

Východ kulminácia a západ Slnka, začiatok a koniec astronomického súmraku pre rok 2012

Údaje sú v SEČ, pri znaku § sú údaje v LSEČ,
zdroj: <http://www.skyviewcafe.com/skyview.php>

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E
Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-02-01	05:22	07:11	11:53	16:35	18:25
02	05:20	07:10	11:53	16:37	18:26
03	05:19	07:08	11:53	16:38	18:27
04	05:18	07:07	11:53	16:40	18:29
05	05:17	07:05	11:53	16:42	18:30
06	05:16	07:04	11:53	16:43	18:32
07	05:14	07:02	11:53	16:45	18:33
08	05:13	07:01	11:53	16:47	18:35
09	05:11	06:59	11:53	16:48	18:36
10	05:10	06:57	11:53	16:50	18:38
11	05:09	06:56	11:53	16:52	18:39
12	05:07	06:54	11:53	16:53	18:40
13	05:06	06:52	11:53	16:55	18:42
14	05:04	06:51	11:53	16:57	18:43
15	05:03	06:49	11:53	16:58	18:45
16	05:01	06:47	11:53	17:00	18:46
17	04:59	06:46	11:53	17:02	18:48
18	04:58	06:44	11:53	17:03	18:50
19	04:56	06:42	11:53	17:05	18:51
20	04:54	06:40	11:53	17:07	18:53
21	04:53	06:38	11:53	17:08	18:54
22	04:51	06:36	11:53	17:10	18:56
23	04:49	06:34	11:53	17:12	18:57
24	04:47	06:33	11:53	17:13	18:59
25	04:45	06:31	11:52	17:15	19:00
26	04:43	06:29	11:52	17:16	19:02
27	04:42	06:27	11:52	17:18	19:03
28	04:40	06:25	11:52	17:20	19:05
29	04:38	06:23	11:52	17:21	19:07

Východ kulminácia a západ Slnka, začiatok a koniec astronómického súmraku pre rok 2012

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E

Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-03-01	04:36	06:21	11:51	17:23	19:08
02	04:34	06:19	11:51	17:24	19:10
03	04:32	06:17	11:51	17:26	19:11
04	04:30	06:15	11:51	17:28	19:13
05	04:28	06:13	11:51	17:29	19:15
06	04:26	06:11	11:50	17:31	19:16
07	04:23	06:09	11:50	17:32	19:18
08	04:21	06:07	11:50	17:34	19:20
09	04:19	06:05	11:50	17:35	19:21
10	04:17	06:03	11:49	17:37	19:23
11	04:15	06:00	11:49	17:39	19:25
12	04:13	05:58	11:49	17:40	19:26
13	04:10	05:56	11:49	17:42	19:28
14	04:08	05:54	11:48	17:43	19:30
15	04:06	05:52	11:48	17:45	19:31
16	04:04	05:50	11:48	17:46	19:33
17	04:01	05:48	11:47	17:48	19:35
18	03:59	05:46	11:47	17:49	19:37
19	03:57	05:44	11:47	17:51	19:38
20	03:54	05:42	11:47	17:52	19:40
21	03:52	05:39	11:46	17:54	19:42
22	03:50	05:37	11:46	17:55	19:44
23	03:47	05:35	11:46	17:57	19:46
24	03:45	05:33	11:45	17:59	19:47
25	04:42§	06:31§	12:45§	19:00§	20:49§
26	04:40§	06:29§	12:45§	19:02§	20:51§
27	04:37§	06:27§	12:44§	19:03§	20:53§
28	04:35§	06:25§	12:44§	19:05§	20:55§
29	04:32§	06:23§	12:44§	19:06§	20:57§
30	04:30§	06:20§	12:44§	19:08§	20:59§
31	04:27§	06:18§	12:43§	19:09§	21:01§

