	14	43.84	22	50	15.6 I
21.0	12	49	19.77	7	7	50.4	54	7.677	14	44.94	11	10	12.6 S
21.5	13	10	44.61	- 9	52	41.8	54	12.966	14	46.38	23	30	37.8 I
22.0	13	32	35.97	12	32	58.8	54	19.445	14	48.14	11	51	38.7 S
22.5	13	55	0.263	15	7	7.45	54	27.0386	14	50.21	--	--	----
23.0	14	18	3.42	17	33	27.1	54	35.690	14	52.57	0	13	21.9 I
23.5	14	41	50.62	19	50	10.1	54	45.359	14	55.20	12	35	53.4 S
24.0	15	6	25.96	-21	55	22.5	54	56.023	14	58.11	0	59	18.0 I
24.5	15	31	52.07	23	47	5.3	55	7.675	15	1.28	13	23	38.7 S
25.0	15	58	9.66	25	23	17.3	55	20.321	15	4.73	1	48	56.4 I
25.5	16	25	17.12	26	41	58.9	55	33.976	15	8.45	14	15	8.9 S
26.0	16	53	10.25	27	41	16.8	55	48.658	15	12.45	2	42	11.1 I
26.5	17	21	42.19	-28	19	30.3	56	4.382	15	16.73	15	9	54.5 S
27.0	17	50	43.68	28	35	17.2	56	21.154	15	21.30	3	38	8.0 I
27.5	18	20	3.70	28	27	39.3	56	38.961	15	26.15	16	6	38.3 S
28.0	18	49	30.36	27	56	6.8	56	57.764	15	31.28	4	35	11.5 I
28.5	19	18	52.06	27	0	40.0	57	17.489	15	36.65	17	3	34.4 S
29.0	19	47	58.51	-25	41	49.2	57	38.016	15	42.24	5	31	36.2 I
29.5	20	16	41.65	24	0	32.1	57	59.174	15	48.01	17	59	8.6 S
30.0	20	44	56.13	21	58	10.0	58	20.734	15	53.88	6	26	7.3 I
30.5	21	12	39.54	19	36	23.5	58	42.401	15	59.79	18	52	31.3 S
31.0	21	39	52.29	16	57	8.8	59	3.816	16	5.62	7	18	22.6 I
31.5	22	6	37.25	-14	2	34.9	59	24.557	16	11.27	19	43	46.2 S
NOV. 1.0	22	32	59.38	-10	55	1.1	59	44.148	16	16.61	8	8	49.0 I

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO	PASS.MERID. GREENWICH		
	H	M	S	G	'	"		'	"	H	M
NOV. 1.0	22	32	59.38	-10	55	1.1	59 44.148	16 16.61	8 8	49.0	I
1.5	22	59	5.23	7	36	57.1	60 2.069	16 21.49	20 33	39.6	S
2.0	23	25	2.57	4	11	2.6	60 17.782	16 25.77	8 58	27.3	I
2.5	23	50	59.94	- 0	40	7.6	60 30.751	16 29.31	21 23	22.5	S
3.0	0	17	6.30	+ 2	52	46.7	60 40.475	16 31.96	9 48	35.5	I
3.5	0	43	30.68	+ 6	24	28.7	60 46.520	16 33.60	22 14	16.4	S
4.0	1	10	21.69	9	51	36.7	60 48.552	16 34.16	10 40	34.4	I
4.5	1	37	47.08	13	10	41.4	60 46.363	16 33.56	23 7	36.9	S
5.0	2	5	53.07	16	18	9.5	60 39.890	16 31.80	11 35	29.1	I
5.5	2	34	43.646	19	10	29.54	60 29.2249	16 28.89	-- --	----	-
6.0	3	4	19.79	+21	44	19.1	60 14.611	16 24.91	0 4	12.4	S
6.5	3	34	38.79	23	56	34.3	59 56.429	16 19.96	12 33	43.9	I
7.0	4	5	33.77	25	44	39.6	59 35.172	16 14.16	1 3	55.6	S
7.5	4	36	53.76	27	6	38.5	59 11.417	16 7.69	13 34	34.2	I
8.0	5	8	24.36	28	1	21.4	58 45.791	16 0.71	2 5	22.5	S
8.5	5	39	49.04	+28	28	30.2	58 18.937	15 53.39	14 36	0.7	I
9.0	6	10	50.85	28	28	38.1	57 51.488	15 45.91	3 6	9.1	S
9.5	6	41	14.30	28	3	3.5	57 24.043	15 38.44	15 35	30.1	I
10.0	7	10	46.76	27	13	40.5	56 57.148	15 31.11	4 3	50.3	S
10.5	7	39	19.39	26	2	46.9	56 31.287	15 24.06	16 31	1.2	I
11.0	8	6	47.38	+24	32	52.1	56 6.873	15 17.41	4 56	59.1	S
11.5	8	33	9.63	22	46	27.1	55 44.249	15 11.25	17 21	44.7	I
12.0	8	58	28.15	20	45	57.0	55 23.687	15 5.65	5 45	21.8	S
12.5	9	22	47.30	18	33	36.1	55 5.394	15 0.66	18 7	56.7	I
13.0	9	46	13.11	16	11	25.8	54 49.517	14 56.34	6 29	36.9	S
13.5	10	8	52.65	+13	41	14.5	54 36.147	14 52.69	18 50	31.2	I
14.0	10	30	53.61	11	4	38.4	54 25.326	14 49.74	7 10	48.4	S
14.5	10	52	23.96	8	23	3.5	54 17.051	14 47.49	19 30	37.6	I
15.0	11	13	31.80	5	37	47.8	54 11.283	14 45.92	7 50	7.9	S
15.5	11	34	25.19	2	50	3.8	54 7.948	14 45.01	20 9	28.2	I
16.0	11	55	12.10	+ 0	1	1.1	54 6.943	14 44.74	8 28	47.3	S
16.5	12	16	0.43	- 2	48	11.5	54 8.140	14 45.06	20 48	13.9	I
17.0	12	36	57.96	5	36	23.4	54 11.390	14 45.95	9 7	56.5	S
17.5	12	58	12.31	8	22	19.9	54 16.529	14 47.35	21 28	3.6	I
18.0	13	19	50.95	11	4	40.7	54 23.377	14 49.21	9 48	43.3	S
18.5	13	42	1.05	-13	41	57.7	54 31.748	14 51.49	22 10	3.3	I
19.0	14	4	49.35	16	12	34.3	54 41.450	14 54.14	10 32	10.8	S
19.5	14	28	21.89	18	34	44.2	54 52.292	14 57.09	22 55	11.7	I
20.0	14	52	43.70	20	46	31.9	55 4.089	15 0.31	11 19	10.5	S
20.5	15	17	58.36	22	45	53.5	55 16.664	15 3.73	23 44	9.4	I
21.0	15	44	7.482	-24	30	39.87	55 29.8538	15 7.33	-- --	----	-
21.5	16	11	10.24	-25	58	40.3	55 43.513	15 11.05	12 10	8.0	S

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"		'	"	H	M	S
NOV. 21.5	16	11	10.24	-25	58	40.3	55 43.513	15	11.05	12	10	8.0 S
22.0	16	39	2.94	27	7	48.7	55 57.515	15	14.86	0	37	2.0 I
22.5	17	7	38.81	27	56	10.3	56 11.757	15	18.74	13	4	43.9 S
23.0	17	36	48.20	28	22	10.1	56 26.156	15	22.67	1	33	2.1 I
23.5	18	6	19.15	28	24	39.3	56 40.651	15	26.61	14	1	42.8 S
24.0	18	35	58.38	-28	3	1.7	56 55.199	15	30.58	2	30	30.1 I
24.5	19	5	32.56	27	17	16.0	57 9.769	15	34.55	14	59	8.8 S
25.0	19	34	49.57	26	7	55.8	57 24.340	15	38.52	3	27	25.2 I
25.5	20	3	39.59	24	36	5.6	57 38.888	15	42.48	15	55	8.8 S
26.0	20	31	55.82	22	43	15.8	57 53.385	15	46.43	4	22	12.9 I
26.5	20	59	34.68	-20	31	15.9	58 7.786	15	50.36	16	48	34.8 S
27.0	21	26	35.77	18	2	8.5	58 22.021	15	54.23	5	14	15.5 I
27.5	21	53	1.47	15	18	4.4	58 35.993	15	58.04	17	39	18.8 S
28.0	22	18	56.44	12	21	18.9	58 49.564	16	1.74	6	3	51.3 I
28.5	22	44	27.14	9	14	10.2	59 2.560	16	5.28	18	28	1.2 S
29.0	23	9	41.37	- 5	58	59.0	59 14.762	16	8.60	6	51	58.0 I
29.5	23	34	47.82	- 2	38	9.1	59 25.916	16	11.64	19	15	52.0 S
30.0	23	59	55.80	+ 0	45	50.7	59 35.734	16	14.32	7	39	54.1 I
30.5	0	25	14.86	4	10	25.4	59 43.905	16	16.54	20	4	15.2 S
DEZ. 1.0	0	50	54.55	7	32	51.8	59 50.113	16	18.23	8	29	5.9 I
1.5	1	17	4.02	+10	50	17.4	59 54.048	16	19.31	20	54	36.3 S
2.0	1	43	51.56	13	59	40.2	59 55.432	16	19.68	9	20	54.9 I
2.5	2	11	24.01	16	57	50.7	59 54.036	16	19.30	21	48	7.9 S
3.0	2	39	46.09	19	41	34.5	59 49.698	16	18.12	10	16	18.3 I
3.5	3	8	59.50	22	7	39.1	59 42.343	16	16.12	22	45	24.7 S
4.0	3	39	2.18	+24	13	1.9	59 31.989	16	13.30	11	15	20.4 I
4.5	4	9	47.73	25	55	1.2	59 18.756	16	9.69	23	45	53.2 S
5.0	4	41	5.283	27	11	27.71	59 2.8602	16	5.36	--	--	----
5.5	5	12	40.04	28	0	56.0	58 44.609	16	0.39	12	16	45.8 I
6.0	5	44	14.55	28	22	52.0	58 24.383	15	54.88	0	47	37.6 S
6.5	6	15	30.55	+28	17	35.6	58 2.620	15	48.95	13	18	7.2 I
7.0	6	46	10.96	27	46	17.2	57 39.793	15	42.73	1	47	54.6 S
7.5	7	16	1.58	26	50	49.2	57 16.395	15	36.35	14	16	43.8 I
8.0	7	44	52.19	25	33	32.8	56 52.912	15	29.96	2	44	24.2 S
8.5	8	12	36.94	23	57	5.9	56 29.814	15	23.66	15	10	50.1 I
9.0	8	39	14.04	+22	4	10.3	56 7.540	15	17.59	3	36	1.1 S
9.5	9	4	45.16	19	57	23.1	55 46.487	15	11.86	16	0	0.2 I
10.0	9	29	14.61	17	39	10.3	55 27.005	15	6.55	4	22	53.6 S
10.5	9	52	48.52	15	11	44.1	55 9.396	15	1.75	16	44	48.8 I
11.0	10	15	34.22	12	37	1.2	54 53.909	14	57.53	5	5	54.8 S
11.5	10	37	39.73	+ 9	56	44.5	54 40.743	14	53.94	17	26	20.9 I
12.0	10	59	13.41	+ 7	12	24.1	54 30.048	14	51.03	5	46	16.6 S

COORDENADAS APARENTES A 0 E 12 HORAS TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			PARALAXE HORIZONTAL	SEMI- DIÂMETRO		PASS.MERID. GREENWICH		
	H	M	S	G	'	"		'	"	H	M	S
DEZ.12.0	10	59	13.41	+	7	12 24.1	54 30.048	14	51.03	5	46	16.6 S
12.5	11	20	23.73		4	25 19.8	54 21.928	14	48.82	18	5	51.3 I
13.0	11	41	19.19	+	1	36 44.2	54 16.441	14	47.32	6	25	14.6 S
13.5	12	2	8.19	-	1	12 15.0	54 13.606	14	46.55	18	44	35.8 I
14.0	12	22	59.08		4	0 32.1	54 13.400	14	46.49	7	4	4.0 S
14.5	12	44	0.12	-	6	47 0.6	54 15.761	14	47.14	19	23	48.4 I
15.0	13	5	19.43		9	30 30.6	54 20.594	14	48.45	7	43	58.1 S
15.5	13	27	5.02		12	9 46.3	54 27.765	14	50.41	20	4	41.7 I
16.0	13	49	24.60		14	43 23.9	54 37.111	14	52.96	8	26	7.9 S
16.5	14	12	25.45		17	9 49.7	54 48.435	14	56.04	20	48	24.4 I
17.0	14	36	14.16	-	19	27 18.6	55 1.511	14	59.60	9	11	37.9 S
17.5	15	0	56.17		21	33 54.1	55 16.085	15	3.57	21	35	53.6 I
18.0	15	26	35.32		23	27 29.3	55 31.885	15	7.88	10	1	14.2 S
18.5	15	53	13.25		25	5 49.2	55 48.617	15	12.44	22	27	39.3 I
19.0	16	20	48.76		26	26 35.8	56 5.978	15	17.17	10	55	4.5 S
19.5	16	49	17.39	-	27	27 34.9	56 23.663	15	21.99	23	23	21.2 I
20.0	17	18	31.13		28	6 44.7	56 41.368	15	26.81	11	52	16.7 S
20.0	17	48	18.728		28	22 25.79	56 58.8048	15	31.56	--	--	----
21.0	18	18	26.40		28	13 30.2	57 15.707	15	36.17	0	21	34.9 I
21.5	18	48	39.09		27	39 28.2	57 31.838	15	40.56	12	50	58.2 S
22.0	19	18	41.93	-	26	40 31.7	57 47.000	15	44.69	1	20	9.4 I
22.5	19	48	21.78		25	17 33.4	58 1.035	15	48.52	13	48	53.2 S
23.0	20	17	28.35		23	32 2.1	58 13.832	15	52.00	2	16	58.3 I
23.5	20	45	54.88		21	25 54.8	58 25.323	15	55.13	14	44	17.5 S
24.0	21	13	38.25		19	1 29.0	58 35.480	15	57.90	3	10	48.4 I
24.5	21	40	38.78	-	16	21 14.1	58 44.310	16	0.31	15	36	32.3 S
25.0	22	6	59.64		13	27 45.3	58 51.847	16	2.36	4	1	33.8 I
25.5	22	32	46.29		10	23 38.6	58 58.142	16	4.08	16	25	59.9 S
26.0	22	58	5.90		7	11 28.1	59 3.251	16	5.47	4	49	59.4 I
26.5	23	23	6.79		3	53 45.0	59 7.228	16	6.55	17	13	42.2 S
27.0	23	47	58.07	-	0	32 58.2	59 10.116	16	7.34	5	37	19.0 I
27.5	0	12	49.25	+	2	48 25.3	59 11.937	16	7.83	18	1	0.7 S
28.0	0	37	49.99		6	7 57.6	59 12.690	16	8.04	6	24	58.2 I
28.5	1	3	9.78		9	23 9.0	59 12.351	16	7.95	18	49	22.1 S
29.0	1	28	57.64		12	31 25.5	59 10.869	16	7.54	7	14	22.3 I
29.5	1	55	21.65	+	15	30 8.3	59 8.174	16	6.81	19	40	7.4 S
30.0	2	22	28.47		18	16 34.1	59 4.184	16	5.72	8	6	43.6 I
30.5	2	50	22.67		20	47 56.6	58 58.811	16	4.26	20	34	14.4 S
31.0	3	19	5.98		23	1 30.8	58 51.973	16	2.39	9	2	39.3 I
31.5	3	48	36.63		24	54 39.5	58 43.608	16	0.12	21	31	52.9 S
32.0	4	18	48.82	+	26	25 2.1	58 33.677	15	57.41	10	1	44.8 I
32.5	4	49	32.58	+	27	30 44.4	58 22.183	15	54.28	22	31	59.7 S

