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**Data Services**

**Rise/Set/Transit/Twilight Data**

Complete Sun and Moon Data for One Day

Table of Sunrise/Sunset, Moonrise/Moonset, or Twilight Times for an Entire Year

Rise/Set/Transit Times for Major Solar System Objects and Bright Stars

Duration of Daylight and Darkness Table for One Year

**Phases of the Moon**

Dates of Primary Phases of the Moon

Fraction of the Moon Illuminated

**Eclipses and Transits**

Eclipses Online Portal

Eclipses of the Sun and Moon

2017 August 21 Total Solar Eclipse

2023 October 14 Annular Solar Eclipse

2024 April 8 Total Solar Eclipse

Solar Eclipse Computer

Lunar Eclipse Computer

Transits of Mercury and Venus

**Sidereal Time**

This data service calculates Greenwich [sidereal time](#), both mean and apparent ([GAST](#)), [local sidereal time](#), both mean and apparent ([LST](#)), and the [Equation of the Equinoxes](#) for specified time(s).

Data will be provided for the years 1800 through 2050.

Use the buttons under **Location** to find coordinates of cities or towns in the U.S. or elsewhere. You can toggle between Degrees-Minutes-Seconds (DMS) and Decimal Degrees.

Be sure to read the [Notes section](#) (at the bottom of this page) for additional details.

**Date**

Format: MM/DD/YYYY

05 / 19 / 2023

**Time (UT1)**

Format HH:MM:SS.S

03 : 15 : 55 . 000 PM

**Tabular Interval**

(0.1 to 9999.9 days, hours, minutes, seconds)

1.00

14:24 99%

**MySiderealTime**

Local Sidereal Time  
**04:49:29**

Local Time  
**14:24:33**

Latitude  
**39° 26 ' 6 "**

Longitude  
**-76° 59 ' 24 "**

IT -5 GMT 18:24:33 DST

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**Clock**

Legal:	11:45:45 EDT
UT:	15:45:45
Mean local:	10:37:47
True solar:	10:41:16
Sidereal:	02:26:01
JD:	2460084.15677