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E

Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-04-01	04:25§	06:16§	12:43§	19:11§	21:03§
02	04:22§	06:14§	12:43§	19:12§	21:04§
03	04:20§	06:12§	12:42§	19:14§	21:06§
04	04:17§	06:10§	12:42§	19:15§	21:08§
05	04:15§	06:08§	12:42§	19:17§	21:11§
06	04:12§	06:06§	12:42§	19:18§	21:13§
07	04:09§	06:04§	12:41§	19:20§	21:15§
08	04:07§	06:02§	12:41§	19:21§	21:17§
09	04:04§	06:00§	12:41§	19:23§	21:19§
10	04:02§	05:58§	12:40§	19:24§	21:21§
11	03:59§	05:56§	12:40§	19:26§	21:23§
12	03:56§	05:54§	12:40§	19:27§	21:25§
13	03:54§	05:52§	12:40§	19:29§	21:27§
14	03:51§	05:50§	12:39§	19:30§	21:30§
15	03:48§	05:48§	12:39§	19:32§	21:32§
16	03:46§	05:46§	12:39§	19:33§	21:34§
17	03:43§	05:44§	12:39§	19:35§	21:36§
18	03:40§	05:42§	12:38§	19:36§	21:39§
19	03:37§	05:40§	12:38§	19:38§	21:41§
20	03:35§	05:38§	12:38§	19:39§	21:43§
21	03:32§	05:36§	12:38§	19:41§	21:46§
22	03:29§	05:34§	12:38§	19:42§	21:48§
23	03:26§	05:32§	12:37§	19:44§	21:51§
24	03:23§	05:30§	12:37§	19:45§	21:53§
25	03:21§	05:28§	12:37§	19:47§	21:56§
26	03:18§	05:27§	12:37§	19:48§	21:58§
27	03:15§	05:25§	12:37§	19:50§	22:01§
28	03:12§	05:23§	12:37§	19:51§	22:03§
29	03:09§	05:21§	12:37§	19:53§	22:06§
30	03:06§	05:20§	12:36§	19:54§	22:08§

Východ kulminácia a západ Slnka, začiatok a koniec astronomického súmraku pre rok 2012

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E

Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-05-01	03:04§	05:18§	12:36§	19:56§	22:11§
02	03:01§	05:16§	12:36§	19:57§	22:14§
03	02:58§	05:14§	12:36§	19:59§	22:16§
04	02:55§	05:13§	12:36§	20:00§	22:19§
05	02:52§	05:11§	12:36§	20:01§	22:22§
06	02:49§	05:10§	12:36§	20:03§	22:25§
07	02:46§	05:08§	12:36§	20:04§	22:28§
08	02:43§	05:06§	12:36§	20:06§	22:30§
09	02:40§	05:05§	12:36§	20:07§	22:33§
10	02:37§	05:03§	12:36§	20:09§	22:36§
11	02:34§	05:02§	12:36§	20:10§	22:39§
12	02:31§	05:01§	12:36§	20:11§	22:42§
13	02:28§	04:59§	12:36§	20:13§	22:45§
14	02:25§	04:58§	12:36§	20:14§	22:48§
15	02:22§	04:56§	12:36§	20:15§	22:51§
16	02:19§	04:55§	12:36§	20:17§	22:54§
17	02:16§	04:54§	12:36§	20:18§	22:58§
18	02:13§	04:53§	12:36§	20:19§	23:01§
19	02:10§	04:51§	12:36§	20:21§	23:04§
20	02:07§	04:50§	12:36§	20:22§	23:07§
21	02:04§	04:49§	12:36§	20:23§	23:11§
22	02:01§	04:48§	12:36§	20:24§	23:14§
23	01:57§	04:47§	12:36§	20:26§	23:17§
24	01:54§	04:46§	12:36§	20:27§	23:21§
25	01:51§	04:45§	12:36§	20:28§	23:24§
26	01:47§	04:44§	12:36§	20:29§	23:28§
27	01:44§	04:43§	12:36§	20:30§	23:32§
28	01:40§	04:42§	12:37§	20:31§	23:35§
29	01:36§	04:41§	12:37§	20:32§	23:39§
30	01:31§	04:41§	12:37§	20:34§	23:43§
31	01:26§	04:40§	12:37§	20:35§	23:47§