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JAN. 0	17	34	35.27	-23	21	14.4	6.66	2.54	1.320	8416	10	57	38
1	17	41	2.63	23	31	56.1	6.61	2.52	.331	2734	11	0	11
2	17	47	33.02	23	41	30.5	6.56	2.51	.341	1229	11	2	46
3	17	54	6.23	23	49	55.9	6.51	2.49	.350	3996	11	5	25
4	18	0	42.11	23	57	10.5	6.47	2.47	.359	1121	11	8	5
5	18	7	20.47	-24	3	12.6	6.43	2.46	1.367	2684	11	10	49
6	18	14	1.17	24	8	0.8	6.40	2.44	.374	8758	11	13	34
7	18	20	44.06	24	11	33.8	6.36	2.43	.381	9406	11	16	22
8	18	27	29.02	24	13	50.1	6.33	2.42	.388	4686	11	19	11
9	18	34	15.90	24	14	48.6	6.31	2.41	.394	4642	11	22	3
10	18	41	4.59	-24	14	28.2	6.28	2.40	1.399	9311	11	24	56
11	18	47	54.96	24	12	47.7	6.26	2.39	.404	8722	11	27	51
12	18	54	46.89	24	9	46.0	6.24	2.38	.409	2889	11	30	48
13	19	1	40.27	24	5	22.3	6.22	2.38	.413	1820	11	33	45
14	19	8	34.99	23	59	35.5	6.21	2.37	.416	5510	11	36	45
15	19	15	30.94	-23	52	24.7	6.20	2.37	1.419	3942	11	39	45
16	19	22	28.01	23	43	49.1	6.19	2.36	.421	7088	11	42	46
17	19	29	26.11	23	33	47.8	6.18	2.36	.423	4910	11	45	49
18	19	36	25.13	23	22	20.1	6.17	2.36	.424	7355	11	48	52
19	19	43	24.97	23	9	25.2	6.17	2.36	.425	4357	11	51	56
20	19	50	25.53	-22	55	2.4	6.17	2.36	1.425	5837	11	55	1
21	19	57	26.72	22	39	11.1	6.17	2.36	.425	1704	11	58	6
22	20	4	28.45	22	21	50.8	6.17	2.36	.424	1848	12	1	12
23	20	11	30.61	22	3	0.8	6.18	2.36	.422	6147	12	4	18
24	20	18	33.11	21	42	40.8	6.19	2.37	.420	4461	12	7	24
25	20	25	35.85	-21	20	50.3	6.20	2.37	1.417	6634	12	10	31
26	20	32	38.73	20	57	29.0	6.22	2.38	.414	2493	12	13	38
27	20	39	41.64	20	32	36.7	6.24	2.38	.410	1847	12	16	45
28	20	46	44.45	20	6	13.3	6.26	2.39	.405	4485	12	19	51
29	20	53	47.05	19	38	18.9	6.28	2.40	.400	0180	12	22	57
30	21	0	49.29	-19	8	53.5	6.31	2.41	1.393	8685	12	26	3
31	21	7	51.03	18	37	57.5	6.34	2.42	.386	9735	12	29	9
FEV. 1	21	14	52.10	18	5	31.5	6.38	2.44	.379	3049	12	32	13
2	21	21	52.32	17	31	36.1	6.42	2.45	.370	8327	12	35	17
3	21	28	51.49	16	56	12.4	6.46	2.47	.361	5254	12	38	19
4	21	35	49.35	-16	19	21.8	6.51	2.49	1.351	3501	12	41	20
5	21	42	45.63	15	41	6.1	6.56	2.51	.340	2729	12	44	19
6	21	49	40.00	15	1	27.5	6.62	2.53	.328	2592	12	47	16
7	21	56	32.09	14	20	28.8	6.69	2.55	.315	2742	12	50	10
8	22	3	21.45	13	38	13.4	6.76	2.58	.301	2839	12	53	2
9	22	10	7.56	-12	54	45.6	6.84	2.61	1.286	2558	12	55	50
10	22	16	49.80	-12	10	10.3	6.92	2.65	1.270	1603	12	58	33

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
FEV. 10	22	16	49.80	-12	10	10.3	6.92	2.65	1.270	1603	12	58	33
11	22	23	27.48	11	24	33.7	7.02	2.68	.252	9720	13	1	12
12	22	29	59.76	10	38	2.9	7.12	2.72	.234	6714	13	3	45
13	22	36	25.71	9	50	46.4	7.24	2.76	.215	2471	13	6	10
14	22	42	44.23	9	2	53.9	7.36	2.81	.194	6976	13	8	28
15	22	48	54.11	- 8	14	37.0	7.50	2.86	1.173	0340	13	10	36
16	22	54	53.94	7	26	8.4	7.65	2.92	.150	2825	13	12	34
17	23	0	42.20	6	37	43.0	7.81	2.98	.126	4862	13	14	18
18	23	6	17.18	5	49	36.9	7.98	3.05	.101	7081	13	15	49
19	23	11	37.04	5	2	8.2	8.17	3.12	.076	0320	13	17	3
20	23	16	39.82	- 4	15	36.3	8.38	3.20	1.049	5642	13	17	59
21	23	21	23.46	3	30	22.2	8.60	3.29	1.022	4331	13	18	34
22	23	25	45.83	2	46	47.7	8.84	3.38	0.994	7888	13	18	47
23	23	29	44.80	2	5	15.6	9.10	3.48	.966	8011	13	18	36
24	23	33	18.26	1	26	8.9	9.37	3.58	.938	6568	13	17	58
25	23	36	24.22	- 0	49	50.9	9.66	3.69	0.910	5559	13	16	51
26	23	39	0.83	- 0	16	44.0	9.96	3.81	.882	7071	13	15	14
27	23	41	6.51	+ 0	12	49.9	10.28	3.93	.855	3237	13	13	6
28	23	42	39.97	0	38	30.7	10.61	4.05	.828	6183	13	10	25
MAR. 1	23	43	40.31	1	0	0.1	10.95	4.19	.802	7989	13	7	11
2	23	44	7.07	+ 1	17	2.2	11.30	4.32	0.778	0644	13	3	24
3	23	44	0.33	1	29	24.5	11.65	4.45	.754	6011	12	59	3
4	23	43	20.76	1	36	58.1	12.00	4.59	.732	5794	12	54	11
5	23	42	9.63	1	39	38.4	12.35	4.72	.712	1513	12	48	48
6	23	40	28.90	1	37	26.0	12.68	4.85	.693	4477	12	42	58
7	23	38	21.17	+ 1	30	26.8	13.00	4.97	0.676	5770	12	36	42
8	23	35	49.67	1	18	53.0	13.29	5.08	.661	6230	12	30	5
9	23	32	58.21	1	3	2.4	13.56	5.18	.648	6441	12	23	10
10	23	29	51.06	0	43	18.9	13.79	5.27	.637	6731	12	16	2
11	23	26	32.80	+ 0	20	11.6	13.99	5.34	.628	7166	12	8	46
12	23	23	8.20	- 0	5	46.3	14.14	5.40	0.621	7563	12	1	26
13	23	19	42.04	0	33	58.1	14.26	5.45	.616	7503	11	54	6
14	23	16	18.93	1	3	46.0	14.33	5.48	.613	6356	11	46	52
15	23	13	3.14	1	34	31.8	14.36	5.49	.612	3310	11	39	46
16	23	9	58.53	2	5	38.5	14.35	5.48	.612	7400	11	32	54
17	23	7	8.43	- 2	36	31.8	14.31	5.47	0.614	7551	11	26	17
18	23	4	35.58	3	6	40.9	14.22	5.43	.618	2613	11	19	58
19	23	2	22.14	3	35	38.9	14.11	5.39	.623	1392	11	13	59
20	23	0	29.67	4	3	3.4	13.98	5.34	.629	2687	11	8	22
21	22	58	59.24	4	28	36.0	13.82	5.28	.636	5311	11	3	7
22	22	57	51.41	- 4	52	2.7	13.64	5.21	0.644	8119	10	58	14
23	22	57	6.35	- 5	13	13.1	13.45	5.14	0.654	0019	10	53	43

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH			
	H	M	S	G	'	"			"	"	H	M	S	
MAR. 23	22	57	6.35	-	5	13	13.1	13.45	5.14	0.654	0019	10	53	43
24	22	56	43.88		5	32	0.1	13.24	5.06	.663	9988	10	49	35
25	22	56	43.57		5	48	19.4	13.03	4.98	.674	7076	10	45	48
26	22	57	4.76		6	2	8.7	12.82	4.90	.686	0409	10	42	23
27	22	57	46.66		6	13	28.0	12.60	4.81	.697	9196	10	39	18
28	22	58	48.36	-	6	22	18.3	12.38	4.73	0.710	2719	10	36	32
29	23	0	8.90		6	28	41.8	12.16	4.65	.723	0337	10	34	4
30	23	1	47.30		6	32	41.6	11.95	4.56	.736	1477	10	31	53
31	23	3	42.56		6	34	21.1	11.73	4.48	.749	5634	10	29	59
ABR. 1	23	5	53.70		6	33	44.2	11.52	4.40	.763	2359	10	28	21
2	23	8	19.76	-	6	30	55.1	11.32	4.32	0.777	1258	10	26	56
3	23	10	59.84		6	25	57.8	11.11	4.25	.791	1986	10	25	46
4	23	13	53.09		6	18	56.6	10.92	4.17	.805	4240	10	24	48
5	23	16	58.68		6	9	55.6	10.73	4.10	.819	7754	10	24	2
6	23	20	15.86		5	58	58.8	10.54	4.03	.834	2295	10	23	28
7	23	23	43.93	-	5	46	10.1	10.36	3.96	0.848	7662	10	23	4
8	23	27	22.25		5	31	33.2	10.19	3.89	.863	3676	10	22	50
9	23	31	10.23		5	15	11.7	10.02	3.83	.878	0182	10	22	45
10	23	35	7.34		4	57	9.2	9.85	3.76	.892	7041	10	22	49
11	23	39	13.09		4	37	28.9	9.69	3.70	.907	4134	10	23	2
12	23	43	27.05	-	4	16	13.9	9.54	3.64	0.922	1350	10	23	23
13	23	47	48.84		3	53	27.3	9.39	3.59	.936	8591	10	23	52
14	23	52	18.10		3	29	11.9	9.24	3.53	.951	5767	10	24	28
15	23	56	54.56		3	3	30.6	9.10	3.48	.966	2793	10	25	10
16	0	1	37.95		2	36	26.0	8.96	3.43	.980	9587	10	26	0
17	0	6	28.06	-	2	8	0.6	8.83	3.37	0.995	6068	10	26	57
18	0	11	24.71		1	38	17.0	8.71	3.33	1.010	2155	10	28	0
19	0	16	27.76		1	7	17.5	8.58	3.28	.024	7763	10	29	9
20	0	21	37.09		0	35	4.6	8.46	3.23	.039	2805	10	30	25
21	0	26	52.64	-	0	1	40.5	8.35	3.19	.053	7182	10	31	46
22	0	32	14.35	+	0	32	52.4	8.23	3.15	1.068	0792	10	33	14
23	0	37	42.21		1	8	31.8	8.13	3.10	.082	3518	10	34	48
24	0	43	16.25		1	45	15.5	8.02	3.06	.096	5230	10	36	29
25	0	48	56.51		2	23	1.1	7.92	3.03	.110	5784	10	38	15
26	0	54	43.07		3	1	46.3	7.82	2.99	.124	5019	10	40	8
27	1	0	36.02	+	3	41	28.7	7.73	2.95	1.138	2750	10	42	8
28	1	6	35.50		4	22	5.9	7.63	2.92	.151	8771	10	44	14
29	1	12	41.67		5	3	35.1	7.55	2.88	.165	2849	10	46	27
30	1	18	54.69		5	45	53.7	7.46	2.85	.178	4720	10	48	47
MAIO 1	1	25	14.76		6	28	58.6	7.38	2.82	.191	4087	10	51	14
2	1	31	42.09	+	7	12	46.9	7.30	2.79	1.204	0616	10	53	48
3	1	38	16.93	+	7	57	14.9	7.23	2.76	1.216	3932	10	56	30

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
MAIO	1	1 25	14.76	+	6 28	58.6	7.38	2.82	1.191	4087	10 51	14	
	2	1 31	42.09		7 12	46.9	7.30	2.79	.204	0616	10 53	48	
	3	1 38	16.93		7 57	14.9	7.23	2.76	.216	3932	10 56	30	
	4	1 44	59.50		8 42	19.1	7.16	2.74	.228	3613	10 59	20	
	5	1 51	50.07		9 27	55.2	7.09	2.71	.239	9193	11 2	18	
	6	1 58	48.88	+10	13 13	58.9	7.03	2.69	1.251	0155	11 5	25	
	7	2 5	56.19		11 0	25.0	6.97	2.66	.261	5930	11 8	40	
	8	2 13	12.24		11 47	8.0	6.92	2.64	.271	5896	11 12	4	
	9	2 20	37.25		12 34	1.8	6.87	2.62	.280	9380	11 15	37	
	10	2 28	11.39		13 20	59.5	6.82	2.61	.289	5664	11 19	20	
	11	2 35	54.80	+14	7 53	4	6.78	2.59	1.297	3982	11 23	12	
	12	2 43	47.57		14 54	35.4	6.74	2.58	.304	3537	11 27	13	
	13	2 51	49.68		15 40	56.1	6.71	2.56	.310	3509	11 31	24	
	14	3 0	1.03		16 26	45.8	6.69	2.55	.315	3071	11 35	44	
	15	3 8	21.43		17 11	53.7	6.67	2.55	.319	1409	11 40	13	
16	3 16	50.53	+17	56 8	6	6.65	2.54	1.321	7746	11 44	50		
17	3 25	27.86		18 39	18.4	6.65	2.54	.323	1370	11 49	36		
18	3 34	12.79		19 21	11.1	6.65	2.54	.323	1656	11 54	29		
19	3 43	4.56		20 1	34.2	6.65	2.54	.321	8102	11 59	28		
20	3 52	2.23		20 40	15.5	6.67	2.55	.319	0352	12 4	33		
21	4 1	4.74	+21	17 3	2	6.69	2.56	1.314	8217	12 9	42		
22	4 10	10.91		21 51	46.3	6.72	2.57	.309	1689	12 14	54		
23	4 19	19.46		22 24	14.8	6.75	2.58	.302	0951	12 20	8		
24	4 28	29.02		22 54	19.9	6.80	2.60	.293	6375	12 25	22		
25	4 37	38.21		23 21	54.5	6.85	2.62	.283	8504	12 30	35		
26	4 46	45.64	+23	46 53	1	6.91	2.64	1.272	8041	12 35	45		
27	4 55	49.92		24 9	11.8	6.98	2.67	.260	5814	12 40	52		
28	5 4	49.73		24 28	48.5	7.05	2.69	.247	2752	12 45	53		
29	5 13	43.82		24 45	42.8	7.13	2.73	.232	9852	12 50	48		
30	5 22	31.04		24 59	55.6	7.22	2.76	.217	8144	12 55	36		
31	5 31	10.32	+25	11 29	3	7.32	2.80	1.201	8672	13 0	15		
JUN.	1	5 39	40.73		25 20	27.5	7.42	2.83	.185	2458	13 4	44	
	2	5 48	1.41		25 26	54.7	7.53	2.88	.168	0493	13 9	3	
	3	5 56	11.63		25 30	56.2	7.64	2.92	.150	3718	13 13	12	
	4	6 4	10.75		25 32	37.8	7.77	2.97	.132	3014	13 17	9	
	5	6 11	58.21	+25	32 6	1	7.89	3.02	1.113	9196	13 20	53	
	6	6 19	33.54		25 29	27.8	8.03	3.07	.095	3012	13 24	26	
	7	6 26	56.33		25 24	49.7	8.17	3.12	.076	5141	13 27	45	
	8	6 34	6.23		25 18	19.0	8.32	3.18	.057	6198	13 30	52	
	9	6 41	2.93		25 10	2.8	8.47	3.23	.038	6733	13 33	45	
	10	6 47	46.17	+25	0 8	3	8.62	3.30	1.019	7241	13 36	24	
	11	6 54	15.72	+24	48 42	5	8.79	3.36	1.000	8163	13 38	49	

