

Figure 3.9 On a worldwide, long-term average, air molecules absorb 16% of the incoming sunlight and reflect another 6%. Clouds remove another 24%.

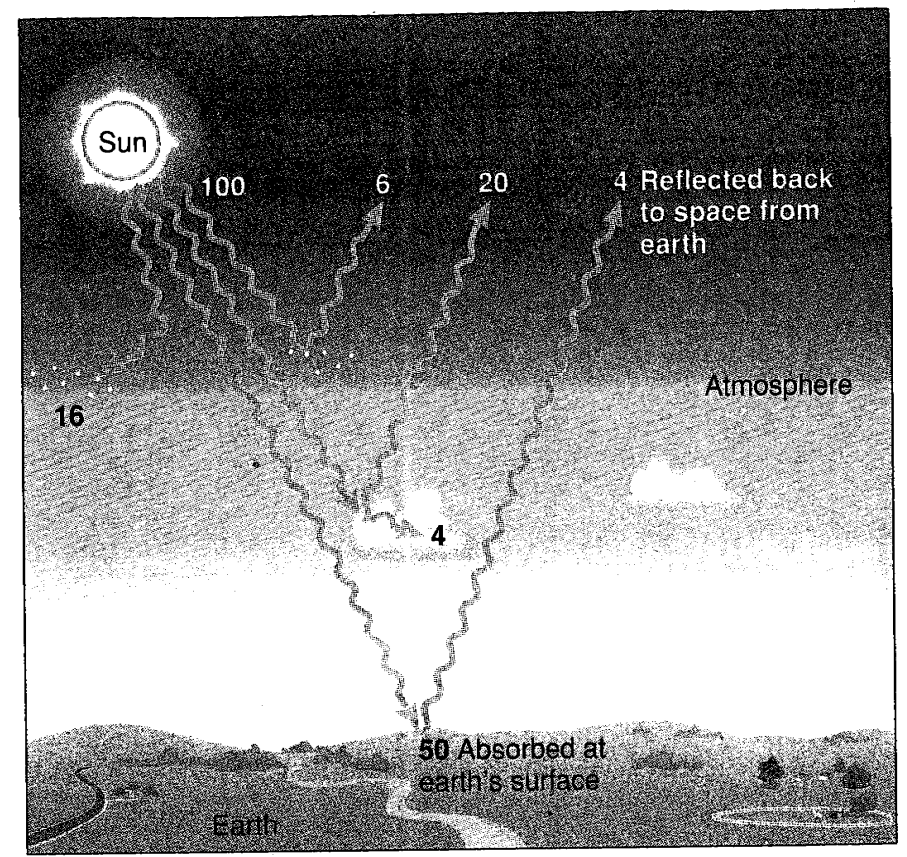


Figure 3.10 The complete solar portion of earth's average energy budget. What percent of the incoming 100 units actually warms the earth and atmosphere?