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E
Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-06-01	01:20§	04:39§	12:37§	20:35§	23:51§
02	01:11§	04:39§	12:37§	20:36§	23:55§
03	00:54§	04:38§	12:37§	20:37§	23:59§
04	00:05§	04:37§	12:38§	20:38§	
05		04:37§	12:38§	20:39§	
06		04:36§	12:38§	20:40§	
07		04:36§	12:38§	20:41§	
08		04:36§	12:38§	20:41§	
09		04:35§	12:39§	20:42§	
10		04:35§	12:39§	20:43§	
11		04:35§	12:39§	20:43§	
12		04:34§	12:39§	20:44§	
13		04:34§	12:39§	20:45§	
14		04:34§	12:40§	20:45§	
15		04:34§	12:40§	20:46§	
16		04:34§	12:40§	20:46§	
17		04:34§	12:40§	20:46§	
18		04:34§	12:40§	20:47§	
19		04:34§	12:41§	20:47§	
20		04:34§	12:41§	20:47§	
21		04:35§	12:41§	20:47§	
22		04:35§	12:41§	20:48§	
23		04:35§	12:42§	20:48§	
24		04:36§	12:42§	20:48§	
25		04:36§	12:42§	20:48§	
26		04:36§	12:42§	20:48§	
27		04:37§	12:42§	20:48§	
28		04:37§	12:43§	20:48§	
29		04:38§	12:43§	20:47§	
30		04:38§	12:43§	20:47§	

Východ kulminácia a západ Slnka, začiatok a koniec astronomického súmraku pre rok 2012

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E

Twilight: astronomical

Twilight		Twilight		
Begins	Rise	Transit	Set	Ends
-----	-----	-----	-----	-----
2012-07-01	04:39§	12:43§	20:47§	
02	04:40§	12:43§	20:47§	
03	04:40§	12:44§	20:46§	
04	04:41§	12:44§	20:46§	
05	04:42§	12:44§	20:45§	
06	04:43§	12:44§	20:45§	
07	04:43§	12:44§	20:44§	
08	04:44§	12:44§	20:44§	
09	04:45§	12:44§	20:43§	23:59§
10	00:32§	04:46§	12:45§	20:43§ 23:55§
11	01:17§	04:47§	12:45§	20:42§ 23:51§
12	01:30§	04:48§	12:45§	20:41§ 23:48§
13	01:38§	04:49§	12:45§	20:40§ 23:44§
14	01:43§	04:50§	12:45§	20:39§ 23:41§
15	01:48§	04:51§	12:45§	20:39§ 23:38§
16	01:52§	04:52§	12:45§	20:38§ 23:34§
17	01:56§	04:53§	12:45§	20:37§ 23:31§
18	02:00§	04:55§	12:45§	20:36§ 23:28§
19	02:03§	04:56§	12:46§	20:35§ 23:25§
20	02:07§	04:57§	12:46§	20:34§ 23:21§
21	02:10§	04:58§	12:46§	20:32§ 23:18§
22	02:14§	04:59§	12:46§	20:31§ 23:15§
23	02:17§	05:00§	12:46§	20:30§ 23:12§
24	02:20§	05:02§	12:46§	20:29§ 23:09§
25	02:23§	05:03§	12:46§	20:28§ 23:06§
26	02:26§	05:04§	12:46§	20:26§ 23:03§
27	02:29§	05:06§	12:46§	20:25§ 23:00§
28	02:32§	05:07§	12:46§	20:24§ 22:57§
29	02:35§	05:08§	12:46§	20:22§ 22:53§
30	02:38§	05:09§	12:46§	20:21§ 22:50§
31	02:41§	05:11§	12:46§	20:19§ 22:47§

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E
Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-08-01	02:44§	05:12§	12:46§	20:18§	22:44§
02	02:47§	05:13§	12:45§	20:16§	22:42§
03	02:50§	05:15§	12:45§	20:15§	22:39§
04	02:53§	05:16§	12:45§	20:13§	22:36§
05	02:55§	05:18§	12:45§	20:12§	22:33§
06	02:58§	05:19§	12:45§	20:10§	22:30§
07	03:01§	05:20§	12:45§	20:09§	22:27§
08	03:03§	05:22§	12:45§	20:07§	22:24§
09	03:06§	05:23§	12:45§	20:05§	22:21§
10	03:09§	05:25§	12:45§	20:03§	22:18§
11	03:11§	05:26§	12:44§	20:02§	22:15§
12	03:14§	05:27§	12:44§	20:00§	22:12§
13	03:16§	05:29§	12:44§	19:58§	22:09§
14	03:19§	05:30§	12:44§	19:56§	22:07§
15	03:21§	05:32§	12:44§	19:55§	22:04§
16	03:24§	05:33§	12:43§	19:53§	22:01§
17	03:26§	05:35§	12:43§	19:51§	21:58§
18	03:29§	05:36§	12:43§	19:49§	21:55§
19	03:31§	05:37§	12:43§	19:47§	21:53§
20	03:33§	05:39§	12:43§	19:45§	21:50§
21	03:36§	05:40§	12:42§	19:43§	21:47§
22	03:38§	05:42§	12:42§	19:41§	21:44§
23	03:40§	05:43§	12:42§	19:39§	21:41§
24	03:42§	05:45§	12:41§	19:37§	21:39§
25	03:45§	05:46§	12:41§	19:35§	21:36§
26	03:47§	05:47§	12:41§	19:33§	21:33§
27	03:49§	05:49§	12:41§	19:31§	21:30§
28	03:51§	05:50§	12:40§	19:29§	21:28§
29	03:53§	05:52§	12:40§	19:27§	21:25§
30	03:55§	05:53§	12:40§	19:25§	21:22§
31	03:57§	05:55§	12:39§	19:23§	21:20§

