

## Răsăritul și Apusul Soarelui în anul 2020

pentru orașul Brașov

Longitudine 25°36'51" Est

Latitudine 45°39'06" 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 07:58 16:44 | S 07:40 17:23 | D 06:56 18:05 | M 05:57 18:46 | V 05:05 19:25 | L 04:32 20:00 | M 04:32 20:10 | S 05:01 19:46 | M 05:39 18:55 | J 06:16 17:57 | D 06:58 17:04 | M 07:38 16:35 | 01 |
| 02 | J 07:58 16:45 | D 07:39 17:24 | L 06:54 18:06 | J 05:55 18:47 | S 05:03 19:26 | M 04:31 20:01 | J 04:33 20:10 | D 05:03 19:44 | M 05:40 18:53 | V 06:17 17:55 | L 06:59 17:03 | M 07:39 16:35 | 02 |
| 03 | V 07:58 16:46 | L 07:37 17:26 | M 06:52 18:08 | V 05:53 18:49 | D 05:02 19:28 | M 04:31 20:01 | V 04:34 20:10 | L 05:04 19:43 | J 05:41 18:51 | S 06:19 17:53 | M 07:00 17:01 | J 07:40 16:34 | 03 |
| 04 | S 07:58 16:47 | M 07:36 17:27 | M 06:50 18:09 | S 05:52 18:50 | L 05:01 19:29 | J 04:30 20:02 | S 04:34 20:10 | M 05:05 19:42 | V 05:43 18:49 | D 06:20 17:52 | M 07:02 17:00 | V 07:41 16:34 | 04 |
| 05 | D 07:58 16:48 | M 07:35 17:29 | J 06:48 18:10 | D 05:50 18:51 | M 04:59 19:30 | V 04:30 20:03 | D 04:35 20:09 | M 05:06 19:40 | S 05:44 18:47 | L 06:21 17:50 | J 07:03 16:58 | S 07:42 16:34 | 05 |
| 06 | L 07:58 16:49 | J 07:34 17:30 | V 06:47 18:12 | L 05:48 18:53 | M 04:58 19:31 | S 04:29 20:04 | L 04:36 20:09 | J 05:07 19:39 | D 05:45 18:46 | M 06:23 17:48 | V 07:05 16:57 | D 07:43 16:34 | 06 |
| 07 | M 07:58 16:50 | V 07:32 17:32 | S 06:45 18:13 | M 05:46 18:54 | J 04:56 19:33 | D 04:29 20:04 | M 04:36 20:08 | V 05:08 19:37 | L 05:46 18:44 | M 06:24 17:46 | S 07:06 16:56 | L 07:44 16:34 | 07 |
| 08 | M 07:57 16:51 | S 07:31 17:33 | D 06:43 18:14 | M 05:44 18:55 | V 04:55 19:34 | L 04:29 20:05 | M 04:37 20:08 | S 05:10 19:36 | M 05:48 18:42 | J 06:25 17:44 | D 07:08 16:55 | M 07:45 16:34 | 08 |
| 09 | J 07:57 16:52 | D 07:29 17:35 | L 06:41 18:16 | J 05:42 18:57 | S 04:54 19:35 | M 04:28 20:06 | J 04:38 20:07 | D 05:11 19:34 | M 05:49 18:40 | V 06:26 17:42 | L 07:09 16:53 | M 07:46 16:33 | 09 |
| 10 | V 07:57 16:53 | L 07:28 17:36 | M 06:39 18:17 | V 05:40 18:58 | D 04:52 19:36 | M 04:28 20:06 | V 04:39 20:07 | L 05:12 19:33 | J 05:50 18:38 | S 06:28 17:40 | M 07:10 16:52 | J 07:47 16:33 | 10 |
| 11 | S 07:57 16:54 | M 07:27 17:38 | M 06:37 18:18 | S 05:39 18:59 | L 04:51 19:38 | J 04:28 20:07 | S 04:40 20:06 | M 05:13 19:31 | V 05:51 18:36 | D 06:29 17:39 | M 07:12 16:51 | V 07:48 16:34 | 11 |
| 12 | D 07:56 16:55 | M 07:25 17:39 | J 06:35 18:20 | D 05:37 19:00 | M 04:50 19:39 | V 04:28 20:07 | D 04:40 20:06 | M 05:15 19:30 | S 05:52 18:34 | L 06:30 17:37 | J 07:13 16:50 | S 07:49 16:34 | 12 |
| 13 | L 07:56 16:57 | J 07:24 17:40 | V 06:33 18:21 | L 05:35 19:02 | M 04:49 19:40 | S 04:28 20:08 | L 04:41 20:05 | J 05:16 19:28 | D 05:54 18:32 | M 06:32 17:35 | V 07:15 16:49 | D 07:50 16:34 | 13 |
| 14 | M 07:55 16:58 | V 07:22 17:42 | S 06:32 18:22 | M 05:33 19:03 | J 04:47 19:41 | D 04:28 20:08 | M 04:42 20:04 | V 05:17 19:27 | L 05:55 18:30 | M 06:33 17:33 | S 07:16 16:48 | L 07:51 16:34 | 14 |
