

Răsăritul și Apusul Soarelui în anul 2020

pentru orașul Tulcea

Longitudine 28°47'57" Est

Latitudine 45°10'22" Nord

Zi	IANUARIE	FEBRUARIE	MARTIE	APRILIE	MAI	IUNIE	IULIE	AUGUST	SEPTEMBRIE	OCTOMBRIE	NOIEMBRIE	DECEMBRIE	Zi
	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	Răsare Apune	
01	M 07:44 16:33	S 07:26 17:11	D 06:42 17:52	M 05:45 18:33	V 04:53 19:11	L 04:21 19:45	M 04:21 19:56	S 04:50 19:32	M 05:27 18:42	J 06:03 17:45	D 06:44 16:52	M 07:24 16:24	01
02	J 07:44 16:34	D 07:25 17:13	L 06:41 17:54	J 05:43 18:34	S 04:52 19:12	M 04:20 19:46	J 04:22 19:56	D 04:51 19:30	M 05:28 18:40	V 06:04 17:43	L 06:45 16:51	M 07:25 16:24	02
03	V 07:44 16:35	L 07:23 17:14	M 06:39 17:55	V 05:41 18:36	D 04:50 19:14	M 04:20 19:47	V 04:23 19:55	L 04:52 19:29	J 05:29 18:38	S 06:06 17:41	M 06:47 16:49	J 07:26 16:23	03
04	S 07:44 16:36	M 07:22 17:16	M 06:37 17:57	S 05:39 18:37	L 04:49 19:15	J 04:19 19:48	S 04:23 19:55	M 04:53 19:28	V 05:30 18:36	D 06:07 17:39	M 06:48 16:48	V 07:27 16:23	04
05	D 07:44 16:37	M 07:21 17:17	J 06:35 17:58	D 05:37 18:38	M 04:48 19:16	V 04:19 19:48	D 04:24 19:55	M 04:55 19:26	S 05:32 18:34	L 06:08 17:37	J 06:49 16:47	S 07:28 16:23	05
06	L 07:43 16:38	J 07:20 17:18	V 06:33 17:59	L 05:36 18:39	M 04:46 19:17	S 04:18 19:49	L 04:25 19:54	J 04:56 19:25	D 05:33 18:32	M 06:09 17:35	V 06:51 16:45	D 07:29 16:23	06
07	M 07:43 16:39	V 07:18 17:20	S 06:32 18:01	M 05:34 18:41	J 04:45 19:19	D 04:18 19:50	M 04:25 19:54	V 04:57 19:23	L 05:34 18:30	M 06:11 17:34	S 06:52 16:44	L 07:30 16:23	07
08	M 07:43 16:40	S 07:17 17:21	D 06:30 18:02	M 05:32 18:42	V 04:44 19:20	L 04:18 19:50	M 04:26 19:53	S 04:58 19:22	M 05:35 18:29	J 06:12 17:32	D 06:54 16:43	M 07:31 16:23	08
09	J 07:43 16:41	D 07:16 17:23	L 06:28 18:03	J 05:30 18:43	S 04:42 19:21	M 04:18 19:51	J 04:27 19:53	D 04:59 19:20	M 05:36 18:27	V 06:13 17:30	L 06:55 16:42	M 07:32 16:22	09
10	V 07:43 16:42	L 07:14 17:24	M 06:26 18:05	V 05:28 18:45	D 04:41 19:22	M 04:17 19:52	V 04:28 19:52	L 05:01 19:19	J 05:38 18:25	S 06:15 17:28	M 06:56 16:41	J 07:33 16:23	10
11	S 07:42 16:43	M 07:13 17:26	M 06:24 18:06	S 05:27 18:46	L 04:40 19:23	J 04:17 19:52	S 04:29 19:52	M 05:02 19:17	V 05:39 18:23	D 06:16 17:26	M 06:58 16:39	V 07:34 16:23	11
12	D 07:42 16:44	M 07:12 17:27	J 06:22 18:07	D 05:25 18:47	M 04:38 19:25	V 04:17 19:53	D 04:29 19:51	M 05:03 19:16	S 05:40 18:21	L 06:17 17:25	J 06:59 16:38	S 07:35 16:23	12
13	L 07:41 16:46	J 07:10 17:29	V 06:21 18:09	L 05:23 18:48	M 04:37 19:26	S 04:17 19:53	L 04:30 19:50	J 05:04 19:14	D 05:41 18:19	M 06:18 17:23	V 07:01 16:37	D 07:35 16:23	13
14	M 07:41 16:47	V 07:09 17:30	S 06:19 18:10	M 05:21 18:50	J 04:36 19:27	D 04:17 19:54	M 04:31 19:50	V 05:05 19:13	L 05:42 18:17	M 06:20 17:21	S 07:02 16:36	L 07:36 16:23	14
