

## Răsăritul și Apusul Soarelui în anul 2022

pentru orașul Arad

Longitudine 21°18'46" Est

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

Note:

1. Pentru întreg anul orele de răsărit și apus ale Soarelui sunt date în **Timp Legal Român** - UTC+2h
2. În anul 2022 **Ora de Vară** - UTC+3h este introdusă între 27 Martie și 30 Octombrie

## Începutul și sfârșitul Crepusculului Civil în anul 2022

pentru orașul Arad

Longitudine **21°18'46"** Est

Latitudine **46°10'52"** 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 | S 07:43 17:34   | M 07:26 18:11   | M 06:44 18:51        | V 05:45 19:34   | D 04:48 20:16   | M 04:09 20:56   | V 04:09 21:08   | L 04:42 20:40   | J 05:24 19:45   | S 06:03 18:45        | M 06:44 17:52   | J 07:23 17:25   | 01 |
| 02 | D 07:43 17:35   | M 07:25 18:13   | M 06:42 18:52        | S 05:43 19:35   | L 04:47 20:18   | J 04:09 20:57   | S 04:09 21:08   | M 04:43 20:38   | V 05:25 19:43   | D 06:04 18:43        | M 06:45 17:51   | V 07:24 17:24   | 02 |
| 03 | L 07:43 17:36   | J 07:23 18:14   | J 06:41 18:54        | D 05:41 19:36   | M 04:45 20:19   | V 04:08 20:58   | D 04:10 21:08   | M 04:44 20:37   | S 05:27 19:41   | L 06:06 18:41        | J 06:47 17:49   | S 07:25 17:24   | 03 |
| 04 | M 07:43 17:37   | V 07:22 18:16   | V 06:39 18:55        | L 05:39 19:38   | M 04:43 20:21   | S 04:08 20:59   | L 04:11 21:07   | J 04:46 20:35   | D 05:28 19:39   | M 06:07 18:39        | V 06:48 17:48   | D 07:26 17:24   | 04 |
| 05 | M 07:43 17:38   | S 07:21 18:17   | S 06:37 18:56        | M 05:37 19:39   | J 04:42 20:22   | D 04:07 21:00   | M 04:11 21:07   | V 04:47 20:34   | L 05:29 19:37   | M 06:08 18:37        | S 06:49 17:47   | L 07:27 17:24   | 05 |
| 06 | J 07:43 17:39   | D 07:20 18:18   | D 06:35 18:58        | M 05:35 19:41   | V 04:40 20:23   | L 04:06 21:01   | M 04:12 21:06   | S 04:48 20:32   | M 05:31 19:35   | J 06:09 18:35        | D 06:51 17:45   | M 07:28 17:23   | 06 |
| 07 | V 07:43 17:40   | L 07:18 18:20   | L 06:33 18:59        | J 05:33 19:42   | S 04:39 20:25   | M 04:06 21:02   | J 04:13 21:06   | D 04:50 20:30   | M 05:32 19:33   | V 06:11 18:34        | L 06:52 17:44   | M 07:29 17:23   | 07 |
| 08 | S 07:42 17:41   | M 07:17 18:21   | M 06:31 19:01        | V 05:31 19:43   | D 04:37 20:26   | M 04:06 21:02   | V 04:14 21:05   | L 04:51 20:29   | J 05:33 19:31   | S 06:12 18:32        | M 06:53 17:43   | J 07:30 17:23   | 08 |
| 09 | D 07:42 17:42   | M 07:16 18:23   | M 06:29 19:02        | S 05:29 19:45   | L 04:36 20:28   | J 04:05 21:03   | S 04:15 21:05   | M 04:52 20:27   | V 05:34 19:29   | D 06:13 18:30        | M 06:55 17:42   | V 07:31 17:23   | 09 |
