

OBSERVATÓRIO ASTRONÓMICO DE LISBOA
Tapada da Ajuda, 1349-018 LISBOA

CREPÚSCULOS, NASCIMENTO E OCASO DO SOL
NASCIMENTO E OCASO DO PLANETA MERCÚRIO, MAGNITUDE EM 2022 (LISBOA)

(Hora Legal)

DATA	SOL		CREPÚSCULOS				MERCÚRIO								
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer	
	h min	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
01-01-22	07:55	17:26	06:19	07:25	17:55	19:01	09:11	13:58	18:46	30	62	-0,9	00:51	----	
02-01-22	07:55	17:26	06:20	07:25	17:56	19:02	09:11	14:00	18:49	30	62	-0,8	00:53	----	
03-01-22	07:55	17:27	06:20	07:25	17:57	19:02	09:11	14:01	18:52	31	63	-0,8	00:55	----	
04-01-22	07:55	17:28	06:20	07:25	17:58	19:03	09:11	14:02	18:55	31	63	-0,8	00:57	----	
05-01-22	07:55	17:29	06:20	07:25	17:59	19:04	09:10	14:03	18:58	32	64	-0,7	00:59	----	
06-01-22	07:55	17:30	06:20	07:25	17:59	19:05	09:09	14:04	19:00	32	64	-0,7	01:01	----	
07-01-22	07:55	17:31	06:20	07:25	18:00	19:06	09:08	14:04	19:02	32	65	-0,6	01:02	----	
08-01-22	07:55	17:32	06:20	07:25	18:01	19:06	09:06	14:04	19:03	33	66	-0,6	01:02	----	
09-01-22	07:55	17:33	06:20	07:25	18:02	19:07	09:04	14:03	19:04	33	66	-0,5	01:02	----	
10-01-22	07:55	17:34	06:20	07:25	18:03	19:08	09:01	14:02	19:04	34	67	-0,4	01:01	----	
11-01-22	07:54	17:35	06:20	07:25	18:04	19:09	08:58	14:00	19:04	34	67	-0,3	01:00	----	
12-01-22	07:54	17:36	06:20	07:25	18:05	19:10	08:54	13:58	19:02	35	68	-0,2	00:57	----	
13-01-22	07:54	17:37	06:20	07:25	18:06	19:11	08:50	13:55	19:00	35	68	0	00:54	----	
14-01-22	07:54	17:38	06:20	07:24	18:07	19:12	08:45	13:51	18:57	35	69	0,1	00:50	----	
15-01-22	07:53	17:39	06:20	07:24	18:08	19:13	08:39	13:46	18:53	35	69	0,3	00:45	----	
16-01-22	07:53	17:40	06:19	07:24	18:09	19:14	08:33	13:40	18:48	36	69	1	00:39	----	
17-01-22	07:53	17:41	06:19	07:24	18:10	19:15	08:26	13:34	18:42	36	70	1,2	00:32	----	
18-01-22	07:52	17:42	06:19	07:23	18:11	19:15	08:19	13:27	18:35	36	70	1,5	00:24	----	
19-01-22	07:52	17:43	06:18	07:23	18:12	19:16	08:11	13:19	18:28	36	70	1,8	00:16	----	
20-01-22	07:51	17:44	06:18	07:22	18:13	19:17	08:03	13:11	18:19	36	70	2,1	00:06	----	
21-01-22	07:51	17:45	06:18	07:22	18:14	19:18	07:54	13:02	18:10	36	70	2,4	----	----	

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
22-01-22	07:50	17:47	06:17	07:21	18:15	19:19	07:46	12:53	18:01	36	70	2,6	----	----
23-01-22	07:49	17:48	06:17	07:21	18:16	19:20	07:37	12:44	17:51	36	70	2,6	----	----
24-01-22	07:49	17:49	06:16	07:20	18:17	19:21	07:28	12:35	17:42	36	69	2,5	----	----
25-01-22	07:48	17:50	06:16	07:20	18:18	19:22	07:20	12:26	17:32	35	69	2,4	----	00:00
26-01-22	07:47	17:51	06:15	07:19	18:20	19:23	07:12	12:17	17:22	35	69	2,1	----	00:07
27-01-22	07:47	17:52	06:15	07:18	18:21	19:24	07:04	12:09	17:13	35	69	1,9	----	00:14
28-01-22	07:46	17:53	06:14	07:18	18:22	19:25	06:57	12:01	17:05	35	68	1,7	----	00:21
29-01-22	07:45	17:55	06:14	07:17	18:23	19:26	06:50	11:53	16:56	35	68	1,5	----	00:27
30-01-22	07:44	17:56	06:13	07:16	18:24	19:27	06:44	11:47	16:49	34	68	1,3	----	00:32
31-01-22	07:43	17:57	06:12	07:15	18:25	19:28	06:38	11:40	16:42	34	67	1,1	----	00:37
01-02-22	07:43	17:58	06:11	07:15	18:26	19:29	06:33	11:35	16:36	34	67	1	----	00:42
02-02-22	07:42	17:59	06:11	07:14	18:27	19:30	06:29	11:30	16:30	34	67	0,6	----	00:45
03-02-22	07:41	18:00	06:10	07:13	18:28	19:31	06:25	11:25	16:25	33	67	0,5	----	00:48
04-02-22	07:40	18:01	06:09	07:12	18:29	19:32	06:22	11:21	16:21	33	66	0,5	----	00:50
05-02-22	07:39	18:03	06:08	07:11	18:30	19:33	06:19	11:18	16:17	33	66	0,4	----	00:52
06-02-22	07:38	18:04	06:07	07:10	18:32	19:34	06:16	11:15	16:13	33	66	0,3	----	00:54
07-02-22	07:37	18:05	06:07	07:09	18:33	19:35	06:14	11:13	16:11	33	66	0,3	----	00:55
08-02-22	07:36	18:06	06:06	07:08	18:34	19:36	06:13	11:11	16:08	33	66	0,2	----	00:55
09-02-22	07:35	18:07	06:05	07:07	18:35	19:37	06:11	11:09	16:06	33	65	0,2	----	00:56
10-02-22	07:34	18:08	06:04	07:06	18:36	19:38	06:10	11:08	16:05	33	65	0,1	----	00:56
11-02-22	07:32	18:10	06:03	07:05	18:37	19:39	06:09	11:07	16:03	32	65	0,1	----	00:56
12-02-22	07:31	18:11	06:02	07:04	18:38	19:40	06:09	11:06	16:03	32	65	0,1	----	00:55