15	M 07:40 16:48	S 07:07 17:31	D 06:17 18:11	M 05:19 18:51	V 04:35 19:28	L 04:17 19:54	M 04:32 19:49	S 05:06 19:11	M 05:44 18:15	J 06:21 17:19	D 07:03 16:35	M 07:37 16:23	15
16	J 07:40 16:49	D 07:06 17:33	L 06:15 18:12	J 05:18 18:52	S 04:34 19:29	M 04:17 19:55	J 04:33 19:48	D 05:08 19:10	M 05:45 18:13	V 06:22 17:18	L 07:05 16:34	M 07:38 16:23	16
17	V 07:39 16:51	L 07:04 17:34	M 06:13 18:14	V 05:16 18:53	D 04:33 19:30	M 04:17 19:55	V 04:34 19:48	L 05:09 19:08	J 05:46 18:11	S 06:24 17:16	M 07:06 16:33	J 07:38 16:24	17
18	S 07:39 16:52	M 07:02 17:36	M 06:11 18:15	S 05:14 18:55	L 04:32 19:31	J 04:17 19:55	S 04:35 19:47	M 05:10 19:06	V 05:47 18:10	D 06:25 17:14	M 07:07 16:32	V 07:39 16:24	18
19	D 07:38 16:53	M 07:01 17:37	J 06:09 18:16	D 05:13 18:56	M 04:31 19:33	V 04:17 19:55	D 04:36 19:46	M 05:11 19:05	S 05:48 18:08	L 06:26 17:12	J 07:09 16:31	S 07:40 16:25	19
20	L 07:37 16:54	J 06:59 17:39	V 06:07 18:18	L 05:11 18:57	M 04:30 19:34	S 04:17 19:56	L 04:37 19:45	J 05:12 19:03	D 05:50 18:06	M 06:28 17:11	V 07:10 16:31	D 07:40 16:25	20
21	M 07:36 16:56	V 06:58 17:40	S 06:06 18:19	M 05:09 18:59	J 04:29 19:35	D 04:17 19:56	M 04:38 19:44	V 05:14 19:01	L 05:51 18:04	M 06:29 17:09	S 07:11 16:30	L 07:41 16:25	21
22	M 07:36 16:57	S 06:56 17:41	D 06:04 18:20	M 05:08 19:00	V 04:28 19:36	L 04:18 19:56	M 04:39 19:43	S 05:15 18:59	M 05:52 18:02	J 06:30 17:07	D 07:13 16:29	M 07:41 16:26	22
23	J 07:35 16:59	D 06:54 17:43	L 06:02 18:22	J 05:06 19:01	S 04:27 19:37	M 04:18 19:56	J 04:40 19:42	D 05:16 18:58	M 05:53 18:00	V 06:32 17:06	L 07:14 16:28	M 07:42 16:27	23
24	V 07:34 17:00	L 06:53 17:44	M 06:00 18:23	V 05:04 19:02	D 04:26 19:38	M 04:18 19:56	V 04:41 19:41	L 05:17 18:56	J 05:55 17:58	S 06:33 17:04	M 07:15 16:28	J 07:42 16:27	24
25	S 07:33 17:01	M 06:51 17:46	M 05:58 18:24	S 05:03 19:04	L 04:25 19:39	J 04:19 19:56	S 04:42 19:40	M 05:18 18:54	V 05:56 17:56	D 06:34 17:03	M 07:16 16:27	V 07:42 16:28	25
26	D 07:32 17:03	M 06:49 17:47	J 05:56 18:25	D 05:01 19:05	M 04:25 19:40	V 04:19 19:56	D 04:43 19:39	M 05:20 18:52	S 05:57 17:54	L 06:36 17:01	J 07:18 16:26	S 07:43 16:28	26
27	L 07:31 17:04	J 06:48 17:48	V 05:54 18:27	L 04:59 19:06	M 04:24 19:41	S 04:19 19:56	L 04:44 19:38	J 05:21 18:51	D 05:58 17:52	M 06:37 17:00	V 07:19 16:26	D 07:43 16:29	27
28	M 07:30 17:06	V 06:46 17:50	S 05:52 18:28	M 04:58 19:07	J 04:23 19:42	D 04:20 19:56	M 04:45 19:36	V 05:22 18:49	L 05:59 17:50	M 06:38 16:58	S 07:20 16:25	L 07:43 16:30	28
29	M 07:29 17:07	S 06:44 17:51	D 05:51 18:29	M 04:56 19:09	V 04:22 19:43	L 04:20 19:56	M 04:47 19:35	S 05:23 18:47	M 06:01 17:49	J 06:40 16:57	D 07:21 16:25	M 07:43 16:31	29
30	J 07:28 17:08		L 05:49 18:31	J 04:55 19:10	S 04:22 19:44	M 04:21 19:56	J 04:48 19:34	D 05:24 18:45	M 06:02 17:47	V 06:41 16:55	L 07:22 16:24	M 07:44 16:32	30
31	V 07:27 17:10		M 05:47 18:32		D 04:21 19:44		V 04:49 19:33	L 05:26 18:43		S 06:43 16:54		J 07:44 16:32	31

