


## Guidepost

Astronomy is about us. As we learn about astronomy, we learn about ourselves. We search for an answer to the question "What are we?" The quick answer is that we are thinking creatures living on a planet that circles a star we call the sun. In this chapter, we begin trying to understand that answer. What does it mean to live on a planet?
Chapter 2 and the next help us understand what the universe looks like seen from our spinning planet.

What we see is caused by the cycles of Earth, its moon, and the sun. We will see in the next chapter how Renaissance astronomers analyzing these cycles first realized that we do indeed live on a planet.

## Outline (continued)

III. Sun and Planets
A. Annual Motion of the Sun
B. Seasons
C. Motions of the Planets
IV. Astronomical Influences on Earth's Climate A. Milankovitch Climate Cycles: Hypothesis B. Evidence


Constellations (2)
*


In ancient times, constellations only referred to the brightest stars that appeared to form groups, representing mythological figures.


| Table 2.1 (p.16) |  |
| :---: | :---: |
| Magnitude Difference |  |
| 0 | $\frac{\text { Corresponding Flux Ratio }}{1}$ |
| 2 | 1 |
| 3 | 2.5 |
| 4 | 6.3 |
| 5 | 16 |
| 10 | 40 |
| 15 | 100 |
| 20 | 10,000 |
| 25 | $1 \times 10^{6}$ |
|  | $100 \times 10^{6}$ |
|  | $10 \times 10^{9}$ |