13-02-22	07:30	18:12	06:01	07:03	18:39	19:41	06:08	11:05	16:02	32	65	0,1	----	00:55
14-02-22	07:29	18:13	06:00	07:02	18:40	19:42	06:08	11:05	16:02	32	65	0	----	00:54
15-02-22	07:28	18:14	05:59	07:01	18:41	19:43	06:08	11:05	16:02	32	65	0	----	00:53
16-02-22	07:27	18:15	05:57	06:59	18:42	19:44	06:08	11:05	16:03	32	65	0	----	00:51
17-02-22	07:25	18:16	05:56	06:58	18:43	19:45	06:08	11:06	16:03	33	65	0	----	00:50
18-02-22	07:24	18:17	05:55	06:57	18:44	19:46	06:09	11:06	16:04	33	65	0	----	00:48
19-02-22	07:23	18:18	05:54	06:56	18:46	19:47	06:09	11:07	16:05	33	65	0	----	00:47
20-02-22	07:21	18:20	05:53	06:54	18:47	19:48	06:09	11:08	16:07	33	66	-0,1	----	00:45
21-02-22	07:20	18:21	05:51	06:53	18:48	19:49	06:10	11:09	16:08	33	66	-0,1	----	00:43

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
22-02-22	07:19	18:22	05:50	06:52	18:49	19:50	06:10	11:10	16:10	33	66	-0,1	----	00:42
23-02-22	07:17	18:23	05:49	06:51	18:50	19:51	06:11	11:11	16:12	33	66	-0,1	----	00:40
24-02-22	07:16	18:24	05:48	06:49	18:51	19:53	06:11	11:13	16:14	34	67	-0,1	----	00:38
25-02-22	07:15	18:25	05:46	06:48	18:52	19:54	06:12	11:14	16:16	34	67	-0,1	----	00:36
26-02-22	07:13	18:26	05:45	06:47	18:53	19:55	06:12	11:15	16:19	34	67	-0,1	----	00:35
27-02-22	07:12	18:27	05:44	06:45	18:54	19:56	06:13	11:17	16:21	34	68	-0,2	----	00:32
28-02-22	07:10	18:28	05:42	06:44	18:55	19:57	06:13	11:19	16:24	35	68	-0,2	----	00:31
01-03-22	07:09	18:29	05:41	06:42	18:56	19:58	06:14	11:20	16:27	35	68	-0,2	----	00:28
02-03-22	07:08	18:30	05:39	06:41	18:57	19:59	06:15	11:22	16:30	35	69	-0,2	----	00:26
03-03-22	07:06	18:31	05:38	06:40	18:58	20:00	06:15	11:24	16:33	36	69	-0,2	----	00:25
04-03-22	07:05	18:32	05:37	06:38	18:59	20:01	06:16	11:26	16:37	36	70	-0,3	----	00:22
05-03-22	07:03	18:33	05:35	06:37	19:00	20:02	06:16	11:28	16:40	36	70	-0,3	----	00:21
06-03-22	07:02	18:34	05:34	06:35	19:01	20:03	06:17	11:30	16:43	37	71	-0,3	----	00:18
07-03-22	07:00	18:35	05:32	06:34	19:02	20:04	06:17	11:32	16:47	37	71	-0,3	----	00:17
08-03-22	06:59	18:36	05:31	06:32	19:03	20:05	06:17	11:34	16:51	38	72	-0,4	----	00:15
09-03-22	06:57	18:37	05:29	06:31	19:04	20:06	06:18	11:36	16:55	38	73	-0,4	----	00:13
10-03-22	06:56	18:38	05:27	06:29	19:05	20:07	06:18	11:38	16:58	39	73	-0,4	----	00:11
11-03-22	06:54	18:39	05:26	06:28	19:06	20:08	06:19	11:40	17:02	39	74	-0,5	----	00:09
12-03-22	06:53	18:40	05:24	06:26	19:07	20:09	06:19	11:42	17:07	40	75	-0,5	----	00:07
13-03-22	06:51	18:41	05:23	06:25	19:08	20:10	06:19	11:45	17:11	40	75	-0,5	----	00:06
14-03-22	06:50	18:42	05:21	06:23	19:09	20:11	06:20	11:47	17:15	41	76	-0,6	----	00:03
15-03-22	06:48	18:43	05:20	06:22	19:10	20:12	06:20	11:49	17:20	42	77	-0,6	----	00:02
16-03-22	06:47	18:44	05:18	06:20	19:11	20:13	06:20	11:52	17:24	42	78	-0,7	----	00:00
17-03-22	06:45	18:45	05:16	06:18	19:12	20:14	06:21	11:54	17:29	43	79	-0,7	----	----
18-03-22	06:43	18:46	05:15	06:17	19:13	20:15	06:21	11:57	17:33	44	79	-0,8	----	----
19-03-22	06:42	18:47	05:13	06:15	19:14	20:16	06:21	11:59	17:38	44	80	-0,8	----	----
20-03-22	06:40	18:48	05:11	06:14	19:15	20:18	06:21	12:02	17:43	45	81	-0,9	----	----
21-03-22	06:39	18:49	05:10	06:12	19:16	20:19	06:21	12:04	17:48	46	82	-0,9	----	----
22-03-22	06:37	18:50	05:08	06:11	19:17	20:20	06:22	12:07	17:53	46	83	-1	----	----
23-03-22	06:36	18:51	05:06	06:09	19:18	20:21	06:22	12:10	17:59	47	84	-1,1	----	----
24-03-22	06:34	18:52	05:05	06:07	19:19	20:22	06:22	12:12	18:04	48	85	-1,1	----	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
25-03-22	06:32	18:53	05:03	06:06	19:20	20:23	06:22	12:15	18:09	49	86	-1,2	----	----
26-03-22	06:31	18:54	05:01	06:04	19:21	20:24	06:23	12:18	18:15	50	87	-1,3	----	----
27-03-22	07:29	19:55	05:59	07:03	20:22	21:25	07:23	13:21	19:21	50	88	-1,4	----	----
28-03-22	07:28	19:56	05:58	07:01	20:23	21:26	07:23	13:24	19:26	51	89	-1,5	----	----
29-03-22	07:26	19:57	05:56	07:00	20:24	21:28	07:23	13:27	19:32	52	90	-1,6	----	----
30-03-22	07:25	19:58	05:54	06:58	20:25	21:29	07:24	13:30	19:38	53	92	-1,7	----	----
