

AVIATION WEATHER PRODUCTS

Winds and Temperature Charts

Bureau of Meteorology › Weather Meteorological Services



The Aviation Weather Centre Melbourne generates upper level wind and temperature forecast charts using data from the World Area Forecast System.

Wind and Temperature Charts

A wind and temperature chart provides a graphical display of forecast wind and temperature data for one flight level.

The Bureau's Aviation Weather Centre Melbourne generates these charts from data sourced from one of the two World Area Forecast Centres (WAFC).

Charts are issued every six hours and are produced for the following areas and flight levels:

Australian Region – 0°S to 50°S, 100°E to 180°E (Mercator projection)

- FL050 850hPa
- FL100 700hPa
- FL180 500hPa
- FL240 400hPa
- FL300 300hPa
- FL340 250hPa
- FL390 200hPa

ICAO Area E – 45°N to 47°S, 25°E to 180°E (Mercator projection)

- FL100 700hPa
- FL180 500hPa
- FL300 300hPa
- FL340 250hPa
- FL390 200hPa

ICAO Area F – 42°30'N to 47°30'S, 100°E to 110°W (Mercator projection)




- FL240 400hPa
- FL300 300hPa
- FL340 250hPa
- FL390 200hPa

ICAO Area K – 0°S to 90°S, 0°E to 180°W (Polar Stereographic projection)

- FL300 300hPa
- FL340 250hPa

The data is presented in 5° grids on a geographic background.

Winds are indicated by arrows, where the arrow alignment gives the direction from which the wind is blowing, and the barb gives the speed, where:

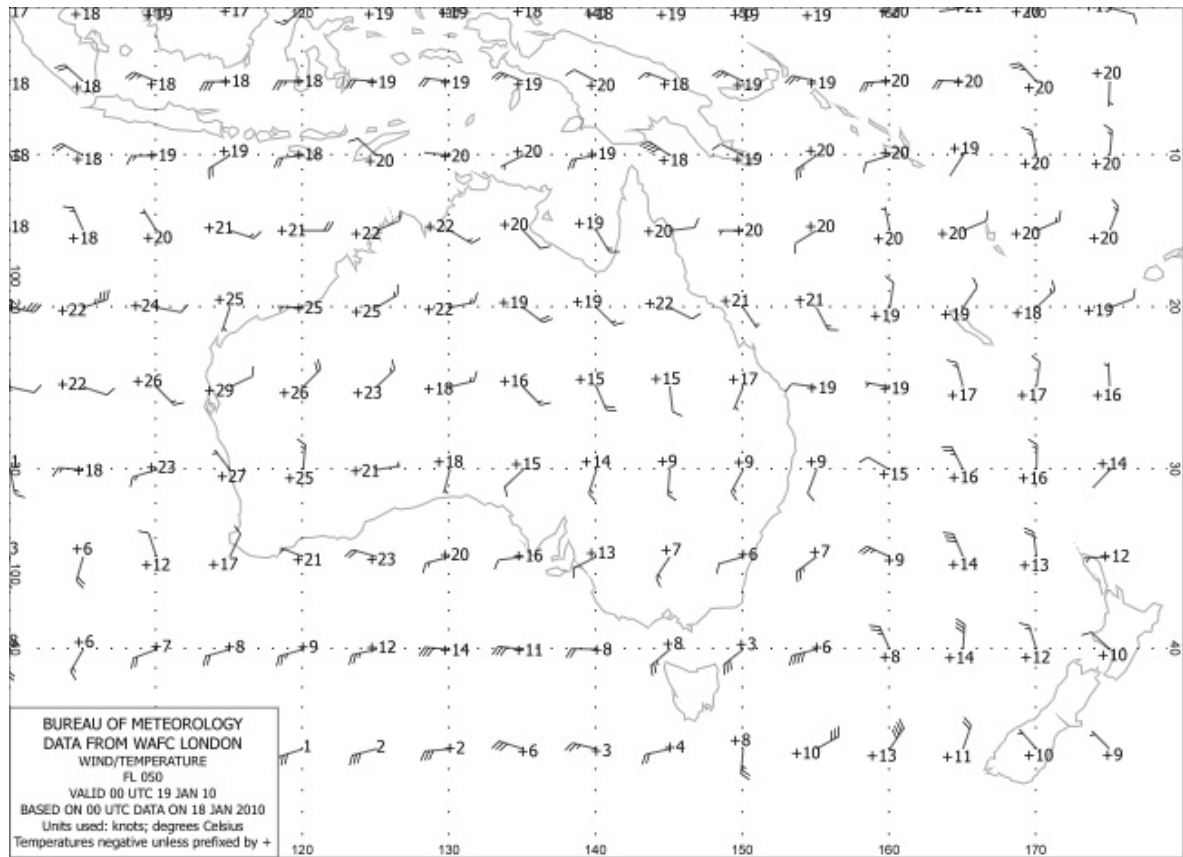
- a pennant barb () represents 50 knots
- a feather barb () represents 10 knots
- a half feather barb () represents 5 knots

