

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

**CREPÚSCULOS, NASCIMENTO E OCASO DO SOL**  
**NASCIMENTO E OCASO DO PLANETA MERCÚRIO, MAGNITUDE EM 2015 (LISBOA )**

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 Sul para Este, no instante do seu Nascimento)	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
01-01-15	07:55	17:26	06:19	07:25	17:55	19:01	08:58	13:41	18:24	29	60	-1	00:29	---
02-01-15	07:55	17:27	06:20	07:25	17:56	19:02	08:59	13:43	18:28	29	60	-1	00:32	---
03-01-15	07:55	17:27	06:20	07:25	17:57	19:03	09:01	13:46	18:32	29	61	-1	00:35	---
04-01-15	07:55	17:28	06:20	07:25	17:58	19:03	09:02	13:49	18:36	30	61	-1	00:38	---
05-01-15	07:55	17:29	06:20	07:26	17:59	19:04	09:03	13:51	18:41	30	62	-1	00:42	---
06-01-15	07:55	17:30	06:20	07:26	18:00	19:05	09:03	13:54	18:44	31	63	-1	00:44	---
07-01-15	07:55	17:31	06:20	07:26	18:00	19:06	09:04	13:56	18:48	31	63	-0,9	00:48	---
08-01-15	07:55	17:32	06:20	07:26	18:01	19:07	09:04	13:58	18:52	32	64	-0,9	00:51	---
09-01-15	07:55	17:33	06:20	07:25	18:02	19:07	09:04	14:00	18:56	32	64	-0,9	00:54	---
10-01-15	07:55	17:34	06:20	07:25	18:03	19:08	09:04	14:01	18:59	32	65	-0,9	00:56	---
11-01-15	07:55	17:35	06:20	07:25	18:04	19:09	09:04	14:02	19:02	33	66	-0,8	00:58	---
12-01-15	07:54	17:36	06:20	07:25	18:05	19:10	09:03	14:03	19:05	33	66	-0,8	01:00	---
13-01-15	07:54	17:37	06:20	07:25	18:06	19:11	09:02	14:04	19:07	34	67	-0,7	01:01	---
14-01-15	07:54	17:38	06:20	07:25	18:07	19:12	09:00	14:04	19:09	34	68	-0,7	01:02	---
15-01-15	07:53	17:39	06:20	07:24	18:08	19:13	08:58	14:04	19:11	35	68	-0,6	01:03	---
16-01-15	07:53	17:40	06:19	07:24	18:09	19:14	08:56	14:03	19:12	35	69	-0,5	01:03	---
17-01-15	07:53	17:41	06:19	07:24	18:10	19:15	08:53	14:02	19:12	36	70	-0,4	01:02	---
18-01-15	07:52	17:42	06:19	07:23	18:11	19:15	08:50	14:00	19:12	36	70	-0,3	01:01	---
19-01-15	07:52	17:43	06:19	07:23	18:12	19:16	08:46	13:58	19:10	37	71	-0,2	00:58	---
20-01-15	07:51	17:44	06:18	07:23	18:13	19:17	08:42	13:55	19:08	37	71	0	00:55	---
21-01-15	07:51	17:46	06:18	07:22	18:14	19:18	08:37	13:51	19:05	37	72	0,1	00:51	---
22-01-15	07:50	17:47	06:18	07:22	18:15	19:19	08:32	13:46	19:01	38	72	0,3	00:46	---
23-01-15	07:50	17:48	06:17	07:21	18:16	19:20	08:26	13:41	18:57	38	72	----	00:41	---
24-01-15	07:49	17:49	06:17	07:20	18:17	19:21	08:19	13:35	18:51	38	72	----	00:34	---

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 Sul para Este, no instante do seu Nascimento)	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
25-01-15	07:48	17:50	06:16	07:20	18:18	19:22	08:12	13:28	18:44	38	73	----	00:26	---
26-01-15	07:48	17:51	06:16	07:19	18:20	19:23	08:05	13:21	18:36	38	73	----	00:16	---
27-01-15	07:47	17:52	06:15	07:19	18:21	19:24	07:57	13:13	18:28	38	73	----	00:07	---
28-01-15	07:46	17:53	06:14	07:18	18:22	19:25	07:49	13:04	18:19	38	73	----	---	---
29-01-15	07:45	17:55	06:14	07:17	18:23	19:26	07:41	12:55	18:10	38	72	----	---	---
30-01-15	07:45	17:56	06:13	07:16	18:24	19:27	07:32	12:46	18:00	38	72	----	---	---
31-01-15	07:44	17:57	06:13	07:16	18:25	19:28	07:24	12:38	17:51	37	72	----	---	---
01-02-15	07:43	17:58	06:12	07:15	18:26	19:29	07:16	12:29	17:41	37	71	----	---	---
02-02-15	07:42	17:59	06:11	07:14	18:27	19:30	07:08	12:20	17:31	37	71	----	---	00:06
03-02-15	07:41	18:00	06:10	07:13	18:28	19:31	07:01	12:12	17:22	37	71	----	---	00:12
04-02-15	07:40	18:01	06:10	07:12	18:29	19:32	06:54	12:04	17:13	36	70	----	---	00:18
05-02-15	07:39	18:03	06:09	07:11	18:30	19:33	06:48	11:56	17:05	36	70	----	---	00:23
06-02-15	07:38	18:04	06:08	07:10	18:32	19:34	06:42	11:50	16:57	36	70	----	---	00:28
07-02-15	07:37	18:05	06:07	07:10	18:33	19:35	06:36	11:43	16:50	36	69	----	---	00:34
08-02-15	07:36	18:06	06:06	07:09	18:34	19:36	06:31	11:38	16:44	35	69	----	---	00:38
09-02-15	07:35	18:07	06:05	07:08	18:35	19:37	06:27	11:32	16:38	35	69	----	---	00:41
10-02-15	07:34	18:08	06:04	07:06	18:36	19:38	06:23	11:28	16:32	35	68	0,6	---	00:43
11-02-15	07:33	18:09	06:03	07:05	18:37	19:39	06:19	11:24	16:28	35	68	0,6	---	00:46
12-02-15	07:32	18:11	06:02	07:04	18:38	19:40	06:16	11:20	16:24	34	68	0,5	---	00:48
