DEPTHS IN METRES

See Transport Chart Dongara to Port Denison WA 963

CAUTION
During moderate swell seas may break over depths of about 6m.

CAUTION
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I N D I A N

O C E A N

Irwin Reef

Jack Reef

White Tops

Long Reef

White Point Reef

Leander Reef

WHITE POINT

MAGNETIC
Variation 2°10'W 1999 (1'E)

NAVIGATION MARKS

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

CARDINAL MARKS

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

LIGHT CHARACTERISTICS

Colour of light is white unless otherwise stated

F = Fixed
Fl = Flashing
Fl(-) = Group-flash
Q = Quick-flash
LFl = Long-flash
Oc = Occulting
Iso = Isophase

indicates lit navigation mark

G = Green
R = Red
Y = Yellow
Bu = Blue

s = Period in seconds
m = Focal plane height above MHHW
M = Luminous range in nautical miles

AUSTRALIA - WEST COAST

WESTERN AUSTRALIA

WHITE POINT

SCALE 1 : 25 000

DEPTHS
Depths are shown in metres and decimetres, reduced to Sounding Datum, which is approximately Lowest Low Water.

HEIGHTS
Heights are shown in metres. Underlined figures are drying heights above Sounding Datum. All other heights are above Mean Higher High Water.

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

PROJECTION
Transverse Mercator.

SOURCES
From the latest information available to Transport, including Royal Australian Navy surveys of 1979 and Transport surveys of 1991.

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

NOTE TO CHART USERS
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.

TIDAL INFORMATION AND SOUNDING DATUM

Place	Lat °S	Long °E	Heights in metres above datum HAT	MHHW	MLHW	MSL	MHLW	MLLW	LAT	Sounding and Tidal Datum
White Point	29°22'	114°53'	1.34	0.99	0.79	0.76	0.68	0.54	0.18	4.89m below PWD BM A099

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) 1.0 1.5 2 3 4 5 6 7 8 9 10 15 20 30

DISTANCE (Nautical Miles) 0.1 0.2 0.4 0.6 1.0 2 4 6 8 10 15 20 30 40 50

TIME INTERVAL (Minutes) 6 10 15 20 30 40 50 60 90 120 180

Example

GDA The location of points on this chart are referenced to the Geocentric Datum of Australia 1994 (GDA94) and will differ by approx 200m to the same points shown on charts referenced to the Australian Geodetic Datum 1984 (AGD84). All heights remain the same.
For further information, contact Department of Land Administration on (08) 9273 7111.

LEGEND

- Marshes and swampland
- Nature Reserve / National Park
- Railway
- Major road, Bridge
- Hospital or medical facility, Building
- Minor road
- Post Office, Caravan Park
- Track
- High water mark
- Low water mark
- Datum mark
- Cliff
- Rock shoreline
- Sand drift, Anchoring prohibited
- Picnic site, Groyne
- Car Parking
- Boat ramp
- Parking for boats/trailers
- Marine farm
- Water, Fuel, Jetty, Safe anchorage
- Telephone, Public Toilet
- Exposed wreck, Submerged wreck
- Hazardous submerged reef
- Reef which covers and uncovers
- Breakers
- Rock awash, Underwater rock
- 2m contour
- Danger line
- 5m contour
- 10m contour
- Depth in metres and decimetres
- Submarine cable
- Anchorage area
- No Fishing, Pilot boarding location
- Speed limit boundary
- Water skiing boundary
- Prohibited Area boundary
- Various limits
- Port Authority / Harbour boundary
- Recommended route
- Outfall line
- Dredged area boundary
- Restricted area
- Marine Park boundary

NATIONAL PARKS AND NATURE RESERVES
National Parks are reserved for conservation of flora, fauna, rocks and landscape. Firearms, pets, ground fires and driving off 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.

LEEUWIN CURRENT
The Leeuwin Current is most predominant during May - August with a surface current generally less than 1.0kn.
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 wilful 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.

RELIABILITY DIAGRAM

250 EZB, 180 EZA, 90 EZA, 200 EZA, 200 EZA, 100 EZA, 100 EZA, 100 EZA, 200 EZA, 250 EZB

29° 18' 12" S — 114° 36' 36" E — 114° 47' 18" E — 29° 25' 36" S

KEY TO SYMBOLS

400 Distance apart of main sounding lines in metres
L Lead Line depths
E Echo Sounder depths
O Optical position fixing
Z Electronic position fixing
S Sonar swept
R Reconnaissance or incomplete survey

Authorities

A Transport
B Royal Australian Navy
C AUSLIG
D Other

For additional symbols and abbreviations, refer to Admiralty Chart 5011.
For surveys beyond this Chart, see R.A.N. Chart AUS 752.
Notices to Mariners.

TRANSPORT

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June 1999, Edition 1.

DEPTHS IN METRES