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JUN. 11	6	54	15.72	+24	48	42.5	8.79	3.36	1.000	8163	13	38	49
12	7	0	31.36	24	35	52.4	8.96	3.42	0.981	9894	13	41	0
13	7	6	32.89	24	21	45.1	9.13	3.49	.963	2783	13	42	57
14	7	12	20.14	24	6	27.2	9.31	3.56	.944	7147	13	44	40
15	7	17	52.90	23	50	5.5	9.49	3.63	.926	3267	13	46	8
16	7	23	11.00	+23	32	46.6	9.68	3.70	0.908	1400	13	47	21
17	7	28	14.25	23	14	37.0	9.88	3.77	.890	1778	13	48	19
18	7	33	2.44	22	55	43.1	10.08	3.85	.872	4618	13	49	2
19	7	37	35.38	22	36	11.2	10.29	3.93	.855	0120	13	49	30
20	7	41	52.83	22	16	7.6	10.50	4.01	.837	8478	13	49	41
21	7	45	54.56	+21	55	38.5	10.71	4.09	0.820	9877	13	49	37
22	7	49	40.29	21	34	50.1	10.93	4.18	.804	4503	13	49	17
23	7	53	9.77	21	13	48.8	11.16	4.26	.788	2540	13	48	41
24	7	56	22.69	20	52	40.6	11.39	4.35	.772	4181	13	47	47
25	7	59	18.74	20	31	31.8	11.62	4.44	.756	9624	13	46	37
26	8	1	57.61	+20	10	28.7	11.85	4.53	0.741	9077	13	45	9
27	8	4	18.96	19	49	37.6	12.09	4.62	.727	2764	13	43	24
28	8	6	22.47	19	29	4.8	12.33	4.71	.713	0922	13	41	21
29	8	8	7.83	19	8	56.6	12.57	4.80	.699	3808	13	38	60
30	8	9	34.74	18	49	19.4	12.82	4.90	.686	1699	13	36	20
JUL. 1	8	10	42.94	+18	30	19.6	13.06	4.99	0.673	4893	13	33	21
2	8	11	32.21	18	12	3.6	13.30	5.08	.661	3710	13	30	3
3	8	12	2.40	17	54	37.7	13.53	5.17	.649	8496	13	26	27
4	8	12	13.45	17	38	8.1	13.76	5.26	.638	9621	13	22	31
5	8	12	5.38	17	22	40.9	13.99	5.34	.628	7480	13	18	17
6	8	11	38.35	+17	8	22.1	14.20	5.43	0.619	2489	13	13	44
7	8	10	52.69	16	55	17.2	14.40	5.50	.610	5090	13	8	53
8	8	9	48.89	16	43	31.4	14.59	5.58	.602	5742	13	3	44
9	8	8	27.63	16	33	9.6	14.77	5.64	.595	4921	12	58	18
10	8	6	49.85	16	24	15.9	14.92	5.70	.589	3111	12	52	36
11	8	4	56.69	+16	16	53.8	15.06	5.75	0.584	0806	12	46	41
12	8	2	49.60	16	11	6.0	15.17	5.79	.579	8494	12	40	32
13	8	0	30.24	16	6	54.2	15.25	5.83	.576	6655	12	34	12
14	7	58	0.56	16	4	19.5	15.31	5.85	.574	5751	12	27	43
15	7	55	22.75	16	3	21.4	15.33	5.86	.573	6217	12	21	7
16	7	52	39.22	+16	3	58.9	15.32	5.86	0.573	8453	12	14	27
17	7	49	52.54	16	6	9.6	15.29	5.84	.575	2819	12	7	45
18	7	47	5.45	16	9	50.2	15.22	5.81	.577	9621	12	1	4
19	7	44	20.76	16	14	56.3	15.11	5.77	.581	9116	11	54	27
20	7	41	41.28	16	21	22.9	14.98	5.72	.587	1496	11	47	56
21	7	39	9.84	+16	29	3.9	14.81	5.66	0.593	6893	11	41	35
22	7	36	49.13	+16	37	52.5	14.62	5.59	0.601	5377	11	35	25

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JUL. 22	7	36	49.13	+16	37	52.5	14.62	5.59	0.601	5377	11	35	25
23	7	34	41.75	16	47	41.3	14.40	5.50	.610	6950	11	29	30
24	7	32	50.10	16	58	22.5	14.16	5.41	.621	1553	11	23	52
25	7	31	16.37	17	9	47.7	13.89	5.31	.632	9066	11	18	32
26	7	30	2.51	17	21	48.1	13.61	5.20	.645	9311	11	13	32
27	7	29	10.24	+17	34	14.8	13.32	5.09	0.660	2053	11	8	55
28	7	28	41.02	17	46	58.5	13.01	4.97	.675	7003	11	4	41
29	7	28	36.06	17	59	49.7	12.70	4.85	.692	3819	11	0	51
30	7	28	56.33	18	12	38.8	12.38	4.73	.710	2111	10	57	28
31	7	29	42.59	18	25	15.7	12.06	4.61	.729	1431	10	54	30
AGO. 1	7	30	55.38	+18	37	30.6	11.74	4.49	0.749	1281	10	51	58
2	7	32	35.04	18	49	13.1	11.42	4.36	.770	1103	10	49	54
3	7	34	41.74	19	0	12.7	11.10	4.24	.792	0278	10	48	16
4	7	37	15.49	19	10	18.9	10.79	4.12	.814	8118	10	47	6
5	7	40	16.14	19	19	20.9	10.49	4.01	.838	3862	10	46	22
6	7	43	43.38	+19	27	7.7	10.19	3.89	0.862	6667	10	46	4
7	7	47	36.77	19	33	28.5	9.91	3.79	.887	5602	10	46	13
8	7	51	55.70	19	38	12.2	9.63	3.68	.912	9644	10	46	46
9	7	56	39.43	19	41	8.2	9.37	3.58	.938	7675	10	47	44
10	8	1	47.05	19	42	5.8	9.11	3.48	.964	8479	10	49	6
11	8	7	17.50	+19	40	55.3	8.87	3.39	0.991	0751	10	50	50
12	8	13	9.53	19	37	27.2	8.64	3.30	1.017	3106	10	52	55
13	8	19	21.75	19	31	33.4	8.43	3.22	.043	4091	10	55	19
14	8	25	52.59	19	23	6.8	8.22	3.14	.069	2215	10	58	2
15	8	32	40.35	19	12	1.9	8.03	3.07	.094	5972	11	1	1
16	8	39	43.18	+18	58	14.7	7.86	3.00	1.119	3878	11	4	14
17	8	46	59.14	18	41	43.4	7.69	2.94	.143	4506	11	7	39
18	8	54	26.21	18	22	27.7	7.54	2.88	.166	6524	11	11	14
19	9	2	2.37	18	0	29.7	7.40	2.83	.188	8729	11	14	58
20	9	9	45.58	17	35	53.2	7.27	2.78	.210	0078	11	18	48
21	9	17	33.91	+17	8	43.8	7.15	2.73	1.229	9709	11	22	42
22	9	25	25.49	16	39	8.7	7.04	2.69	.248	6952	11	26	39
23	9	33	18.61	16	7	16.4	6.95	2.65	.266	1338	11	30	36
24	9	41	11.73	15	33	16.2	6.86	2.62	.282	2587	11	34	33
25	9	49	3.46	14	57	18.3	6.78	2.59	.297	0599	11	38	28
26	9	56	52.63	+14	19	33.3	6.71	2.56	1.310	5433	11	42	19
27	10	4	38.24	13	40	11.6	6.65	2.54	.322	7285	11	46	7
28	10	12	19.47	12	59	23.9	6.59	2.52	.333	6460	11	49	50
29	10	19	55.68	12	17	20.4	6.55	2.50	.343	3354	11	53	27
30	10	27	26.36	11	34	10.7	6.51	2.49	.351	8423	11	56	59
31	10	34	51.18	+10	50	4.2	6.47	2.47	1.359	2169	12	0	25
SET. 1	10	42	9.87	+10	5	9.4	6.44	2.46	1.365	5118	12	3	44

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
SET. 1	10	42	9.87	+10	5	9.4	6.44	2.46	1.365	5118	12	3	44
2	10	49	22.31	9	19	34.6	6.42	2.45	.370	7805	12	6	57
3	10	56	28.45	8	33	27.0	6.40	2.44	.375	0763	12	10	4
4	11	3	28.30	7	46	53.3	6.38	2.44	.378	4514	12	13	5
5	11	10	21.94	6	59	60.0	6.37	2.43	.380	9562	12	15	59
6	11	17	9.48	+ 6	12	52.4	6.36	2.43	1.382	6384	12	18	47
7	11	23	51.09	5	25	35.8	6.36	2.43	.383	5432	12	21	29
8	11	30	26.94	4	38	14.7	6.36	2.43	.383	7126	12	24	6
9	11	36	57.24	3	50	53.3	6.36	2.43	.383	1857	12	26	37
10	11	43	22.20	3	3	35.4	6.36	2.43	.381	9982	12	29	3
11	11	49	42.06	+ 2	16	24.4	6.37	2.43	1.380	1830	12	31	24
12	11	55	57.03	1	29	23.3	6.38	2.44	.377	7697	12	33	40
13	12	2	7.34	+ 0	42	35.1	6.40	2.44	.374	7852	12	35	52
14	12	8	13.22	- 0	3	57.6	6.41	2.45	.371	2539	12	37	59
15	12	14	14.87	0	50	12.4	6.43	2.46	.367	1973	12	40	2
16	12	20	12.50	- 1	36	7.2	6.45	2.47	1.362	6348	12	42	2
17	12	26	6.31	2	21	39.7	6.48	2.47	.357	5837	12	43	57
18	12	31	56.50	3	6	48.3	6.50	2.49	.352	0591	12	45	49
19	12	37	43.23	3	51	30.9	6.53	2.50	.346	0744	12	47	38
20	12	43	26.68	4	35	45.9	6.56	2.51	.339	6409	12	49	23
21	12	49	7.01	- 5	19	31.8	6.60	2.52	1.332	7688	12	51	5
22	12	54	44.36	6	2	46.9	6.63	2.53	.325	4664	12	52	45
23	13	0	18.86	6	45	29.7	6.67	2.55	.317	7408	12	54	21
24	13	5	50.61	7	27	38.9	6.72	2.57	.309	5980	12	55	55
25	13	11	19.74	8	9	12.9	6.76	2.58	.301	0427	12	57	26
26	13	16	46.30	- 8	50	10.3	6.81	2.60	1.292	0786	12	58	55
27	13	22	10.38	9	30	29.9	6.86	2.62	.282	7085	13	0	21
28	13	27	32.01	10	10	10.0	6.91	2.64	.272	9343	13	1	45
29	13	32	51.23	10	49	9.3	6.96	2.66	.262	7574	13	3	7
30	13	38	8.04	11	27	26.3	7.02	2.68	.252	1783	13	4	26
OUT. 1	13	43	22.41	-12	4	59.5	7.09	2.71	1.241	1970	13	5	42
2	13	48	34.30	12	41	47.4	7.15	2.73	.229	8133	13	6	56
3	13	53	43.65	13	17	48.3	7.22	2.76	.218	0262	13	8	8
4	13	58	50.35	13	53	0.6	7.29	2.79	.205	8349	13	9	16
5	14	3	54.28	14	27	22.5	7.37	2.82	.193	2382	13	10	22
6	14	8	55.27	-15	0	52.2	7.45	2.85	1.180	2349	13	11	25
7	14	13	53.12	15	33	27.7	7.54	2.88	.166	8237	13	12	24
8	14	18	47.60	16	5	7.0	7.63	2.91	.153	0036	13	13	20
9	14	23	38.40	16	35	47.9	7.72	2.95	.138	7740	13	14	13
10	14	28	25.20	17	5	28.1	7.82	2.99	.124	1344	13	15	0
11	14	33	7.58	-17	34	5.1	7.93	3.03	1.109	0853	13	15	44
12	14	37	45.07	-18	1	36.1	8.04	3.07	1.093	6283	13	16	22

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
OUT. 12	14	37	45.07	-18	1	36.1	8.04	3.07	1.093	6283	13	16	22
13	14	42	17.13	18	27	58.1	8.16	3.12	.077	7660	13	16	54
14	14	46	43.13	18	53	7.9	8.28	3.17	.061	5031	13	17	20
15	14	51	2.35	19	17	2.0	8.42	3.22	.044	8462	13	17	38
16	14	55	13.99	19	39	36.4	8.56	3.27	.027	8047	13	17	49
17	14	59	17.10	-20	0	46.8	8.70	3.33	1.010	3910	13	17	50
18	15	3	10.65	20	20	28.7	8.86	3.38	0.992	6219	13	17	41
19	15	6	53.45	20	38	36.7	9.02	3.45	.974	5184	13	17	21
20	15	10	24.17	20	55	5.0	9.20	3.51	.956	1075	13	16	48
21	15	13	41.34	21	9	47.3	9.38	3.58	.937	4229	13	16	0
22	15	16	43.30	-21	22	36.3	9.57	3.66	0.918	5064	13	14	57
23	15	19	28.23	21	33	23.9	9.78	3.74	.899	4090	13	13	35
24	15	21	54.16	21	42	1.4	9.99	3.82	.880	1933	13	11	53
25	15	23	58.91	21	48	18.6	10.21	3.90	.860	9344	13	9	49
26	15	25	40.21	21	52	4.6	10.45	3.99	.841	7229	13	7	20
27	15	26	55.64	-21	53	7.3	10.69	4.08	0.822	6662	13	4	24
28	15	27	42.73	21	51	13.4	10.94	4.18	.803	8914	13	0	59
29	15	27	59.05	21	46	9.0	11.19	4.28	.785	5471	12	57	1
30	15	27	42.34	21	37	39.5	11.45	4.38	.767	8053	12	52	30
31	15	26	50.61	21	25	30.7	11.71	4.47	.750	8626	12	47	24
NOV. 1	15	25	22.43	-21	9	29.4	11.97	4.57	0.734	9405	12	41	41
2	15	23	17.08	20	49	25.1	12.21	4.66	.720	2838	12	35	21
3	15	20	34.91	20	25	11.6	12.44	4.75	.707	1574	12	28	26
4	15	17	17.53	19	56	49.6	12.64	4.83	.695	8395	12	20	57
5	15	13	28.10	19	24	29.0	12.81	4.89	.686	6127	12	12	59
6	15	9	11.44	-18	48	31.5	12.94	4.94	0.679	7513	12	4	37
7	15	4	34.00	18	9	31.7	13.02	4.97	.675	5056	11	55	59
8	14	59	43.72	17	28	18.4	13.05	4.98	.674	0854	11	47	12
9	14	54	49.63	16	45	52.5	13.02	4.97	.675	6436	11	38	26
10	14	50	1.27	16	3	24.1	12.93	4.94	.680	2621	11	29	51
11	14	45	28.06	-15	22	7.5	12.78	4.88	0.687	9430	11	21	34
12	14	41	18.65	14	43	15.2	12.59	4.81	.698	6062	11	13	45
13	14	37	40.38	14	7	52.4	12.35	4.72	.712	0933	11	6	29
14	14	34	38.95	13	36	52.5	12.08	4.61	.728	1788	10	59	51
15	14	32	18.20	13	10	54.3	11.78	4.50	.746	5844	10	53	54
16	14	30	40.23	-12	50	21.0	11.47	4.38	0.766	9967	10	48	41
17	14	29	45.52	12	35	21.3	11.14	4.26	.789	0842	10	44	9
18	14	29	33.27	12	25	51.4	10.82	4.14	.812	5132	10	40	20
19	14	30	1.65	12	21	37.4	10.51	4.01	.836	9609	10	37	9
20	14	31	8.18	12	22	18.4	10.20	3.90	.862	1251	10	34	35
21	14	32	49.95	-12	27	28.9	9.91	3.78	0.887	7308	10	32	35
22	14	35	3.85	-12	36	40.7	9.63	3.68	0.913	5340	10	31	6

O HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
NOV. 22	14	35	3.85	-12	36	40.7	9.63	3.68	0.913	5340	10	31	6
23	14	37	46.76	12	49	25.2	9.36	3.58	.939	3231	10	30	4
24	14	40	55.64	13	5	13.9	9.11	3.48	.964	9183	10	29	27
25	14	44	27.65	13	23	39.8	8.88	3.39	0.990	1701	10	29	11
26	14	48	20.17	13	44	17.7	8.66	3.31	1.014	9566	10	29	15
27	14	52	30.81	-14	6	44.4	8.46	3.23	1.039	1803	10	29	37
28	14	56	57.46	14	30	38.9	8.27	3.16	.062	7655	10	30	13
29	15	1	38.24	14	55	42.6	8.10	3.09	.085	6548	10	31	3
30	15	6	31.50	15	21	38.6	7.94	3.03	.107	8063	10	32	5
DEZ. 1	15	11	35.81	15	48	12.1	7.79	2.98	.129	1911	10	33	17
2	15	16	49.93	-16	15	10.2	7.65	2.92	1.149	7907	10	34	39
3	15	22	12.78	16	42	21.3	7.52	2.87	.169	5952	10	36	9
4	15	27	43.43	17	9	35.3	7.40	2.83	.188	6015	10	37	46
5	15	33	21.09	17	36	43.4	7.29	2.78	.206	8116	10	39	30
6	15	39	5.07	18	3	37.7	7.18	2.74	.224	2318	10	41	20
7	15	44	54.79	-18	30	11.4	7.09	2.71	1.240	8713	10	43	16
8	15	50	49.74	18	56	18.2	7.00	2.67	.256	7415	10	45	17
9	15	56	49.48	19	21	52.9	6.91	2.64	.271	8556	10	47	22
10	16	2	53.64	19	46	50.5	6.84	2.61	.286	2276	10	49	32
11	16	9	1.91	20	11	6.9	6.77	2.58	.299	8722	10	51	46
12	16	15	13.99	-20	34	38.1	6.70	2.56	1.312	8043	10	54	3
13	16	21	29.67	20	57	20.8	6.64	2.54	.325	0390	10	56	24
14	16	27	48.72	21	19	11.7	6.58	2.51	.336	5908	10	58	48
15	16	34	10.97	21	40	8.1	6.53	2.49	.347	4741	11	1	16
16	16	40	36.25	22	0	7.3	6.48	2.47	.357	7025	11	3	46
17	16	47	4.42	-22	19	7.0	6.43	2.46	1.367	2890	11	6	19
18	16	53	35.35	22	37	5.0	6.39	2.44	.376	2461	11	8	55
19	17	0	8.91	22	53	59.2	6.35	2.43	.384	5851	11	11	33
20	17	6	45.01	23	9	47.7	6.32	2.41	.392	3167	11	14	14
21	17	13	23.53	23	24	28.8	6.28	2.40	.399	4507	11	16	58
22	17	20	4.36	-23	38	0.6	6.25	2.39	1.405	9960	11	19	43
23	17	26	47.43	23	50	21.7	6.23	2.38	.411	9606	11	22	31
24	17	33	32.62	24	1	30.4	6.20	2.37	.417	3515	11	25	21
25	17	40	19.86	24	11	25.3	6.18	2.36	.422	1751	11	28	13
26	17	47	9.05	24	20	5.0	6.17	2.36	.426	4364	11	31	7
27	17	54	0.10	-24	27	28.2	6.15	2.35	1.430	1397	11	34	3
28	18	0	52.94	24	33	33.5	6.14	2.34	.433	2882	11	37	0
29	18	7	47.46	24	38	19.7	6.12	2.34	.435	8841	11	39	59
30	18	14	43.58	24	41	45.6	6.12	2.34	.437	9286	11	43	0
31	18	21	41.21	24	43	50.1	6.11	2.33	.439	4216	11	46	2
32	18	28	40.26	-24	44	32.0	6.11	2.33	1.440	3620	11	49	6

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JAN. 0	20	9	13.42	-18	0	35.0	30.18	28.62	0.291	3911	13	28	9
1	20	7	47.86	17	49	16.1	30.54	28.97	.287	9265	13	22	42
2	20	6	12.68	17	38	15.9	30.89	29.29	.284	6922	13	17	7
3	20	4	28.24	17	27	35.4	31.22	29.61	.281	6968	13	11	22
4	20	2	34.98	17	17	15.6	31.53	29.90	.278	9484	13	5	29
5	20	0	33.42	-17	7	17.3	31.81	30.17	0.276	4552	12	59	28
6	19	58	24.18	16	57	41.6	32.07	30.41	.274	2250	12	53	20
7	19	56	7.96	16	48	29.2	32.30	30.63	.272	2651	12	47	6
8	19	53	45.54	16	39	41.0	32.50	30.82	.270	5822	12	40	45
9	19	51	17.78	16	31	17.9	32.67	30.98	.269	1822	12	34	20
10	19	48	45.60	-16	23	20.5	32.81	31.11	0.268	0702	12	27	51
11	19	46	9.98	16	15	49.6	32.91	31.21	.267	2506	12	21	20
12	19	43	31.96	16	8	45.8	32.97	31.27	.266	7265	12	14	46
13	19	40	52.59	16	2	9.7	33.00	31.29	.266	5001	12	8	12
14	19	38	12.97	15	56	1.7	32.99	31.29	.266	5724	12	1	38
15	19	35	34.17	-15	50	22.2	32.94	31.24	0.266	9436	11	55	5
16	19	32	57.27	15	45	11.6	32.86	31.16	.267	6124	11	48	34
17	19	30	23.32	15	40	30.1	32.74	31.05	.268	5766	11	42	8
18	19	27	53.33	15	36	17.8	32.59	30.91	.269	8331	11	35	45
19	19	25	28.26	15	32	34.6	32.41	30.73	.271	3777	11	29	28
20	19	23	9.01	-15	29	20.3	32.19	30.53	0.273	2052	11	23	17
21	19	20	56.40	15	26	34.8	31.94	30.29	.275	3098	11	17	12
22	19	18	51.18	15	24	17.5	31.67	30.03	.277	6848	11	11	16
23	19	16	54.02	15	22	28.0	31.37	29.75	.280	3231	11	5	27
24	19	15	5.49	15	21	5.4	31.05	29.45	.283	2167	10	59	48
25	19	13	26.08	-15	20	9.1	30.71	29.12	0.286	3576	10	54	17
26	19	11	56.20	15	19	38.0	30.35	28.78	.289	7372	10	48	57
27	19	10	36.16	15	19	31.1	29.98	28.43	.293	3468	10	43	46
28	19	9	26.22	15	19	47.1	29.59	28.06	.297	1775	10	38	45
29	19	8	26.53	15	20	25.0	29.20	27.69	.301	2206	10	33	54
30	19	7	37.19	-15	21	23.1	28.79	27.30	0.305	4674	10	29	14
31	19	6	58.25	15	22	40.3	28.38	26.91	.309	9093	10	24	43
FEV. 1	19	6	29.70	15	24	14.9	27.96	26.52	.314	5382	10	20	24
2	19	6	11.50	15	26	5.4	27.54	26.12	.319	3459	10	16	14
3	19	6	3.55	15	28	10.1	27.12	25.71	.324	3246	10	12	14
4	19	6	5.74	-15	30	27.5	26.69	25.31	0.329	4666	10	8	25
5	19	6	17.94	15	32	55.9	26.27	24.91	.334	7645	10	4	45
6	19	6	39.97	15	35	33.5	25.85	24.51	.340	2110	10	1	15
7	19	7	11.63	15	38	18.7	25.43	24.12	.345	7991	9	57	55
8	19	7	52.73	15	41	9.7	25.02	23.73	.351	5219	9	54	44
9	19	8	43.02	-15	44	4.7	24.61	23.34	0.357	3726	9	51	42
10	19	9	42.29	-15	47	2.1	24.20	22.95	0.363	3449	9	48	48

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DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
FEV.10	19	9	42.29	-15	47	2.1	24.20	22.95	0.363	3449	9	48	48
	11	19	10 50.27	15	50	0.1	23.80	22.58	.369	4324	9	46	3
	12	19	12 6.71	15	52	57.1	23.41	22.20	.375	6293	9	43	27
	13	19	13 31.36	15	55	51.4	23.03	21.84	.381	9296	9	40	59
	14	19	15 3.96	15	58	41.4	22.65	21.48	.388	3279	9	38	38
	15	19	16 44.23	-16	1	25.5	22.27	21.12	0.394	8188	9	36	25
	16	19	18 31.92	16	4	2.3	21.91	20.78	.401	3971	9	34	19
	17	19	20 26.76	16	6	30.2	21.55	20.44	.408	0580	9	32	20
	18	19	22 28.49	16	8	47.9	21.20	20.11	.414	7967	9	30	28
	19	19	24 36.86	16	10	54.0	20.86	19.78	.421	6088	9	28	43
	20	19	26 51.61	-16	12	47.3	20.52	19.46	0.428	4900	9	27	4
	21	19	29 12.48	16	14	26.4	20.20	19.15	.435	4363	9	25	30
	22	19	31 39.23	16	15	50.4	19.88	18.85	.442	4436	9	24	3
	23	19	34 11.61	16	16	57.9	19.56	18.55	.449	5085	9	22	41
	24	19	36 49.38	16	17	48.1	19.26	18.26	.456	6273	9	21	24
	25	19	39 32.31	-16	18	20.0	18.96	17.98	0.463	7968	9	20	13
	26	19	42 20.17	16	18	32.7	18.67	17.71	.471	0141	9	19	6
	27	19	45 12.72	16	18	25.3	18.39	17.44	.478	2763	9	18	4
	28	19	48 9.75	16	17	57.0	18.11	17.18	.485	5809	9	17	6
MAR. 1	19	51	11.06	16	17	7.1	17.84	16.92	.492	9257	9	16	12
	2	19	54 16.45	-16	15	54.8	17.58	16.67	0.500	3086	9	15	23
	3	19	57 25.73	16	14	19.6	17.32	16.43	.507	7277	9	14	37
	4	20	0 38.74	16	12	20.9	17.07	16.19	.515	1813	9	13	55
	5	20	3 55.29	16	9	58.0	16.83	15.96	.522	6676	9	13	16
	6	20	7 15.23	16	7	10.5	16.59	15.73	.530	1851	9	12	41
	7	20	10 38.39	-16	3	57.8	16.35	15.51	0.537	7321	9	12	8
	8	20	14 4.64	16	0	19.5	16.13	15.29	.545	3069	9	11	39
	9	20	17 33.81	15	56	15.2	15.91	15.08	.552	9082	9	11	13
	10	20	21 5.77	15	51	44.4	15.69	14.88	.560	5342	9	10	49
	11	20	24 40.39	15	46	46.9	15.48	14.68	.568	1835	9	10	28
	12	20	28 17.53	-15	41	22.2	15.27	14.48	0.575	8545	9	10	10
	13	20	31 57.06	15	35	30.1	15.07	14.29	.583	5459	9	9	54
	14	20	35 38.86	15	29	10.3	14.87	14.11	.591	2561	9	9	40
	15	20	39 22.82	15	22	22.7	14.68	13.92	.598	9837	9	9	28
	16	20	43 8.81	15	15	7.0	14.49	13.75	.606	7274	9	9	18
	17	20	46 56.74	-15	7	23.1	14.31	13.57	0.614	4856	9	9	10
	18	20	50 46.48	14	59	11.0	14.13	13.40	.622	2572	9	9	4
	19	20	54 37.94	14	50	30.6	13.96	13.24	.630	0406	9	9	0
	20	20	58 31.02	14	41	21.8	13.79	13.08	.637	8345	9	8	57
	21	21	2 25.62	14	31	44.7	13.62	12.92	.645	6378	9	8	56
	22	21	6 21.64	-14	21	39.4	13.46	12.76	0.653	4490	9	8	55
	23	21	10 18.99	-14	11	5.9	13.30	12.61	0.661	2669	9	8	57