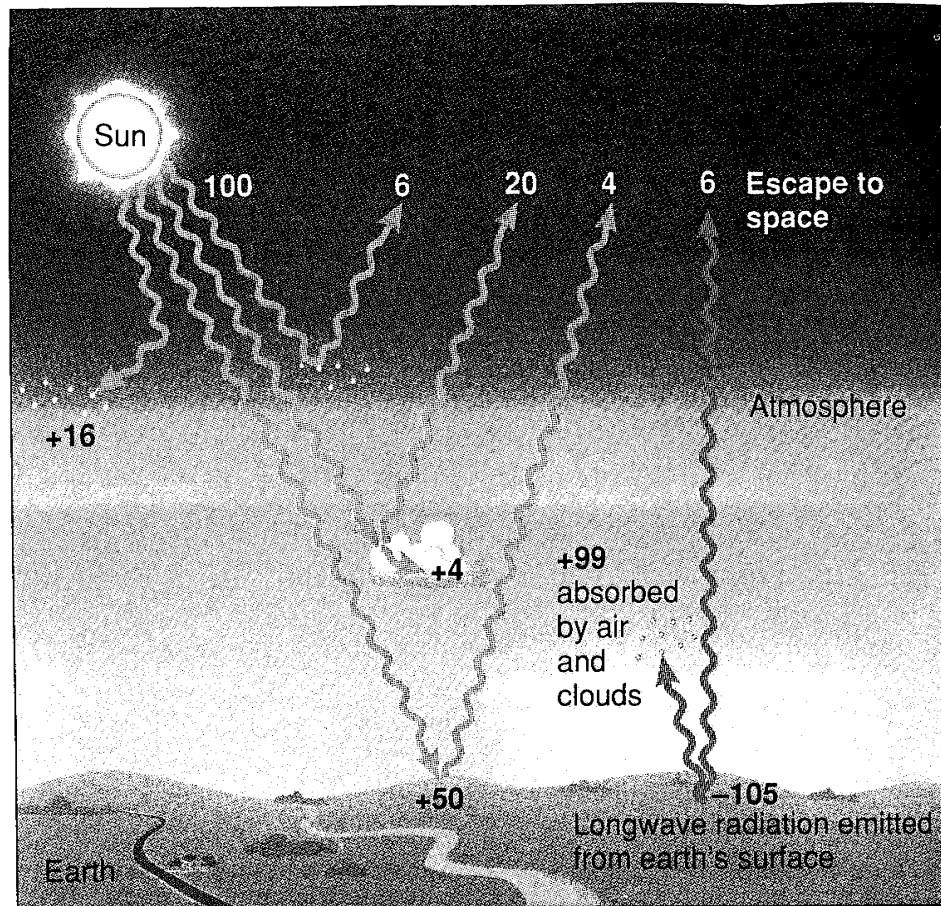
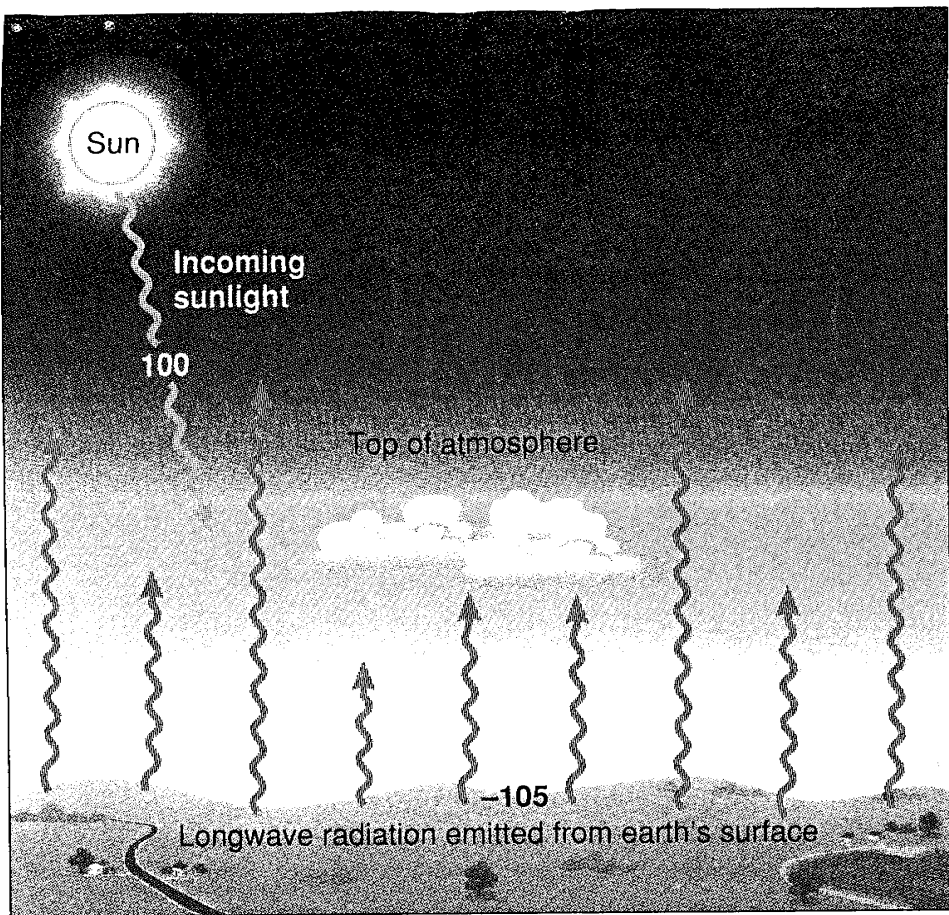