Východ kulminácia a západ Slnka, začiatok a koniec astronómického súmraku pre rok 2012

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E

Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-09-01	03:59§	05:56§	12:39§	19:21§	21:17§
02	04:01§	05:57§	12:39§	19:19§	21:14§
03	04:03§	05:59§	12:38§	19:17§	21:12§
04	04:05§	06:00§	12:38§	19:15§	21:09§
05	04:07§	06:02§	12:38§	19:13§	21:06§
06	04:09§	06:03§	12:37§	19:11§	21:04§
07	04:11§	06:05§	12:37§	19:09§	21:01§
08	04:13§	06:06§	12:37§	19:07§	20:59§
09	04:15§	06:07§	12:36§	19:04§	20:56§
10	04:17§	06:09§	12:36§	19:02§	20:54§
11	04:19§	06:10§	12:36§	19:00§	20:51§
12	04:21§	06:12§	12:35§	18:58§	20:48§
13	04:23§	06:13§	12:35§	18:56§	20:46§
14	04:24§	06:15§	12:35§	18:54§	20:43§
15	04:26§	06:16§	12:34§	18:52§	20:41§
16	04:28§	06:17§	12:34§	18:50§	20:38§
17	04:30§	06:19§	12:34§	18:47§	20:36§
18	04:31§	06:20§	12:33§	18:45§	20:34§
19	04:33§	06:22§	12:33§	18:43§	20:31§
20	04:35§	06:23§	12:33§	18:41§	20:29§
21	04:37§	06:25§	12:32§	18:39§	20:26§
22	04:38§	06:26§	12:32§	18:37§	20:24§
23	04:40§	06:27§	12:31§	18:35§	20:22§
24	04:42§	06:29§	12:31§	18:32§	20:19§
25	04:43§	06:30§	12:31§	18:30§	20:17§
26	04:45§	06:32§	12:30§	18:28§	20:15§
27	04:47§	06:33§	12:30§	18:26§	20:12§
28	04:48§	06:35§	12:30§	18:24§	20:10§
29	04:50§	06:36§	12:29§	18:22§	20:08§
30	04:51§	06:38§	12:29§	18:20§	20:05§

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E
Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-10-01	04:53§	06:39§	12:29§	18:17§	20:03§
02	04:55§	06:41§	12:28§	18:15§	20:01§
03	04:56§	06:42§	12:28§	18:13§	19:59§
04	04:58§	06:44§	12:28§	18:11§	19:57§
05	04:59§	06:45§	12:28§	18:09§	19:54§
06	05:01§	06:47§	12:27§	18:07§	19:52§
07	05:03§	06:48§	12:27§	18:05§	19:50§
08	05:04§	06:50§	12:27§	18:03§	19:48§
09	05:06§	06:51§	12:26§	18:01§	19:46§
10	05:07§	06:53§	12:26§	17:59§	19:44§
11	05:09§	06:54§	12:26§	17:57§	19:42§
12	05:10§	06:56§	12:26§	17:55§	19:40§
13	05:12§	06:57§	12:25§	17:53§	19:38§
14	05:13§	06:59§	12:25§	17:51§	19:36§
15	05:15§	07:00§	12:25§	17:49§	19:34§
16	05:16§	07:02§	12:25§	17:47§	19:32§
17	05:18§	07:03§	12:25§	17:45§	19:30§
18	05:19§	07:05§	12:24§	17:43§	19:28§
19	05:21§	07:06§	12:24§	17:41§	19:27§
20	05:22§	07:08§	12:24§	17:39§	19:25§
21	05:24§	07:09§	12:24§	17:37§	19:23§
22	05:25§	07:11§	12:24§	17:35§	19:21§
23	05:26§	07:13§	12:24§	17:34§	19:20§
24	05:28§	07:14§	12:23§	17:32§	19:18§
25	05:29§	07:16§	12:23§	17:30§	19:16§
26	05:31§	07:17§	12:23§	17:28§	19:15§
27	05:32§	07:19§	12:23§	17:26§	19:13§
28	04:34	06:21	11:23	16:25	18:11
29	04:35	06:22	11:23	16:23	18:10
30	04:37	06:24	11:23	16:21	18:08
31	04:38	06:25	11:23	16:20	18:07