31-03-22	07:23	19:59	05:52	06:56	20:26	21:30	07:24	13:34	19:45	54	93	-1,7	----	----
01-04-22	07:22	20:00	05:51	06:55	20:27	21:31	07:24	13:37	19:51	55	94	-1,8	----	----
02-04-22	07:20	20:01	05:49	06:53	20:28	21:32	07:25	13:40	19:57	56	95	-1,9	----	----
03-04-22	07:18	20:02	05:47	06:52	20:29	21:33	07:25	13:44	20:04	57	96	-2	----	----
04-04-22	07:17	20:03	05:45	06:50	20:30	21:35	07:26	13:47	20:10	58	97	-2	----	----
05-04-22	07:15	20:04	05:44	06:48	20:31	21:36	07:26	13:50	20:17	59	99	-2	----	----
06-04-22	07:14	20:05	05:42	06:47	20:32	21:37	07:26	13:54	20:23	60	100	-2	----	----
07-04-22	07:12	20:06	05:40	06:45	20:33	21:38	07:27	13:58	20:30	60	101	-1,9	----	----
08-04-22	07:11	20:07	05:38	06:44	20:34	21:40	07:27	14:01	20:37	61	102	-1,9	00:03	----
09-04-22	07:09	20:08	05:37	06:42	20:35	21:41	07:28	14:05	20:44	62	104	-1,8	00:09	----
10-04-22	07:08	20:09	05:35	06:41	20:36	21:42	07:29	14:09	20:50	63	105	-1,8	00:14	----
11-04-22	07:06	20:10	05:33	06:39	20:37	21:43	07:29	14:12	20:57	64	106	-1,7	00:20	----
12-04-22	07:05	20:10	05:31	06:38	20:38	21:45	07:30	14:16	21:04	65	107	-1,6	00:26	----
13-04-22	07:03	20:11	05:29	06:36	20:39	21:46	07:30	14:19	21:10	66	108	-1,6	00:31	----
14-04-22	07:02	20:12	05:28	06:35	20:40	21:47	07:31	14:23	21:17	67	109	-1,5	00:37	----
15-04-22	07:00	20:13	05:26	06:33	20:41	21:48	07:31	14:26	21:23	68	110	-1,4	00:42	----
16-04-22	06:59	20:14	05:24	06:31	20:42	21:50	07:32	14:30	21:29	68	111	-1,3	00:47	----
17-04-22	06:58	20:15	05:22	06:30	20:43	21:51	07:32	14:33	21:35	69	112	-1,2	00:52	----
18-04-22	06:56	20:16	05:21	06:29	20:44	21:52	07:33	14:36	21:40	70	113	-1,1	00:56	----
19-04-22	06:55	20:17	05:19	06:27	20:45	21:54	07:33	14:39	21:46	70	114	-1	01:01	----
20-04-22	06:53	20:18	05:17	06:26	20:46	21:55	07:34	14:41	21:50	71	115	-0,9	01:04	----
21-04-22	06:52	20:19	05:15	06:24	20:47	21:56	07:34	14:44	21:55	72	116	-0,8	01:08	----
22-04-22	06:51	20:20	05:14	06:23	20:48	21:58	07:34	14:46	21:59	72	117	-0,6	01:11	----
23-04-22	06:49	20:21	05:12	06:21	20:49	21:59	07:34	14:48	22:03	73	117	-0,5	01:14	----
24-04-22	06:48	20:22	05:10	06:20	20:50	22:00	07:34	14:50	22:06	73	118	-0,4	01:16	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
25-04-22	06:47	20:23	05:09	06:18	20:51	22:02	07:34	14:51	22:09	73	118	-0,3	01:18	----
26-04-22	06:45	20:24	05:07	06:17	20:52	22:03	07:34	14:52	22:12	74	119	-0,2	01:20	----
27-04-22	06:44	20:25	05:05	06:16	20:53	22:04	07:33	14:53	22:14	74	119	-0,1	01:21	----
28-04-22	06:43	20:26	05:03	06:14	20:54	22:06	07:33	14:54	22:15	74	120	0	01:21	----
29-04-22	06:42	20:27	05:02	06:13	20:55	22:07	07:32	14:54	22:16	75	120	0,2	01:21	----
30-04-22	06:40	20:28	05:00	06:12	20:57	22:08	07:31	14:54	22:17	75	120	0,3	01:20	----
01-05-22	06:39	20:29	04:59	06:10	20:58	22:10	07:30	14:53	22:17	75	121	0,4	01:19	----
02-05-22	06:38	20:30	04:57	06:09	20:59	22:11	07:29	14:53	22:16	75	121	0,5	01:17	----
03-05-22	06:37	20:31	04:55	06:08	21:00	22:13	07:28	14:51	22:15	75	121	0,6	01:15	----
04-05-22	06:36	20:32	04:54	06:07	21:01	22:14	07:26	14:50	22:14	75	121	0,7	01:13	----
05-05-22	06:35	20:33	04:52	06:05	21:02	22:15	07:24	14:48	22:12	75	121	1,2	01:10	----
06-05-22	06:33	20:34	04:51	06:04	21:03	22:17	07:22	14:46	22:09	75	121	1,3	01:06	----
07-05-22	06:32	20:34	04:49	06:03	21:04	22:18	07:20	14:43	22:06	75	121	1,4	01:02	----
08-05-22	06:31	20:35	04:48	06:02	21:05	22:20	07:18	14:40	22:03	75	121	1,5	00:58	----
09-05-22	06:30	20:36	04:46	06:01	21:06	22:21	07:15	14:37	21:59	75	121	1,7	00:53	----
10-05-22	06:29	20:37	04:45	06:00	21:07	22:22	07:12	14:34	21:54	75	120	1,8	00:47	----
11-05-22	06:28	20:38	04:43	05:59	21:08	22:24	07:09	14:30	21:49	75	120	1,9	00:41	----
12-05-22	06:27	20:39	04:42	05:58	21:09	22:25	07:06	14:25	21:44	74	120	2,1	00:35	----
13-05-22	06:26	20:40	04:40	05:57	21:10	22:27	07:02	14:21	21:38	74	119	2,2	00:28	----
14-05-22	06:25	20:41	04:39	05:56	21:11	22:28	06:59	14:16	21:32	74	119	2,4	00:21	----
15-05-22	06:24	20:42	04:37	05:55	21:12	22:29	06:55	14:11	21:26	73	119	2,5	00:14	----
16-05-22	06:24	20:43	04:36	05:54	21:13	22:31	06:51	14:05	21:19	73	118	2,7	00:06	----