| 10 | L 07:42 17:43   | J 07:14 18:24   | J 06:28 19:03        | D 05:27 19:46   | M 04:34 20:29   | V 04:05 21:04   | D 04:16 21:04   | M 04:54 20:25   | S 05:36 19:27   | L 06:15 18:28        | J 06:56 17:41   | S 07:32 17:23   | 10 |
| 11 | M 07:41 17:44   | V 07:13 18:26   | V 06:26 19:05        | L 05:25 19:48   | M 04:33 20:31   | S 04:05 21:05   | L 04:17 21:03   | J 04:55 20:24   | D 05:37 19:25   | M 06:16 18:26        | V 06:58 17:39   | D 07:32 17:23   | 11 |
| 12 | M 07:41 17:45   | S 07:12 18:27   | S 06:24 19:06        | M 05:23 19:49   | J 04:31 20:32   | D 04:04 21:05   | M 04:18 21:03   | V 04:57 20:22   | L 05:38 19:23   | M 06:17 18:24        | S 06:59 17:38   | L 07:33 17:23   | 12 |
| 13 | J 07:41 17:46   | D 07:10 18:28   | D 06:22 19:07        | M 05:21 19:50   | V 04:30 20:33   | L 04:04 21:06   | M 04:19 21:02   | S 04:58 20:20   | M 05:40 19:21   | J 06:19 18:23        | D 07:00 17:37   | M 07:34 17:24   | 13 |
| 14 | V 07:40 17:48   | L 07:09 18:30   | L 06:20 19:09        | J 05:19 19:52   | S 04:28 20:35   | M 04:04 21:06   | J 04:20 21:01   | D 04:59 20:19   | M 05:41 19:19   | V 06:20 18:21        | L 07:02 17:36   | M 07:35 17:24   | 14 |
| 15 | S 07:40 17:49   | M 07:07 18:31   | M 06:18 19:10        | V 05:17 19:53   | D 04:27 20:36   | M 04:04 21:07   | V 04:21 21:00   | L 05:01 20:17   | J 05:42 19:17   | S 06:21 18:19        | M 07:03 17:35   | J 07:36 17:24   | 15 |
| 16 | D 07:39 17:50   | M 07:06 18:33   | M 06:16 19:12        | S 05:15 19:55   | L 04:26 20:37   | J 04:04 21:07   | S 04:22 20:59   | M 05:02 20:15   | V 05:44 19:15   | D 06:23 18:17        | M 07:04 17:34   | V 07:36 17:24   | 16 |
| 17 | L 07:39 17:51   | J 07:04 18:34   | J 06:14 19:13        | D 05:14 19:56   | M 04:25 20:39   | V 04:04 21:08   | D 04:23 20:58   | M 05:04 20:13   | S 05:45 19:13   | L 06:24 18:16        | J 07:05 17:33   | S 07:37 17:24   | 17 |
| 18 | M 07:38 17:53   | V 07:03 18:35   | V 06:12 19:14        | L 05:12 19:58   | M 04:23 20:40   | S 04:04 21:08   | L 04:24 20:57   | J 05:05 20:11   | D 05:46 19:11   | M 06:25 18:14        | V 07:07 17:33   | D 07:38 17:25   | 18 |
| 19 | M 07:37 17:54   | S 07:01 18:37   | S 06:10 19:16        | M 05:10 19:59   | J 04:22 20:41   | D 04:04 21:08   | M 04:25 20:56   | V 05:06 20:10   | L 05:48 19:09   | M 06:27 18:12        | S 07:08 17:32   | L 07:38 17:25   | 19 |
| 20 | J 07:37 17:55   | D 06:59 18:38   | D 06:08 19:17        | M 05:08 20:00   | V 04:21 20:43   | L 04:04 21:09   | M 04:26 20:55   | S 05:08 20:08   | M 05:49 19:07   | J 06:28 18:10        | D 07:09 17:31   | M 07:39 17:26   | 20 |