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DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
MAR. 23	21	10	18.99	-14	11	5.9	13.30	12.61	0.661	2669	9	8	57
24	21	14	17.57	14	0	4.5	13.14	12.46	.669	0904	9	8	59
25	21	18	17.30	13	48	35.3	12.99	12.32	.676	9184	9	9	3
26	21	22	18.10	13	36	38.5	12.84	12.18	.684	7498	9	9	7
27	21	26	19.87	13	24	14.4	12.70	12.04	.692	5836	9	9	13
28	21	30	22.55	-13	11	23.2	12.56	11.91	0.700	4191	9	9	19
29	21	34	26.05	12	58	5.3	12.42	11.78	.708	2556	9	9	27
30	21	38	30.32	12	44	20.9	12.28	11.65	.716	0926	9	9	35
31	21	42	35.29	12	30	10.4	12.15	11.52	.723	9296	9	9	43
ABR. 1	21	46	40.91	12	15	34.1	12.02	11.40	.731	7662	9	9	53
2	21	50	47.12	-12	0	32.4	11.89	11.28	0.739	6021	9	10	3
3	21	54	53.88	11	45	5.7	11.77	11.16	.747	4370	9	10	13
4	21	59	1.13	11	29	14.3	11.64	11.04	.755	2704	9	10	24
5	22	3	8.84	11	12	58.7	11.52	10.93	.763	1020	9	10	35
6	22	7	16.96	10	56	19.2	11.41	10.82	.770	9313	9	10	47
7	22	11	25.47	-10	39	16.2	11.29	10.71	0.778	7578	9	10	59
8	22	15	34.32	10	21	50.2	11.18	10.60	.786	5810	9	11	11
9	22	19	43.50	10	4	1.5	11.07	10.50	.794	4004	9	11	24
10	22	23	52.96	9	45	50.7	10.96	10.40	.802	2155	9	11	37
11	22	28	2.70	9	27	18.1	10.86	10.30	.810	0256	9	11	50
12	22	32	12.69	-9	8	24.2	10.75	10.20	0.817	8302	9	12	4
13	22	36	22.90	8	49	9.5	10.65	10.10	.825	6286	9	12	18
14	22	40	33.33	8	29	34.5	10.55	10.01	.833	4201	9	12	32
15	22	44	43.96	8	9	39.7	10.45	9.91	.841	2040	9	12	46
16	22	48	54.78	7	49	25.6	10.36	9.82	.848	9797	9	13	0
17	22	53	5.77	-7	28	52.6	10.26	9.73	0.856	7463	9	13	15
18	22	57	16.92	7	8	1.5	10.17	9.65	.864	5031	9	13	29
19	23	1	28.23	6	46	52.6	10.08	9.56	.872	2493	9	13	44
20	23	5	39.68	6	25	26.7	9.99	9.48	.879	9840	9	13	59
21	23	9	51.27	6	3	44.2	9.91	9.39	.887	7066	9	14	14
22	23	14	2.99	-5	41	45.9	9.82	9.31	0.895	4161	9	14	29
23	23	18	14.83	5	19	32.3	9.74	9.23	.903	1119	9	14	45
24	23	22	26.78	4	57	4.1	9.66	9.16	.910	7933	9	15	0
25	23	26	38.85	4	34	21.8	9.57	9.08	.918	4598	9	15	16
26	23	30	51.04	4	11	26.1	9.50	9.01	.926	1108	9	15	31
27	23	35	3.35	-3	48	17.7	9.42	8.93	0.933	7459	9	15	47
28	23	39	15.79	3	24	57.2	9.34	8.86	.941	3649	9	16	3
29	23	43	28.35	3	1	25.2	9.27	8.79	.948	9676	9	16	19
30	23	47	41.06	2	37	42.3	9.19	8.72	.956	5537	9	16	35
MAIO 1	23	51	53.91	2	13	49.3	9.12	8.65	.964	1232	9	16	52
2	23	56	6.91	-1	49	46.6	9.05	8.58	0.971	6759	9	17	8
3	0	0	20.09	-1	25	35.0	8.98	8.52	0.979	2116	9	17	25

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DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH				
	H	M	S	G	'	"			"	"	H	M	S		
MAIO	1	23	51	53.91	-	2	13	49.3	9.12	8.65	0.964	1232	9	16	52
	2	23	56	6.91		1	49	46.6	9.05	8.58	.971	6759	9	17	8
	3	0	0	20.09		1	25	35.0	8.98	8.52	.979	2116	9	17	25
	4	0	4	33.45		1	1	15.1	8.91	8.45	.986	7302	9	17	42
	5	0	8	47.01		0	36	47.5	8.85	8.39	0.994	2313	9	17	59
	6	0	13	0.79	-	0	12	12.8	8.78	8.33	1.001	7148	9	18	16
	7	0	17	14.80	+	0	12	28.4	8.71	8.26	.009	1803	9	18	34
	8	0	21	29.08		0	37	15.5	8.65	8.20	.016	6275	9	18	52
	9	0	25	43.64		1	2	7.8	8.59	8.14	.024	0560	9	19	10
	10	0	29	58.50		1	27	4.8	8.53	8.09	.031	4656	9	19	28
	11	0	34	13.69	+	1	52	5.8	8.47	8.03	1.038	8557	9	19	47
	12	0	38	29.24		2	17	10.2	8.41	7.97	.046	2258	9	20	6
	13	0	42	45.17		2	42	17.4	8.35	7.92	.053	5756	9	20	26
	14	0	47	1.50		3	7	26.8	8.29	7.86	.060	9044	9	20	46
	15	0	51	18.26		3	32	37.7	8.23	7.81	.068	2116	9	21	6
16	0	55	35.48	+	3	57	49.5	8.18	7.75	1.075	4966	9	21	27	
17	0	59	53.17		4	23	1.5	8.12	7.70	.082	7587	9	21	48	
18	1	4	11.36		4	48	13.0	8.07	7.65	.089	9971	9	22	10	
19	1	8	30.08		5	13	23.5	8.02	7.60	.097	2111	9	22	32	
20	1	12	49.35		5	38	32.1	7.96	7.55	.104	4000	9	22	55	
21	1	17	9.18	+	6	3	38.2	7.91	7.50	1.111	5630	9	23	19	
22	1	21	29.61		6	28	41.2	7.86	7.46	.118	6995	9	23	43	
23	1	25	50.66		6	53	40.3	7.81	7.41	.125	8088	9	24	8	
24	1	30	12.35		7	18	34.8	7.76	7.36	.132	8904	9	24	33	
25	1	34	34.71		7	43	24.0	7.71	7.32	.139	9438	9	24	59	
26	1	38	57.75	+	8	8	7.3	7.67	7.27	1.146	9686	9	25	26	
27	1	43	21.50		8	32	44.0	7.62	7.23	.153	9646	9	25	53	
28	1	47	45.98		8	57	13.3	7.58	7.18	.160	9315	9	26	22	
29	1	52	11.21		9	21	34.6	7.53	7.14	.167	8691	9	26	51	
30	1	56	37.22		9	45	47.1	7.49	7.10	.174	7772	9	27	20	
31	2	1	4.01	+	10	9	50.2	7.44	7.06	1.181	6558	9	27	51	
JUN.	1	2	5	31.63		10	33	43.2	7.40	7.02	.188	5047	9	28	22
	2	2	10	0.08		10	57	25.3	7.36	6.98	.195	3236	9	28	55
	3	2	14	29.40		11	20	56.1	7.32	6.94	.202	1124	9	29	28
	4	2	18	59.61		11	44	14.6	7.27	6.90	.208	8710	9	30	2
	5	2	23	30.72	+	12	7	20.3	7.23	6.86	1.215	5990	9	30	37
	6	2	28	2.77		12	30	12.6	7.19	6.82	.222	2963	9	31	13
	7	2	32	35.78		12	52	50.6	7.16	6.79	.228	9626	9	31	49
	8	2	37	9.76		13	15	13.8	7.12	6.75	.235	5975	9	32	27
	9	2	41	44.75		13	37	21.5	7.08	6.71	.242	2008	9	33	6
	10	2	46	20.76	+	13	59	13.0	7.04	6.68	1.248	7721	9	33	46
	11	2	50	57.81	+	14	20	47.6	7.01	6.64	1.255	3110	9	34	27

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DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JUN. 11	2	50	57.81	+14	20	47.6	7.01	6.64	1.255	3110	9	34	27
12	2	55	35.91	14	42	4.7	6.97	6.61	.261	8171	9	35	9
13	3	0	15.09	15	3	3.5	6.93	6.58	.268	2897	9	35	52
14	3	4	55.36	15	23	43.5	6.90	6.54	.274	7283	9	36	36
15	3	9	36.73	15	44	3.8	6.86	6.51	.281	1323	9	37	21
16	3	14	19.21	+16	4	3.8	6.83	6.48	1.287	5010	9	38	8
17	3	19	2.80	16	23	42.7	6.80	6.45	.293	8335	9	38	55
18	3	23	47.52	16	42	59.9	6.76	6.41	.300	1293	9	39	44
19	3	28	33.38	17	1	54.6	6.73	6.38	.306	3875	9	40	34
20	3	33	20.37	17	20	26.2	6.70	6.35	.312	6076	9	41	25
21	3	38	8.51	+17	38	34.0	6.67	6.32	1.318	7890	9	42	17
22	3	42	57.78	17	56	17.2	6.64	6.29	.324	9310	9	43	10
23	3	47	48.19	18	13	35.3	6.61	6.27	.331	0333	9	44	4
24	3	52	39.73	18	30	27.5	6.58	6.24	.337	0955	9	45	0
25	3	57	32.39	18	46	53.2	6.55	6.21	.343	1173	9	45	56
26	4	2	26.16	+19	2	51.7	6.52	6.18	1.349	0984	9	46	54
27	4	7	21.02	19	18	22.4	6.49	6.15	.355	0386	9	47	53
28	4	12	16.97	19	33	24.7	6.46	6.13	.360	9378	9	48	53
29	4	17	13.99	19	47	57.9	6.43	6.10	.366	7959	9	49	54
30	4	22	12.06	20	2	1.3	6.41	6.08	.372	6126	9	50	56
JUL. 1	4	27	11.18	+20	15	34.5	6.38	6.05	1.378	3879	9	51	59
2	4	32	11.31	20	28	36.8	6.35	6.03	.384	1216	9	53	3
3	4	37	12.44	20	41	7.7	6.33	6.00	.389	8136	9	54	8
4	4	42	14.56	20	53	6.5	6.30	5.98	.395	4639	9	55	14
5	4	47	17.64	21	4	32.9	6.28	5.95	.401	0722	9	56	21
6	4	52	21.65	+21	15	26.2	6.25	5.93	1.406	6384	9	57	29
7	4	57	26.58	21	25	46.0	6.23	5.91	.412	1624	9	58	37
8	5	2	32.39	21	35	31.7	6.20	5.88	.417	6439	9	59	47
9	5	7	39.05	21	44	43.0	6.18	5.86	.423	0829	10	0	58
10	5	12	46.53	21	53	19.3	6.16	5.84	.428	4790	10	2	9
11	5	17	54.80	+22	1	20.3	6.13	5.82	1.433	8320	10	3	21
12	5	23	3.82	22	8	45.5	6.11	5.80	.439	1413	10	4	34
13	5	28	13.56	22	15	34.4	6.09	5.77	.444	4067	10	5	47
14	5	33	23.97	22	21	46.7	6.07	5.75	.449	6274	10	7	2
15	5	38	35.01	22	27	22.1	6.04	5.73	.454	8030	10	8	16
16	5	43	46.65	+22	32	20.0	6.02	5.71	1.459	9328	10	9	32
17	5	48	58.83	22	36	40.3	6.00	5.69	.465	0161	10	10	48
18	5	54	11.53	22	40	22.7	5.98	5.67	.470	0524	10	12	4
19	5	59	24.68	22	43	26.8	5.96	5.65	.475	0411	10	13	21
20	6	4	38.24	22	45	52.4	5.94	5.64	.479	9816	10	14	38
21	6	9	52.16	+22	47	39.4	5.92	5.62	1.484	8736	10	15	56
22	6	15	6.38	+22	48	47.6	5.90	5.60	1.489	7167	10	17	14

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JUL. 22	6	15	6.38	+22	48	47.6	5.90	5.60	1.489	7167	10	17	14
23	6	20	20.85	22	49	16.7	5.88	5.58	.494	5105	10	18	32
24	6	25	35.52	22	49	6.8	5.87	5.56	.499	2549	10	19	50
25	6	30	50.31	22	48	17.6	5.85	5.55	.503	9495	10	21	8
26	6	36	5.20	22	46	49.1	5.83	5.53	.508	5944	10	22	27
27	6	41	20.11	+22	44	41.3	5.81	5.51	1.513	1893	10	23	45
28	6	46	35.00	22	41	54.2	5.79	5.50	.517	7343	10	25	3
29	6	51	49.81	22	38	27.7	5.78	5.48	.522	2292	10	26	22
30	6	57	4.50	22	34	21.9	5.76	5.46	.526	6741	10	27	40
31	7	2	19.01	22	29	37.0	5.74	5.45	.531	0690	10	28	58
AGO. 1	7	7	33.30	+22	24	12.9	5.73	5.43	1.535	4138	10	30	15
2	7	12	47.32	22	18	9.9	5.71	5.42	.539	7086	10	31	33
3	7	18	1.02	22	11	28.0	5.70	5.40	.543	9535	10	32	50
4	7	23	14.36	22	4	7.5	5.68	5.39	.548	1485	10	34	7
5	7	28	27.29	21	56	8.6	5.67	5.37	.552	2936	10	35	23
6	7	33	39.77	+21	47	31.6	5.65	5.36	1.556	3889	10	36	39
7	7	38	51.76	21	38	16.6	5.64	5.34	.560	4344	10	37	54
8	7	44	3.22	21	28	24.0	5.62	5.33	.564	4302	10	39	9
9	7	49	14.10	21	17	54.1	5.61	5.32	.568	3761	10	40	23
10	7	54	24.38	21	6	47.2	5.59	5.30	.572	2719	10	41	36
11	7	59	34.02	+20	55	3.5	5.58	5.29	1.576	1175	10	42	49
12	8	4	42.98	20	42	43.5	5.57	5.28	.579	9125	10	44	1
13	8	9	51.25	20	29	47.5	5.55	5.27	.583	6564	10	45	13
14	8	14	58.78	20	16	15.9	5.54	5.25	.587	3488	10	46	23
15	8	20	5.57	20	2	9.1	5.53	5.24	.590	9893	10	47	33
16	8	25	11.58	+19	47	27.6	5.52	5.23	1.594	5774	10	48	42
17	8	30	16.78	19	32	11.9	5.50	5.22	.598	1128	10	49	51
18	8	35	21.15	19	16	22.5	5.49	5.21	.601	5950	10	50	58
19	8	40	24.66	18	59	59.9	5.48	5.20	.605	0238	10	52	5
20	8	45	27.30	18	43	4.6	5.47	5.19	.608	3990	10	53	11
21	8	50	29.05	+18	25	37.2	5.46	5.17	1.611	7204	10	54	15
22	8	55	29.89	18	7	38.3	5.45	5.16	.614	9879	10	55	19
23	9	0	29.80	17	49	8.3	5.43	5.15	.618	2015	10	56	22
24	9	5	28.77	17	30	8.0	5.42	5.14	.621	3610	10	57	24
25	9	10	26.81	17	10	37.9	5.41	5.13	.624	4665	10	58	25
26	9	15	23.89	+16	50	38.6	5.40	5.12	1.627	5182	10	59	26
27	9	20	20.02	16	30	10.7	5.39	5.11	.630	5160	11	0	25
28	9	25	15.19	16	9	14.9	5.38	5.11	.633	4601	11	1	23
29	9	30	9.42	15	47	51.8	5.37	5.10	.636	3507	11	2	20
30	9	35	2.70	15	26	2.1	5.36	5.09	.639	1880	11	3	17
31	9	39	55.03	+15	3	46.5	5.36	5.08	1.641	9722	11	4	12
SET. 1	9	44	46.43	+14	41	5.5	5.35	5.07	1.644	7035	11	5	6

