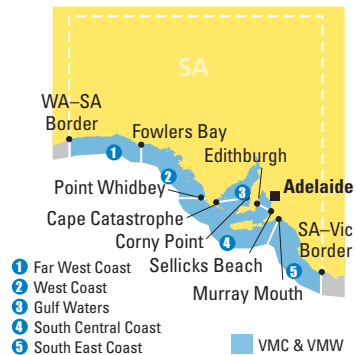


## South Australian Coastal Water zones



## HF radio voice frequencies

Warnings, Forecasts and Coastal Weather Observations are broadcast from VMW and VMC on the following HF radio frequencies:

### VMC broadcasts on frequencies (kHz)

4426, 8176, 12365, 16546 (6.30 am–5.30 pm CST)

2201, 6507, 8176, 12365 (5.30 pm–6.30 am CST)

### VMW broadcasts on frequencies (kHz)

4149, 8113, 12362, 16528 (8.30 am–7.30 pm CST)

2056, 8113, 6230, 12362 (7.30 pm–8.30 am CST)

mini-guide

to BUREAU OF METEOROLOGY

# MARINE WEATHER SERVICES

SOUTH AUSTRALIA

## Weather warnings and forecasts

**Wind warnings** are issued whenever strong winds, gales, storm force or hurricane force winds are expected. They are issued with around 24 hours lead-time where possible, and are renewed every six hours.

**Local waters forecasts** for the Adelaide metropolitan waters are issued three times daily out to two days ahead.

**Coastal waters forecasts** for areas within 60 nautical miles of the coast are issued twice daily. Updates may be issued at other times. Forecasts include wind, sea and swell predictions out to four days ahead.

## HF broadcast services

Forecast	Broadcast times*	Station
Coastal SA (CST)	0200, 0600, 1000, 1400, 1800, 2200	VMC
Coastal SA (CST)	0300, 0700, 1100, 1500, 1900, 2300	VMW
Coastal WA (WST)	0030, 0430, 0830, 1230, 1630, 2030	VMW
Coastal Victoria (EST)	0130, 0530, 0930, 1330, 1730, 2130	VMC

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

**Warnings Every hour commencing 0030 CST**



© Commonwealth of Australia 2010

## Definitions and terminology

**Wind direction** is given in 8 compass points for forecasts and 16 points for observations and is the direction the wind is coming *from*.

**Wave height** is the vertical distance between the top of the crest and the bottom of the 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. One knot 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 the 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.

**Combined sea 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. These waves can be much larger than the significant wave height.

**Wave period** is the number of seconds between each wave crest. The greater the period, the greater the energy and wavelength of the waves.

## Wind and warning categories

Category	Speed (knots)	Beaufort Force
Strong wind	26 to 33	6–7
Gale	34 to 47	8–9
Storm force	48 to 63	10–11
Hurricane force	64 or more	12

**Note:** Wind speed is a ten-minute average. Gusts may be up to 40% stronger.

## Coastal observations

Weather observations from coastal stations include local wind speed and direction. They may also include sea and swell reports, general weather and visibility. Observations are generally updated every half hour.

**Regular monitoring of reports is advised.**

## Marine services access

**Internet** Marine services are available from the Bureau's website at <http://www.bom.gov.au/marine>.

### HF marine radio

Voice: see back page for details  
 Radiofax VMC/VMW: a range of weather and marine charts is broadcast by radiofax. Schedule available from our website.

### VHF marine radio

Marine weather forecasts are broadcast through volunteer marine rescue groups and the Australian Volunteer Coast Guard. For details see the Bureau's marine web pages as detailed above.

### Phone (77\* cents/min.)

1900 969 975 SA coastal waters  
 1300 659 215† SA coastal, land weather and flood warnings

**Fax** (\$1.38\*/min.) poll-fax 1902 935 200 for a reference directory of fax services.  
 1902 935 280 SA coastal waters

\* Call costs apply (correct at time of printing) includes GST; more from mobile and public phones.  
 † Local call cost.