13-02-15	07:31	18:12	06:01	07:03	18:39	19:41	06:14	11:17	16:20	34	68	0,4	---	00:49
14-02-15	07:29	18:13	06:00	07:02	18:40	19:42	06:12	11:14	16:17	34	67	0,4	---	00:50
15-02-15	07:28	18:14	05:59	07:01	18:41	19:43	06:10	11:12	16:14	34	67	0,3	---	00:51
16-02-15	07:27	18:15	05:58	07:00	18:42	19:44	06:08	11:10	16:12	34	67	0,3	---	00:52
17-02-15	07:26	18:16	05:57	06:59	18:43	19:45	06:07	11:09	16:10	34	67	0,2	---	00:52
18-02-15	07:25	18:17	05:56	06:57	18:44	19:46	06:06	11:07	16:09	34	67	0,2	---	00:51
19-02-15	07:23	18:18	05:54	06:56	18:46	19:47	06:05	11:07	16:08	34	67	0,2	---	00:51
20-02-15	07:22	18:20	05:53	06:55	18:47	19:48	06:04	11:06	16:08	34	67	0,1	---	00:51
21-02-15	07:21	18:21	05:52	06:54	18:48	19:49	06:04	11:05	16:07	34	67	0,1	---	00:50
22-02-15	07:19	18:22	05:51	06:52	18:49	19:50	06:03	11:05	16:07	34	67	0,1	---	00:49
23-02-15	07:18	18:23	05:50	06:51	18:50	19:51	06:03	11:05	16:08	34	67	0,1	---	00:48
24-02-15	07:17	18:24	05:48	06:50	18:51	19:52	06:03	11:05	16:08	34	67	0	---	00:47

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 Sul para Este, no instante do seu Nascimento)	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
25-02-15	07:15	18:25	05:47	06:48	18:52	19:53	06:03	11:06	16:09	34	67	0	---	00:45
26-02-15	07:14	18:26	05:46	06:47	18:53	19:54	06:03	11:06	16:10	34	67	0	---	00:44
27-02-15	07:12	18:27	05:44	06:46	18:54	19:55	06:03	11:07	16:11	34	68	0	---	00:43
28-02-15	07:11	18:28	05:43	06:44	18:55	19:56	06:03	11:08	16:13	35	68	0	---	00:41
01-03-15	07:10	18:29	05:41	06:43	18:56	19:58	06:03	11:09	16:15	35	68	0	---	00:40
02-03-15	07:08	18:30	05:40	06:42	18:57	19:59	06:04	11:10	16:16	35	68	0	---	00:38
03-03-15	07:07	18:31	05:39	06:40	18:58	20:00	06:04	11:11	16:18	35	69	-0,1	---	00:36
04-03-15	07:05	18:32	05:37	06:39	18:59	20:01	06:04	11:12	16:21	35	69	-0,1	---	00:35
05-03-15	07:04	18:33	05:36	06:37	19:00	20:02	06:04	11:14	16:23	36	69	-0,1	---	00:33
06-03-15	07:02	18:34	05:34	06:36	19:01	20:03	06:05	11:15	16:26	36	70	-0,1	---	00:31
07-03-15	07:01	18:35	05:33	06:34	19:02	20:04	06:05	11:16	16:28	36	70	-0,1	---	00:29
08-03-15	06:59	18:36	05:31	06:33	19:03	20:05	06:05	11:18	16:31	37	71	-0,2	---	00:28
09-03-15	06:58	18:37	05:30	06:31	19:04	20:06	06:06	11:20	16:34	37	71	-0,2	---	00:25
10-03-15	06:56	18:38	05:28	06:30	19:05	20:07	06:06	11:21	16:37	38	72	-0,2	---	00:24
11-03-15	06:55	18:39	05:27	06:28	19:06	20:08	06:06	11:23	16:40	38	72	-0,2	---	00:22
12-03-15	06:53	18:40	05:25	06:27	19:07	20:09	06:07	11:25	16:44	38	73	-0,2	---	00:20
13-03-15	06:52	18:41	05:23	06:25	19:08	20:10	06:07	11:27	16:47	39	73	-0,3	---	00:18
14-03-15	06:50	18:42	05:22	06:24	19:09	20:11	06:07	11:29	16:51	39	74	-0,3	---	00:17
15-03-15	06:49	18:43	05:20	06:22	19:10	20:12	06:07	11:31	16:55	40	75	-0,3	---	00:15
16-03-15	06:47	18:44	05:19	06:21	19:11	20:13	06:08	11:33	16:58	40	75	-0,4	---	00:13
17-03-15	06:46	18:45	05:17	06:19	19:12	20:14	06:08	11:35	17:02	41	76	-0,4	---	00:11
18-03-15	06:44	18:46	05:15	06:18	19:13	20:15	06:08	11:37	17:06	41	77	-0,4	---	00:10
19-03-15	06:43	18:47	05:14	06:16	19:14	20:16	06:08	11:39	17:10	42	77	-0,5	---	00:08
20-03-15	06:41	18:48	05:12	06:14	19:15	20:17	06:08	11:41	17:15	43	78	-0,5	---	00:06
21-03-15	06:39	18:49	05:10	06:13	19:16	20:18	06:09	11:43	17:19	43	79	-0,6	---	00:04
22-03-15	06:38	18:50	05:09	06:11	19:17	20:20	06:09	11:46	17:23	44	80	-0,6	---	00:02
23-03-15	06:36	18:51	05:07	06:10	19:18	20:21	06:09	11:48	17:28	45	81	-0,7	---	00:01
24-03-15	06:35	18:52	05:05	06:08	19:19	20:22	06:09	11:50	17:33	45	82	-0,7	---	---
25-03-15	06:33	18:53	05:04	06:07	19:20	20:23	06:09	11:53	17:37	46	82	-0,8	---	---
26-03-15	06:32	18:54	05:02	06:05	19:21	20:24	06:09	11:55	17:42	47	83	-0,8	---	---
27-03-15	06:30	18:55	05:00	06:03	19:22	20:25	06:10	11:58	17:47	47	84	-0,9	---	---

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 Sul para Este, no instante do seu Nascimento)	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
28-03-15	06:28	18:56	04:58	06:02	19:23	20:26	06:10	12:00	17:52	48	85	-0,9	---	---
29-03-15	07:27	19:57	05:57	07:00	20:24	21:27	07:10	13:03	18:57	49	86	-1	---	---