Note:

1. Pentru întreg anul orele de răsărit și apus ale Soarelui sunt date în **Timp Legal Român** - UTC+2h
2. În anul 2020 **Ora de Vară** - UTC+3h este introdusă între 29 Martie și 25 Octombrie

Începutul și sfârșitul Crepusculului Civil în anul 2020

pentru orașul Tulcea

Longitudine 28°47'57" Est

Latitudine 45°10'22" Nord

Zi	IANUARIE	FEBRUARIE	MARTIE	APRILIE	MAI	IUNIE	IULIE	AUGUST	SEPTEMBRIE	OCTOMBRIE	NOIEMBRIE	DECEMBRIE	Zi
	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	Început Sfârșit	
01	M 07:10 17:06	S 06:54 17:43	D 06:13 18:22	M 05:15 19:03	V 04:21 19:44	L 03:44 20:22	M 03:44 20:33	S 04:16 20:05	M 04:56 19:12	J 05:34 18:14	D 06:13 17:23	M 06:50 16:57	01
02	J 07:10 17:07	D 06:53 17:44	L 06:11 18:23	J 05:13 19:04	S 04:19 19:45	M 03:43 20:23	J 03:45 20:33	D 04:17 20:04	M 04:58 19:10	V 05:35 18:12	L 06:15 17:22	M 06:51 16:57	02
03	V 07:10 17:08	L 06:52 17:45	M 06:09 18:25	V 05:11 19:06	D 04:18 19:47	M 03:43 20:24	V 03:45 20:32	L 04:19 20:02	J 04:59 19:08	S 05:36 18:10	M 06:16 17:20	J 06:52 16:57	03
04	S 07:10 17:09	M 06:51 17:47	M 06:08 18:26	S 05:09 19:07	L 04:16 19:48	J 03:42 20:25	S 03:46 20:32	M 04:20 20:01	V 05:00 19:06	D 05:38 18:08	M 06:17 17:19	V 06:53 16:57	04
05	D 07:10 17:10	M 06:50 17:48	J 06:06 18:27	D 05:07 19:08	M 04:15 19:49	V 03:42 20:25	D 03:47 20:32	M 04:21 19:59	S 05:02 19:04	L 05:39 18:07	J 06:18 17:18	S 06:54 16:56	05
06	L 07:10 17:11	J 06:49 17:49	V 06:04 18:29	L 05:06 19:10	M 04:13 19:51	S 03:41 20:26	L 03:48 20:31	J 04:23 19:58	D 05:03 19:02	M 05:40 18:05	V 06:20 17:17	D 06:55 16:56	06
07	M 07:10 17:12	V 06:48 17:51	S 06:02 18:30	M 05:04 19:11	J 04:12 19:52	D 03:41 20:27	M 03:48 20:31	V 04:24 19:56	L 05:04 19:00	M 05:41 18:03	S 06:21 17:15	L 06:56 16:56	07
08	M 07:10 17:13	S 06:46 17:52	D 06:00 18:31	M 05:02 19:12	V 04:10 19:53	L 03:41 20:28	M 03:49 20:30	S 04:25 19:55	M 05:05 18:58	J 05:43 18:01	D 06:22 17:14	M 06:57 16:56	08
09	J 07:09 17:14	D 06:45 17:54	L 05:59 18:33	J 05:00 19:14	S 04:09 19:55	M 03:40 20:28	J 03:50 20:30	D 04:26 19:53	M 05:07 18:56	V 05:44 17:59	L 06:24 17:13	M 06:58 16:56	09
