

AUSTRALIA - WEST COAST  
WESTERN AUSTRALIA  
PEEL INLET  
SCALE 1 : 25 000

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

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 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 Transverse Mercator.

SOURCES From the latest information available to Department of Transport, 2006.

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:

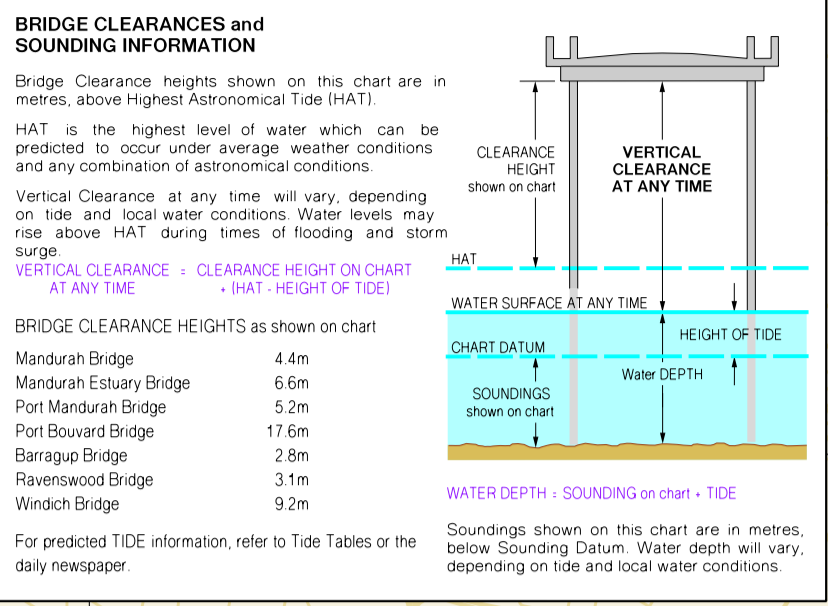
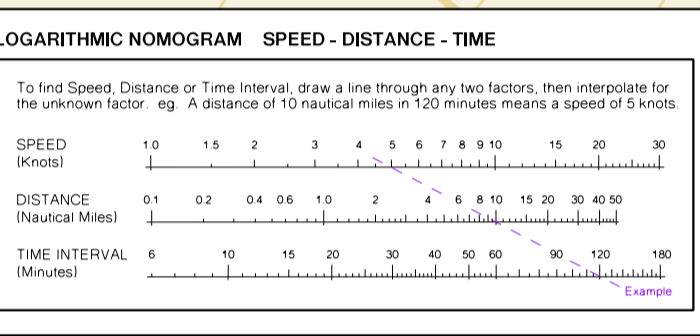
NOTICES TO MARINERS Changes of a safety or navigational nature will be reflected in Notices to Mariners. Current Notices are available from the DoT website at [www.marine.gov.au](http://www.marine.gov.au).

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 [www.marine.gov.au](http://www.marine.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	Height in metres above datum	Height in metres below datum	Height in metres below datum	Height in metres below datum	Height in metres below datum	Height in metres below datum	Height in metres below datum
Mandurah	32°32' 115°43'	1.26	0.91	0.79	0.71	0.70	0.62	0.35	2.06m below TSDM 1971
Peel Inlet	32°38' 115°43'	0.93	0.72	0.56	0.56	0.48	0.43	0.31	2.15m below BM 4896
Dawesville	32°38' 115°38'	1.24	0.81	0.62	0.62	0.52	0.42	0.17	3.49m below BM 4241 103



CAUTION - Shallow Water Waters in this area are extremely shallow and can dry at low tide. To avoid running aground, mariners wishing to access the Mandurah Estuary are advised to use the southern entrance or the Channel only.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