30-03-15	07:25	19:58	05:55	06:59	20:25	21:29	07:10	13:06	19:03	50	87	-1,1	---	---
31-03-15	07:24	19:59	05:53	06:57	20:26	21:30	07:10	13:09	19:08	51	88	-1,2	---	---
01-04-15	07:22	20:00	05:52	06:55	20:27	21:31	07:11	13:12	19:14	51	89	-1,2	---	---
02-04-15	07:21	20:01	05:50	06:54	20:28	21:32	07:11	13:14	19:19	52	90	-1,3	---	---
03-04-15	07:19	20:02	05:48	06:52	20:29	21:33	07:11	13:17	19:25	53	92	-1,4	---	---
04-04-15	07:18	20:03	05:46	06:51	20:30	21:34	07:11	13:21	19:31	54	93	-1,5	---	---
05-04-15	07:16	20:04	05:45	06:49	20:31	21:36	07:12	13:24	19:37	55	94	-1,6	---	---
06-04-15	07:15	20:05	05:43	06:48	20:32	21:37	07:12	13:27	19:43	56	95	-1,7	---	---
07-04-15	07:13	20:06	05:41	06:46	20:33	21:38	07:12	13:30	19:50	57	96	-1,8	---	---
08-04-15	07:12	20:06	05:39	06:44	20:34	21:39	07:13	13:34	19:56	58	97	-1,9	---	---
09-04-15	07:10	20:07	05:37	06:43	20:35	21:40	07:13	13:37	20:03	58	98	-2	---	---
10-04-15	07:09	20:08	05:36	06:41	20:36	21:42	07:14	13:41	20:09	59	100	---	---	---
11-04-15	07:07	20:09	05:34	06:40	20:37	21:43	07:14	13:44	20:16	60	101	-2,1	---	---
12-04-15	07:06	20:10	05:32	06:38	20:38	21:44	07:15	13:48	20:23	61	102	-2,1	---	---
13-04-15	07:04	20:11	05:30	06:37	20:39	21:45	07:16	13:52	20:30	62	103	-2	---	---
14-04-15	07:03	20:12	05:29	06:35	20:40	21:47	07:16	13:56	20:37	63	104	-2	---	---
15-04-15	07:01	20:13	05:27	06:34	20:41	21:48	07:17	14:00	20:44	64	106	-1,9	00:03	---
16-04-15	07:00	20:14	05:25	06:32	20:42	21:49	07:18	14:03	20:51	65	107	-1,9	00:09	---
17-04-15	06:58	20:15	05:23	06:31	20:43	21:51	07:19	14:07	20:58	66	108	-1,8	00:15	---
18-04-15	06:57	20:16	05:22	06:29	20:44	21:52	07:20	14:11	21:04	67	109	-1,7	00:20	---
19-04-15	06:56	20:17	05:20	06:28	20:45	21:53	07:21	14:15	21:11	67	110	-1,6	00:26	---
20-04-15	06:54	20:18	05:18	06:26	20:46	21:54	07:21	14:19	21:18	68	111	-1,6	00:32	---
21-04-15	06:53	20:19	05:16	06:25	20:47	21:56	07:22	14:23	21:24	69	112	-1,5	00:37	---
22-04-15	06:51	20:20	05:15	06:23	20:48	21:57	07:23	14:26	21:31	70	113	-1,4	00:43	---
23-04-15	06:50	20:21	05:13	06:22	20:49	21:58	07:24	14:30	21:37	70	114	-1,3	00:48	---
24-04-15	06:49	20:22	05:11	06:21	20:50	22:00	07:25	14:33	21:43	71	115	-1,2	00:53	---
25-04-15	06:47	20:23	05:09	06:19	20:51	22:01	07:26	14:37	21:48	72	116	-1,1	00:57	---
26-04-15	06:46	20:24	05:08	06:18	20:52	22:02	07:27	14:40	21:54	72	117	-1	01:02	---
27-04-15	06:45	20:25	05:06	06:17	20:53	22:04	07:28	14:43	21:59	73	118	-0,8	01:06	---

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 Sul para Este, no instante do seu Nascimento)	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
28-04-15	06:44	20:26	05:04	06:15	20:54	22:05	07:28	14:45	22:03	73	118	-0,7	01:09	---
29-04-15	06:42	20:27	05:03	06:14	20:55	22:07	07:29	14:48	22:07	74	119	-0,6	01:12	---
30-04-15	06:41	20:28	05:01	06:13	20:56	22:08	07:30	14:50	22:11	74	119	-0,5	01:15	---
01-05-15	06:40	20:29	04:59	06:11	20:57	22:09	07:30	14:52	22:15	75	120	-0,4	01:18	---
02-05-15	06:39	20:29	04:58	06:10	20:58	22:11	07:31	14:54	22:18	75	120	-0,3	01:20	---
03-05-15	06:38	20:30	04:56	06:09	20:59	22:12	07:31	14:55	22:20	75	121	-0,2	01:21	---
04-05-15	06:36	20:31	04:55	06:07	21:00	22:13	07:31	14:56	22:22	76	121	-0,1	01:22	---
05-05-15	06:35	20:32	04:53	06:06	21:01	22:15	07:31	14:57	22:24	76	122	0	01:23	---
06-05-15	06:34	20:33	04:52	06:05	21:02	22:16	07:31	14:58	22:25	76	122	0,1	01:23	---
07-05-15	06:33	20:34	04:50	06:04	21:03	22:18	07:31	14:58	22:26	76	122	0,2	01:23	---
08-05-15	06:32	20:35	04:48	06:03	21:04	22:19	07:30	14:58	22:26	76	122	0,3	01:22	---
09-05-15	06:31	20:36	04:47	06:02	21:05	22:20	07:30	14:58	22:26	76	122	0,4	01:21	---
10-05-15	06:30	20:37	04:45	06:00	21:06	22:22	07:29	14:57	22:26	76	122	0,5	01:20	---
11-05-15	06:29	20:38	04:44	05:59	21:08	22:23	07:28	14:56	22:24	76	122	0,6	01:16	---
12-05-15	06:28	20:39	04:43	05:58	21:09	22:25	07:27	14:55	22:23	76	122	0,7	01:14	---
13-05-15	06:27	20:40	04:41	05:57	21:10	22:26	07:25	14:53	22:21	76	122	----	01:11	---
14-05-15	06:26	20:41	04:40	05:56	21:11	22:27	07:24	14:51	22:18	76	122	----	01:07	---
15-05-15	06:25	20:42	04:38	05:55	21:12	22:29	07:22	14:49	22:15	76	122	----	01:03	---
