# 8

### Winds, Storms and Cyclones



rissa was hit by a cyclone with wind speed of 200 km/h on 18 October 1999. The cyclone smashed 45,000 houses making 7,00,000 people homeless. On 29 October the same year, a second cyclone with wind speed of 260 km/h hit Orissa again. It was accompanied by water waves about 9 m high. Thousands of people lost their lives. Property worth crores of rupees was destroyed. The cyclone affected agriculture, transport, communication, and electricity supply.

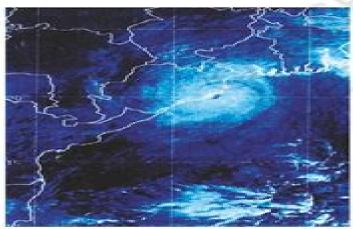


Fig. 8.1 Image taken by a satellite of a cyclone approaching the coast of Orissa

Courtesy: India Meteorological Department. New Delhi But, what are cyclones? How are they formed? Why are they so destructive? In this chapter we shall seek answers to some of these questions.

We begin with some activities involving air. These activities will clarify some basic features concerning a cyclone. Before we begin, remember that the moving air is called the **wind**.

#### 8.1 AIR EXERTS PRESSURE

#### Activity 8.1

Whenever an activity involves heating, be very careful. It is advised that such activities are performed in the presence of an elderly person from your family. Or, carry out these activities in the presence of your teacher.

You need to boil water in the following activity.

Take a tin can with a lid. Fill it approximately half with water. Heat the can on a candle flame till the water boils. Let the water boil for a few minutes. Blow out the candle. Immediately put the lid tightly on the can. Be careful in handling the hot can. Put the can carefully in a shallow metallic vessel or a washbasin. Pour fresh water over the can. What happens to the shape of the can?

## **Winds Storms And Cyclones Class 7**

Fire Underwriters' Association of the Northwest

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