17-05-22	06:23	20:44	04:35	05:53	21:14	22:32	06:47	14:00	21:12	73	118	2,8	----	----
18-05-22	06:22	20:45	04:34	05:52	21:15	22:33	06:42	13:54	21:04	72	117	3	----	----
19-05-22	06:21	20:45	04:32	05:51	21:16	22:35	06:38	13:48	20:57	72	117	3,2	----	----
20-05-22	06:20	20:46	04:31	05:50	21:17	22:36	06:34	13:42	20:49	72	116	3,3	----	----
21-05-22	06:20	20:47	04:30	05:49	21:18	22:37	06:29	13:36	20:42	71	116	3,4	----	----
22-05-22	06:19	20:48	04:29	05:48	21:19	22:39	06:25	13:30	20:34	71	115	3,3	----	----
23-05-22	06:18	20:49	04:28	05:48	21:19	22:40	06:20	13:24	20:27	70	115	3,2	----	----
24-05-22	06:18	20:50	04:26	05:47	21:20	22:41	06:15	13:18	20:20	70	114	3	----	----
25-05-22	06:17	20:50	04:25	05:46	21:21	22:43	06:11	13:12	20:12	70	114	2,8	----	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
26-05-22	06:16	20:51	04:24	05:46	21:22	22:44	06:06	13:06	20:05	69	113	2,7	----	----
27-05-22	06:16	20:52	04:23	05:45	21:23	22:45	06:02	13:01	19:59	69	113	2,5	----	----
28-05-22	06:15	20:53	04:22	05:44	21:24	22:46	05:58	12:55	19:52	69	112	2,4	----	----
29-05-22	06:15	20:53	04:21	05:44	21:25	22:47	05:53	12:50	19:46	68	112	2,3	----	----
30-05-22	06:14	20:54	04:21	05:43	21:25	22:48	05:49	12:45	19:40	68	111	2,2	----	----
31-05-22	06:14	20:55	04:20	05:43	21:26	22:49	05:45	12:40	19:35	68	111	2	----	----
01-06-22	06:14	20:56	04:19	05:42	21:27	22:51	05:41	12:36	19:30	68	111	1,9	----	00:01
02-06-22	06:13	20:56	04:18	05:42	21:28	22:52	05:38	12:32	19:26	68	111	1,8	----	00:04
03-06-22	06:13	20:57	04:18	05:41	21:28	22:53	05:34	12:28	19:21	67	111	1,8	----	00:07
04-06-22	06:12	20:58	04:17	05:41	21:29	22:54	05:31	12:24	19:18	67	111	1,7	----	00:10
05-06-22	06:12	20:58	04:16	05:41	21:30	22:54	05:27	12:21	19:14	67	110	1,6	----	00:14
06-06-22	06:12	20:59	04:16	05:40	21:30	22:55	05:24	12:18	19:11	67	110	1,5	----	00:16
07-06-22	06:12	20:59	04:15	05:40	21:31	22:56	05:21	12:15	19:09	67	111	1,4	----	00:19
08-06-22	06:12	21:00	04:15	05:40	21:32	22:57	05:18	12:12	19:06	68	111	1,3	----	00:22
09-06-22	06:11	21:00	04:14	05:40	21:32	22:58	05:16	12:10	19:05	68	111	1,2	----	00:24
10-06-22	06:11	21:01	04:14	05:39	21:33	22:59	05:13	12:08	19:03	68	111	0,9	----	00:26
11-06-22	06:11	21:01	04:14	05:39	21:33	22:59	05:11	12:06	19:02	68	111	0,8	----	00:28
12-06-22	06:11	21:02	04:13	05:39	21:34	23:00	05:08	12:05	19:02	68	111	0,8	----	00:31
13-06-22	06:11	21:02	04:13	05:39	21:34	23:00	05:06	12:04	19:01	68	112	0,7	----	00:33
14-06-22	06:11	21:03	04:13	05:39	21:35	23:01	05:05	12:03	19:01	69	112	0,6	----	00:34
15-06-22	06:11	21:03	04:13	05:39	21:35	23:02	05:03	12:02	19:02	69	112	0,5	----	00:36
16-06-22	06:11	21:04	04:13	05:39	21:36	23:02	05:02	12:02	19:03	69	113	0,5	----	00:37
17-06-22	06:11	21:04	04:13	05:39	21:36	23:02	05:00	12:02	19:04	69	113	0,4	----	00:39
18-06-22	06:11	21:04	04:13	05:39	21:36	23:03	04:59	12:02	19:05	70	113	0,3	----	00:40
19-06-22	06:11	21:04	04:13	05:39	21:36	23:03	04:58	12:02	19:07	70	114	0,3	----	00:41
20-06-22	06:12	21:05	04:13	05:40	21:37	23:03	04:58	12:03	19:09	70	114	0,2	----	00:42
21-06-22	06:12	21:05	04:13	05:40	21:37	23:04	04:57	12:04	19:11	71	115	0,1	----	00:43
22-06-22	06:12	21:05	04:13	05:40	21:37	23:04	04:57	12:05	19:14	71	115	0	----	00:43
23-06-22	06:12	21:05	04:14	05:40	21:37	23:04	04:57	12:07	19:17	71	116	-0,1	----	00:43
24-06-22	06:13	21:05	04:14	05:41	21:37	23:04	04:57	12:08	19:20	72	116	-0,2	----	00:44
25-06-22	06:13	21:05	04:14	05:41	21:37	23:04	04:58	12:10	19:24	72	117	-0,2	----	00:43

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
26-06-22	06:13	21:06	04:15	05:41	21:38	23:04	04:59	12:13	19:27	73	117	-0,3	----	00:42
27-06-22	06:14	21:06	04:15	05:42	21:38	23:04	05:00	12:15	19:31	73	118	-0,4	----	00:42
28-06-22	06:14	21:06	04:16	05:42	21:38	23:04	05:01	12:18	19:36	73	118	-0,5	----	00:41
29-06-22	06:14	21:06	04:16	05:43	21:37	23:03	05:03	12:21	19:40	74	119	-0,6	----	00:40
30-06-22	06:15	21:06	04:17	05:43	21:37	23:03	05:05	12:24	19:45	74	119	-0,7	----	00:38
01-07-22	06:15	21:05	04:18	05:43	21:37	23:03	05:07	12:28	19:50	74	120	-0,8	----	00:36