16-05-15	06:24	20:42	04:37	05:54	21:13	22:30	07:20	14:46	22:12	76	122	----	00:59	---
17-05-15	06:23	20:43	04:36	05:53	21:13	22:32	07:17	14:43	22:08	76	122	----	00:55	---
18-05-15	06:23	20:44	04:34	05:52	21:14	22:33	07:15	14:39	22:03	76	121	----	00:49	---
19-05-15	06:22	20:45	04:33	05:52	21:15	22:34	07:12	14:35	21:58	75	121	----	00:43	---
20-05-15	06:21	20:46	04:32	05:51	21:16	22:36	07:09	14:31	21:53	75	121	----	00:37	---
21-05-15	06:20	20:47	04:31	05:50	21:17	22:37	07:06	14:27	21:47	75	120	----	00:30	---
22-05-15	06:20	20:48	04:30	05:49	21:18	22:38	07:02	14:22	21:41	75	120	----	00:23	---
23-05-15	06:19	20:49	04:28	05:48	21:19	22:39	06:58	14:17	21:35	74	120	----	00:16	---
24-05-15	06:18	20:49	04:27	05:48	21:20	22:41	06:55	14:12	21:28	74	119	----	00:08	---
25-05-15	06:18	20:50	04:26	05:47	21:21	22:42	06:50	14:06	21:21	74	119	----	00:00	---
26-05-15	06:17	20:51	04:25	05:46	21:22	22:43	06:46	14:01	21:14	73	118	----	---	---
27-05-15	06:16	20:52	04:24	05:46	21:23	22:44	06:42	13:55	21:07	73	118	----	---	---
28-05-15	06:16	20:52	04:23	05:45	21:23	22:46	06:37	13:49	21:00	73	117	----	---	---

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 Sul para Este, no instante do seu Nascimento)	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
29-05-15	06:15	20:53	04:22	05:44	21:24	22:47	06:33	13:43	20:52	72	117	----	---	---	
30-05-15	06:15	20:54	04:21	05:44	21:25	22:48	06:28	13:37	20:45	72	116	----	---	---	
31-05-15	06:14	20:55	04:21	05:43	21:26	22:49	06:23	13:31	20:37	71	116	----	---	---	
01-06-15	06:14	20:55	04:20	05:43	21:27	22:50	06:18	13:25	20:30	71	115	----	---	---	
02-06-15	06:14	20:56	04:19	05:42	21:27	22:51	06:14	13:19	20:23	71	115	----	---	---	
03-06-15	06:13	20:57	04:18	05:42	21:28	22:52	06:09	13:13	20:16	70	115	----	---	---	
04-06-15	06:13	20:57	04:18	05:42	21:29	22:53	06:04	13:07	20:09	70	114	----	---	---	
05-06-15	06:13	20:58	04:17	05:41	21:30	22:54	05:59	13:01	20:03	70	114	----	---	---	
06-06-15	06:12	20:59	04:16	05:41	21:30	22:55	05:55	12:56	19:56	70	113	----	---	---	
07-06-15	06:12	20:59	04:16	05:41	21:31	22:56	05:50	12:51	19:51	69	113	----	---	---	
08-06-15	06:12	21:00	04:15	05:40	21:31	22:56	05:46	12:46	19:45	69	113	----	---	---	
09-06-15	06:12	21:00	04:15	05:40	21:32	22:57	05:42	12:41	19:40	69	113	----	---	---	
10-06-15	06:12	21:01	04:15	05:40	21:33	22:58	05:38	12:37	19:35	69	113	----	---	00:02	
11-06-15	06:12	21:01	04:14	05:40	21:33	22:59	05:34	12:32	19:31	69	112	----	---	00:06	
12-06-15	06:11	21:02	04:14	05:40	21:34	22:59	05:30	12:28	19:27	69	112	----	---	00:10	
13-06-15	06:11	21:02	04:14	05:40	21:34	23:00	05:26	12:25	19:23	69	112	----	---	00:14	
14-06-15	06:11	21:03	04:14	05:40	21:35	23:01	05:23	12:22	19:20	69	112	----	---	00:17	
15-06-15	06:11	21:03	04:13	05:40	21:35	23:01	05:20	12:19	19:18	69	112	----	---	00:20	
16-06-15	06:11	21:03	04:13	05:40	21:35	23:02	05:17	12:16	19:15	69	113	----	---	00:23	
17-06-15	06:12	21:04	04:13	05:40	21:36	23:02	05:14	12:13	19:13	69	113	----	---	00:26	
18-06-15	06:12	21:04	04:13	05:40	21:36	23:02	05:11	12:11	19:12	69	113	----	---	00:29	
19-06-15	06:12	21:04	04:13	05:40	21:36	23:03	05:09	12:10	19:11	69	113	0,9	---	00:31	
20-06-15	06:12	21:05	04:14	05:40	21:37	23:03	05:06	12:08	19:10	70	113	0,8	---	00:34	
21-06-15	06:12	21:05	04:14	05:40	21:37	23:03	05:04	12:07	19:10	70	114	0,7	---	00:36	
22-06-15	06:12	21:05	04:14	05:40	21:37	23:03	05:02	12:06	19:10	70	114	0,6	---	00:38	
23-06-15	06:13	21:05	04:14	05:41	21:37	23:04	05:01	12:05	19:10	70	114	0,5	---	00:40	
24-06-15	06:13	21:05	04:15	05:41	21:37	23:04	04:59	12:05	19:11	71	115	0,5	---	00:42	
25-06-15	06:13	21:05	04:15	05:41	21:37	23:04	04:58	12:05	19:12	71	115	0,4	---	00:43	
26-06-15	06:14	21:05	04:15	05:42	21:37	23:04	04:57	12:05	19:13	71	115	0,3	---	00:45	
27-06-15	06:14	21:06	04:16	05:42	21:37	23:04	04:57	12:06	19:15	71	116	0,2	---	00:45	
28-06-15	06:14	21:06	04:16	05:42	21:37	23:03	04:56	12:06	19:17	72	116	0,1	---	00:46	

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 Sul para Este, no instante do seu Nascimento)	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