| 15 | M 07:55 16:59 | S 07:21 17:43 | D 06:30 18:24 | M 05:31 19:04 | V 04:46 19:42 | L 04:28 20:09 | M 04:43 20:04 | S 05:18 19:25 | M 05:56 18:28 | J 06:34 17:31 | D 07:17 16:47 | M 07:51 16:34 | 15 |
| 16 | J 07:54 17:00 | D 07:19 17:45 | L 06:28 18:25 | J 05:30 19:06 | S 04:45 19:43 | M 04:28 20:09 | J 04:44 20:03 | D 05:19 19:23 | M 05:57 18:26 | V 06:36 17:30 | L 07:19 16:46 | M 07:52 16:34 | 16 |
| 17 | V 07:54 17:02 | L 07:18 17:46 | M 06:26 18:26 | V 05:28 19:07 | D 04:44 19:45 | M 04:28 20:10 | V 04:45 20:02 | L 05:21 19:22 | J 05:59 18:24 | S 06:37 17:28 | M 07:20 16:45 | J 07:53 16:35 | 17 |
| 18 | S 07:53 17:03 | M 07:16 17:48 | M 06:24 18:28 | S 05:26 19:08 | L 04:43 19:46 | J 04:28 20:10 | S 04:46 20:01 | M 05:22 19:20 | V 06:00 18:22 | D 06:38 17:26 | M 07:21 16:44 | V 07:54 16:35 | 18 |
| 19 | D 07:52 17:04 | M 07:14 17:49 | J 06:22 18:29 | D 05:24 19:10 | M 04:42 19:47 | V 04:28 20:10 | D 04:47 20:00 | M 05:23 19:18 | S 06:01 18:20 | L 06:40 17:24 | J 07:23 16:43 | S 07:54 16:35 | 19 |
| 20 | L 07:51 17:06 | J 07:13 17:51 | V 06:20 18:30 | L 05:23 19:11 | M 04:41 19:48 | S 04:28 20:10 | L 04:48 19:59 | J 05:24 19:17 | D 06:02 18:18 | M 06:41 17:23 | V 07:24 16:42 | D 07:55 16:36 | 20 |
| 21 | M 07:51 17:07 | V 07:11 17:52 | S 06:18 18:32 | M 05:21 19:12 | J 04:40 19:49 | D 04:28 20:11 | M 04:49 19:58 | V 05:26 19:15 | L 06:04 18:17 | M 06:42 17:21 | S 07:25 16:41 | L 07:55 16:36 | 21 |
| 22 | M 07:50 17:09 | S 07:09 17:53 | D 06:16 18:33 | M 05:19 19:13 | V 04:39 19:50 | L 04:29 20:11 | M 04:50 19:57 | S 05:27 19:13 | M 06:05 18:15 | J 06:44 17:19 | D 07:27 16:40 | M 07:56 16:37 | 22 |
| 23 | J 07:49 17:10 | D 07:08 17:55 | L 06:14 18:34 | J 05:18 19:15 | S 04:38 19:51 | M 04:29 20:11 | J 04:51 19:56 | D 05:28 19:11 | M 06:06 18:13 | V 06:45 17:18 | L 07:28 16:40 | M 07:56 16:37 | 23 |
| 24 | V 07:48 17:11 | L 07:06 17:56 | M 06:13 18:36 | V 05:16 19:16 | D 04:37 19:52 | M 04:29 20:11 | J 04:52 19:55 | L 05:29 19:10 | J 06:07 18:11 | S 06:47 17:16 | M 07:29 16:39 | J 07:57 16:38 | 24 |
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| 26 | D 07:46 17:14 | M 07:03 17:59 | J 06:09 18:38 | D 05:13 19:19 | M 04:36 19:54 | V 04:30 20:11 | D 04:54 19:53 | M 05:32 19:06 | S 06:10 18:07 | L 06:49 17:13 | J 07:32 16:38 | S 07:57 16:39 | 26 |
| 27 | L 07:45 17:16 | J 07:01 18:01 | V 06:07 18:40 | L 05:11 19:20 | M 04:35 19:55 | S 04:30 20:11 | L 04:56 19:52 | J 05:33 19:04 | D 06:11 18:05 | M 06:51 17:11 | V 07:33 16:37 | D 07:57 16:40 | 27 |
| 28 | M 07:44 17:17 | V 06:59 18:02 | S 06:05 18:41 | M 05:10 19:21 | J 04:34 19:56 | D 04:31 20:11 | M 04:57 19:51 | V 05:34 19:02 | L 06:12 18:03 | M 06:52 17:10 | S 07:34 16:36 | L 07:58 16:41 | 28 |
| 29 | M 07:43 17:18 | S 06:57 18:03 | D 06:03 18:42 | M 05:08 19:22 | V 04:33 19:57 | L 04:31 20:11 | M 04:58 19:49 | S 05:35 19:01 | M 06:14 18:01 | J 06:53 17:08 | D 07:36 16:36 | M 07:58 16:42 | 29 |
| 30 | J 07:42 17:20 |               | L 06:01 18:44 | J 05:06 19:24 | S 04:33 19:58 | M 04:32 20:11 | J 04:59 19:48 | D 05:37 18:59 | M 06:15 17:59 | V 06:55 17:07 | L 07:37 16:36 | M 07:58 16:43 | 30 |
