



# LOCATION WORKS

## Sunrise / Sunset Predictions

London, England. Latitude 51° 30' North, longitude 0° -6' East

| Day        | Date           | Civil Twilight | Sunrise Time | Sunrise Azimuth | Daylight Hours | Sunset Time  | Sunset Azimuth | Civil Twilight | Moon Phase |
|------------|----------------|----------------|--------------|-----------------|----------------|--------------|----------------|----------------|------------|
| Sun        | 11/1/09        | 07:23          | 08:02        | 129°            | 8:12           | 16:14        | 238°           | 16:53          | ☉          |
| Mon        | 12/1/09        | 07:22          | 08:01        | 128°            | 8:15           | 16:16        | 239°           | 16:55          | ☉          |
| Tue        | 13/1/09        | 07:22          | 08:00        | 128°            | 8:17           | 16:17        | 239°           | 16:56          | ☉          |
| <b>Wed</b> | <b>14/1/09</b> | <b>07:21</b>   | <b>08:00</b> | <b>128°</b>     | <b>8:19</b>    | <b>16:19</b> | <b>239°</b>    | <b>16:58</b>   | ☾          |
| Thu        | 15/1/09        | 07:20          | 07:59        | 128°            | 8:21           | 16:20        | 240°           | 16:59          | ☾          |
| Fri        | 16/1/09        | 07:20          | 07:58        | 127°            | 8:24           | 16:22        | 240°           | 17:00          | ☾          |
| Sat        | 17/1/09        | 07:19          | 07:57        | 127°            | 8:27           | 16:24        | 240°           | 17:02          | ☾          |

Magnetic Declination is **4° West**. Compass readings are **Magnetic North** - the calculations include the Declination (do not adjust your compass). Civil Twilight is defined as the time when the Sun is 6° below the horizon.

These figures assume a nautical horizon; if the horizon is obscured by mountains or buildings, use the location diagram below to estimate the azimuth (compass bearing) of rising/setting. If your application requires a high degree of accuracy, it is recommended that you use these figures merely as a guideline for your own observations.

— Moon phases: ● New Moon; ◐ First Quarter; ○ Full Moon; ◑ Last Quarter.

### Solar Location Diagram

This diagram shows the altitude and azimuth of the Sun from sunrise to sunset.

The radial lines indicate the azimuth (compass bearing) at 15° intervals.

The concentric circles indicate the altitude of the Sun at 10° intervals, from 0° on the horizon to 90° on the zenith.

London, England

Latitude 51° 30' North

Longitude 0° -6' East

Wed 14th Jan 2009

Time zone: 0

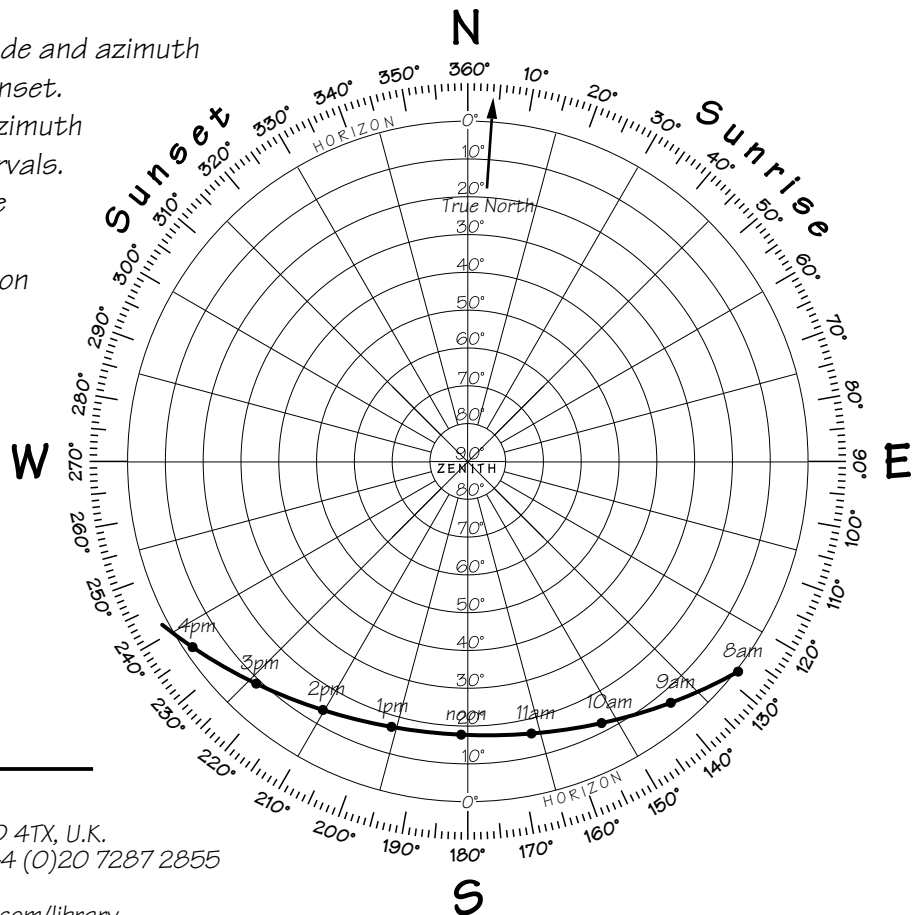
(no daylight saving)

Sunrise: 08:00, 128°

Sunset: 16:19, 239°

Sun's highest altitude: 17°

Moon phase: ◑



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