

# OBSERVATÓRIO ASTRONÓMICO DE LISBOA

Tapada da Ajuda, 1349-018 LISBOA

## NASCIMENTO E OCASO DA LUA (PORTO)

(Hora Legal)

**2013**

DIA	JANEIRO		FEVEREIRO		MARÇO		ABRIL		MAIO		JUNHO	
	Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso
	h min	h min	h min	h min	h min	h min	h min	h min	h min	h min	h min	h min
1	21:37	10:03	23:47	10:07	22:47	08:44	00:57	10:49	01:32	11:55	01:57	14:13
2	22:39	10:32	*	10:42	23:55	09:23	01:56	11:50	02:13	13:03	02:27	15:16
3	23:43	11:01	00:55	11:21	*	10:06	02:48	12:56	02:50	14:10	02:57	16:17
4	*	11:31	02:03	12:06	01:01	10:56	03:33	14:03	03:23	15:16	03:28	17:17
5	00:49	12:03	03:09	12:59	02:04	11:53	04:13	15:11	03:53	16:19	04:01	18:16
6	01:57	12:40	04:11	14:00	03:00	12:56	04:48	16:17	04:23	17:22	04:36	19:13
7	03:06	13:22	05:07	15:06	03:51	14:03	05:20	17:23	04:53	18:23	05:16	20:07
8	04:16	14:12	05:56	16:17	04:34	15:12	05:50	18:27	05:25	19:24	05:59	20:57
9	05:24	15:11	06:39	17:29	05:13	16:21	06:21	19:30	05:59	20:22	06:47	21:43
10	06:26	16:17	07:17	18:39	05:47	17:29	06:52	20:32	06:36	21:19	07:39	22:24
11	07:20	17:29	07:50	19:48	06:19	18:35	07:24	21:33	07:17	22:11	08:33	23:01
12	08:07	18:42	08:22	20:54	06:50	19:40	08:00	22:31	08:03	23:00	09:29	23:35
13	08:47	19:53	08:52	21:58	07:21	20:44	08:39	23:26	08:52	23:44	10:27	*
14	09:22	21:03	09:23	23:01	07:53	21:46	09:21	*	09:45	*	11:26	00:05
15	09:54	22:09	09:54	*	08:26	22:45	10:08	00:18	10:40	00:24	12:26	00:35
16	10:23	23:13	10:29	00:01	09:03	23:42	10:59	01:05	11:37	01:00	13:27	01:04
17	10:53	*	11:06	00:59	09:43	*	11:52	01:47	12:35	01:32	14:31	01:33
18	11:23	00:15	11:47	01:54	10:27	00:36	12:49	02:26	13:35	02:03	15:37	02:04
19	11:55	01:15	12:33	02:46	11:15	01:26	13:47	03:01	14:37	02:33	16:45	02:39
20	12:30	02:14	13:23	03:34	12:07	02:11	14:48	03:33	15:41	03:02	17:55	03:19
21	13:08	03:10	14:17	04:17	13:03	02:52	15:50	04:04	16:48	03:33	19:05	04:06
22	13:51	04:04	15:15	04:57	14:01	03:29	16:54	04:34	17:57	04:07	20:11	05:01
23	14:39	04:54	16:15	05:33	15:02	04:03	18:01	05:05	19:09	04:45	21:10	06:05
24	15:31	05:40	17:17	06:06	16:04	04:35	19:11	05:38	20:20	05:30	22:01	07:15
25	16:27	06:22	18:20	06:38	17:08	05:06	20:22	06:14	21:29	06:22	22:45	08:28
26	17:26	07:00	19:25	07:08	18:15	05:37	21:34	06:56	22:31	07:22	23:24	09:41
27	18:27	07:35	20:31	07:38	19:23	06:09	22:43	07:43	23:25	08:29	23:58	10:52
28	19:29	08:07	21:38	08:10	20:32	06:43	23:47	08:38	*	09:39	*	12:00
29	20:32	08:37	-	-	21:43	07:21	*	09:40	00:11	10:50	00:29	13:06
30	21:36	09:06	-	-	22:52	08:04	00:43	10:46	00:50	12:00	01:00	14:09
31	22:41	09:36	-	-	*	09:53	-	-	01:25	13:08	-	-

\* Nestes dias não se verifica o nascimento ou o ocaso da Lua.