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DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
SET. 1	9	44	46.43	+14	41	5.5	5.35	5.07	1.644	7035	11	5	6
2	9	49	36.90	14	17	59.8	5.34	5.06	.647	3822	11	6	0
3	9	54	26.46	13	54	30.3	5.33	5.05	.650	0085	11	6	53
4	9	59	15.11	13	30	37.4	5.32	5.05	.652	5829	11	7	44
5	10	4	2.88	13	6	22.0	5.31	5.04	.655	1054	11	8	35
6	10	8	49.77	+12	41	44.7	5.31	5.03	1.657	5765	11	9	25
7	10	13	35.80	12	16	46.1	5.30	5.02	.659	9963	11	10	14
8	10	18	21.01	11	51	26.9	5.29	5.02	.662	3649	11	11	2
9	10	23	5.40	11	25	47.8	5.28	5.01	.664	6823	11	11	50
10	10	27	49.02	10	59	49.5	5.28	5.00	.666	9484	11	12	37
11	10	32	31.89	+10	33	32.6	5.27	5.00	1.669	1630	11	13	23
12	10	37	14.03	10	6	57.8	5.26	4.99	.671	3260	11	14	8
13	10	41	55.47	9	40	5.9	5.26	4.98	.673	4369	11	14	53
14	10	46	36.24	9	12	57.5	5.25	4.98	.675	4957	11	15	37
15	10	51	16.37	8	45	33.4	5.24	4.97	.677	5021	11	16	20
16	10	55	55.88	+ 8	17	54.2	5.24	4.97	1.679	4559	11	17	3
17	11	0	34.80	7	50	0.9	5.23	4.96	.681	3570	11	17	45
18	11	5	13.16	7	21	53.9	5.22	4.95	.683	2053	11	18	26
19	11	9	50.99	6	53	34.2	5.22	4.95	.685	0008	11	19	7
20	11	14	28.32	6	25	2.4	5.21	4.94	.686	7436	11	19	48
21	11	19	5.19	+ 5	56	19.2	5.21	4.94	1.688	4336	11	20	28
22	11	23	41.63	5	27	25.5	5.20	4.93	.690	0709	11	21	8
23	11	28	17.67	4	58	21.8	5.20	4.93	.691	6558	11	21	47
24	11	32	53.35	4	29	9.0	5.19	4.93	.693	1882	11	22	26
25	11	37	28.70	3	59	47.8	5.19	4.92	.694	6686	11	23	5
26	11	42	3.77	+ 3	30	18.9	5.18	4.92	1.696	0970	11	23	43
27	11	46	38.60	3	0	43.1	5.18	4.91	.697	4738	11	24	21
28	11	51	13.21	2	31	1.1	5.18	4.91	.698	7994	11	24	59
29	11	55	47.64	2	1	13.6	5.17	4.91	.700	0740	11	25	37
30	12	0	21.94	1	31	21.4	5.17	4.90	.701	2980	11	26	15
OUT. 1	12	4	56.15	+ 1	1	25.3	5.17	4.90	1.702	4719	11	26	52
2	12	9	30.29	0	31	25.9	5.16	4.90	.703	5962	11	27	30
3	12	14	4.41	+ 0	1	24.0	5.16	4.89	.704	6713	11	28	8
4	12	18	38.55	- 0	28	39.7	5.16	4.89	.705	6976	11	28	45
5	12	23	12.76	0	58	44.4	5.15	4.89	.706	6757	11	29	23
6	12	27	47.07	- 1	28	49.4	5.15	4.88	1.707	6059	11	30	1
7	12	32	21.53	1	58	54.0	5.15	4.88	.708	4885	11	30	39
8	12	36	56.20	2	28	57.5	5.14	4.88	.709	3237	11	31	17
9	12	41	31.10	2	58	59.2	5.14	4.88	.710	1118	11	31	56
10	12	46	6.30	3	28	58.4	5.14	4.87	.710	8525	11	32	34
11	12	50	41.82	- 3	58	54.3	5.14	4.87	1.711	5459	11	33	14
12	12	55	17.71	- 4	28	46.1	5.14	4.87	1.712	1920	11	33	53

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DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH			
	H	M	S	G	'	"			"	"	H	M	S	
OUT. 12	12	55	17.71	-	4	28	46.1	5.14	4.87	1.712	1920	11	33	53
13	12	59	54.01		4	58	33.2	5.13	4.87	.712	7905	11	34	33
14	13	4	30.76		5	28	14.7	5.13	4.87	.713	3414	11	35	13
15	13	9	8.00		5	57	49.8	5.13	4.87	.713	8447	11	35	54
16	13	13	45.77		6	27	17.8	5.13	4.86	.714	3003	11	36	36
17	13	18	24.10	-	6	56	38.0	5.13	4.86	1.714	7082	11	37	18
18	13	23	3.03		7	25	49.4	5.13	4.86	.715	0685	11	38	1
19	13	27	42.60		7	54	51.4	5.13	4.86	.715	3811	11	38	44
20	13	32	22.86		8	23	43.2	5.13	4.86	.715	6462	11	39	28
21	13	37	3.83		8	52	23.9	5.13	4.86	.715	8638	11	40	13
22	13	41	45.55	-	9	20	52.8	5.12	4.86	1.716	0342	11	40	59
23	13	46	28.06		9	49	9.1	5.12	4.86	.716	1575	11	41	45
24	13	51	11.40		10	17	12.0	5.12	4.86	.716	2339	11	42	32
25	13	55	55.58		10	45	0.7	5.12	4.86	.716	2636	11	43	20
26	14	0	40.65		11	12	34.4	5.12	4.86	.716	2471	11	44	9
27	14	5	26.64	-11	39	52.3		5.12	4.86	1.716	1845	11	44	59
28	14	10	13.57		12	6	53.6	5.12	4.86	.716	0762	11	45	50
29	14	15	1.47		12	33	37.4	5.13	4.86	.715	9228	11	46	42
30	14	19	50.36		13	0	3.0	5.13	4.86	.715	7246	11	47	35
31	14	24	40.28		13	26	9.5	5.13	4.86	.715	4822	11	48	29
NOV. 1	14	29	31.24	-13	51	56.2		5.13	4.86	1.715	1961	11	49	24
2	14	34	23.27		14	17	22.2	5.13	4.86	.714	8668	11	50	20
3	14	39	16.41		14	42	26.8	5.13	4.86	.714	4948	11	51	17
4	14	44	10.66		15	7	9.2	5.13	4.87	.714	0806	11	52	15
5	14	49	6.06		15	31	28.5	5.13	4.87	.713	6246	11	53	15
6	14	54	2.63	-15	55	24.1		5.13	4.87	1.713	1271	11	54	15
7	14	59	0.39		16	18	55.1	5.14	4.87	.712	5882	11	55	17
8	15	3	59.35		16	42	0.8	5.14	4.87	.712	0082	11	56	20
9	15	8	59.52		17	4	40.4	5.14	4.87	.711	3869	11	57	24
10	15	14	0.91		17	26	53.1	5.14	4.88	.710	7243	11	58	30
11	15	19	3.54	-17	48	38.1		5.14	4.88	1.710	0205	11	59	37
12	15	24	7.40		18	9	54.5	5.14	4.88	.709	2753	12	0	45
13	15	29	12.50		18	30	41.6	5.15	4.88	.708	4888	12	1	54
14	15	34	18.83		18	50	58.7	5.15	4.88	.707	6607	12	3	4
15	15	39	26.41		19	10	44.9	5.15	4.89	.706	7912	12	4	16
16	15	44	35.22	-19	29	59.5		5.16	4.89	1.705	8802	12	5	29
17	15	49	45.25		19	48	41.7	5.16	4.89	.704	9277	12	6	43
18	15	54	56.51		20	6	50.8	5.16	4.89	.703	9336	12	7	58
19	16	0	8.96		20	24	26.0	5.16	4.90	.702	8980	12	9	15
20	16	5	22.60		20	41	26.7	5.17	4.90	.701	8210	12	10	33
21	16	10	37.41	-20	57	52.2		5.17	4.90	1.700	7026	12	11	52
22	16	15	53.36		21	13	41.7	5.17	4.91	1.699	5429	12	13	12

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
NOV. 22	16	15	53.36	-21	13	41.7	5.17	4.91	1.699	5429	12	13	12
23	16	21	10.43	21	28	54.6	5.18	4.91	.698	3420	12	14	33
24	16	26	28.59	21	43	30.2	5.18	4.91	.697	1001	12	15	55
25	16	31	47.79	21	57	28.0	5.19	4.92	.695	8175	12	17	18
26	16	37	8.01	22	10	47.2	5.19	4.92	.694	4944	12	18	43
27	16	42	29.21	-22	23	27.3	5.19	4.93	1.693	1313	12	20	8
28	16	47	51.34	22	35	27.7	5.20	4.93	.691	7284	12	21	34
29	16	53	14.38	22	46	47.9	5.20	4.93	.690	2862	12	23	1
30	16	58	38.26	22	57	27.3	5.21	4.94	.688	8052	12	24	29
DEZ. 1	17	4	2.95	23	7	25.5	5.21	4.94	.687	2859	12	25	57
2	17	9	28.41	-23	16	41.9	5.22	4.95	1.685	7286	12	27	27
3	17	14	54.59	23	25	16.3	5.22	4.95	.684	1339	12	28	57
4	17	20	21.44	23	33	8.1	5.23	4.96	.682	5019	12	30	28
5	17	25	48.90	23	40	17.1	5.23	4.96	.680	8332	12	31	59
6	17	31	16.92	23	46	42.9	5.24	4.97	.679	1277	12	33	31
7	17	36	45.45	-23	52	25.1	5.24	4.97	1.677	3856	12	35	3
8	17	42	14.42	23	57	23.5	5.25	4.98	.675	6070	12	36	36
9	17	47	43.77	24	1	37.9	5.25	4.98	.673	7917	12	38	9
10	17	53	13.45	24	5	7.9	5.26	4.99	.671	9398	12	39	42
11	17	58	43.38	24	7	53.4	5.27	4.99	.670	0510	12	41	16
12	18	4	13.51	-24	9	54.1	5.27	5.00	1.668	1254	12	42	49
13	18	9	43.78	24	11	10.1	5.28	5.01	.666	1627	12	44	23
14	18	15	14.11	24	11	41.1	5.28	5.01	.664	1628	12	45	57
15	18	20	44.45	24	11	27.2	5.29	5.02	.662	1256	12	47	31
16	18	26	14.73	24	10	28.3	5.30	5.02	.660	0510	12	49	5
17	18	31	44.88	-24	8	44.4	5.30	5.03	1.657	9387	12	50	38
18	18	37	14.84	24	6	15.6	5.31	5.04	.655	7887	12	52	12
19	18	42	44.53	24	3	2.0	5.32	5.04	.653	6009	12	53	45
20	18	48	13.90	23	59	3.8	5.33	5.05	.651	3750	12	55	18
21	18	53	42.87	23	54	21.0	5.33	5.06	.649	1110	12	56	50
22	18	59	11.39	-23	48	53.9	5.34	5.06	1.646	8088	12	58	22
23	19	4	39.37	23	42	42.8	5.35	5.07	.644	4685	12	59	53
24	19	10	6.76	23	35	47.8	5.36	5.08	.642	0901	13	1	23
25	19	15	33.50	23	28	9.4	5.36	5.09	.639	6737	13	2	53
26	19	20	59.52	23	19	47.8	5.37	5.09	.637	2195	13	4	22
27	19	26	24.77	-23	10	43.4	5.38	5.10	1.634	7278	13	5	51
28	19	31	49.20	23	0	56.6	5.39	5.11	.632	1989	13	7	18
29	19	37	12.76	22	50	27.7	5.40	5.12	.629	6331	13	8	45
30	19	42	35.40	22	39	17.4	5.41	5.13	.627	0307	13	10	10
31	19	47	57.08	22	27	26.0	5.41	5.13	.624	3921	13	11	35
32	19	53	17.76	-22	14	54.1	5.42	5.14	1.621	7175	13	12	59

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JAN. 0	2	31	39.44	+16	31	52.5	11.47	6.10	0.766	6776	19	51	5
4	2	35	36.31	16	53	56.4	10.98	5.84	.801	0032	19	39	24
8	2	40	6.95	17	17	44.5	10.52	5.60	.836	2711	19	28	16
12	2	45	8.44	17	42	57.4	10.08	5.36	.872	3602	19	17	38
16	2	50	37.98	18	9	16.0	9.67	5.15	.909	1770	19	7	28
20	2	56	33.20	+18	36	23.0	9.29	4.94	0.946	6451	18	57	43
24	3	2	52.20	19	4	2.8	8.93	4.75	0.984	6939	18	48	21
28	3	9	33.41	19	32	1.9	8.59	4.57	1.023	2508	18	39	21
FEV. 1	3	16	35.33	20	0	6.6	8.28	4.41	.062	2309	18	30	41
5	3	23	56.44	20	28	2.0	7.98	4.25	.101	5383	18	22	20
9	3	31	35.18	+20	55	34.1	7.71	4.10	1.141	0926	18	14	17
13	3	39	30.01	21	22	29.4	7.45	3.96	.180	8360	18	6	29
17	3	47	39.67	21	48	35.7	7.20	3.83	.220	7230	17	58	56
21	3	56	3.21	22	13	42.4	6.98	3.71	.260	7116	17	51	36
25	4	4	39.83	22	37	40.1	6.76	3.60	.300	7559	17	44	29
MAR. 1	4	13	28.74	+23	0	19.6	6.56	3.49	1.340	7961	17	37	35
5	4	22	29.11	23	21	30.9	6.37	3.39	.380	7580	17	30	51
9	4	31	39.95	23	41	5.0	6.19	3.29	.420	5786	17	24	18
13	4	41	0.19	23	58	53.6	6.02	3.21	.460	2159	17	17	54
17	4	50	28.96	24	14	48.9	5.86	3.12	.499	6396	17	11	39
21	5	0	5.59	+24	28	44.7	5.71	3.04	1.538	8232	17	5	31
25	5	9	49.47	24	40	35.7	5.57	2.97	1.577	7360	16	59	30
29	5	19	39.98	24	50	16.4	5.44	2.90	1.616	3338	16	53	36
ABR. 2	5	29	36.50	24	57	41.3	5.32	2.83	1.654	5566	16	47	47
6	5	39	38.22	25	2	46.2	5.20	2.77	1.692	3512	16	42	4
10	5	49	44.17	+25	5	27.4	5.08	2.71	1.729	6849	16	36	25
14	5	59	53.62	25	5	41.8	4.98	2.65	1.766	5371	16	30	49
18	6	10	5.97	25	3	27.2	4.88	2.60	1.802	8924	16	25	16
22	6	20	20.68	24	58	42.4	4.78	2.55	1.838	7322	16	19	45
26	6	30	37.22	24	51	25.9	4.69	2.50	1.874	0239	16	14	16
30	6	40	55.13	+24	41	36.4	4.61	2.45	1.908	7191	16	8	48
MAIO 4	6	51	13.74	+24	29	14.1	4.53	2.41	1.942	7726	16	3	21

