



Figure 17 The fate of the Sun's energy reaching the Earth.



Figure 19 At the tropics of a planet with an atmosphere and oceans, about 20% of the incoming solar energy is transported to colder regions.



Figure 23 The global water cycle (figures represent quantities moved in  $10^{15}$  kg per year).

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Figure 24 Ocean currents in the Atlantic.



deep water cold current in the Atlantic Ocean.

Figure 26 Deep ocean currents take cold salty water from the Atlantic to the Indian and Pacific Oceans on a giant 'conveyor belt'.





Figure 28 The easterly winds (red arrow) that usually extend nearly all the way across the Pacific retreat eastwards with the onset of El Niño conditions. As a result, along the equator, the slope of the sea surface and the dividing layer between the warm surface water and deep cold water both flatten out.



Figure 36 The dissolving of shells on the deep ocean floor.

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Figure 38 Formation of stalactites.



Figure 42 The buffering action in the oceans – why the oceans do not become more acidic.

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