29-06-15	06:15	21:06	04:17	05:43	21:37	23:03	04:56	12:07	19:20	72	117	0	---	00:47
30-06-15	06:15	21:05	04:17	05:43	21:37	23:03	04:56	12:09	19:22	72	117	-0,1	---	00:47
01-07-15	06:16	21:05	04:18	05:44	21:37	23:03	04:56	12:10	19:25	73	117	-0,1	---	00:48
02-07-15	06:16	21:05	04:19	05:44	21:37	23:02	04:57	12:12	19:29	73	118	-0,2	---	00:47
03-07-15	06:16	21:05	04:19	05:45	21:37	23:02	04:58	12:15	19:32	73	118	-0,3	---	00:47
04-07-15	06:17	21:05	04:20	05:45	21:37	23:02	04:59	12:17	19:36	74	119	-0,4	---	00:46
05-07-15	06:18	21:05	04:21	05:46	21:36	23:01	05:01	12:20	19:40	74	119	-0,5	---	00:45
06-07-15	06:18	21:05	04:22	05:47	21:36	23:01	05:03	12:23	19:44	74	119	-0,6	---	00:44
07-07-15	06:19	21:04	04:23	05:47	21:36	23:00	05:05	12:26	19:48	74	120	-0,7	---	00:42
08-07-15	06:19	21:04	04:24	05:48	21:35	22:59	05:07	12:30	19:53	75	120	-0,8	---	00:41
09-07-15	06:20	21:04	04:25	05:48	21:35	22:59	05:10	12:34	19:58	75	120	-1	---	00:38
10-07-15	06:21	21:03	04:25	05:49	21:35	22:58	05:14	12:38	20:03	75	121	-1,1	---	00:35
11-07-15	06:21	21:03	04:26	05:50	21:34	22:57	05:17	12:42	20:08	75	121	-1,2	---	00:33
12-07-15	06:22	21:02	04:28	05:51	21:34	22:56	05:21	12:47	20:13	75	121	-1,3	---	00:30
13-07-15	06:23	21:02	04:29	05:51	21:33	22:56	05:26	12:52	20:18	75	121	-1,4	---	00:25
14-07-15	06:23	21:02	04:30	05:52	21:33	22:55	05:30	12:56	20:23	75	121	-1,5	---	00:22
15-07-15	06:24	21:01	04:31	05:53	21:32	22:54	05:35	13:02	20:28	75	121	-1,6	---	00:18
16-07-15	06:25	21:00	04:32	05:54	21:31	22:53	05:41	13:07	20:33	75	121	-1,7	---	00:13
17-07-15	06:25	21:00	04:33	05:55	21:31	22:52	05:46	13:12	20:37	75	121	-1,8	---	00:09
18-07-15	06:26	20:59	04:34	05:55	21:30	22:51	05:52	13:17	20:42	75	121	-1,8	---	00:03
19-07-15	06:27	20:59	04:35	05:56	21:29	22:50	05:58	13:22	20:46	75	121	-1,9	---	---
20-07-15	06:28	20:58	04:37	05:57	21:29	22:49	06:04	13:28	20:51	75	120	-2	---	---
21-07-15	06:29	20:57	04:38	05:58	21:28	22:48	06:11	13:33	20:55	74	120	-2	---	---
22-07-15	06:29	20:57	04:39	05:59	21:27	22:46	06:17	13:38	20:58	74	119	-2,1	---	---
23-07-15	06:30	20:56	04:40	06:00	21:26	22:45	06:24	13:43	21:02	74	119	-2,1	---	---
24-07-15	06:31	20:55	04:42	06:01	21:25	22:44	06:30	13:48	21:05	73	118	-2,1	---	---
25-07-15	06:32	20:54	04:43	06:02	21:24	22:43	06:37	13:53	21:08	73	118	-2	---	---
26-07-15	06:33	20:53	04:44	06:02	21:24	22:41	06:44	13:58	21:11	72	117	-1,9	---	---
27-07-15	06:33	20:53	04:46	06:03	21:23	22:40	06:50	14:03	21:14	72	117	-1,8	---	---
28-07-15	06:34	20:52	04:47	06:04	21:22	22:39	06:57	14:07	21:16	71	116	-1,7	---	---
29-07-15	06:35	20:51	04:48	06:05	21:21	22:37	07:03	14:11	21:18	71	115	-1,6	---	---

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 Sul para Este, no instante do seu Nascimento)	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
30-07-15	06:36	20:50	04:50	06:06	21:20	22:36	07:09	14:15	21:20	70	114	-1,5	00:00	---
31-07-15	06:37	20:49	04:51	06:07	21:18	22:34	07:16	14:19	21:22	70	113	-1,4	00:04	---
01-08-15	06:38	20:48	04:52	06:08	21:17	22:33	07:22	14:23	21:23	69	113	-1,3	00:06	---
02-08-15	06:39	20:47	04:54	06:09	21:16	22:32	07:28	14:27	21:24	68	112	-1,2	00:08	---
03-08-15	06:40	20:46	04:55	06:10	21:15	22:30	07:34	14:30	21:25	68	111	-1,2	00:10	---
04-08-15	06:40	20:45	04:56	06:11	21:14	22:28	07:39	14:34	21:26	67	110	-1,1	00:12	---
05-08-15	06:41	20:44	04:58	06:12	21:13	22:27	07:45	14:37	21:27	66	109	-1	00:14	---
06-08-15	06:42	20:43	04:59	06:13	21:12	22:25	07:50	14:40	21:27	66	108	-0,9	00:15	---
07-08-15	06:43	20:41	05:00	06:14	21:10	22:24	07:56	14:42	21:28	65	107	-0,9	00:18	---
08-08-15	06:44	20:40	05:02	06:15	21:09	22:22	08:01	14:45	21:28	64	106	-0,8	00:19	---
09-08-15	06:45	20:39	05:03	06:16	21:08	22:21	08:06	14:48	21:28	63	105	-0,7	00:20	---
10-08-15	06:46	20:38	05:04	06:17	21:07	22:19	08:11	14:50	21:28	63	105	-0,7	00:21	---
11-08-15	06:47	20:37	05:06	06:18	21:05	22:17	08:15	14:52	21:28	62	104	-0,6	00:23	---
12-08-15	06:48	20:35	05:07	06:19	21:04	22:16	08:20	14:54	21:28	61	103	-0,5	00:24	---
13-08-15	06:48	20:34	05:08	06:20	21:03	22:14	08:24	14:56	21:27	61	102	-0,5	00:24	---
14-08-15	06:49	20:33	05:10	06:21	21:01	22:12	08:29	14:58	21:27	60	101	-0,4	00:26	---
