**A convection box**

A box to show why winds blow may be made easily. Use a wood or pasteboard box for which you can get a pane of glass, the correct size to make a tight window. A wood chalk box which has grooves for a cover works very well. Cut the glass so that it will slide in the grooves.

Next bore two holes in one of the long sides of the box, one near each end. The holes should be from 2.5 to 3 cm in diameter. The box must lie with this side up.

You need two lamp chimneys to place over the holes. If lamp chimneys are not available you can use pieces of mailing tube about 15 cm in length.

Place a short piece of candle on the floor of the box just under one of the chimneys. Light the candle. This represents a land area that has been heated by the sun.

Close the window and, with a piece of smoking paper, trace the air current in each chimney. Watch the movement of air inside the box. Move the candle under the other chimney. This is called convection current.