

Special Feature

Reading a Weather Chart

et Éireann, the Irish National Meteorological Service, is the main provider of weather information in Ireland. To help us visualise what type of weather is on the way, forecasters create weather charts by using satellite imagery, radar information, maps and local knowledge. These charts are shown during weather forecasts on telly, in newspapers and online (www.met.ie). Here is information to help you understand them:

Weather chart with isobars, 25 Feb 2010

What are fronts?

a weather chart:

gradually eases.

on a weather chart:

A warm front is the edge of a

warm air mass. It looks like this on

Ahead of a warm front there is usually a wide belt of rain.

temperatures increase and the rain

A cold front is the edge of a cold

air mass. It can move twice as fast

as a warm front. It looks like this

Behind the warm front the

Isobars

Isobars are the lines on a weather chart and these join points of equal pressure. When the lines are close together, the wind is strong. When the lines are far apart, the wind is light. The wind blows almost parallel to the isobars.

Charts showing isobars are useful because they identify features such as anticyclones and depressions, which are associated with particular kinds of weather.

L = centre of a low pressure area/depression

This is usually associated with unsettled weather.

It brings strong winds, rain belts and perhaps snow in winter.

In the northern hemisphere, wind around a low pressure system blows anticlockwise.



This is usually associated with settled weather.

It brings cloudless skies.

In winter clear skies and light winds can mean frost and fog. Wind around a high pressure system blows clockwise.





narrow rain belt.

Ahead of a cold front there is a

Behind a cold front the weather is brighter but the temperature is cooler.

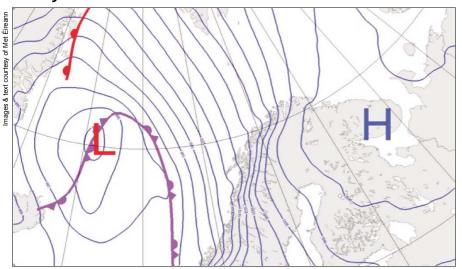
An **occlusion** brings weather similar to a warm front. It looks like this on a weather chart:



It usually forms when a cold front catches up with a warm front.

The information on this page is from Met Éireann's Primary School Resources page on www.met.ie/education, where parents, teachers and children will find resources on weather-related topics that have been designed for use in primary schools in Ireland.

Can you read this weather chart?



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