Temperatures are given in whole degrees Celsius, and are negative unless preceded by the plus sign (+).

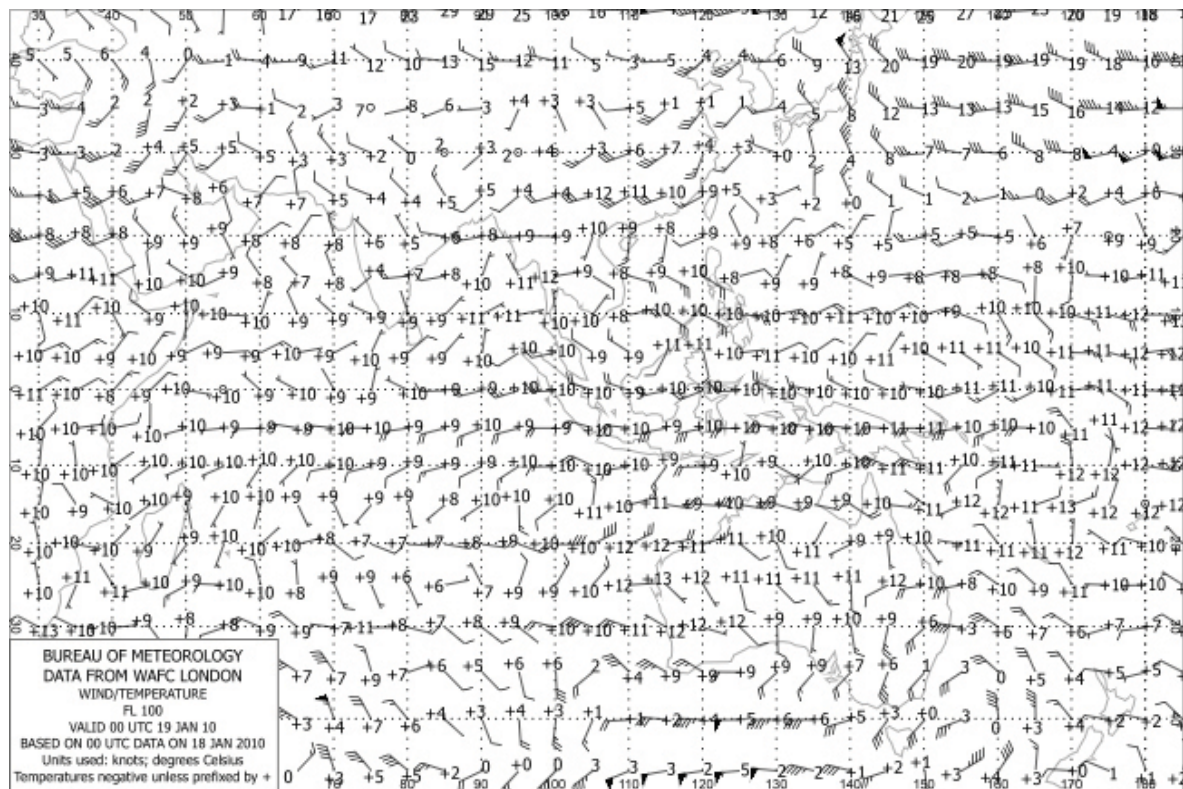


Example Charts

Australian Region



ICAO Area E



Australian Government
Bureau of Meteorology

Airservices Australia is the official distributor of aviation forecasts, warnings and observations issued by the Bureau of Meteorology. Airservices' flight briefing services are available at www.airservicesaustralia.com. Telephone contact details for elaborative briefings are contained in Airservices' Aeronautical Information Publication Australia (AIP), which is available online through their website.

Other brochures produced by the Bureau of Meteorology's aviation meteorological services program can be found at www.bom.gov.au/aviation/knowledge-centre.

A vertical line in the margin indicates a text amendment since last update.