02-07-22	06:16	21:05	04:18	05:44	21:37	23:03	05:09	12:32	19:55	75	120	-0,9	----	00:35
03-07-22	06:16	21:05	04:19	05:45	21:37	23:02	05:12	12:36	20:00	75	120	-1	----	00:33
04-07-22	06:17	21:05	04:20	05:45	21:37	23:02	05:16	12:40	20:05	75	121	-1,1	----	00:29
05-07-22	06:17	21:05	04:21	05:46	21:36	23:01	05:19	12:45	20:11	75	121	-1,2	----	00:27
06-07-22	06:18	21:05	04:21	05:46	21:36	23:01	05:23	12:49	20:16	75	121	-1,4	----	00:23
07-07-22	06:19	21:04	04:22	05:47	21:36	23:00	05:27	12:54	20:22	76	121	-1,5	----	00:20
08-07-22	06:19	21:04	04:23	05:48	21:35	22:59	05:32	12:59	20:27	76	122	-1,6	----	00:16
09-07-22	06:20	21:04	04:24	05:48	21:35	22:59	05:37	13:05	20:32	76	122	-1,7	----	00:11
10-07-22	06:20	21:03	04:25	05:49	21:35	22:58	05:42	13:10	20:38	76	122	-1,7	----	00:07
11-07-22	06:21	21:03	04:26	05:50	21:34	22:57	05:47	13:15	20:43	76	122	-1,8	----	00:03
12-07-22	06:22	21:02	04:27	05:50	21:34	22:56	05:53	13:21	20:48	76	122	-1,9	----	----
13-07-22	06:22	21:02	04:28	05:51	21:33	22:56	05:59	13:26	20:53	75	121	-2	----	----
14-07-22	06:23	21:01	04:29	05:52	21:33	22:55	06:05	13:32	20:57	75	121	-2	----	----
15-07-22	06:24	21:01	04:31	05:53	21:32	22:54	06:11	13:37	21:02	75	121	-2,1	----	----
16-07-22	06:25	21:00	04:32	05:54	21:31	22:53	06:18	13:42	21:06	75	121	-2,1	----	----
17-07-22	06:25	21:00	04:33	05:54	21:31	22:52	06:24	13:48	21:10	74	120	-2,1	----	----
18-07-22	06:26	20:59	04:34	05:55	21:30	22:51	06:31	13:53	21:14	74	120	-2,1	----	----
19-07-22	06:27	20:58	04:35	05:56	21:29	22:50	06:37	13:58	21:17	74	119	-2	----	----
20-07-22	06:28	20:58	04:37	05:57	21:28	22:49	06:44	14:03	21:20	73	119	-1,9	----	----
21-07-22	06:28	20:57	04:38	05:58	21:28	22:47	06:51	14:07	21:23	73	118	-1,8	----	----
22-07-22	06:29	20:56	04:39	05:59	21:27	22:46	06:57	14:12	21:26	72	117	-1,7	----	----
23-07-22	06:30	20:56	04:40	06:00	21:26	22:45	07:03	14:16	21:28	72	117	-1,6	00:02	----
24-07-22	06:31	20:55	04:42	06:01	21:25	22:44	07:10	14:21	21:30	71	116	-1,5	00:05	----
25-07-22	06:32	20:54	04:43	06:01	21:24	22:42	07:16	14:25	21:32	71	115	-1,4	00:08	----
26-07-22	06:33	20:53	04:44	06:02	21:23	22:41	07:22	14:29	21:34	70	114	-1,3	00:11	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
27-07-22	06:33	20:52	04:45	06:03	21:22	22:40	07:28	14:32	21:35	70	114	-1,2	00:13	----
28-07-22	06:34	20:51	04:47	06:04	21:21	22:38	07:34	14:36	21:36	69	113	-1,1	00:15	----
29-07-22	06:35	20:50	04:48	06:05	21:20	22:37	07:40	14:39	21:37	68	112	-1	00:17	----
30-07-22	06:36	20:50	04:49	06:06	21:19	22:36	07:45	14:42	21:38	68	111	-0,9	00:19	----
31-07-22	06:37	20:49	04:51	06:07	21:18	22:34	07:51	14:45	21:39	67	110	-0,9	00:21	----
01-08-22	06:38	20:48	04:52	06:08	21:17	22:33	07:56	14:48	21:39	66	109	-0,8	00:22	----
02-08-22	06:39	20:47	04:53	06:09	21:16	22:31	08:01	14:51	21:39	66	108	-0,7	00:23	----
03-08-22	06:40	20:45	04:55	06:10	21:15	22:30	08:06	14:54	21:39	65	108	-0,7	00:24	----
04-08-22	06:40	20:44	04:56	06:11	21:14	22:28	08:11	14:56	21:39	64	107	-0,6	00:25	----
05-08-22	06:41	20:43	04:58	06:12	21:12	22:27	08:16	14:58	21:39	64	106	-0,5	00:27	----
06-08-22	06:42	20:42	04:59	06:13	21:11	22:25	08:20	15:00	21:39	63	105	-0,5	00:28	----
07-08-22	06:43	20:41	05:00	06:14	21:10	22:23	08:25	15:02	21:39	62	104	-0,4	00:29	----
08-08-22	06:44	20:40	05:02	06:15	21:09	22:22	08:29	15:04	21:38	61	103	-0,4	00:29	----
09-08-22	06:45	20:39	05:03	06:16	21:08	22:20	08:33	15:06	21:37	61	102	-0,3	00:29	----
10-08-22	06:46	20:38	05:04	06:17	21:06	22:19	08:37	15:07	21:37	60	101	-0,3	00:31	----
11-08-22	06:47	20:36	05:06	06:18	21:05	22:17	08:41	15:09	21:36	59	100	-0,2	00:31	----
12-08-22	06:48	20:35	05:07	06:19	21:04	22:15	08:45	15:10	21:35	59	99	-0,2	00:31	----
13-08-22	06:48	20:34	05:08	06:20	21:02	22:14	08:48	15:12	21:34	58	99	-0,2	00:32	----
14-08-22	06:49	20:33	05:09	06:21	21:01	22:12	08:51	15:13	21:33	57	98	-0,1	00:32	----
15-08-22	06:50	20:31	05:11	06:22	21:00	22:10	08:55	15:14	21:31	57	97	-0,1	00:31	----
16-08-22	06:51	20:30	05:12	06:23	20:58	22:08	08:58	15:14	21:30	56	96	-0,1	00:32	----
17-08-22	06:52	20:29	05:13	06:24	20:57	22:07	09:01	15:15	21:29	55	95	0	00:32	----