Figure 3.23 Upward longwave radiation from earth's surface is largely absorbed by clouds and certain atmospheric gases. Some, however, escapes directly into space.

Figure 3.24 The earth's energy budget, here including all solar fluxes plus upward longwave radiation from the earth's surface.

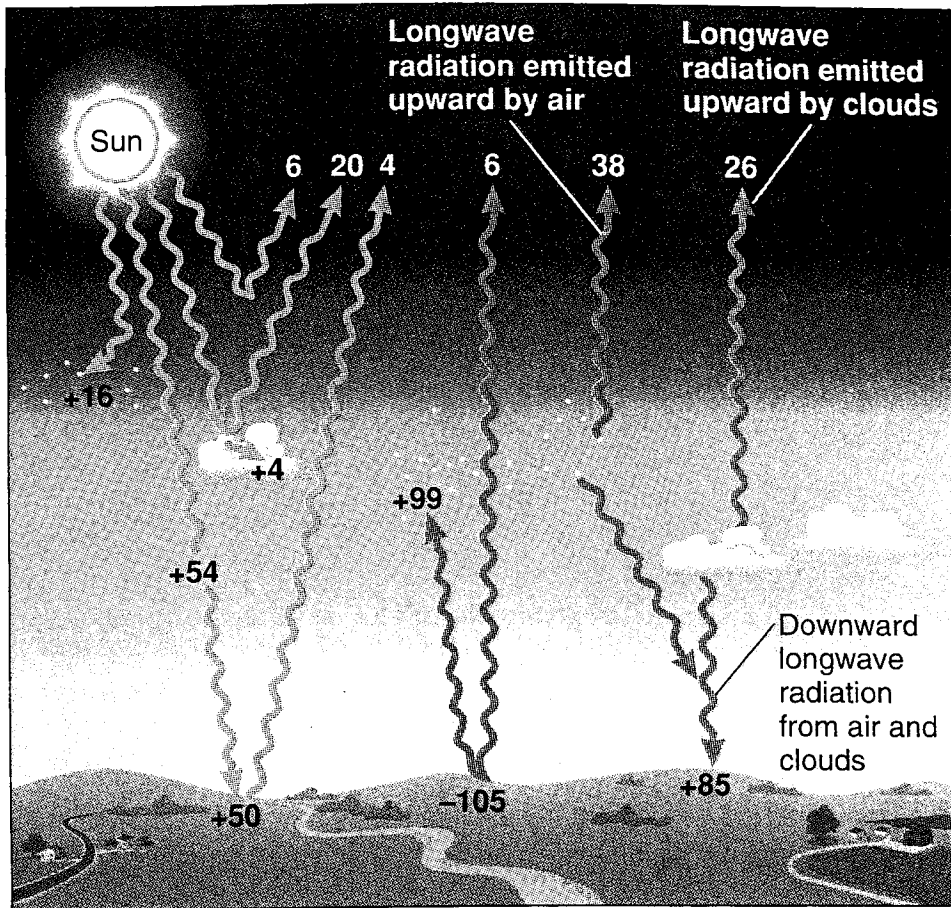


Figure 3.26 The earth's radiation budget. Note that the budget is balanced across the "top of the atmosphere" but is not at the earth's surface.