Východ kulminácia a západ Slnka, začiatok a koniec astronómického súmraku pre rok 2012

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E

Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-11-01	04:39	06:27	11:23	16:18	18:05
02	04:41	06:29	11:23	16:16	18:04
03	04:42	06:30	11:23	16:15	18:03
04	04:44	06:32	11:23	16:13	18:01
05	04:45	06:33	11:23	16:12	18:00
06	04:46	06:35	11:23	16:10	17:59
07	04:48	06:37	11:23	16:09	17:57
08	04:49	06:38	11:23	16:07	17:56
09	04:50	06:40	11:23	16:06	17:55
10	04:52	06:41	11:23	16:04	17:54
11	04:53	06:43	11:23	16:03	17:53
12	04:55	06:45	11:23	16:02	17:52
13	04:56	06:46	11:24	16:00	17:51
14	04:57	06:48	11:24	15:59	17:50
15	04:58	06:49	11:24	15:58	17:49
16	05:00	06:51	11:24	15:57	17:48
17	05:01	06:52	11:24	15:56	17:47
18	05:02	06:54	11:24	15:55	17:46
19	05:04	06:55	11:25	15:53	17:45
20	05:05	06:57	11:25	15:52	17:44
21	05:06	06:58	11:25	15:51	17:44
22	05:07	07:00	11:25	15:51	17:43
23	05:09	07:01	11:26	15:50	17:42
24	05:10	07:03	11:26	15:49	17:42
25	05:11	07:04	11:26	15:48	17:41
26	05:12	07:06	11:27	15:47	17:41
27	05:13	07:07	11:27	15:46	17:40
28	05:14	07:08	11:27	15:46	17:40
29	05:16	07:10	11:28	15:45	17:39
30	05:17	07:11	11:28	15:45	17:39

Sun: rise, transit, and set times (Europe/Paris time zone) for 49°03'N, 20°12'E
Twilight: astronomical

	Twilight		Twilight		
	Begins	Rise	Transit	Set	Ends
	-----	-----	-----	-----	-----
2012-12-01	05:18	07:12	11:28	15:44	17:39
02	05:19	07:14	11:29	15:44	17:38
03	05:20	07:15	11:29	15:43	17:38
04	05:21	07:16	11:30	15:43	17:38
05	05:22	07:17	11:30	15:42	17:38
06	05:23	07:18	11:30	15:42	17:38
07	05:24	07:19	11:31	15:42	17:38
08	05:25	07:21	11:31	15:42	17:38
09	05:26	07:22	11:32	15:42	17:38
10	05:26	07:23	11:32	15:42	17:38
11	05:27	07:24	11:33	15:41	17:38
12	05:28	07:25	11:33	15:41	17:38
13	05:29	07:25	11:34	15:42	17:38
14	05:30	07:26	11:34	15:42	17:38
15	05:30	07:27	11:35	15:42	17:39
16	05:31	07:28	11:35	15:42	17:39
17	05:32	07:29	11:36	15:42	17:39
18	05:32	07:29	11:36	15:43	17:40
19	05:33	07:30	11:37	15:43	17:40
20	05:34	07:30	11:37	15:44	17:40
21	05:34	07:31	11:37	15:44	17:41
22	05:35	07:31	11:38	15:45	17:41
23	05:35	07:32	11:38	15:45	17:42
24	05:35	07:32	11:39	15:46	17:43
25	05:36	07:33	11:39	15:46	17:43
26	05:36	07:33	11:40	15:47	17:44
27	05:36	07:33	11:40	15:48	17:45
28	05:37	07:33	11:41	15:49	17:45
29	05:37	07:33	11:41	15:50	17:46
30	05:37	07:33	11:42	15:50	17:47
31	05:37	07:34	11:42	15:51	17:48