



### ► Coastal Waters zones in NSW and adjacent areas

Services to dark blue areas broadcast by Sydney Radio (VIS), light blue areas by Melbourne Radio (VIM);

#### Frequencies kHz

**2201, 4426, 6507, 8176, 12365** and also

**VHF Channel 67** (Some centres only). Call Telstra on **1800 810 023** for details).

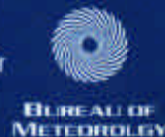
Volunteer Coast Guard and Penta Comstat also broadcast to these areas.

### Marine broadcast schedules

Location	Forecasts*	Warnings*
Coastal NSW/Southern QLD	0503/1703	3 mins past each odd hour
Coastal Victoria/ Tasmania	0748/1348/1948	48 mins past each odd hour
South East high seas (VIS)	0503/1703	3 min past each odd hour
South East high seas (VIM)	1148/2248	48 mins past each odd hour

\* Local Standard Time (add one hour during Daylight Saving Time)

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mini-guide

to BUREAU OF METEOROLOGY

## ► MARINE WEATHER SERVICES

NEW SOUTH WALES

### Routine marine forecasts

**Routine coastal waters forecasts** for areas within 60 nautical miles of the coast, issued several times daily. Coastal warnings are issued whenever strong winds, gales, storm or hurricane-force winds are expected, and are renewed every 6 hours.

**Routine high seas forecasts** issued twice daily for the areas beyond the coastal waters surrounding Australia. High Seas warnings are issued whenever gale, storm or hurricane-force winds are expected, and are renewed every 6 hours.



## Definitions and terminology

**Wind Direction** given in 16 compass points and is the direction the wind is coming from.

**Wave height** vertical distance between the top of crest and bottom of trough.

**Wind speed** refers to the average speed over a 10-minute period at a height of 10 metres above the surface and is given in knots. A knot (kn) is equal to a speed of one nautical mile per hour. Note: 10 knots = 18.5 km/h and 10 km/h = 5.4 knots.

**Gusts** may be up to 40 per cent stronger than average speed.

A **squall** is an abrupt and large increase of wind speed with a duration of the order of minutes which diminishes rather suddenly.

**Wave and swell heights** are described in terms of significant wave height which represents the average of the highest one-third of the waves. Some waves will be higher and some lower than the significant wave height. Typically one in 2000 waves will be twice this height.

**King/Freak/Rogue waves** occur when wind waves and/or a combination of swell waves join to produce a very high wave. Can be much larger than the significant wave height.

**UTC (Universal Time Coordinate)** time references in forecasts/warnings for high seas are given in UTC. Australian Eastern Standard Time is UTC + 10 hrs.

## Warnings issued

**Strong wind (coastal areas only)**

average speed 25 to 33 kn.

**Gale** average speed 34 to 47 kn.

**Storm** average speed 48 to 63 kn.

**Hurricane (tropical areas only)** average speed more than 63 kn.

*\* remembering gusts may be up to 40% stronger*

## Wind categories

Category	Speed	Beaufort Force
Strong wind	25 to 33 kn	6-7
Gale force	34 to 47 kn	8-9
Storm force	>47 kn	10-11
Hurricane force	>63 kn	12

*\* remembering these are all ten-minute averages*

## Forecast and warning delivery systems

**HF and VHF marine radio**

See back page.

**Radiofax AXM/AXI**

A range of weather and marine charts are broadcast by radiofax. Schedule available by fax 1902 935 046 (66\* cents/min.) or our internet site.

**Phone/Fax**

Call 1900 926 113 (77\* cents/min.) or fax 1902 935 254 for a directory of recorded voice phone services. Fax 1800 630 100 for a free directory of fax services.

**Internet**

A large range of information is available from the Bureau's web site at <http://www.bom.gov.au>

*\* Includes GST*