

NAVIGATION MARKS

- Lighthouse, major, 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(1) - Group flash
- Q - Quick flash
- LF(1) - Long flash
- Oc - Occulting
- Is - Isophase
- G - Green
- R - Red
- Y - Yellow
- Bu - Blue
- s - Period in seconds
- m - Focal plane height above MHHW
- M - Luminous range in nautical miles

NATIONAL PARKS AND NATURE RESERVES

National Parks and Nature Reserves are gazetted for the Protection of Flora, Fauna and Landscape values. Dumping of rubbish, lighting of fires (including ground fires), firearms, pets, removal of rocks, soil and timber, driving off established tracks and disturbance of flora and fauna are all prohibited in National Parks and Nature Reserves. Camping is only allowed in gazetted areas of National Parks. Refer to Department of Biodiversity, Conservation and Attractions publications for further information on parks and reserves.

LEEUEWIN CURRENT

The Leeuwin Current is most predominant during May to August with a surface current generally less than 1 knot. 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 Department of Primary Industries and Regional Development publications for further information.

ROADS AND TRACKS

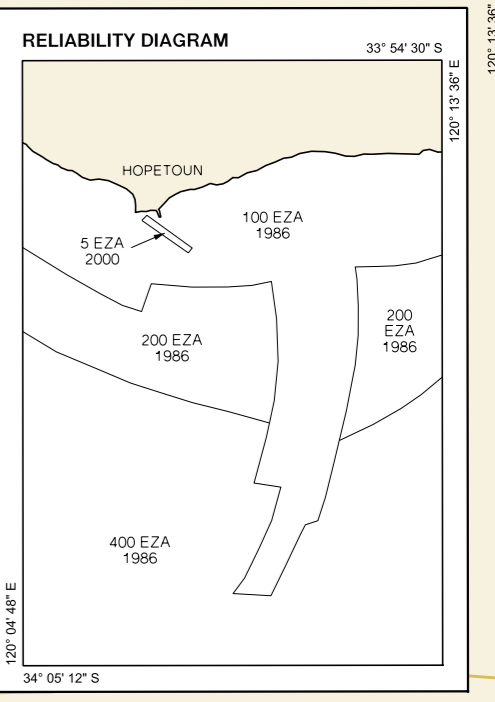
The representation on this chart of any road or track is not necessarily evidence of a Public Right of Way.

HISTORIC SHIPWRECKS

All wrecks 15 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.

SPEED CONVERSION TABLE

Nautical Miles Per Hour (Knot)	4	5	6	8	10	12
Miles Per Hour (Mph)	4.6	5.7	6.9	9.2	11.5	13.8
Kilometres Per Hour (Kph)	7.4	9.2	11.1	14.8	18.5	22.2

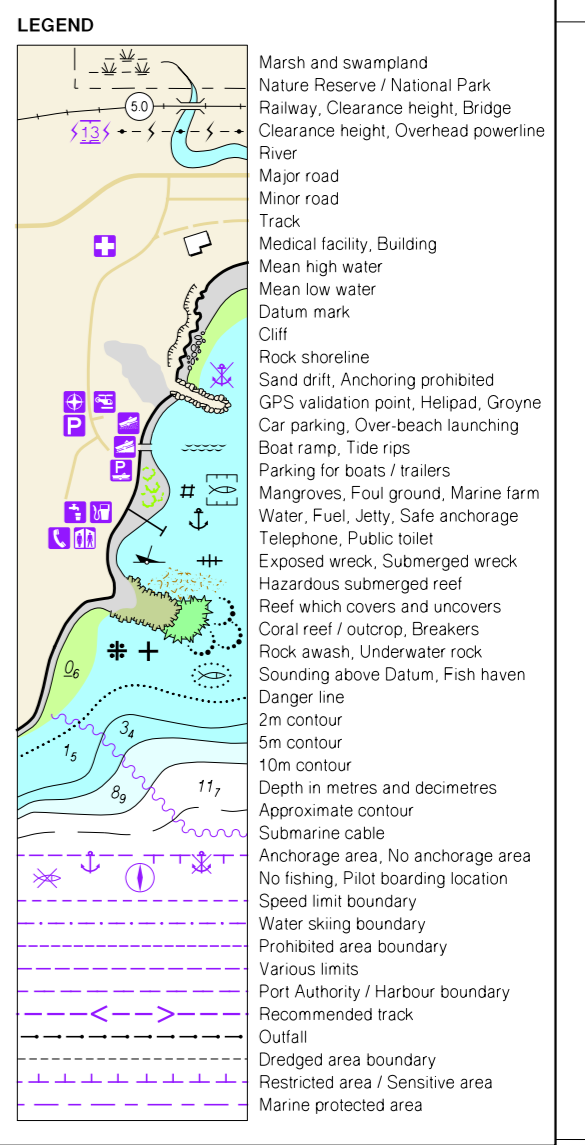


KEY TO SYMBOLS

- 400 Distance span of main sounding lines in metres
- L Lead line depths
- E Echo sounder depths
- O Optical position fixing
- Z Electronic position fixing
- S Sounding system
- R Reconnaissance or incomplete survey

Authorities

- A Department for Planning and Infrastructure
- B Royal Australian Navy
- C AUSLIG
- D Other



AUSTRALIA - SOUTH COAST
WESTERN AUSTRALIA
HOPETOUN
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 referenced to the Map Grid of Australia, Zone 51, based on the Geocentric Datum of Australia 1994 (GDA94). For GPS use, this approximates WGS84.

PROJECTION
Universal Transverse Mercator.

SOURCES
From the latest information available to Department of Transport (DoT), including DoT surveys of 1986 and 2000.

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

CHART AMENDMENTS
The information provided on this chart is correct at time of publication. As this information is subject to change, ensure the latest version of the chart is used at all times and is kept up-to-date with reference to the following:

Notices to Mariners
Changes of a safety or navigational nature will be reflected in Notices to Mariners. Current Notices are available from the DoT website at: <http://www.transport.wa.gov.au>

Navigable Waters Regulations
Changes to Navigable Waters Regulations are published in the Western Australian Government Gazette. Regulations for Navigable Waters can also be found at: <http://www.transport.wa.gov.au>

Marine Protected Areas
Refer to Department of Primary Industries and Regional Development (DPIRD) and Department of Biodiversity, Conservation and Attractions (DBCA) publications for the latest information.

TIDAL INFORMATION AND SOUNDING DATUM

Place	Lat	Long	Heights in metres above datum	Sounding and Total Datum
	S	E	MSL (mean low water)	MLLW (LAT)
HOPETOUN	33°57'	120°07'	1.50 1.21 0.88 0.84 0.73 0.54 0.11	4.50m below PWD (M) MSB

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.

SPEED (Knots)

DISTANCE (Nautical Miles)

TIME INTERVAL (Minutes)