



**RELIABILITY DIAGRAM**

**KEY TO SYMBOLS**

400 Distance apart of main sounding lines in metres

L Lead Line depths  
E Echo Sounding depths  
O Optical position fixing  
Z Electronic position fixing  
S Sonar sweep  
R Reconnaissance or incomplete survey

**Authorities**

A Transport  
B Royal Australian Navy  
C AUSLIG  
D Other

**NATIONAL PARKS AND NATURE RESERVES**  
National Parks are reserved for conservation of flora, fauna, rocks and landscape. Firearms, pets, ground fires and driving of established tracks are not permitted. Within Nature Reserves, firearms, camping, lighting of fires, removal of soil and timber, dumping of rubbish, disturbance of flora and fauna are prohibited. Refer to Conservation and Land Management publications for further information on National Parks and Nature Reserves.

**LEEUEWIN CURRENT**  
The Leeuwin Current is most predominant during May - August with a surface current generally less than 1.0m/s. It has an average width of 30 nautical miles and extends to a depth of approximately 200 metres, carrying warm, low salinity water from the North West Shelf area along the continental shelf south to Cape Leeuwin and then east into the Great Australian Bight. For details of currents generally refer to R.A.N. Australia Pilot Vol 1.

**WESTERN ROCK LOBSTER FISHERY**  
Between November and June, extensive lobster fishing takes place between latitude 24°S and 34°S. Mariners are advised to keep well clear of lobster pot floats and submerged lines.

**FISHING**  
Fishing regulations apply throughout Western Australia. Refer to Fisheries WA publications for further information.

**ROADS AND TRACKS**  
The representation on this chart of any road or track is not necessarily evidence of a Public Right of Way.

**HISTORIC SHIPWRECKS**  
All wrecks, 75 years old or more, are protected under an Act which prohibits the removal of artefacts or willful damage of any sort. By this means, the sites will remain better preserved for divers in the future. Refer to WA Maritime Museum for further information.

AUSTRALIA - WEST COAST  
**WESTERN AUSTRALIA**  
**HORROCKS**  
SCALE 1 : 25 000

**DEPTHS**  
Depths are shown in metres and decimetres, reduced to Sounding Datum, which is approximately lowest water level.

**HEIGHTS**  
Heights are shown in metres. Underlined figures are drying heights above Sounding Datum. Overhead clearance heights are above Highest Astronomical Tide. All other heights are above Mean Higher High Water.

**POSITIONS**  
Positions on this chart are related to the Map Grid of Australia, Zone 50, based on GDA 94. For GPS use, this approximate WGS 84.

**PROJECTION**  
Transverse Mercator.

**SOURCES**  
From the latest information available to Transport, including Royal Australian Navy surveys of 1978 and Transport surveys of 1988 and 1990.

**NAVIGATION MARKS**  
IALA Maritime Buoyage System - Region A (Red to Port).

**NOTICES TO MARINERS**  
The information provided on this chart is subject to change. All such changes of a safety or navigational nature will be promulgated. Ensure that the latest edition of the chart is used at all times, and kept corrected with the relevant Notice to Mariners. Current Transport Notices to Mariners are available from Transport Chart Sales Offices, on the Internet at <http://www.coastaldata.transport.wa.gov.au/>, or Transport Approved Chart Agents.

**TIDAL INFORMATION AND SOUNDING DATUM**

Place	LAT	LONG	Heights in metres above datum						Sounding and Tidal Datum	
			HAT	MHHW	MHW	MSL	MLLW	LAT		
HORROCKS	28°47'	114°30'	1.40	1.02	0.74	0.75	0.68	0.51	0.14	3.47m below MLLW

**LOGARITHMIC NOMOGRAM SPEED - DISTANCE - TIME**

To find Speed, Distance or Time Interval, draw a line through any two factors, then interpolate for the unknown factor. eg. A distance of 10 nautical miles in 120 minutes means a speed of 5 knots.

**LEGEND**

- Marsh and swampland
- Nature Reserve / National Park
- Railway, Clearance height, Bridge
- Clearance height, Overhead powerline
- River
- Major road
- Minor road
- Track
- Medical facility, Building
- Mean high water
- Mean low water
- Datum mark
- Cut
- Rock shoreline
- Sand drift, Anchoring prohibited
- GPS validation point, Helpaid, Groyne
- Car parking, Over-beach launching
- Boat ramp, Tide rip
- Parking for boats / trailers
- Mangroves, Four ground, Marine farm
- Water, Fuel, Jetty, Safe anchorage
- Telephone, Public toilet
- Exposed wreck, Submerged wreck
- Hazardous submerged reef
- Reef which covers and uncovers
- Coral reef / outcrop, Breakers
- Rock wash, Underwater rock
- Sounding above Datum
- Danger line
- 2m contour
- 5m contour
- 10m contour
- Depth in metres and decimetres
- Approximate contour
- Submarine cable
- Anchorage area, No anchorage area
- No fishing, Pilot boarding location
- Speed limit boundary
- Water skiing boundary
- Prohibited area boundary
- Various limits
- Port Authority / Harbour boundary
- Recommended track
- Outfall
- Dredged area boundary
- Restricted area / Sensitive area
- Marine protected area

**NAVIGATION MARKS**

- Major light, minor light
- Beacon, port, starboard
- Safe water, isolated danger
- Spar buoy, port, starboard
- Pillar buoy, port, starboard
- Mooring buoy, yachting buoy
- Lead, front, rear

**CARDINAL MARKS**

- Indicates safe water to the North
- Indicates safe water to the South
- Indicates safe water to the East
- Indicates safe water to the West

**LIGHT CHARACTERISTICS**

Colour of light is white unless otherwise stated

- F = Fixed
- Fl = Flashing
- Fl (G) = Group flash
- Q = Quick flash
- LFl = Long flash
- Oc = Occulting
- Iso = Isophase
- Indicates lit navigation mark
- G = Green
- Y = Yellow
- R = Red
- Bu = Blue
- s = Period in seconds
- m = Focal plane height above MHHW
- M = Luminous range in nautical miles

For additional symbols and abbreviations, refer to Admiralty Chart 5011. For surveys beyond this Chart, see R.A.N. Charts AUS 751 and 532. Notices to Mariners.