10	V 07:09 17:15	L 06:44 17:55	M 05:57 18:34	V 04:58 19:15	D 04:07 19:56	M 03:40 20:29	V 03:51 20:29	L 04:28 19:51	J 05:08 18:55	S 05:45 17:58	M 06:25 17:12	J 06:59 16:56	10
11	S 07:09 17:16	M 06:42 17:56	M 05:55 18:35	S 04:56 19:16	L 04:06 19:57	J 03:40 20:30	S 03:52 20:28	M 04:29 19:50	V 05:09 18:53	D 05:46 17:56	M 06:26 17:11	V 07:00 16:56	11
12	D 07:09 17:17	M 06:41 17:58	J 05:53 18:37	D 04:54 19:18	M 04:05 19:59	V 03:40 20:30	D 03:53 20:27	M 04:30 19:48	S 05:10 18:51	L 05:48 17:54	J 06:27 17:10	S 07:01 16:56	12
13	L 07:08 17:19	J 06:40 17:59	V 05:51 18:38	L 04:52 19:19	M 04:03 20:00	S 03:39 20:31	L 03:54 20:27	J 04:32 19:47	D 05:12 18:49	M 05:49 17:52	V 06:29 17:09	D 07:02 16:57	13
14	M 07:08 17:20	V 06:38 18:00	S 05:49 18:39	M 04:51 19:20	J 04:02 20:01	D 03:39 20:31	M 03:55 20:26	V 04:33 19:45	L 05:13 18:47	M 05:50 17:51	S 06:30 17:08	L 07:02 16:57	14
15	M 07:07 17:21	S 06:37 18:02	D 05:48 18:40	M 04:49 19:22	V 04:01 20:03	L 03:39 20:32	M 03:56 20:25	S 04:34 19:43	M 05:14 18:45	J 05:51 17:49	D 06:31 17:07	M 07:03 16:57	15
16	J 07:07 17:22	D 06:35 18:03	L 05:46 18:42	J 04:47 19:23	S 03:59 20:04	M 03:39 20:32	J 03:57 20:24	D 04:36 19:41	M 05:15 18:43	V 05:53 17:47	L 06:33 17:06	M 07:04 16:57	16
17	V 07:06 17:23	L 06:34 18:04	M 05:44 18:43	V 04:45 19:25	D 03:58 20:05	M 03:39 20:33	V 03:58 20:23	L 04:37 19:40	J 05:17 18:41	S 05:54 17:46	M 06:34 17:05	J 07:04 16:58	17
18	S 07:06 17:24	M 06:32 18:06	M 05:42 18:44	S 04:43 19:26	L 03:57 20:06	J 03:39 20:33	S 03:59 20:22	M 04:38 19:38	V 05:18 18:39	D 05:55 17:44	M 06:35 17:05	V 07:05 16:58	18
19	D 07:05 17:26	M 06:31 18:07	J 05:40 18:46	D 04:41 19:27	M 03:56 20:08	V 03:39 20:33	D 04:00 20:21	M 04:40 19:36	S 05:19 18:37	L 05:56 17:42	J 06:36 17:04	S 07:06 16:59	19
20	L 07:05 17:27	J 06:29 18:09	V 05:38 18:47	L 04:40 19:29	M 03:55 20:09	S 03:40 20:33	L 04:01 20:20	J 04:41 19:34	D 05:20 18:35	M 05:58 17:41	V 06:38 17:03	D 07:06 16:59	20