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
MAIO 4	6	51	13.74	+24	29	14.1	4.53	2.41	1.942	7726	16	3	21
8	7	1	32.29	24	14	19.7	4.45	2.37	1.976	1577	15	57	53
12	7	11	50.21	23	56	54.1	4.38	2.33	2.008	8611	15	52	25
16	7	22	7.09	23	36	58.9	4.31	2.29	.040	8758	15	46	56
20	7	32	22.58	23	14	36.5	4.24	2.26	.072	1938	15	41	25
24	7	42	36.37	+22	49	48.5	4.18	2.23	2.102	7923	15	35	53
28	7	52	48.28	22	22	36.8	4.12	2.19	.132	6324	15	30	19
JUN. 1	8	2	57.91	21	53	4.9	4.07	2.16	.161	6757	15	24	42
5	8	13	4.83	21	21	16.5	4.02	2.14	.189	9002	15	19	2
9	8	23	8.78	20	47	15.3	3.97	2.11	.217	2972	15	13	20
13	8	33	9.63	+20	11	5.5	3.92	2.09	2.243	8667	15	7	34
17	8	43	7.29	19	32	51.3	3.87	2.06	.269	6095	15	1	46
21	8	53	1.77	18	52	36.2	3.83	2.04	.294	5116	14	55	54
25	9	2	53.18	18	10	23.8	3.79	2.02	.318	5416	14	49	59
29	9	12	41.47	17	26	19.3	3.76	2.00	.341	6675	14	44	1
JUL. 3	9	22	26.51	+16	40	27.7	3.72	1.98	2.363	8706	14	37	60
7	9	32	8.35	15	52	54.0	3.69	1.96	.385	1458	14	31	55
11	9	41	47.11	15	3	43.5	3.66	1.95	.405	4979	14	25	48
15	9	51	22.94	14	13	1.3	3.63	1.93	.424	9354	14	19	37
19	10	0	56.10	13	20	51.3	3.60	1.92	.443	4527	14	13	24
23	10	10	26.95	+12	27	17.8	3.57	1.90	2.461	0251	14	7	9
27	10	19	55.65	11	32	26.4	3.55	1.89	2.477	6261	14	0	51
31	10	29	22.33	10	36	22.8	3.53	1.88	2.493	2404	13	54	32
AGO. 4	10	38	47.24	9	39	12.3	3.51	1.87	2.507	8657	13	48	11
8	10	48	10.68	8	41	0.5	3.49	1.86	2.521	5107	13	41	48
12	10	57	32.91	+ 7	41	53.0	3.47	1.85	2.534	1906	13	35	25
16	11	6	54.38	6	41	53.9	3.45	1.84	2.545	9085	13	29	0
20	11	16	15.59	5	41	7.8	3.44	1.83	2.556	6467	13	22	36
24	11	25	36.82	4	39	40.5	3.43	1.82	2.566	3844	13	16	11
28	11	34	58.38	3	37	38.0	3.42	1.82	2.575	1100	13	9	47
SET. 1	11	44	20.63	+ 2	35	6.1	3.40	1.81	2.582	8243	13	3	23
5	11	53	43.94	+ 1	32	11.0	3.40	1.81	2.589	5400	12	57	1

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH			
	H	M	S	G	'	"			"	"	H	M	S	
SET. 5	11	53	43.94	+	1	32	11.0	3.40	1.81	2.589	5400	12	57	1
9	12	3	8.64	+	0	28	58.7	3.39	1.80	.595	2786	12	50	40
13	12	12	35.29	-	0	34	26.0	3.38	1.80	.600	0529	12	44	21
17	12	22	4.44		1	37	57.9	3.38	1.80	.603	8537	12	38	5
21	12	31	36.46		2	41	30.5	3.37	1.80	.606	6664	12	31	52
25	12	41	11.73	-	3	44	57.1	3.37	1.79	2.608	4846	12	25	42
29	12	50	50.67		4	48	10.8	3.37	1.79	.609	3130	12	19	35
OUT. 3	13	0	33.65		5	51	4.5	3.37	1.79	.609	1693	12	13	33
7	13	10	21.03		6	53	31.0	3.37	1.79	.608	0815	12	7	35
11	13	20	13.39		7	55	24.3	3.37	1.80	.606	0732	12	1	42
15	13	30	11.25	-	8	56	37.8	3.38	1.80	2.603	1457	11	55	55
19	13	40	15.00		9	57	3.8	3.38	1.80	.599	2924	11	50	14
23	13	50	25.04		10	56	34.1	3.39	1.80	.594	5130	11	44	39
27	14	0	41.72		11	55	0.5	3.40	1.81	.588	8175	11	39	10
31	14	11	5.31		12	52	14.4	3.41	1.81	.582	2296	11	33	49
NOV. 4	14	21	36.09	-	13	48	6.7	3.42	1.82	2.574	7849	11	28	34
8	14	32	14.54		14	42	29.9	3.43	1.82	.566	5172	11	23	28
12	14	43	1.01		15	35	15.8	3.44	1.83	.557	4408	11	18	29
16	14	53	55.77		16	26	15.2	3.45	1.84	.547	5582	11	13	39
20	15	4	59.03		17	15	18.4	3.47	1.84	.536	8760	11	8	57
24	15	16	10.92	-	18	2	15.9	3.48	1.85	2.525	4101	11	4	24
28	15	27	31.41		18	46	58.1	3.50	1.86	2.513	1899	11	0	0
DEZ. 2	15	39	0.46		19	29	15.0	3.52	1.87	2.500	2583	10	55	44
6	15	50	38.21		20	8	57.9	3.54	1.88	2.486	6589	10	51	36
10	16	2	24.64		20	45	58.2	3.56	1.89	2.472	4178	10	47	38
14	16	14	19.61	-	21	20	6.4	3.58	1.90	2.457	5475	10	43	47
18	16	26	22.94		21	51	13.2	3.60	1.92	2.442	0608	10	40	6
22	16	38	34.25		22	19	9.9	3.62	1.93	2.425	9774	10	36	32
26	16	50	52.97		22	43	48.2	3.65	1.94	2.409	3300	10	33	5
30	17	3	18.56		23	4	60.0	3.68	1.96	2.392	1671	10	29	45
34	17	15	50.59	-	23	22	38.7	3.70	1.97	2.374	5386	10	26	32

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JAN. 0	14	44	6.67	-14	44	25.3	1.48	16.62	5.924	4072	8	4	55
4	14	46	38.46	14	55	25.6	1.50	16.77	.868	9831	7	51	42
8	14	49	3.56	15	5	46.2	1.51	16.94	.811	6368	7	38	22
12	14	51	21.60	15	15	26.4	1.53	17.11	.752	5716	7	24	55
16	14	53	32.11	15	24	25.8	1.55	17.29	.691	9815	7	11	20
20	14	55	34.58	-15	32	42.9	1.56	17.48	5.630	0612	6	57	38
24	14	57	28.56	15	40	16.6	1.58	17.68	.567	0161	6	43	47
28	14	59	13.56	15	47	6.2	1.60	17.89	.503	0713	6	29	47
FEV. 1	15	0	49.01	15	53	10.5	1.62	18.10	.438	4809	6	15	38
5	15	2	14.44	15	58	28.3	1.64	18.32	.373	5241	6	1	19
9	15	3	29.54	-16	2	59.7	1.66	18.54	5.308	4757	5	46	49
13	15	4	33.91	16	6	44.3	1.68	18.77	.243	5983	5	32	9
17	15	5	27.17	16	9	41.3	1.70	19.01	.179	1532	5	17	18
21	15	6	9.05	16	11	50.0	1.72	19.24	.115	4100	5	2	15
25	15	6	39.25	16	13	10.4	1.74	19.48	5.052	6541	4	47	1
MAR. 1	15	6	57.43	-16	13	41.8	1.76	19.72	4.991	1949	4	31	35
5	15	7	3.49	16	13	23.9	1.78	19.96	.931	3577	4	15	57
9	15	6	57.48	16	12	17.9	1.80	20.20	.873	4527	4	0	6
13	15	6	39.43	16	10	24.3	1.83	20.43	.817	7680	3	44	4
17	15	6	9.47	16	7	43.4	1.85	20.66	.764	5816	3	27	51
21	15	5	27.88	-16	4	16.3	1.87	20.88	4.714	1691	3	11	25
25	15	4	34.98	16	0	4.4	1.88	21.09	4.666	8107	2	54	49
29	15	3	31.10	15	55	8.9	1.90	21.29	4.622	7945	2	38	1
ABR. 2	15	2	16.92	15	49	32.0	1.92	21.48	4.582	4045	2	21	3
6	15	0	53.26	15	43	17.2	1.93	21.65	4.545	8882	2	3	56
10	14	59	20.96	-15	36	27.8	1.95	21.81	4.513	4525	1	46	41
14	14	57	40.99	15	29	6.9	1.96	21.95	4.485	2765	1	29	18
18	14	55	54.44	15	21	18.9	1.97	22.06	4.461	5193	1	11	48
22	14	54	2.39	15	13	8.2	1.98	22.16	4.442	3266	0	54	13
26	14	52	5.98	15	4	39.2	1.99	22.23	4.427	8319	0	36	34
30	14	50	6.60	-14	55	57.7	1.99	22.28	4.418	1398	0	18	51
MAIO 4	14	48	5.68	-14	47	10.3	1.99	22.31	4.413	2995	0	1	7

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
MAIO 4	14	48	5.68	-14	47	10.3	1.99	22.31	4.413	2995	0	1	7
7	14	46	34.78	14	40	34.3	1.99	22.31	.412	8525	23	43	23
11	14	44	34.38	14	31	50.4	1.99	22.29	.416	4717	23	25	40
15	14	42	36.14	14	23	16.8	1.99	22.25	.424	8523	23	8	0
19	14	40	41.25	14	14	59.5	1.98	22.18	.437	9170	22	50	23
23	14	38	50.84	-14	7	3.5	1.97	22.09	4.455	5755	22	32	51
27	14	37	6.12	13	59	34.9	1.96	21.98	.477	7107	22	15	24
31	14	35	28.25	13	52	39.7	1.95	21.86	.504	1585	21	58	5
JUN. 4	14	33	58.12	13	46	22.5	1.94	21.71	.534	7110	21	40	54
8	14	32	36.58	13	40	47.2	1.92	21.54	.569	1374	21	23	51
12	14	31	24.36	-13	35	57.6	1.91	21.37	4.607	1972	21	6	58
16	14	30	21.95	13	31	56.6	1.89	21.18	.648	6518	20	50	14
20	14	29	29.76	13	28	46.1	1.87	20.97	.693	2674	20	33	41
24	14	28	48.29	13	26	28.6	1.85	20.76	.740	7976	20	17	18
28	14	28	17.86	13	25	6.1	1.84	20.55	.790	9671	20	1	7
JUL. 2	14	27	58.63	-13	24	39.2	1.82	20.32	4.843	4816	19	45	6
6	14	27	50.70	13	25	7.8	1.80	20.10	.898	0456	19	29	17
10	14	27	54.10	13	26	31.8	1.78	19.87	4.954	3740	19	13	39
14	14	28	8.66	13	28	50.4	1.75	19.64	5.012	2005	18	58	12
18	14	28	34.22	13	32	2.0	1.73	19.41	.071	2782	18	42	56
22	14	29	10.76	-13	36	6.1	1.71	19.18	5.131	3553	18	27	51
26	14	29	58.08	13	41	1.4	1.69	18.96	5.192	1629	18	12	56
30	14	30	55.92	13	46	45.9	1.67	18.74	5.253	4272	17	58	12
AGO. 3	14	32	4.04	13	53	17.1	1.65	18.52	5.314	8834	17	43	38
7	14	33	22.12	14	0	33.1	1.64	18.31	5.376	2849	17	29	14
11	14	34	49.77	-14	8	31.0	1.62	18.10	5.437	4098	17	14	59
15	14	36	26.62	14	17	8.1	1.60	17.90	5.498	0584	17	0	53
19	14	38	12.49	14	26	22.5	1.58	17.71	5.558	0263	16	46	57
23	14	40	7.02	14	36	11.9	1.57	17.53	5.617	0948	16	33	8
27	14	42	9.86	14	46	33.2	1.55	17.35	5.675	0448	16	19	28
31	14	44	20.68	-14	57	23.8	1.53	17.17	5.731	6689	16	5	56
SET. 4	14	46	39.13	-15	8	41.0	1.52	17.01	5.786	7787	15	52	32

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
SET. 4	14	46	39.13	-15	8	41.0	1.52	17.01	5.786	7787	15	52	32
8	14	49	4.76	15	20	21.7	1.51	16.86	.840	2107	15	39	14
12	14	51	37.23	15	32	23.1	1.49	16.71	.891	8221	15	26	3
16	14	54	16.32	15	44	43.3	1.48	16.57	.941	4636	15	12	59
20	14	57	1.67	15	57	19.8	1.47	16.44	5.988	9714	15	0	1
24	14	59	52.95	-16	10	9.7	1.46	16.31	6.034	1831	14	47	8
28	15	2	49.85	16	23	10.5	1.45	16.20	.076	9484	14	34	22
OUT. 2	15	5	52.02	16	36	19.8	1.44	16.09	.117	1363	14	21	40
6	15	8	59.02	16	49	34.8	1.43	15.99	.154	6399	14	9	3
10	15	12	10.58	17	2	53.0	1.42	15.90	.189	3713	13	56	31
14	15	15	26.45	-17	16	12.9	1.41	15.82	6.221	2355	13	44	3
18	15	18	46.29	17	29	32.3	1.41	15.75	.250	1232	13	31	38
22	15	22	9.79	17	42	48.7	1.40	15.69	.275	9279	13	19	18
26	15	25	36.65	17	56	0.0	1.40	15.63	.298	5564	13	7	0
30	15	29	6.49	18	9	4.5	1.39	15.58	.317	9354	12	54	46
NOV. 3	15	32	38.89	-18	21	59.7	1.39	15.54	6.334	0165	12	42	34
7	15	36	13.59	18	34	43.8	1.39	15.51	.346	7686	12	30	24
11	15	39	50.31	18	47	15.8	1.38	15.49	.356	1547	12	18	17
15	15	43	28.69	18	59	34.0	1.38	15.47	.362	1243	12	6	10
19	15	47	8.40	19	11	36.3	1.38	15.47	.364	6316	11	54	6
23	15	50	49.12	-19	23	21.6	1.38	15.47	6.363	6452	11	42	2
27	15	54	30.43	19	34	48.6	1.38	15.48	6.359	1557	11	29	58
DEZ. 1	15	58	11.87	19	45	55.5	1.38	15.50	6.351	1796	11	17	55
5	16	1	53.16	19	56	41.3	1.39	15.53	6.339	7498	11	5	52
9	16	5	33.96	20	7	5.7	1.39	15.56	6.324	8936	10	53	48
13	16	9	13.86	-20	17	7.4	1.39	15.61	6.306	6275	10	41	43
17	16	12	52.51	20	26	45.5	1.40	15.66	6.284	9733	10	29	36
21	16	16	29.51	20	35	59.4	1.40	15.73	6.259	9688	10	17	28
25	16	20	4.38	20	44	48.7	1.41	15.80	6.231	6749	10	5	18
29	16	23	36.60	20	53	12.3	1.42	15.88	6.200	1806	9	53	6
33	16	27	5.86	-21	1	10.2	1.43	15.97	6.165	5893	9	40	50

