

# Sun and Moon Data for One Day

## U.S. Naval Observatory Astronomical Applications Department

Victoria, Victoria County, TX (Longitude W 96° 59', Latitude N 28° 48')

Friday, October 12, 2018 Central Daylight Time

### Sun

|                      |           |
|----------------------|-----------|
| Begin civil twilight | 7:03 a.m. |
| Sunrise              | 7:27 a.m. |
| Sun transit          | 1:14 p.m. |
| Sunset               | 7:01 p.m. |
| End civil twilight   | 7:25 p.m. |

### Moon

|              |            |
|--------------|------------|
| Moonrise     | 10:50 a.m. |
| Moon transit | 4:23 p.m.  |
| Moonset      | 9:52 p.m.  |

Closest Primary Moon Phase: New Moon on October 8, 2018 at 10:47 p.m. (local daylight time)

Phase of the Moon on October 12, 2018: Waxing Crescent with 15% of the Moon's visible disk illuminated.

Astronomical Applications Dept.  
U.S. Naval Observatory  
Washington, DC 20392-5420

**ACCIDENT SITE**

W 96 48, N28 42

**Altitude and Azimuth of the Sun  
Oct 12, 2018**

Zone: 5h West of Greenwich (CDT)

| hh:mm | Altitude | Azimuth |
|-------|----------|---------|
| 07:00 | -6.6     | 95.0    |
| 07:30 | 0.4      | 98.5    |
| 08:00 | 6.6      | 102.2   |
| 08:30 | 12.9     | 106.1   |
| 09:00 | 19.1     | 110.3   |
| 09:30 | 25.2     | 114.9   |
| 10:00 | 31.0     | 120.2   |
| 10:30 | 36.5     | 126.2   |
| 11:00 | 41.5     | 133.2   |
| 11:30 | 46.0     | 141.4   |
| 12:00 | 49.6     | 151.1   |
| 12:30 | 52.2     | 162.2   |
| 13:00 | 53.6     | 174.3   |
| 13:30 | 53.5     | 186.8   |
| 14:00 | 52.0     | 198.9   |
| 14:30 | 49.3     | 209.8   |
| 15:00 | 45.6     | 219.3   |
| 15:30 | 41.0     | 227.4   |
| 16:00 | 35.9     | 234.3   |
| 16:30 | 30.4     | 240.3   |
| 17:00 | 24.5     | 245.4   |
| 17:30 | 18.5     | 250.0   |
| 18:00 | 12.2     | 254.2   |
| 18:30 | 5.9      | 258.0   |
| 19:00 | -0.1     | 261.7   |
| 19:30 | -7.3     | 265.2   |