15-08-15	06:50	20:32	05:11	06:22	21:00	22:11	08:33	15:00	21:26	59	100	-0,4	00:26	---
16-08-15	06:51	20:30	05:12	06:23	20:59	22:09	08:37	15:02	21:25	58	99	-0,3	00:26	---
17-08-15	06:52	20:29	05:13	06:24	20:57	22:07	08:41	15:03	21:24	58	98	-0,3	00:27	---
18-08-15	06:53	20:28	05:15	06:25	20:56	22:06	08:45	15:05	21:24	57	97	-0,3	00:28	---
19-08-15	06:54	20:26	05:16	06:26	20:54	22:04	08:48	15:06	21:23	56	96	-0,2	00:29	---
20-08-15	06:55	20:25	05:17	06:27	20:53	22:02	08:52	15:07	21:21	56	95	-0,2	00:28	---
21-08-15	06:56	20:24	05:19	06:28	20:52	22:00	08:55	15:08	21:20	55	94	-0,2	00:28	---
22-08-15	06:57	20:22	05:20	06:29	20:50	21:59	08:58	15:09	21:19	54	94	-0,1	00:29	---
23-08-15	06:57	20:21	05:21	06:30	20:49	21:57	09:02	15:10	21:18	54	93	-0,1	00:29	---
24-08-15	06:58	20:19	05:22	06:31	20:47	21:55	09:04	15:11	21:16	53	92	-0,1	00:29	---
25-08-15	06:59	20:18	05:24	06:32	20:46	21:53	09:07	15:12	21:15	52	91	0	00:29	---
26-08-15	07:00	20:16	05:25	06:33	20:44	21:51	09:10	15:12	21:13	52	90	0	00:29	---
27-08-15	07:01	20:15	05:26	06:33	20:43	21:50	09:12	15:13	21:12	51	89	0	00:29	---
28-08-15	07:02	20:14	05:27	06:34	20:41	21:48	09:15	15:13	21:10	50	88	0	00:29	---
29-08-15	07:03	20:12	05:28	06:35	20:39	21:46	09:17	15:13	21:08	50	88	0,1	00:29	---



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 Sul para Este, no instante do seu Nascimento)	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
30-08-15	07:04	20:11	05:30	06:36	20:38	21:44	09:19	15:13	21:06	49	87	0,1	00:28	---
31-08-15	07:05	20:09	05:31	06:37	20:36	21:43	09:21	15:13	21:04	48	86	0,1	00:28	---
01-09-15	07:05	20:08	05:32	06:38	20:35	21:41	09:23	15:13	21:02	48	85	0,1	00:27	---
02-09-15	07:06	20:06	05:33	06:39	20:33	21:39	09:24	15:13	21:00	47	85	0,1	00:27	---
03-09-15	07:07	20:04	05:34	06:40	20:32	21:37	09:26	15:12	20:58	47	84	0,2	00:26	---
04-09-15	07:08	20:03	05:35	06:41	20:30	21:35	09:27	15:12	20:56	46	83	0,2	00:26	---
05-09-15	07:09	20:01	05:37	06:42	20:28	21:33	09:28	15:11	20:53	46	83	0,2	00:25	---
06-09-15	07:10	20:00	05:38	06:43	20:27	21:32	09:28	15:10	20:51	45	82	0,2	00:24	---
07-09-15	07:11	19:58	05:39	06:44	20:25	21:30	09:29	15:09	20:48	45	81	0,2	00:23	---
08-09-15	07:12	19:57	05:40	06:45	20:24	21:28	09:29	15:07	20:45	44	81	0,3	00:21	---
09-09-15	07:13	19:55	05:41	06:46	20:22	21:26	09:29	15:06	20:42	44	80	0,3	00:20	---
10-09-15	07:13	19:54	05:42	06:47	20:20	21:25	09:29	15:04	20:39	44	80	0,3	00:19	---
11-09-15	07:14	19:52	05:43	06:47	20:19	21:23	09:28	15:02	20:36	43	79	0,4	00:17	---
12-09-15	07:15	19:50	05:44	06:48	20:17	21:21	09:27	15:00	20:33	43	79	0,4	00:16	---
13-09-15	07:16	19:49	05:45	06:49	20:16	21:19	09:25	14:58	20:30	43	79	0,4	00:14	---
14-09-15	07:17	19:47	05:47	06:50	20:14	21:17	09:23	14:55	20:26	43	78	0,5	00:12	---
15-09-15	07:18	19:46	05:48	06:51	20:12	21:16	09:21	14:52	20:22	42	78	0,5	00:10	---
16-09-15	07:19	19:44	05:49	06:52	20:11	21:14	09:18	14:48	20:19	42	78	0,6	00:08	---
17-09-15	07:20	19:42	05:50	06:53	20:09	21:12	09:15	14:45	20:14	42	78	0,6	00:05	---
18-09-15	07:20	19:41	05:51	06:54	20:07	21:10	09:11	14:40	20:10	42	78	0,7	00:03	---
19-09-15	07:21	19:39	05:52	06:55	20:06	21:09	09:06	14:36	20:06	42	78	0,8	00:00	---
20-09-15	07:22	19:38	05:53	06:56	20:04	21:07	09:01	14:31	20:01	42	78	----	---	---
21-09-15	07:23	19:36	05:54	06:57	20:03	21:05	08:55	14:26	19:56	42	78	----	---	---
22-09-15	07:24	19:34	05:55	06:58	20:01	21:03	08:49	14:20	19:52	43	78	----	---	---
23-09-15	07:25	19:33	05:56	06:58	19:59	21:02	08:42	14:14	19:46	43	79	----	---	---
24-09-15	07:26	19:31	05:57	06:59	19:58	21:00	08:35	14:08	19:41	43	79	----	---	---
25-09-15	07:27	19:30	05:58	07:00	19:56	20:58	08:26	14:01	19:36	44	80	----	---	---
26-09-15	07:28	19:28	05:59	07:01	19:55	20:57	08:18	13:54	19:30	44	80	----	---	---
27-09-15	07:29	19:26	06:00	07:02	19:53	20:55	08:09	13:46	19:25	45	81	----	---	---
28-09-15	07:29	19:25	06:01	07:03	19:51	20:53	07:59	13:39	19:19	45	82	----	---	---
29-09-15	07:30	19:23	06:02	07:04	19:50	20:52	07:50	13:31	19:14	46	83	----	---	---