21	M 07:04 17:28	V 06:28 18:10	S 05:36 18:48	M 04:38 19:30	J 03:54 20:10	D 03:40 20:34	M 04:03 20:19	V 04:42 19:32	L 05:21 18:33	M 05:59 17:39	S 06:39 17:02	L 07:07 16:59	21
22	M 07:03 17:30	S 06:26 18:11	D 05:34 18:50	M 04:36 19:31	V 03:53 20:11	L 03:40 20:34	M 04:04 20:18	S 04:44 19:31	M 05:23 18:31	J 06:00 17:37	D 06:40 17:02	M 07:07 17:00	22
23	J 07:03 17:31	D 06:25 18:13	L 05:32 18:51	J 04:34 19:33	S 03:52 20:12	M 03:40 20:34	J 04:05 20:17	D 04:45 19:29	M 05:24 18:29	V 06:02 17:36	L 06:41 17:01	M 07:08 17:01	23
24	V 07:02 17:32	L 06:23 18:14	M 05:31 18:52	V 04:33 19:34	D 03:51 20:14	M 03:41 20:34	V 04:06 20:16	L 04:46 19:27	J 05:25 18:27	S 06:03 17:34	M 06:42 17:00	J 07:08 17:01	24
25	S 07:01 17:33	M 06:21 18:15	M 05:29 18:54	S 04:31 19:36	L 03:50 20:15	J 03:41 20:34	S 04:07 20:15	M 04:47 19:25	V 05:26 18:25	D 06:04 17:33	M 06:44 17:00	V 07:08 17:02	25
26	D 07:00 17:35	M 06:20 18:17	J 05:27 18:55	D 04:29 19:37	M 03:49 20:16	V 03:41 20:34	D 04:09 20:13	M 04:49 19:23	S 05:28 18:23	L 06:05 17:31	J 06:45 16:59	S 07:09 17:02	26
27	L 06:59 17:36	J 06:18 18:18	V 05:25 18:56	L 04:27 19:38	M 03:48 20:17	S 03:42 20:34	L 04:10 20:12	J 04:50 19:21	D 05:29 18:22	M 06:07 17:30	V 06:46 16:59	D 07:09 17:03	27
28	M 06:58 17:37	V 06:16 18:19	S 05:23 18:58	M 04:26 19:40	J 03:47 20:18	D 03:42 20:34	M 04:11 20:11	V 04:51 19:20	L 05:30 18:20	M 06:08 17:28	S 06:47 16:58	L 07:09 17:04	28
29	M 06:57 17:39	S 06:15 18:21	D 05:21 18:59	M 04:24 19:41	V 03:46 20:19	L 03:43 20:34	M 04:12 20:09	S 04:53 19:18	M 05:31 18:18	J 06:09 17:27	D 06:48 16:58	M 07:10 17:05	29
30	J 06:56 17:40		L 05:19 19:00	J 04:22 19:42	S 03:45 20:20	M 03:43 20:33	J 04:14 20:08	D 04:54 19:16	M 05:33 18:16	V 06:11 17:26	L 06:49 16:58	M 07:10 17:05	30
31	V 06:55 17:41		M 05:17 19:02		D 03:45 20:21		V 04:15 20:07	L 04:55 19:14		S 06:12 17:24		J 07:10 17:06	31

Note:

1. Pentru întreg anul orele de început și sfârșit ale Crepusculului Civil sunt date în **Timp Legal Român** - UTC+2 h
2. În anul 2020 **Ora de Vară** - UTC+3 h este introdusă între 29 Martie și 25 Octombrie