

OBSERVATÓRIO ASTRONÓMICO DE LISBOA

Tapada da Ajuda, 1349-018 LISBOA

TEMPO UNIVERSAL AO MEIO-DIA SOLAR VERDADEIRO

VILA REAL

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

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VILA REAL

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