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 Sul para Este, no instante do seu Nascimento)	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
30-09-15	07:31	19:22	06:03	07:05	19:48	20:50	07:40	13:24	19:09	47	84	----	---	---
01-10-15	07:32	19:20	06:04	07:06	19:47	20:48	07:30	13:16	19:04	48	85	----	---	---
02-10-15	07:33	19:19	06:05	07:07	19:45	20:47	07:20	13:09	18:59	48	85	----	---	---
03-10-15	07:34	19:17	06:06	07:08	19:44	20:45	07:11	13:02	18:54	49	86	----	---	---
04-10-15	07:35	19:15	06:07	07:08	19:42	20:44	07:02	12:55	18:49	50	87	----	---	00:06
05-10-15	07:36	19:14	06:08	07:09	19:40	20:42	06:53	12:49	18:45	50	88	----	---	00:16
06-10-15	07:37	19:12	06:09	07:10	19:39	20:41	06:46	12:43	18:41	51	89	----	---	00:24
07-10-15	07:38	19:11	06:10	07:11	19:37	20:39	06:39	12:38	18:38	51	89	----	---	00:32
08-10-15	07:39	19:09	06:10	07:12	19:36	20:38	06:33	12:34	18:35	52	90	----	---	00:39
09-10-15	07:40	19:08	06:11	07:13	19:34	20:36	06:28	12:30	18:32	52	90	----	---	00:45
10-10-15	07:41	19:06	06:12	07:14	19:33	20:35	06:24	12:26	18:29	52	91	0,4	---	00:50
11-10-15	07:42	19:05	06:13	07:15	19:32	20:33	06:20	12:24	18:27	52	91	0,2	---	00:55
12-10-15	07:43	19:03	06:14	07:16	19:30	20:32	06:18	12:22	18:25	52	91	0	---	00:58
13-10-15	07:44	19:02	06:15	07:17	19:29	20:30	06:16	12:20	18:24	52	91	-0,2	---	01:01
14-10-15	07:45	19:01	06:16	07:18	19:27	20:29	06:15	12:19	18:22	52	91	-0,3	---	01:03
15-10-15	07:46	18:59	06:17	07:19	19:26	20:27	06:15	12:18	18:21	52	91	-0,4	---	01:04
16-10-15	07:47	18:58	06:18	07:20	19:24	20:26	06:16	12:18	18:20	52	90	-0,5	---	01:04
17-10-15	07:48	18:56	06:19	07:21	19:23	20:25	06:17	12:19	18:19	51	90	-0,6	---	01:04
18-10-15	07:49	18:55	06:20	07:22	19:22	20:23	06:19	12:19	18:19	51	89	-0,7	---	01:03
19-10-15	07:50	18:53	06:21	07:23	19:20	20:22	06:21	12:20	18:18	51	89	-0,8	---	01:02
20-10-15	07:51	18:52	06:22	07:24	19:19	20:21	06:24	12:21	18:18	50	88	-0,9	---	01:00
21-10-15	07:52	18:51	06:23	07:25	19:18	20:19	06:27	12:22	18:17	50	87	-0,9	---	00:58
22-10-15	07:53	18:49	06:24	07:26	19:16	20:18	06:30	12:24	18:17	49	87	-1	---	00:56
23-10-15	07:54	18:48	06:25	07:27	19:15	20:17	06:33	12:25	18:16	48	86	-1	---	00:54
24-10-15	07:55	18:47	06:26	07:28	19:14	20:16	06:37	12:27	18:16	48	85	-1,1	---	00:51
25-10-15	07:56	18:45	06:27	07:29	19:13	20:14	06:41	12:29	18:16	47	84	-1,1	---	00:48
26-10-15	06:57	17:44	05:28	06:30	18:11	19:13	05:45	11:31	17:16	46	84	-1,1	---	00:45
27-10-15	06:58	17:43	05:29	06:31	18:10	19:12	05:49	11:33	17:16	46	83	-1,1	---	00:42
28-10-15	06:59	17:42	05:29	06:32	18:09	19:11	05:53	11:35	17:16	45	82	-1,1	---	00:39
29-10-15	07:00	17:41	05:30	06:33	18:08	19:10	05:58	11:37	17:16	44	81	-1,2	---	00:35
30-10-15	07:01	17:39	05:31	06:34	18:07	19:09	06:02	11:39	17:16	44	80	-1,2	---	00:32

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 Sul para Este, no instante do seu Nascimento)	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
31-10-15	07:02	17:38	05:32	06:35	18:06	19:08	06:06	11:41	17:15	43	79	-1,2	---	00:29
01-11-15	07:03	17:37	05:33	06:36	18:05	19:07	06:11	11:44	17:15	42	78	-1,2	---	00:25
02-11-15	07:04	17:36	05:34	06:37	18:03	19:06	06:15	11:46	17:15	42	77	-1,2	---	00:22
03-11-15	07:05	17:35	05:35	06:38	18:02	19:05	06:20	11:48	17:15	41	77	-1,2	---	00:18
04-11-15	07:06	17:34	05:36	06:39	18:01	19:04	06:24	11:50	17:16	40	76	-1,2	---	00:15
05-11-15	07:07	17:33	05:37	06:40	18:00	19:03	06:29	11:53	17:16	40	75	-1,2	---	00:11
06-11-15	07:09	17:32	05:38	06:41	17:59	19:02	06:33	11:55	17:16	39	74	-1,2	---	00:08
07-11-15	07:10	17:31	05:39	06:42	17:59	19:01	06:38	11:57	17:16	38	73	-1,2	---	00:04
08-11-15	07:11	17:30	05:40	06:43	17:58	19:01	06:42	12:00	17:16	38	72	-1,2	---	00:01
09-11-15	07:12	17:29	05:41	06:44	17:57	19:00	06:47	12:02	17:16	37	72	-1,2	---	---
10-11-15	07:13	17:28	05:42	06:45	17:56	18:59	06:51	12:04	17:17	37	71	-1,2	---	---
11-11-15	07:14	17:27	05:43	06:46	17:55	18:58	06:56	12:07	17:17	36	70	-1,2	---	---
12-11-15	07:15	17:26	05:44	06:47	17:54	18:58	07:00	12:09	17:17	35	69	-1,2	---	---
13-11-15	07:16	17:25	05:45	06:48	17:54	18:57	07:04	12:11	17:18	35	69	-1,2	---	---
14-11-15	07:17	17:24	05:46	06:49	17:53	18:56	07:09	12:14	17:18	34	68	-1,2	---	---