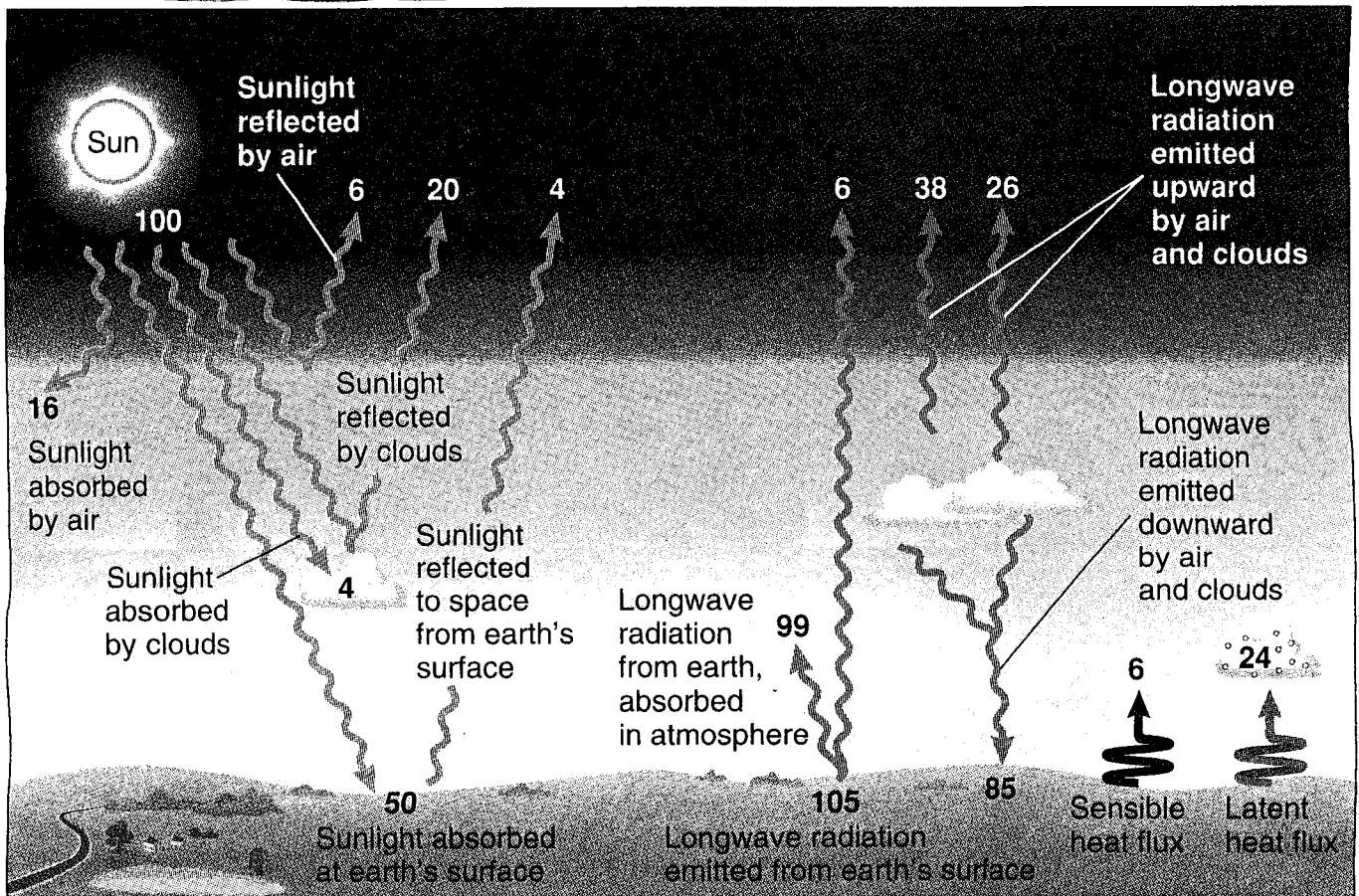


Figure 3.31. Mean global energy budget