| 21 | V 07:36 17:56   | L 06:58 18:40   | L 06:06 19:18        | J 05:06 20:02   | S 04:20 20:44   | M 04:04 21:09   | J 04:28 20:54   | D 05:09 20:06   | M 05:50 19:05   | V 06:29 18:09        | L 07:11 17:30   | M 07:39 17:26   | 21 |
| 22 | S 07:35 17:58   | M 06:56 18:41   | M 06:04 19:20        | V 05:04 20:03   | D 04:19 20:45   | M 04:05 21:09   | V 04:29 20:53   | L 05:10 20:04   | J 05:51 19:03   | S 06:31 18:07        | M 07:12 17:29   | J 07:40 17:27   | 22 |
| 23 | D 07:34 17:59   | M 06:54 18:42   | M 06:02 19:21        | S 05:02 20:05   | L 04:17 20:46   | J 04:05 21:09   | S 04:30 20:52   | M 05:12 20:02   | V 05:53 19:01   | D 06:32 18:06        | M 07:13 17:29   | V 07:40 17:27   | 23 |
| 24 | L 07:34 18:00   | J 06:53 18:44   | J 06:01 19:23        | D 05:01 20:06   | M 04:16 20:48   | V 04:05 21:09   | D 04:31 20:51   | M 05:13 20:00   | S 05:54 18:59   | L 06:33 18:04        | J 07:14 17:28   | S 07:41 17:28   | 24 |
| 25 | M 07:33 18:02   | V 06:51 18:45   | V 05:59 19:24        | L 04:59 20:08   | M 04:15 20:49   | S 04:05 21:09   | L 04:32 20:49   | J 05:14 19:58   | D 05:55 18:57   | M 06:35 18:02        | V 07:16 17:27   | D 07:41 17:28   | 25 |
| 26 | M 07:32 18:03   | S 06:49 18:47   | S 05:57 19:25        | M 04:57 20:09   | J 04:14 20:50   | D 04:06 21:09   | M 04:34 20:48   | V 05:16 19:56   | L 05:57 18:55   | M 06:36 18:01        | S 07:17 17:27   | L 07:42 17:29   | 26 |
| 27 | J 07:31 18:05   | D 06:48 18:48   | <b>D 05:55 19:27</b> | M 04:55 20:11   | V 04:14 20:51   | L 04:06 21:09   | M 04:35 20:47   | S 05:17 19:54   | M 05:58 18:53   | J 06:37 17:59        | D 07:18 17:26   | M 07:42 17:30   | 27 |
| 28 | V 07:30 18:06   | L 06:46 18:49   | L 05:53 19:28        | J 04:54 20:12   | S 04:13 20:52   | M 04:07 21:09   | J 04:36 20:45   | D 05:19 19:52   | M 05:59 18:51   | V 06:39 17:58        | L 07:19 17:26   | M 07:42 17:30   | 28 |
| 29 | S 07:29 18:07   |                 | M 05:51 19:29        | V 04:52 20:13   | D 04:12 20:53   | M 04:07 21:09   | V 04:38 20:44   | L 05:20 19:51   | J 06:00 18:49   | S 06:40 17:56        | M 07:20 17:25   | J 07:42 17:31   | 29 |
| 30 | D 07:28 18:09   |                 | M 05:49 19:31        | S 04:50 20:15   | L 04:11 20:54   | J 04:08 21:09   | S 04:39 20:43   | M 05:21 19:49   | V 06:02 18:47   | <b>D 06:41 17:55</b> | M 07:21 17:25   | V 07:43 17:32   | 30 |
| 31 | L 07:27 18:10   |                 | J 05:47 19:32        |                 | M 04:10 20:55   |                 | D 04:40 20:41   | M 05:23 19:47   |                 | L 06:43 17:53        |                 | S 07:43 17:33   | 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 2022 **Ora de Vară** - UTC+3 h este introdusă între 27 Martie și 30 Octombrie