18-08-22	06:53	20:27	05:15	06:25	20:55	22:05	09:03	15:16	21:27	55	94	0	00:32	----
19-08-22	06:54	20:26	05:16	06:26	20:54	22:03	09:06	15:16	21:25	54	93	0	00:31	----
20-08-22	06:55	20:24	05:17	06:27	20:52	22:02	09:08	15:17	21:24	53	93	0,1	00:32	----
21-08-22	06:56	20:23	05:19	06:28	20:51	22:00	09:11	15:17	21:22	53	92	0,1	00:31	----
22-08-22	06:57	20:22	05:20	06:29	20:50	21:58	09:13	15:17	21:20	52	91	0,1	00:30	----
23-08-22	06:57	20:20	05:21	06:30	20:48	21:56	09:15	15:17	21:18	52	90	0,1	00:30	----
24-08-22	06:58	20:19	05:22	06:31	20:47	21:55	09:17	15:17	21:16	51	89	0,1	00:29	----
25-08-22	06:59	20:17	05:24	06:32	20:45	21:53	09:18	15:17	21:14	50	89	0,2	00:29	----
26-08-22	07:00	20:16	05:25	06:33	20:44	21:51	09:20	15:16	21:12	50	88	0,2	00:28	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
27-08-22	07:01	20:14	05:26	06:33	20:42	21:49	09:21	15:15	21:09	49	87	0,2	00:27	----
28-08-22	07:02	20:13	05:27	06:34	20:40	21:47	09:22	15:15	21:07	49	87	0,2	00:27	----
29-08-22	07:03	20:11	05:28	06:35	20:39	21:46	09:22	15:14	21:04	48	86	0,3	00:25	----
30-08-22	07:04	20:10	05:30	06:36	20:37	21:44	09:23	15:13	21:02	48	85	0,3	00:25	----
31-08-22	07:05	20:08	05:31	06:37	20:36	21:42	09:23	15:11	20:59	47	85	0,3	00:23	----
01-09-22	07:05	20:07	05:32	06:38	20:34	21:40	09:23	15:10	20:56	47	84	0,3	00:22	----
02-09-22	07:06	20:05	05:33	06:39	20:33	21:38	09:23	15:08	20:53	47	84	0,4	00:20	----
03-09-22	07:07	20:04	05:34	06:40	20:31	21:37	09:22	15:06	20:50	46	83	0,4	00:19	----
04-09-22	07:08	20:02	05:35	06:41	20:29	21:35	09:21	15:04	20:46	46	83	0,4	00:17	----
05-09-22	07:09	20:01	05:37	06:42	20:28	21:33	09:20	15:01	20:43	46	82	0,5	00:15	----
06-09-22	07:10	19:59	05:38	06:43	20:26	21:31	09:18	14:59	20:39	45	82	0,5	00:13	----
07-09-22	07:11	19:58	05:39	06:44	20:25	21:29	09:16	14:56	20:35	45	82	0,6	00:10	----
08-09-22	07:12	19:56	05:40	06:45	20:23	21:28	09:13	14:52	20:31	45	81	0,6	00:08	----
09-09-22	07:13	19:55	05:41	06:46	20:21	21:26	09:10	14:49	20:27	45	81	0,7	00:06	----
10-09-22	07:13	19:53	05:42	06:47	20:20	21:24	09:06	14:45	20:23	45	81	0,7	00:03	----
11-09-22	07:14	19:51	05:43	06:48	20:18	21:22	09:02	14:40	20:19	45	81	0,8	00:01	----
12-09-22	07:15	19:50	05:44	06:48	20:17	21:20	08:57	14:35	20:14	45	81	1,2	----	----
13-09-22	07:16	19:48	05:45	06:49	20:15	21:19	08:52	14:30	20:09	45	81	1,3	----	----
14-09-22	07:17	19:47	05:47	06:50	20:13	21:17	08:46	14:25	20:04	45	81	1,4	----	----
15-09-22	07:18	19:45	05:48	06:51	20:12	21:15	08:39	14:19	19:59	45	82	1,5	----	----
16-09-22	07:19	19:43	05:49	06:52	20:10	21:13	08:32	14:13	19:54	46	82	1,7	----	----
17-09-22	07:20	19:42	05:50	06:53	20:08	21:11	08:25	14:06	19:49	46	83	1,8	----	----
18-09-22	07:21	19:40	05:51	06:54	20:07	21:10	08:16	13:59	19:43	46	83	2	----	----
19-09-22	07:21	19:39	05:52	06:55	20:05	21:08	08:08	13:52	19:38	47	84	2,2	----	----
20-09-22	07:22	19:37	05:53	06:56	20:04	21:06	07:59	13:45	19:32	47	85	2,4	----	----
21-09-22	07:23	19:35	05:54	06:57	20:02	21:05	07:50	13:38	19:27	48	85	2,6	----	----
22-09-22	07:24	19:34	05:55	06:58	20:00	21:03	07:40	13:30	19:21	49	86	2,8	----	----
23-09-22	07:25	19:32	05:56	06:58	19:59	21:01	07:30	13:23	19:16	49	87	2,9	----	----
24-09-22	07:26	19:31	05:57	06:59	19:57	20:59	07:21	13:15	19:11	50	88	2,8	----	----
25-09-22	07:27	19:29	05:58	07:00	19:55	20:58	07:11	13:08	19:06	51	89	2,6	----	----
26-09-22	07:28	19:27	05:59	07:01	19:54	20:56	07:02	13:01	19:02	51	90	2,3	----	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
27-09-22	07:29	19:26	06:00	07:02	19:52	20:54	06:54	12:55	18:57	52	90	2,1	----	00:08
28-09-22	07:30	19:24	06:01	07:03	19:51	20:53	06:46	12:49	18:53	53	91	1,8	----	00:17
29-09-22	07:30	19:23	06:02	07:04	19:49	20:51	06:39	12:44	18:50	53	92	1,5	----	00:25
30-09-22	07:31	19:21	06:03	07:05	19:48	20:49	06:32	12:39	18:46	54	92	1,3	----	00:33
01-10-22	07:32	19:19	06:04	07:06	19:46	20:48	06:26	12:34	18:43	54	93	1	----	00:40
02-10-22	07:33	19:18	06:05	07:07	19:44	20:46	06:21	12:31	18:41	54	93	0,8	----	00:46
03-10-22	07:34	19:16	06:06	07:08	19:43	20:45	06:17	12:28	18:38	55	94	0,4	----	00:51
