

# Australian Standard Ports

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## Selection Criteria

A standard port (also known as a "primary port", particularly in North America) is one for which sufficient data is available in order for a set of official predictions to be produced. By contrast, a secondary (or "subordinate") port is one for which predictions are required, but due to insufficient data, they may be less reliable. In some cases, at secondary ports, certain constants are inferred on the basis of relationships taken from the nearest standard port.

## Standard Port Tidal Stations that have Permanently Operating Recorders as of 2007

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	Sensor Type	Owner/operator
<b>New South Wales</b>		
Eden	Electromagnetic tide pole	MHL
Newcastle	Acoustic / Float	NPC
Port Kembla	Acoustic/ Pressure	NTC
Sydney (Fort Denison)	Acoustic	SPC
Yamba	Electromagnetic tide pole	MHL
<b>Northern Territory</b>		
Centre Island	No operating gauge	

Darwin	Acoustic, Pressure	NTC
Gove Harbour	Float	NT Dep. Of Planning and Infrastructure
Milner Bay	Acoustic	NTC
Abbott Point	No operating gauge	
Booby Island	Acoustic	AMSA
Brisbane (W. I. Bar)	Bubbler	MSQ
Bugatti Reef	No operating gauge	
Bundaberg	Float	BPA
Cairns	Float	EPA
Gladstone	Acoustic	MSQ
Gold Coast Seaway	Radar	MSQ
Goods Island	Acoustic	AMSA
Hay Point	Gas purge, Radar	MSQ
Hay Point	Float, Radar	EPA
Ince Point	Acoustic	AMSA
Jubilee Reef	No operating gauge	
Karumba	Float	MSQ
Leggatt Island	No operating gauge	
Lucinda	Float	EPA
Lucinda	Radar	EPA
Mackay	Radar	EPA
Mooloolooba	Radar (shaft encoder)	EPA
Mourilyan Harbour	Float	EPA
Mornington Island	No operating gauge	
Noosa Head	No operating gauge	

Port Alma	Radar (shaft encoder)	EPA
Poll Island	No operating gauge	
Port Douglas	Acoustic	MSQ
Shute Harbour	Float	EPA
Turtle Head	Acoustic	AMSA
Twin Island	No operating gauge	
Urangan	Radar	EPA
Waddy Point	No operating gauge	
Weipa	Float	PA
South Australia		
Port Adelaide	Bubbler	FP
Port Giles	Float	FP
Port Lincoln	Bubbler	FP
Port Pirie	Bubbler	FP
Thevenard	Acoustic / Pressure	NTC
Victor Harbor	Float	FP/Transport SA
Wallaroo	Pressure	FP
Whyalla	Acoustic	FP/OneSteel
Tasmania		
Burnie	Acoustic	NTC
Devonport	Acoustic	Port of Devonport
Georgetown	No operating gauge	
Hobart		Hobart Ports Corp
Spring Bay	Acoustic/ Pressure	NTC
Stanley	No operating gauge	
Victoria		
Geelong	Acoustic	Vic Channels Auth.
Melbourne	Acoustic	Port of Melbourne

Port Philip Heads (Lonsdale)	Acoustic	Port of Melbourne
Portland	Acoustic	NTC
Port Welshpool	No gauge	
Western Port (Stony Point)	Acoustic	NTC / TOLL
Western Australia		
Albany	Float (Handar Logger <sub>1</sub> )	Albany P.A./DPI
Broome	Acoustic, Pressure	NTC
Bunbury	Float (Handar Logger)	DPI
Busselton	Float (Handar Logger)	DPI
Cape Lambert	Float (Handar Logger)	Robe R. Mining/DPI
Carnarvon	Float (Handar Logger)	DPI
Dampier	Float (Handar Logger)	Hamersley Iron/DPI
Derby Jetty	Float (Handar Logger)	DPI
Esperance	Acoustic, Pressure	NTC
Esperance	Float (Handar Logger)	DPI
Exmouth	Float (Handar Logger)	DPI
Fremantle	Float (Handar Logger)	DPI
Geraldton	Float (Handar Logger)	Geraldton P.A./DPI
Jurien	Float (Handar Logger)	DPI
King Bay	Float (Handar Logger)	Woodside Pet./DPI
Mandurah	Float (Unidata Logger <sub>2</sub> )	DPI

Mangles Bay	Float (Unidata Logger)	DPI
Onslow (Beadon Ck.)	Float (Handar Logger)	DPI
Onslow (Onslow Salt)	Float (Unidata Logger)	Onslow Salt/DPI
Perth (Barrack St.)	Float (Handar Logger)	DPI
Port Hedland (Bn3)	Float (Handar Logger)	Port Hedland/DPI
Useless Loop Jetty	Float (Unidata Logger)	Shark Bay Salt/DPI
Wyndham	Float (Handar Logger)	DPI
Antartica		
Casey	Pressure	AAD
Davis	Pressure	AAD
Mawson	Pressure	AAD
Other		
Cocos Island	Acoustic / Pressure	NTC
Macquarie Island	Acoustic / Pressure	AAD
Norfolk Island	Float	MHL

\*Standard port: A place for which independent daily predictions are given in the tide or stream tables, from which corresponding predictions are obtained for other locations, known as secondary ports, by means of differences or factors.

†Ports marked with this symbol are "standard ports" in Seafarer Tides, but not ANTT.

<sup>1</sup>[Handar](#) 550B Hydrologger

<sup>2</sup>[Unidata](#) Model 6541

## Acronyms:

- **AMSA:** Australian Maritime Safety Authority
- **AAD:** Australian Antarctic Division
- **BPA:** Bundaberg Port Authority
- **DPI:** Department of Planning and Infrastructure (State of Western Australia)

- **EPA:** Environmental Protection Agency (State of Queensland)
- **FP:** Flinders Ports Pty Ltd
- **MHL:** Manly Hydraulics Laboratory
- **MSQ:** Maritime Safety Queensland
- **NTC:** National Tidal Centre (Bureau of Meteorology)
- **SPC:** Sydney Port Corp

**All gauges listed in the table of standard ports are fitted with digital recording devices (there are no chart recorders).**