

OBSERVATÓRIO ASTRONÓMICO DE LISBOA

Tapada da Ajuda, 1349-018 LISBOA

TEMPO UNIVERSAL AO MEIO-DIA SOLAR VERDADEIRO**SAGRES****2013**

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

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Tapada da Ajuda, 1349-018 LISBOA

TEMPO UNIVERSAL AO MEIO-DIA SOLAR VERDADEIRO

SAGRES

2013

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