04-10-22	07:35	19:15	06:07	07:09	19:41	20:43	06:14	12:25	18:36	55	94	0,2	----	00:55
05-10-22	07:36	19:13	06:08	07:09	19:40	20:42	06:12	12:23	18:35	55	94	0	----	00:57
06-10-22	07:37	19:12	06:09	07:10	19:38	20:40	06:10	12:22	18:33	55	94	-0,1	----	01:00
07-10-22	07:38	19:10	06:10	07:11	19:37	20:38	06:10	12:21	18:32	55	94	-0,3	----	01:01
08-10-22	07:39	19:09	06:11	07:12	19:35	20:37	06:10	12:20	18:31	54	94	-0,4	----	01:02
09-10-22	07:40	19:07	06:11	07:13	19:34	20:35	06:10	12:20	18:30	54	93	-0,5	----	01:03
10-10-22	07:41	19:06	06:12	07:14	19:32	20:34	06:12	12:21	18:29	54	93	-0,7	----	01:02
11-10-22	07:42	19:04	06:13	07:15	19:31	20:32	06:13	12:21	18:29	53	92	-0,7	----	01:02
12-10-22	07:43	19:03	06:14	07:16	19:29	20:31	06:16	12:22	18:28	53	92	-0,8	----	01:00
13-10-22	07:44	19:01	06:15	07:17	19:28	20:30	06:19	12:24	18:28	52	91	-0,9	----	00:58
14-10-22	07:45	19:00	06:16	07:18	19:27	20:28	06:22	12:25	18:28	52	91	-1	----	00:56
15-10-22	07:46	18:58	06:17	07:19	19:25	20:27	06:25	12:27	18:27	51	90	-1	----	00:54
16-10-22	07:47	18:57	06:18	07:20	19:24	20:25	06:29	12:28	18:27	51	89	-1,1	----	00:51
17-10-22	07:48	18:56	06:19	07:21	19:22	20:24	06:33	12:30	18:27	50	88	-1,1	----	00:48
18-10-22	07:49	18:54	06:20	07:22	19:21	20:23	06:37	12:32	18:27	49	87	-1,1	----	00:45
19-10-22	07:50	18:53	06:21	07:23	19:20	20:21	06:41	12:34	18:27	49	87	-1,2	----	00:42
20-10-22	07:51	18:51	06:22	07:24	19:18	20:20	06:45	12:36	18:27	48	86	-1,2	----	00:39
21-10-22	07:52	18:50	06:23	07:25	19:17	20:19	06:49	12:39	18:27	47	85	-1,2	----	00:36
22-10-22	07:53	18:49	06:24	07:26	19:16	20:18	06:54	12:41	18:27	47	84	-1,2	----	00:32
23-10-22	07:54	18:47	06:25	07:27	19:14	20:16	06:58	12:43	18:27	46	83	-1,2	----	00:29
24-10-22	07:55	18:46	06:26	07:28	19:13	20:15	07:03	12:45	18:27	45	82	-1,2	----	00:25
25-10-22	07:56	18:45	06:27	07:29	19:12	20:14	07:07	12:48	18:27	45	81	-1,2	----	00:22
26-10-22	07:57	18:44	06:28	07:30	19:11	20:13	07:12	12:50	18:27	44	80	-1,2	----	00:18
27-10-22	07:58	18:42	06:29	07:31	19:10	20:12	07:17	12:52	18:27	43	79	-1,3	----	00:14

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
28-10-22	07:59	18:41	06:30	07:32	19:08	20:11	07:21	12:54	18:27	42	78	-1,3	----	00:11
29-10-22	08:00	18:40	06:31	07:33	19:07	20:09	07:26	12:57	18:27	42	78	-1,3	----	00:07
30-10-22	07:01	17:39	05:31	06:34	18:06	19:08	06:30	11:59	17:27	41	77	-1,3	----	00:04
31-10-22	07:02	17:38	05:32	06:35	18:05	19:07	06:35	12:01	17:27	40	76	-1,3	----	00:00
01-11-22	07:03	17:36	05:33	06:36	18:04	19:06	06:40	12:04	17:27	40	75	-1,3	----	----
02-11-22	07:04	17:35	05:34	06:37	18:03	19:05	06:44	12:06	17:27	39	74	-1,3	----	----
03-11-22	07:06	17:34	05:35	06:38	18:02	19:04	06:49	12:08	17:27	38	73	-1,3	----	----
04-11-22	07:07	17:33	05:36	06:39	18:01	19:03	06:53	12:11	17:27	38	72	-1,3	----	----
05-11-22	07:08	17:32	05:37	06:40	18:00	19:03	06:58	12:13	17:27	37	72	-1,3	----	----
06-11-22	07:09	17:31	05:38	06:41	17:59	19:02	07:02	12:15	17:27	37	71	-1,3	----	----
07-11-22	07:10	17:30	05:39	06:42	17:58	19:01	07:07	12:18	17:28	36	70	-0,9	----	----
08-11-22	07:11	17:29	05:40	06:43	17:57	19:00	07:11	12:20	17:28	35	69	-0,9	----	----
09-11-22	07:12	17:28	05:41	06:44	17:56	18:59	07:15	12:22	17:28	35	69	-0,9	----	----
10-11-22	07:13	17:27	05:42	06:45	17:55	18:58	07:20	12:25	17:29	34	68	-0,9	----	----
11-11-22	07:14	17:26	05:43	06:46	17:55	18:58	07:24	12:27	17:29	34	67	-1,2	----	----
12-11-22	07:15	17:25	05:44	06:47	17:54	18:57	07:29	12:30	17:30	33	66	-1,2	----	----
13-11-22	07:17	17:25	05:45	06:48	17:53	18:56	07:33	12:32	17:30	33	66	-1,1	----	----
14-11-22	07:18	17:24	05:46	06:49	17:52	18:56	07:37	12:34	17:31	32	65	-1,1	----	----
15-11-22	07:19	17:23	05:47	06:50	17:52	18:55	07:41	12:37	17:32	32	64	-1,1	----	----
16-11-22	07:20	17:22	05:48	06:51	17:51	18:55	07:46	12:39	17:32	31	64	-1	----	----
17-11-22	07:21	17:22	05:49	06:52	17:50	18:54	07:50	12:42	17:33	31	63	-1	----	----
18-11-22	07:22	17:21	05:50	06:53	17:50	18:53	07:54	12:44	17:34	30	63	-1	----	----
19-11-22	07:23	17:20	05:50	06:54	17:49	18:53	07:58	12:47	17:35	30	62	-1	----	----
