Some Amazing Views of Earth

http://dartmouth.org/classes/53/photo_archives/BLUEBEAUTY.pps
Sun’s Path- the daily path the sun makes through the sky along the ecliptic. The sun’s path changes with the seasons cyclically.
Ecliptic - the line the sun traces out in the southern sky
The sun always rises towards the east and sets towards the west of an observer.

The exact positions of the sunrise and sunset changes on the horizon.
Autumnal Equinox (label as “A.E.”)
Winter Solstice (label as W.S.)

12/21/2004  7:15 a.m.
Start with a new color for January-April!

1/25/2005  7:10 a.m.

1/25/2005  7:10 a.m.
Spring Equinox label as “S.E.”
Zenith- the point directly above an observer's head.
Winter Solstice – December 21st
Spring Equinox – March 21st
Fall Equinox – September 21st
Summer Solstice – June 21st

\[ \theta = \text{Local Latitude} \]

- South
- East
- West
- North
- Toward the North Celestial Pole

The diagram illustrates the position of the sun during the summer solstice, showing the local latitude angle \( \theta \).
θ = Local Latitude

Spring and Fall Equinox

Winter Solstice

Summer Solstice

North Celestial Pole

South

West

East