



AUSTRALIA - WEST COAST
WESTERN AUSTRALIA
SWAN AND CANNING RIVERS
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 50, based on the Geocentric Datum of Australia 1994 (GDA94). For GPS use, this approximates WGS84.

PROJECTION
Universal Transverse Mercator

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

BOATING GUIDES
For additional information on waterway use refer to the Swan Canning Riverpark Boating Guide published by Department of Transport Marine Safety.

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 DOT chart sales offices, approved chart agents and at <http://www.transport.wa.gov.au/marine/about-notices-to-mariners.asp>

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.slp.wa.gov.au/gov/gazette/gazette.html>

Marine Protected Areas
Refer to Department of Fisheries and Department of Parks and Wildlife publications for the latest information.

TIDAL INFORMATION AND SOUNDING DATUM

Place	Latitude °S	Longitude °E	HAT	MHHW	MSL	MHW	MLLW	LAT
FREMANTLE	32°04'	115°45'	1.36	1.10	1.00	0.76	0.53	0.42 0.21
BARRACK STREET	31°58'	115°51'	1.29	1.03	0.96	0.74	0.52	0.46 0.30

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)
1.0	1.0	60
2.0	2.0	60
3.0	3.0	60
4.0	4.0	60
5.0	5.0	60
6.0	6.0	60
7.0	7.0	60
8.0	8.0	60
9.0	9.0	60
10.0	10.0	60
11.0	11.0	60
12.0	12.0	60
13.0	13.0	60
14.0	14.0	60
15.0	15.0	60
16.0	16.0	60
17.0	17.0	60
18.0	18.0	60
19.0	19.0	60
20.0	20.0	60

OVERHEAD POWERLINE AND BRIDGE CLEARANCE INFORMATION
Clearance heights shown on this chart are in metres, above Highest Astronomical Tide (HAT). HAT is the highest level of water which can be predicted to occur under any combination of astronomical conditions.

Under certain meteorological conditions, water levels may rise above predicted levels, and in extreme cases above HAT. Vertical clearance will vary at any time depending on actual water level.

Vessels with a height greater than the calculated vertical clearance must maintain a minimum horizontal distance of 50m to powerlines.

CAUTION: Vessel height must include all attachments

Soundings shown on this chart are in metres, below sounding datum. Water depth will vary at any time depending on height of tide, as affected by astronomical and meteorological conditions.

For predicted TIDE information, refer to Tide Tables, the daily newspaper or the internet at: <http://www.transport.wa.gov.au/marine/coastal-data-and-charts.asp>

BASIC RULES OF THE WATERWAYS

POWER MEETS POWER

- When two power boats are approaching head on, or nearly head on, each must alter course to starboard and pass on each other's port side.
- When a vessel is crossing your bow from port to starboard, that vessel has right of way and you should keep clear. Stop or reduce speed and pass under his stern. (Give way to the vessel on your right.)
- When overtaking another vessel, the vessel being passed has right of way and you must always keep clear of that vessel.
- When a vessel is crossing your bow from port to starboard, that vessel has right of way. If the other vessel does not give way, you should take all action to avoid a collision.
- When in a narrow channel keep to starboard.
- It is an offence for any vessel to be moored or anchored in any channel or fairway, unless that vessel is in distress. Large and deep draughted vessels have restricted manoeuvrability. Small craft must keep well clear of these vessels at all times and must not tamper the larger vessels' progress.

SAIL MEETS SAIL

"A" HAS WIND ON STARBOARD SIDE
"B" GIVES WAY TO "A"
("B" IS UPWIND OF "A")

POWER MEETS SAIL
Generally power gives way to sail unless the sailing vessel is overtaking.

However, Sailing craft may not demand that deep draught vessels, such as ferries and vessels over 20 metres, leave a marked channel to avoid them.

Zone of Confidence (ZOC) Diagram

ZOC CATEGORIES (For details see Australian Seafarers Handbook AHP 20)

ZOC	Position Accuracy	Depth (d) Accuracy	Seafloor Coverage
A1	±5m	±0.50m ±1%sd	All significant seafloor features detected.
A2	±20m	±1.00m ±2%sd	All significant seafloor features detected.
B	±50m	±1.00m ±2%sd	Uncharted features hazardous to surface navigation are not expected but may exist.
C	±150m	±2.00m ±5%sd	Depth anomalies may be expected.
D	Worse than ZOC C		Large depth anomalies may be expected.
U	Unassessed		The quality of the bathymetric data has yet to be assessed.

WESTERN AUSTRALIAN POWERED WATER SPORTS AREA
This area is reserved for the use of motorised aquatic engines approved by the Department of Transport. The area is closed at all times to all vessels (including paddle craft) unless approved by the Department of Transport.

HEINZ STREET JETTY
Permit deposit for Barrack Street. See Berthing at Public Jetty note.

SOUTH PERTH COMMERCIAL WATER SKI AREA
This area is set aside for use by Department of Transport approved commercial water ski operators only.

BARRACK STREET JETTES
Permit deposit for Barrack Street. See Berthing at Public Jetty note.

POINT BELGHEM Water Ski Area
Permit deposit for Point Belghem. See Berthing at Public Jetty note.

GOVERNOR KENNEDY'S FOUNTAIN
Built in 1881 this small stone structure encloses a permanent spring which provides Perth with its first public water supply.