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Tapada da Ajuda, 1349-018 LISBOA

### NASCIMENTO E OCASO DA LUA (PORTO)

(Hora Legal)

**2013**

JULHO		AGOSTO		SETEMBRO		OUTUBRO		NOVEMBRO		DEZEMBRO		DIA
Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso	Nasc.	Ocaso	
h min	h min	h min	h min	h min	h min	h min	h min	h min	h min	h min	h min	
01:31	15:11	01:57	16:49	03:10	17:38	03:51	17:14	04:43	16:15	05:42	16:06	1
02:03	16:10	02:41	17:37	04:06	18:12	04:51	17:44	05:49	16:51	06:51	16:57	2
02:38	17:08	03:30	18:22	05:04	18:44	05:53	18:14	06:57	17:32	07:58	17:56	3
03:16	18:02	04:22	19:02	06:03	19:15	06:56	18:46	08:06	18:19	08:59	19:02	4
03:58	18:54	05:17	19:39	07:04	19:44	08:01	19:19	09:12	19:13	09:53	20:12	5
04:44	19:41	06:14	20:12	08:06	20:14	09:07	19:57	10:15	20:14	10:40	21:23	6
05:34	20:24	07:13	20:43	09:09	20:46	10:14	20:39	11:11	21:19	11:21	22:34	7
06:28	21:02	08:12	21:12	10:13	21:20	11:21	21:27	12:00	22:27	11:57	23:43	8
07:24	21:37	09:13	21:41	11:19	21:57	12:24	22:22	12:43	23:36	12:31	*	9
08:21	22:09	10:14	22:11	12:24	22:40	13:23	23:23	13:20	*	13:02	00:49	10
09:19	22:39	11:17	22:42	13:29	23:30	14:15	*	13:55	00:44	13:34	01:54	11
10:19	23:08	12:21	23:17	14:30	*	15:01	00:28	14:27	01:51	14:07	02:57	12
11:19	23:37	13:26	23:56	15:27	00:26	15:42	01:35	14:59	02:56	14:42	03:59	13
12:21	*	14:32	*	16:18	01:28	16:18	02:44	15:31	04:01	15:20	04:58	14
13:24	00:07	15:37	00:41	17:03	02:36	16:53	03:52	16:05	05:04	16:01	05:56	15
14:29	00:39	16:38	01:33	17:43	03:45	17:25	05:00	16:41	06:06	16:47	06:50	16
15:37	01:15	17:34	02:33	18:20	04:56	17:58	06:06	17:21	07:06	17:36	07:39	17
16:44	01:57	18:25	03:40	18:54	06:06	18:31	07:12	18:05	08:03	18:28	08:24	18
17:51	02:47	19:09	04:51	19:27	07:15	19:06	08:16	18:52	08:55	19:23	09:05	19
18:52	03:44	19:48	06:04	20:00	08:22	19:44	09:18	19:43	09:44	20:19	09:41	20
19:47	04:50	20:24	07:16	20:34	09:28	20:26	10:17	20:36	10:27	21:15	10:14	21
20:36	06:01	20:58	08:27	21:10	10:31	21:11	11:12	21:31	11:05	22:12	10:44	22
21:17	07:15	21:30	09:36	21:50	11:32	22:00	12:03	22:27	11:40	23:10	11:13	23
21:54	08:29	22:03	10:42	22:32	12:29	22:51	12:49	23:24	12:12	*	11:42	24
22:28	09:40	22:38	11:46	23:19	13:22	23:45	13:30	*	12:42	00:09	12:11	25
23:00	10:49	23:14	12:48	*	14:11	*	14:07	00:22	13:11	01:10	12:42	26
23:32	11:56	23:54	13:46	00:08	14:55	00:41	13:41	01:22	13:40	02:13	13:16	27
*	12:59	*	14:41	01:01	15:34	00:38	14:12	02:23	14:11	03:19	13:55	28
00:05	14:01	00:38	15:31	01:56	16:10	01:37	14:42	03:27	14:45	04:26	14:41	29
00:39	15:00	01:25	16:18	02:53	16:43	02:37	15:12	04:34	15:22	05:33	15:35	30
01:16	15:56	02:16	17:00	-	-	03:38	15:43	-	-	06:38	16:37	31

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