| 31 | V 07:41 17:21 |               | M 05:59 18:45 |               | D 04:32 19:59 |               | V 05:00 19:47 | L 05:38 18:57 |               | S 06:56 17:05 |               | J 07:58 16:43 | 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 Brașov

Longitudine 25°36'51" Est

Latitudine 45°39'06" 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 07:24 17:18   | S 07:08 17:55   | D 06:26 18:35        | M 05:27 19:16   | V 04:32 19:58   | L 03:55 20:37   | M 03:54 20:48   | S 04:27 20:20   | M 05:08 19:26   | J 05:46 18:27        | D 06:27 17:35   | M 07:04 17:09   | 01 |
| 02 | J 07:24 17:19   | D 07:07 17:56   | L 06:24 18:36        | J 05:25 19:18   | S 04:30 19:59   | M 03:54 20:38   | J 03:55 20:48   | D 04:28 20:18   | M 05:10 19:24   | V 05:48 18:25        | L 06:28 17:34   | M 07:05 17:08   | 02 |
| 03 | V 07:24 17:20   | L 07:06 17:57   | M 06:22 18:37        | V 05:23 19:19   | D 04:29 20:01   | M 03:53 20:39   | V 03:56 20:48   | L 04:30 20:17   | J 05:11 19:22   | S 05:49 18:23        | M 06:29 17:32   | J 07:07 17:08   | 03 |
| 04 | S 07:24 17:21   | M 07:05 17:59   | M 06:20 18:39        | S 05:21 19:20   | L 04:27 20:02   | J 03:53 20:40   | S 03:56 20:47   | M 04:31 20:15   | V 05:12 19:20   | D 05:50 18:21        | M 06:31 17:31   | V 07:08 17:08   | 04 |
| 05 | D 07:24 17:21   | M 07:04 18:00   | J 06:19 18:40        | D 05:19 19:22   | M 04:26 20:04   | V 03:52 20:41   | D 03:57 20:47   | M 04:32 20:14   | S 05:14 19:18   | L 05:52 18:19        | J 06:32 17:30   | S 07:09 17:08   | 05 |
| 06 | L 07:24 17:22   | J 07:02 18:01   | V 06:17 18:41        | L 05:18 19:23   | M 04:24 20:05   | S 03:52 20:41   | L 03:58 20:46   | J 04:34 20:12   | D 05:15 19:16   | M 05:53 18:17        | V 06:33 17:28   | D 07:10 17:08   | 06 |
| 07 | M 07:24 17:23   | V 07:01 18:03   | S 06:15 18:43        | M 05:16 19:24   | J 04:23 20:06   | D 03:51 20:42   | M 03:59 20:46   | V 04:35 20:11   | L 05:16 19:14   | M 05:54 18:16        | S 06:35 17:27   | L 07:11 17:08   | 07 |
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| 09 | J 07:24 17:26   | D 06:58 18:06   | L 06:11 18:45        | J 05:12 19:27   | S 04:20 20:09   | M 03:51 20:44   | J 04:01 20:45   | D 04:38 20:07   | M 05:19 19:10   | V 05:57 18:12        | L 06:37 17:25   | M 07:12 17:08   | 09 |
| 10 | V 07:23 17:27   | L 06:57 18:07   | M 06:10 18:47        | V 05:10 19:29   | D 04:18 20:11   | M 03:50 20:44   | V 04:02 20:44   | L 04:39 20:06   | J 05:20 19:08   | S 05:58 18:10        | M 06:39 17:24   | J 07:13 17:08   | 10 |
| 11 | S 07:23 17:28   | M 06:56 18:08   | M 06:08 18:48        | S 05:08 19:30   | L 04:17 20:12   | J 03:50 20:45   | S 04:02 20:43   | M 04:40 20:04   | V 05:21 19:06   | D 05:59 18:08        | M 06:40 17:23   | V 07:14 17:08   | 11 |
| 12 | D 07:23 17:29   | M 06:54 18:10   | J 06:06 18:49        | D 05:06 19:31   | M 04:15 20:13   | V 03:50 20:45   | D 04:03 20:42   | M 04:42 20:02   | S 05:22 19:04   | L 06:00 18:07        | J 06:41 17:22   | S 07:15 17:08   | 12 |