20-11-22	07:24	17:20	05:51	06:55	17:48	18:53	08:02	12:50	17:36	30	62	-0,9	----	----
21-11-22	07:25	17:19	05:52	06:57	17:48	18:52	08:06	12:52	17:37	29	61	-0,9	----	----
22-11-22	07:26	17:19	05:53	06:58	17:47	18:52	08:10	12:55	17:39	29	61	-0,9	----	----
23-11-22	07:27	17:18	05:54	06:59	17:47	18:51	08:14	12:57	17:40	29	60	-0,9	----	----
24-11-22	07:29	17:18	05:55	07:00	17:47	18:51	08:18	13:00	17:41	28	60	-0,9	----	----
25-11-22	07:30	17:17	05:56	07:01	17:46	18:51	08:22	13:03	17:43	28	59	-0,8	----	----
26-11-22	07:31	17:17	05:57	07:01	17:46	18:50	08:26	13:05	17:45	28	59	-0,8	----	----
27-11-22	07:32	17:16	05:58	07:02	17:46	18:50	08:30	13:08	17:46	27	59	-0,8	00:00	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
28-11-22	07:33	17:16	05:59	07:03	17:45	18:50	08:33	13:11	17:48	27	58	-0,8	00:03	----
29-11-22	07:34	17:16	06:00	07:04	17:45	18:50	08:37	13:14	17:50	27	58	-0,8	00:05	----
30-11-22	07:35	17:15	06:00	07:05	17:45	18:50	08:41	13:16	17:52	27	58	-0,8	00:07	----
01-12-22	07:36	17:15	06:01	07:06	17:45	18:50	08:44	13:19	17:54	27	57	-0,8	00:09	----
02-12-22	07:37	17:15	06:02	07:07	17:44	18:50	08:47	13:22	17:56	27	57	-0,8	00:12	----
03-12-22	07:38	17:15	06:03	07:08	17:44	18:50	08:51	13:25	17:59	26	57	-0,8	00:15	----
04-12-22	07:38	17:15	06:04	07:09	17:44	18:50	08:54	13:27	18:01	26	57	-0,8	00:17	----
05-12-22	07:39	17:15	06:05	07:10	17:44	18:50	08:57	13:30	18:03	26	57	-0,8	00:19	----
06-12-22	07:40	17:15	06:05	07:11	17:44	18:50	09:00	13:33	18:06	26	57	-0,8	00:22	----
07-12-22	07:41	17:15	06:06	07:12	17:44	18:50	09:03	13:36	18:08	26	57	-0,8	00:24	----
08-12-22	07:42	17:15	06:07	07:12	17:44	18:50	09:05	13:38	18:11	26	57	-0,7	00:27	----
09-12-22	07:43	17:15	06:08	07:13	17:44	18:50	09:08	13:41	18:14	26	57	-0,7	00:30	----
10-12-22	07:44	17:15	06:08	07:14	17:45	18:50	09:10	13:43	18:17	26	57	-0,7	00:32	----
11-12-22	07:44	17:15	06:09	07:15	17:45	18:50	09:12	13:46	18:19	26	57	-0,7	00:34	----
12-12-22	07:45	17:15	06:10	07:15	17:45	18:51	09:14	13:48	18:22	26	57	-0,7	00:37	----
13-12-22	07:46	17:15	06:10	07:16	17:45	18:51	09:16	13:51	18:25	27	57	-0,7	00:40	----
14-12-22	07:47	17:15	06:11	07:17	17:45	18:51	09:18	13:53	18:28	27	57	-0,7	00:43	----
15-12-22	07:47	17:16	06:12	07:18	17:46	18:51	09:19	13:55	18:31	27	58	-0,7	00:45	----
16-12-22	07:48	17:16	06:12	07:18	17:46	18:52	09:20	13:57	18:33	27	58	-0,7	00:47	----
17-12-22	07:49	17:16	06:13	07:19	17:46	18:52	09:21	13:58	18:36	27	58	-0,7	00:50	----
18-12-22	07:49	17:17	06:14	07:19	17:47	18:53	09:22	14:00	18:38	28	58	-0,7	00:51	----
19-12-22	07:50	17:17	06:14	07:20	17:47	18:53	09:22	14:01	18:40	28	59	-0,6	00:53	----
20-12-22	07:51	17:18	06:15	07:21	17:48	18:53	09:22	14:02	18:42	28	59	-0,6	00:54	----
21-12-22	07:51	17:18	06:15	07:21	17:48	18:54	09:21	14:03	18:44	28	60	-0,6	00:56	----
22-12-22	07:52	17:19	06:16	07:22	17:49	18:54	09:21	14:03	18:45	29	60	-0,5	00:56	----
23-12-22	07:52	17:19	06:16	07:22	17:49	18:55	09:19	14:03	18:46	29	60	-0,5	00:57	----
24-12-22	07:52	17:20	06:17	07:23	17:50	18:56	09:17	14:02	18:47	29	61	-0,4	00:57	----
25-12-22	07:53	17:20	06:17	07:23	17:50	18:56	09:15	14:01	18:47	30	61	-0,3	00:57	----
26-12-22	07:53	17:21	06:18	07:23	17:51	18:57	09:12	13:59	18:46	30	62	-0,2	00:55	----
27-12-22	07:54	17:22	06:18	07:24	17:52	18:57	09:09	13:57	18:45	30	62	-0,1	00:53	----
28-12-22	07:54	17:22	06:18	07:24	17:52	18:58	09:05	13:53	18:43	31	62	0	00:51	----

DATA	SOL		CREPÚSCULOS				MERCÚRIO							
	Nasc.	Ocaso	Aurora	Dia claro	Escurecer	Noite fechada	Nasc.	Passagem Meridiana	Ocaso	Altura máx. (no instante da sua Passagem Meridiana)	Azimute (contado de S-> E, no instante do seu nascimento ou contado de S-> O, no instante do seu ocaso)	Magnitude	Visibilidade ao anoitecer	Visibilidade ao amanhecer
	h min	h min	h min	h min	h min	h min	h min	h min	h min	°	°	°	h min	h min
29-12-22	07:54	17:23	06:19	07:24	17:53	18:59	09:00	13:49	18:40	31	63	0,1	00:47	----
30-12-22	07:54	17:24	06:19	07:25	17:54	18:59	08:54	13:45	18:36	31	63	0,3	00:42	----
31-12-22	07:55	17:25	06:19	07:25	17:54	19:00	08:48	13:39	18:31	31	64	0,9	00:37	----