15-11-15	07:19	17:24	05:47	06:50	17:52	18:56	07:13	12:16	17:19	34	67	-1,2	---	---
16-11-15	07:20	17:23	05:48	06:51	17:51	18:55	07:18	12:19	17:19	33	66	----	---	---
17-11-15	07:21	17:22	05:48	06:52	17:51	18:54	07:22	12:21	17:20	33	66	----	---	---
18-11-15	07:22	17:22	05:49	06:53	17:50	18:54	07:26	12:24	17:20	32	65	----	---	---
19-11-15	07:23	17:21	05:50	06:54	17:50	18:53	07:30	12:26	17:21	32	64	----	---	---
20-11-15	07:24	17:20	05:51	06:55	17:49	18:53	07:35	12:29	17:22	31	64	-1,2	---	---
21-11-15	07:25	17:20	05:52	06:56	17:48	18:53	07:39	12:31	17:23	31	63	-1,1	---	---
22-11-15	07:26	17:19	05:53	06:57	17:48	18:52	07:43	12:34	17:24	31	63	-1,1	---	---
23-11-15	07:27	17:19	05:54	06:58	17:48	18:52	07:47	12:36	17:25	30	62	-1,1	---	---
24-11-15	07:28	17:18	05:55	06:59	17:47	18:51	07:51	12:39	17:26	30	62	-1,1	---	---
25-11-15	07:29	17:18	05:56	07:00	17:47	18:51	07:56	12:42	17:27	29	61	-1	---	---
26-11-15	07:30	17:17	05:57	07:01	17:46	18:51	08:00	12:44	17:29	29	61	-1	---	---
27-11-15	07:31	17:17	05:58	07:02	17:46	18:51	08:04	12:47	17:30	29	60	-1	---	---
28-11-15	07:32	17:17	05:59	07:03	17:46	18:50	08:08	12:50	17:32	28	60	-1	---	---
29-11-15	07:33	17:16	05:59	07:04	17:45	18:50	08:12	12:53	17:33	28	59	-0,9	---	---
30-11-15	07:34	17:16	06:00	07:05	17:45	18:50	08:15	12:55	17:35	28	59	-0,9	---	---

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 Sul para Este, no instante do seu Nascimento)	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
01-12-15	07:35	17:16	06:01	07:06	17:45	18:50	08:19	12:58	17:37	28	59	-0,9	---	---
02-12-15	07:36	17:15	06:02	07:07	17:45	18:50	08:23	13:01	17:39	27	58	-0,9	---	---
03-12-15	07:37	17:15	06:03	07:08	17:45	18:50	08:27	13:04	17:41	27	58	-0,9	---	---
04-12-15	07:38	17:15	06:04	07:09	17:45	18:50	08:30	13:07	17:43	27	58	-0,9	---	---
05-12-15	07:39	17:15	06:04	07:10	17:45	18:50	08:34	13:10	17:45	27	58	-0,9	00:00	---
06-12-15	07:40	17:15	06:05	07:10	17:45	18:50	08:37	13:12	17:47	27	57	-0,9	00:02	---
07-12-15	07:41	17:15	06:06	07:11	17:45	18:50	08:41	13:15	17:50	27	57	-0,8	00:05	---
08-12-15	07:42	17:15	06:07	07:12	17:45	18:50	08:44	13:18	17:52	27	57	-0,8	00:07	---
09-12-15	07:43	17:15	06:08	07:13	17:45	18:50	08:47	13:21	17:55	26	57	-0,8	00:10	---
10-12-15	07:43	17:15	06:08	07:14	17:45	18:50	08:50	13:24	17:58	26	57	-0,8	00:13	---
11-12-15	07:44	17:15	06:09	07:15	17:45	18:51	08:53	13:27	18:01	26	57	-0,8	00:16	---
12-12-15	07:45	17:15	06:10	07:15	17:45	18:51	08:56	13:30	18:03	26	57	-0,8	00:18	---
13-12-15	07:46	17:16	06:10	07:16	17:45	18:51	08:59	13:33	18:06	26	57	-0,8	00:21	---
14-12-15	07:47	17:16	06:11	07:17	17:46	18:51	09:01	13:35	18:09	26	57	-0,8	00:23	---
15-12-15	07:47	17:16	06:12	07:17	17:46	18:52	09:04	13:38	18:13	27	57	-0,8	00:27	---
16-12-15	07:48	17:16	06:12	07:18	17:46	18:52	09:06	13:41	18:16	27	57	-0,8	00:30	---
17-12-15	07:49	17:17	06:13	07:19	17:47	18:52	09:08	13:44	18:19	27	57	-0,8	00:32	---
18-12-15	07:49	17:17	06:14	07:19	17:47	18:53	09:10	13:46	18:22	27	58	-0,8	00:35	---
19-12-15	07:50	17:18	06:14	07:20	17:47	18:53	09:12	13:49	18:25	27	58	-0,8	00:38	---
20-12-15	07:50	17:18	06:15	07:21	17:48	18:54	09:14	13:51	18:29	27	58	-0,8	00:41	---
21-12-15	07:51	17:18	06:15	07:21	17:48	18:54	09:15	13:53	18:32	28	58	-0,8	00:44	---
22-12-15	07:51	17:19	06:16	07:22	17:49	18:55	09:16	13:55	18:35	28	59	-0,8	00:46	---
23-12-15	07:52	17:19	06:16	07:22	17:49	18:55	09:17	13:57	18:38	28	59	-0,8	00:49	---
24-12-15	07:52	17:20	06:17	07:22	17:50	18:56	09:18	13:59	18:41	28	60	-0,8	00:51	---
25-12-15	07:53	17:21	06:17	07:23	17:50	18:56	09:18	14:01	18:44	29	60	-0,7	00:54	---
26-12-15	07:53	17:21	06:18	07:23	17:51	18:57	09:18	14:02	18:46	29	60	-0,7	00:55	---
27-12-15	07:54	17:22	06:18	07:24	17:52	18:57	09:18	14:03	18:49	29	61	-0,7	00:57	---
28-12-15	07:54	17:23	06:18	07:24	17:52	18:58	09:17	14:04	18:51	30	61	-0,6	00:59	---
29-12-15	07:54	17:23	06:19	07:24	17:53	18:59	09:16	14:04	18:52	30	62	-0,6	00:59	---
30-12-15	07:54	17:24	06:19	07:25	17:54	18:59	09:15	14:04	18:53	30	62	-0,5	00:59	---
31-12-15	07:55	17:25	06:19	07:25	17:55	19:00	09:13	14:03	18:54	31	63	-0,5	00:59	---