| 13 | L 07:22 17:30   | J 06:53 18:11   | V 06:04 18:51        | L 05:04 19:33   | M 04:14 20:15   | S 03:50 20:46   | L 04:04 20:42   | J 04:43 20:01   | D 05:24 19:02   | M 06:02 18:05        | V 06:43 17:21   | D 07:16 17:08   | 13 |
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| 15 | M 07:21 17:32   | S 06:50 18:14   | D 06:00 18:53        | M 05:00 19:36   | V 04:11 20:17   | L 03:49 20:47   | M 04:07 20:40   | S 04:46 19:57   | M 05:26 18:58   | J 06:04 18:01        | D 06:45 17:19   | M 07:17 17:08   | 15 |
| 16 | J 07:21 17:34   | D 06:49 18:15   | L 05:58 18:55        | J 04:59 19:37   | S 04:10 20:19   | M 03:49 20:47   | J 04:08 20:39   | D 04:47 19:55   | M 05:28 18:56   | V 06:06 18:00        | L 06:46 17:18   | M 07:18 17:09   | 16 |
| 17 | V 07:20 17:35   | L 06:47 18:17   | M 05:56 18:56        | V 04:57 19:38   | D 04:09 20:20   | M 03:49 20:48   | V 04:09 20:38   | L 04:48 19:54   | J 05:29 18:54   | S 06:07 17:58        | M 06:48 17:17   | J 07:19 17:09   | 17 |
| 18 | S 07:20 17:36   | M 06:46 18:18   | M 05:54 18:57        | S 04:55 19:40   | L 04:08 20:21   | J 03:50 20:48   | S 04:10 20:37   | M 04:50 19:52   | V 05:30 18:52   | D 06:08 17:56        | M 06:49 17:16   | V 07:19 17:09   | 18 |
| 19 | D 07:19 17:37   | M 06:44 18:19   | J 05:52 18:59        | D 04:53 19:41   | M 04:07 20:22   | V 03:50 20:48   | D 04:11 20:36   | M 04:51 19:50   | S 05:31 18:50   | L 06:10 17:55        | J 06:50 17:15   | S 07:20 17:10   | 19 |
| 20 | L 07:19 17:39   | J 06:42 18:21   | V 05:51 19:00        | L 04:51 19:43   | M 04:05 20:24   | S 03:50 20:49   | L 04:12 20:35   | J 04:52 19:48   | D 05:33 18:48   | M 06:11 17:53        | V 06:51 17:15   | D 07:20 17:10   | 20 |
| 21 | M 07:18 17:40   | V 06:41 18:22   | S 05:49 19:01        | M 04:49 19:44   | J 04:04 20:25   | D 03:50 20:49   | M 04:13 20:34   | V 04:54 19:46   | L 05:34 18:46   | M 06:12 17:51        | S 06:53 17:14   | L 07:21 17:11   | 21 |
| 22 | M 07:17 17:41   | S 06:39 18:24   | D 05:47 19:03        | M 04:48 19:45   | V 04:03 20:26   | L 03:50 20:49   | M 04:14 20:33   | S 04:55 19:45   | M 05:35 18:44   | J 06:13 17:50        | D 06:54 17:13   | M 07:21 17:11   | 22 |
| 23 | J 07:16 17:42   | D 06:38 18:25   | L 05:45 19:04        | J 04:46 19:47   | S 04:02 20:27   | M 03:51 20:49   | J 04:16 20:32   | D 04:56 19:43   | M 05:36 18:42   | V 06:15 17:48        | L 06:55 17:13   | M 07:22 17:12   | 23 |
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| 27 | L 07:13 17:48   | J 06:31 18:30   | V 05:37 19:10        | L 04:39 19:52   | M 03:58 20:32   | S 03:52 20:49   | L 04:21 20:27   | J 05:02 19:35   | D 05:41 18:34   | M 06:20 17:42        | V 07:00 17:10   | D 07:23 17:14   | 27 |
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| 31 | V 07:09 17:53   |                 | M 05:29 19:15        |                 | D 03:55 20:36   |                 | V 04:26 20:21   | L 05:07 19:27   |                 | S 06:25 17:36        |                 | J 07:24 17:18   | 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