

The equatorial coordinate system

a system like
latitude and
longitude for
the celestial
sphere

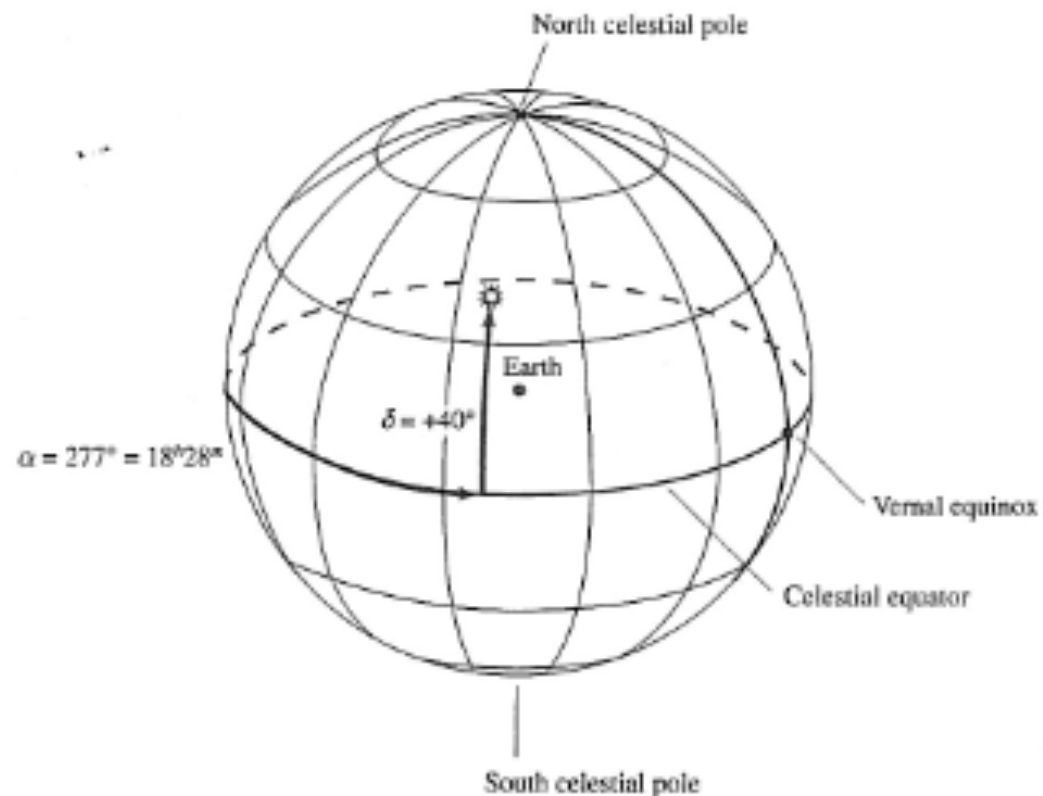


FIGURE 1.5 The right ascension (α) and declination (δ) of a point on the celestial sphere.

Two lines on the sky: the celestial equator and the ecliptic

1.3 Celestial Motions

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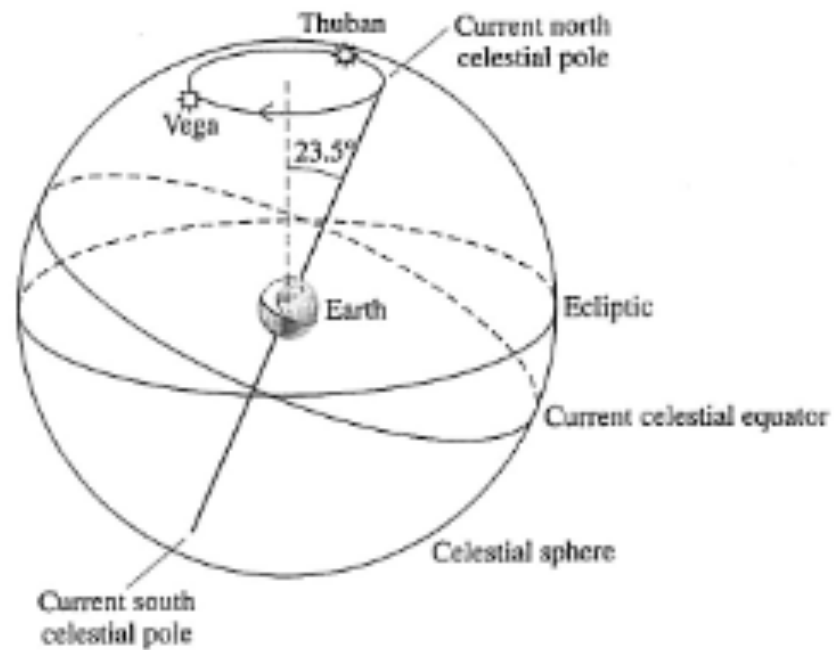


FIGURE 1.10 Precession of the Earth's rotation axis, with the resulting motion of the north celestial pole on the celestial sphere.