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA	P. MERID. GREENWICH			
	H	M	S	G	'	"				"	"	H	M
JAN. 0	8	50	26.26	+18	20	49.2	1.07	10.03	8.246	5981	2	11	58
4	8	49	22.01	18	25	39.3	1.07	10.07	.215	2094	1	55	10
8	8	48	13.51	18	30	43.4	1.07	10.10	.188	3679	1	38	18
12	8	47	1.44	18	35	58.2	1.08	10.13	.166	2258	1	21	23
16	8	45	46.44	18	41	21.5	1.08	10.15	.148	9067	1	4	25
20	8	44	29.09	+18	46	50.2	1.08	10.17	8.136	5163	0	47	24
24	8	43	10.12	18	52	21.2	1.08	10.18	.129	1429	0	30	22
28	8	41	50.31	18	57	51.6	1.08	10.18	.126	8518	0	13	19
31	8	40	50.32	19	1	57.5	1.08	10.18	.128	4895	23	56	16
FEV. 4	8	39	30.75	19	7	20.2	1.08	10.17	.135	1337	23	39	13
8	8	38	12.45	+19	12	33.9	1.08	10.15	8.146	8095	23	22	12
12	8	36	56.11	19	17	36.6	1.08	10.13	.163	4156	23	5	13
16	8	35	42.34	19	22	26.0	1.07	10.11	.184	8333	22	48	17
20	8	34	31.81	19	26	59.8	1.07	10.08	.210	9284	22	31	24
24	8	33	25.21	19	31	16.0	1.07	10.04	.241	5487	22	14	35
28	8	32	23.07	+19	35	13.4	1.06	10.00	8.276	5166	21	57	51
MAR. 4	8	31	25.94	19	38	49.8	1.06	9.95	.315	6107	21	41	12
8	8	30	34.41	19	42	3.6	1.05	9.90	.358	5661	21	24	38
12	8	29	48.82	19	44	54.5	1.05	9.84	.405	1047	21	8	10
16	8	29	9.46	19	47	21.4	1.04	9.78	.454	9495	20	51	49
20	8	28	36.66	+19	49	23.6	1.03	9.72	8.507	8247	20	35	34
24	8	28	10.69	19	51	0.7	1.03	9.66	.563	4529	20	19	26
28	8	27	51.70	19	52	12.6	1.02	9.60	.621	5461	20	3	25
ABR. 1	8	27	39.84	19	52	58.6	1.01	9.53	.681	7902	19	47	31
5	8	27	35.30	19	53	18.6	1.01	9.46	.743	8486	19	31	45
9	8	27	37.99	+19	53	13.0	1.00	9.39	8.807	3932	19	16	5
13	8	27	47.86	19	52	41.9	0.99	9.32	.872	1140	19	0	33
17	8	28	4.89	19	51	45.4	0.98	9.26	8.937	7176	18	45	8
21	8	28	28.99	19	50	24.0	0.98	9.19	9.003	9218	18	29	49
25	8	29	0.00	19	48	38.3	0.97	9.12	.070	4433	18	14	38
29	8	29	37.82	+19	46	27.9	0.96	9.05	9.136	9839	17	59	33
MAIO 3	8	30	22.32	+19	43	53.5	0.96	8.99	9.203	2380	17	44	35

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA	P. MERID. GREENWICH			
	H	M	S	G	'	"				"	"	H	M
ABR. 25	8	29	0.00	+19	48	38.3	0.97	9.12	9.070	4433	18	14	38
29	8	29	37.82	19	46	27.9	0.96	9.05	.136	9839	17	59	33
MAIO 3	8	30	22.32	19	43	53.5	0.96	8.99	.203	2380	17	44	35
7	8	31	13.21	19	40	55.9	0.95	8.93	.268	9191	17	29	43
11	8	32	10.23	19	37	35.5	0.94	8.86	.333	7678	17	14	57
15	8	33	13.17	+19	33	52.7	0.94	8.80	9.397	5467	17	0	17
19	8	34	21.81	19	29	48.4	0.93	8.75	.460	0343	16	45	43
23	8	35	35.82	19	25	23.2	0.92	8.69	.521	0095	16	31	14
27	8	36	55.02	19	20	37.0	0.92	8.64	.580	2399	16	16	50
31	8	38	19.16	19	15	30.8	0.91	8.58	.637	4928	16	2	30
JUN. 4	8	39	47.87	+19	10	5.5	0.91	8.54	9.692	5584	15	48	16
8	8	41	20.84	19	4	21.6	0.90	8.49	.745	2547	15	34	5
12	8	42	57.84	18	58	19.8	0.90	8.45	.795	4227	15	19	59
16	8	44	38.57	18	52	1.1	0.89	8.41	.842	9187	15	5	56
20	8	46	22.70	18	45	26.2	0.89	8.37	.887	5972	14	51	56
24	8	48	10.05	+18	38	35.2	0.89	8.33	9.929	3011	14	38	0
28	8	50	0.33	18	31	29.3	0.88	8.30	9.967	8770	14	24	6
JUL. 2	8	51	53.17	18	24	9.7	0.88	8.27	10.003	1953	14	10	15
6	8	53	48.29	18	16	36.9	0.88	8.24	.035	1528	13	56	26
10	8	55	45.45	18	8	51.8	0.87	8.22	.063	6678	13	42	40
14	8	57	44.35	+18	0	55.8	0.87	8.20	10.088	6732	13	28	54
18	8	59	44.69	17	52	49.6	0.87	8.18	.110	0968	13	15	11
22	9	1	46.31	17	44	33.7	0.87	8.17	.127	8548	13	1	28
26	9	3	48.90	17	36	9.6	0.87	8.16	.141	8702	12	47	47
30	9	5	52.12	17	27	38.5	0.87	8.15	.152	0906	12	34	6
AGO. 3	9	7	55.71	+17	19	1.3	0.87	8.14	10.158	4889	12	20	25
7	9	9	59.45	17	10	19.3	0.87	8.14	.161	0591	12	6	45
11	9	12	3.02	17	1	34.2	0.87	8.14	.159	8083	11	53	4
15	9	14	6.17	16	52	46.6	0.87	8.15	.154	7380	11	39	23
19	9	16	8.73	16	43	57.5	0.87	8.15	.145	8376	11	25	41
23	9	18	10.37	+16	35	8.9	0.87	8.16	10.133	1080	11	11	58
27	9	20	10.78	+16	26	22.1	0.87	8.18	10.116	5759	10	58	14

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
AGO. 27	9	20	10.78	+16	26	22.1	0.87	8.18	10.116	5759	10	58	14
31	9	22	9.70	16	17	38.4	0.87	8.19	.096	2938	10	44	29
SET. 4	9	24	6.91	16	8	59.4	0.87	8.21	.072	3353	10	30	41
8	9	26	2.08	16	0	26.9	0.88	8.24	.044	7870	10	16	52
12	9	27	54.97	15	52	1.9	0.88	8.26	10.013	7299	10	3	0
16	9	29	45.41	+15	43	45.9	0.88	8.29	9.979	2346	9	49	6
20	9	31	33.04	15	35	40.9	0.88	8.32	.941	3871	9	35	10
24	9	33	17.55	15	27	48.6	0.89	8.36	.900	3022	9	21	10
28	9	34	58.70	15	20	10.4	0.89	8.39	.856	1211	9	7	6
OUT. 2	9	36	36.23	15	12	48.4	0.90	8.43	.809	0069	8	52	59
6	9	38	9.82	+15	5	44.3	0.90	8.48	9.759	1350	8	38	48
10	9	39	39.25	14	58	59.4	0.91	8.52	.706	6755	8	24	33
14	9	41	4.32	14	52	35.2	0.91	8.57	.651	7903	8	10	14
18	9	42	24.68	14	46	33.8	0.92	8.62	.594	6598	7	55	50
22	9	43	40.04	14	40	57.0	0.92	8.68	.535	4946	7	41	21
26	9	44	50.18	+14	35	46.2	0.93	8.73	9.474	5323	7	26	47
30	9	45	54.84	14	31	3.2	0.93	8.79	.412	0309	7	12	7
NOV. 3	9	46	53.75	14	26	49.6	0.94	8.85	.348	2578	6	57	21
7	9	47	46.75	14	23	6.2	0.95	8.91	.283	4727	6	42	30
11	9	48	33.67	14	19	54.4	0.95	8.97	.217	9272	6	27	33
15	9	49	14.22	+14	17	15.8	0.96	9.04	9.151	8911	6	12	29
19	9	49	48.22	14	15	11.2	0.97	9.11	.085	6617	5	57	19
23	9	50	15.55	14	13	41.7	0.98	9.17	9.019	5586	5	42	2
27	9	50	36.06	14	12	48.0	0.98	9.24	8.953	9157	5	26	38
DEZ. 1	9	50	49.61	14	12	30.8	0.99	9.31	.889	0667	5	11	7
5	9	50	56.25	+14	12	49.4	1.00	9.37	8.825	3283	4	55	30
9	9	50	55.96	14	13	44.2	1.00	9.44	.763	0037	4	39	46
13	9	50	48.67	14	15	15.3	1.01	9.51	.702	4062	4	23	55
17	9	50	34.43	14	17	21.9	1.02	9.57	.643	8660	4	7	56
21	9	50	13.38	14	20	3.2	1.02	9.63	.587	7217	3	51	52
25	9	49	45.66	+14	23	18.4	1.03	9.69	8.534	3111	3	35	40
29	9	49	11.46	+14	27	5.7	1.04	9.75	8.483	9525	3	19	22

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JAN. 0	22	38	35.63	- 9	23	6.9	0.43	1.70	20.574	202	15	57	58
10	22	40	3.80	9	14	2.3	0.42	1.69	.713	367	15	20	8
20	22	41	45.01	9	3	41.0	0.42	1.68	.833	337	14	42	30
30	22	43	36.95	8	52	16.2	0.42	1.67	20.930	994	14	5	3
FEV. 9	22	45	37.05	8	40	3.0	0.42	1.67	21.003	608	13	27	44
19	22	47	42.57	- 8	27	17.9	0.42	1.66	21.049	515	12	50	30
MAR. 1	22	49	50.97	8	14	15.9	0.42	1.66	.067	704	12	13	18
11	22	51	59.42	8	1	14.1	0.42	1.66	.057	751	11	36	7
21	22	54	5.22	7	48	29.5	0.42	1.67	21.020	318	10	58	53
31	22	56	5.98	7	36	16.5	0.42	1.67	20.956	509	10	21	34
ABR. 10	22	57	59.14	- 7	24	51.4	0.42	1.68	20.868	109	9	44	7
20	22	59	42.42	7	14	28.4	0.42	1.69	.757	755	9	6	30
30	23	1	13.83	7	5	20.3	0.43	1.70	.628	298	8	28	41
MAIO 10	23	2	31.42	6	57	39.3	0.43	1.71	.483	274	7	50	39
20	23	3	33.72	6	51	34.5	0.43	1.72	.326	689	7	12	21
30	23	4	19.41	- 6	47	14.1	0.44	1.74	20.162	582	6	33	47
JUN. 9	23	4	47.54	6	44	44.0	0.44	1.75	19.995	562	5	54	56
19	23	4	57.82	6	44	5.4	0.44	1.77	.830	243	5	15	46
29	23	4	50.11	6	45	18.3	0.45	1.78	.671	130	4	36	19
JUL. 9	23	4	24.87	6	48	19.4	0.45	1.79	.522	986	3	56	34
19	23	3	43.32	- 6	52	59.9	0.45	1.81	19.390	081	3	16	34
29	23	2	46.96	6	59	9.5	0.46	1.82	.276	405	2	36	18
AGO. 8	23	1	38.00	7	6	33.2	0.46	1.83	.185	688	1	55	51
18	23	0	19.17	7	14	53.2	0.46	1.83	.120	713	1	15	13
28	22	58	53.51	7	23	49.9	0.46	1.84	.083	777	0	34	29
SET. 6	22	57	33.57	- 7	32	5.1	0.46	1.84	19.075	746	23	53	41
16	22	56	4.87	7	41	8.5	0.46	1.83	.095	127	23	12	54
26	22	54	39.81	7	49	43.5	0.46	1.83	.144	041	22	32	11
OUT. 6	22	53	22.19	7	57	27.0	0.46	1.82	.221	131	21	51	36
16	22	52	15.22	8	4	0.1	0.46	1.81	.323	954	21	11	11
26	22	51	21.72	- 8	9	6.8	0.45	1.80	19.449	557	20	31	0
NOV. 5	22	50	44.24	- 8	12	32.6	0.45	1.79	19.593	950	19	51	5
15	22	50	24.42	8	14	8.7	0.45	1.77	.752	610	19	11	28
25	22	50	23.33	8	13	49.6	0.44	1.76	19.920	807	18	32	9
DEZ. 5	22	50	41.45	8	11	33.1	0.44	1.74	20.093	216	17	53	9
15	22	51	18.47	8	7	22.0	0.43	1.73	.264	700	17	14	29
25	22	52	13.70	- 8	1	20.6	0.43	1.71	20.430	245	16	36	6
35	22	53	25.76	- 7	53	37.4	0.43	1.70	20.584	843	15	57	59

0 HORA TEMPO TERRESTRE

DATA	ASCENÇÃO RETA			DECLINAÇÃO			P.H.	S.D.	DISTÂNCIA À TERRA		P. MERID. GREENWICH		
	H	M	S	G	'	"			"	"	H	M	S
JAN. 0	21	13	49.00	-16	12	27.3	0.29	1.09	30.842	371	14	33	25
10	21	15	8.78	16	6	33.0	0.28	1.08	.933	232	13	55	26
20	21	16	34.12	16	0	11.7	0.28	1.08	30.997	938	13	17	32
30	21	18	3.07	15	53	31.8	0.28	1.08	31.034	772	12	39	41
FEV. 9	21	19	33.43	15	46	43.2	0.28	1.08	.042	622	12	1	52
19	21	21	3.11	-15	39	55.8	0.28	1.08	31.021	571	11	24	2
MAR. 1	21	22	30.18	15	33	18.4	0.28	1.08	30.972	307	10	46	9
11	21	23	52.54	15	27	0.9	0.28	1.08	.896	263	10	8	12
21	21	25	8.33	15	21	12.8	0.29	1.09	.795	895	9	30	8
31	21	26	16.03	15	16	1.7	0.29	1.09	.673	994	8	51	56
ABR. 10	21	27	14.06	-15	11	35.6	0.29	1.10	30.534	075	8	13	34
20	21	28	1.21	15	8	0.6	0.29	1.10	.380	256	7	35	1
30	21	28	36.55	15	5	21.9	0.29	1.11	.216	705	6	56	17
MAIO 10	21	28	59.37	15	3	43.4	0.29	1.11	30.048	150	6	17	20
20	21	29	9.41	15	3	6.0	0.29	1.12	29.879	384	5	38	11
30	21	29	6.56	-15	3	30.4	0.30	1.13	29.715	018	4	58	49
JUN. 9	21	28	51.18	15	4	55.2	0.30	1.13	.559	912	4	19	14
19	21	28	24.11	15	7	15.6	0.30	1.14	.418	447	3	39	28
29	21	27	46.31	15	10	26.5	0.30	1.14	.294	649	2	59	31
JUL. 9	21	26	59.18	15	14	21.0	0.30	1.15	.192	343	2	19	25
19	21	26	4.59	-15	18	49.7	0.30	1.15	29.114	438	1	39	11
29	21	25	4.47	15	23	42.9	0.30	1.15	.063	363	0	58	52
AGO. 8	21	24	1.08	15	28	49.3	0.30	1.15	.040	858	0	18	30
17	21	23	3.20	15	33	27.2	0.30	1.15	.045	549	23	38	7
27	21	22	0.18	15	38	28.0	0.30	1.15	.078	585	22	57	46
SET. 6	21	21	0.95	-15	43	8.9	0.30	1.15	29.140	088	22	17	28
16	21	20	7.72	15	47	19.9	0.30	1.15	.228	162	21	37	17
26	21	19	22.58	15	50	52.3	0.30	1.14	.340	437	20	57	14
OUT. 6	21	18	47.52	15	53	37.0	0.30	1.14	.473	531	20	17	21
16	21	18	23.91	15	55	28.0	0.30	1.13	.623	402	19	37	39
26	21	18	12.82	-15	56	21.2	0.30	1.12	29.785	745	18	58	10
NOV. 5	21	18	15.06	-15	56	13.2	0.29	1.12	29.955	527	18	18	54
15	21	18	30.80	15	55	3.1	0.29	1.11	30.127	679	17	39	52
25	21	18	59.86	15	52	51.6	0.29	1.11	.297	150	17	1	2
DEZ. 5	21	19	41.69	15	49	41.3	0.29	1.10	.458	688	16	22	26
15	21	20	35.28	15	45	36.5	0.29	1.09	.607	627	15	44	1
25	21	21	39.45	-15	40	41.8	0.29	1.09	30.739	587	15	5	46
35	21	22	52.55	-15	35	4.6	0.29	1.09	30.850	573	14	27	40