Revolution of the Earth about the Sun: an explanation for many astronomical phenomena

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Chapter 1 Early Astronomy

The seasonal changes in the night sky...
The difference between sidereal and solar time

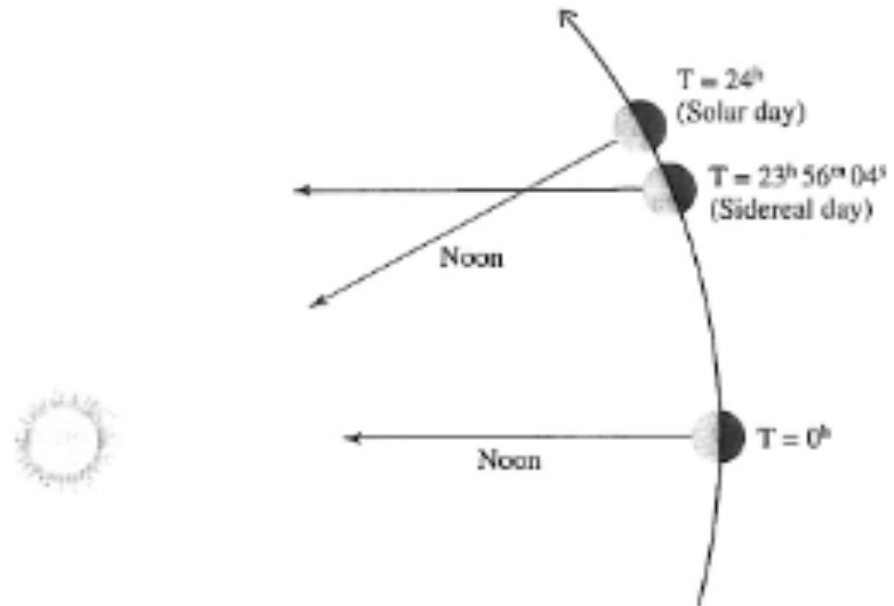
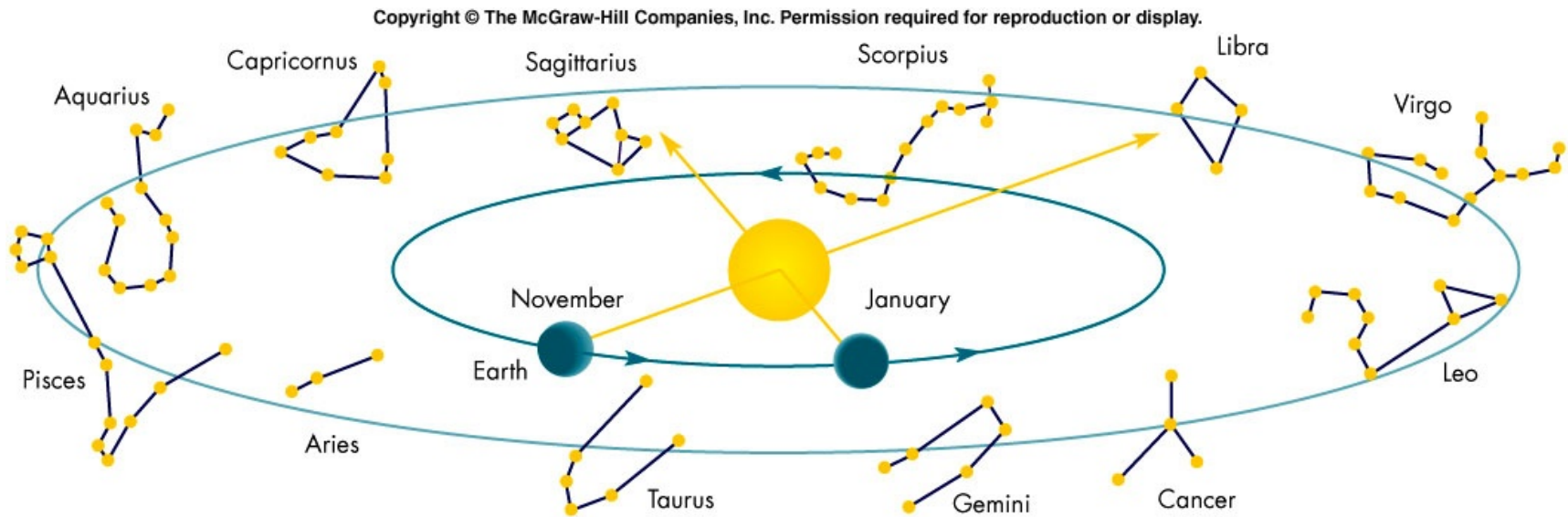


FIGURE 1.11 The relation between the solar and sidereal day; the solar day is slightly longer than the sidereal day because of the Earth's orbital motion around the Sun.

The “parade of the constellations”



Demo



Also look at online animation with the book web site