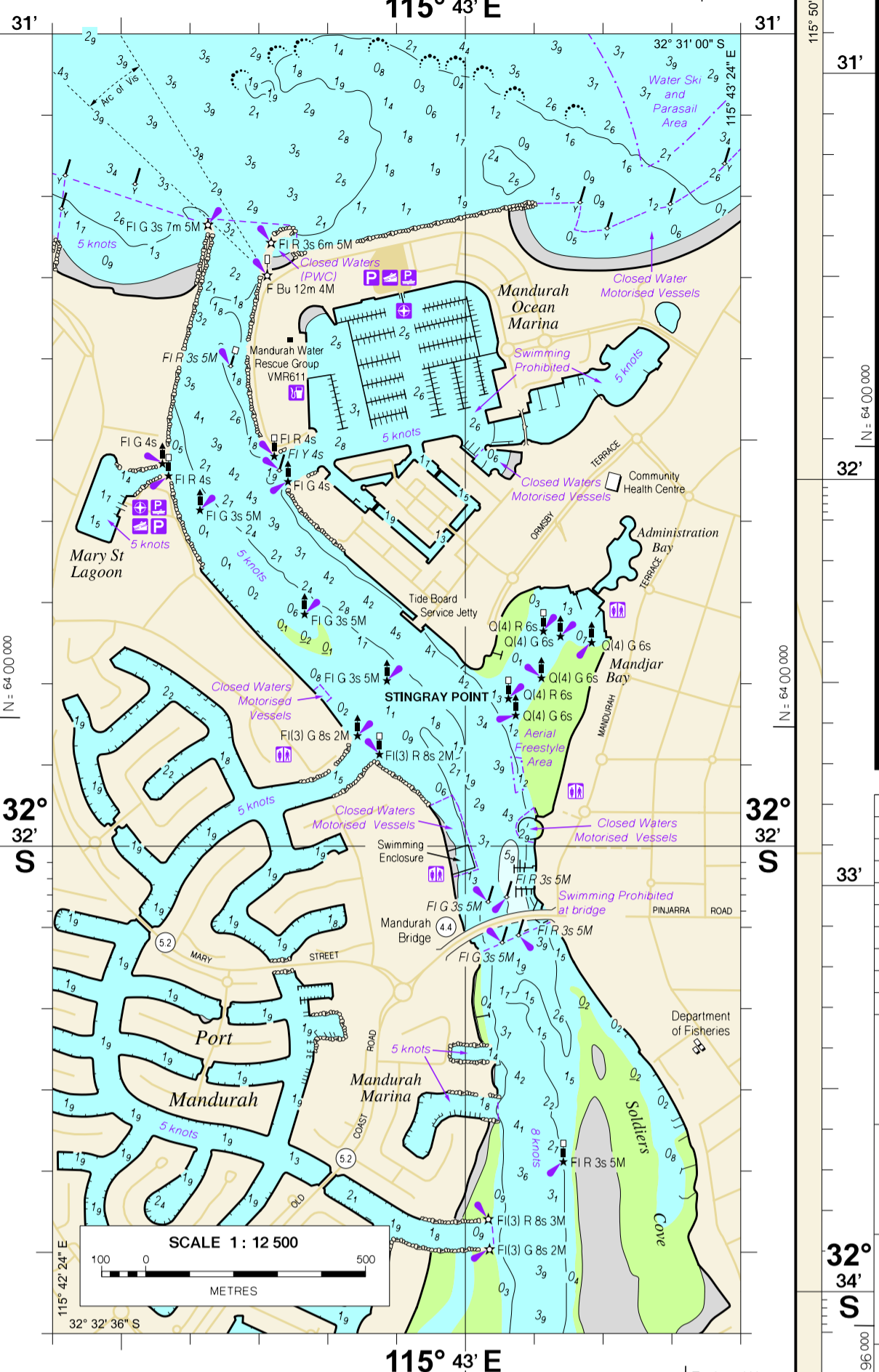
CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.

CAUTION - Hazardous Entrance During large range tides a current of 2 to 3 knots may be experienced in the Dawesville Channel. Moderate to heavy sea conditions may make navigation of the ocean entrance hazardous.



SCALE 1 : 12 500

LEGEND

- Marine and seaplane
- 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
- Cell
- Rock shoreline
- Sand drift, Anchoring prohibited
- GPS violation point, Helipad, Groyne
- Car parking, Over-beach launching
- Boat ramp, Tide reef
- Parking for boats / trailers
- Mangroves, Four ground, Marine farm
- Telephone, Public toilet
- Exposed wreck, Submerged wreck
- Beet which covers and uncovers
- Hazardous submerged reef
- Coral reef / outcrop, Breakers
- Rock awash, Underwater rock
- Sounding above Datum, Fish haven
- Danger line
- 2m contour
- 5m contour
- 10m contour
- Depth in metres and decimetres
- Appropriate contour
- Submarine cable
- No anchorage area
- No fishing, Prohibited mooring
- Speed limit boundary
- Water sking boundary
- Prohibited area boundary
- Various limits
- Port Authority / Harbour boundary
- Recreational rock
- Outfall
- Dredged area boundary
- Restricted area / Sensitive area
- Marine protected area

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, drying of 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 Vols.

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 tows 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, 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 Marine Museum for further information.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

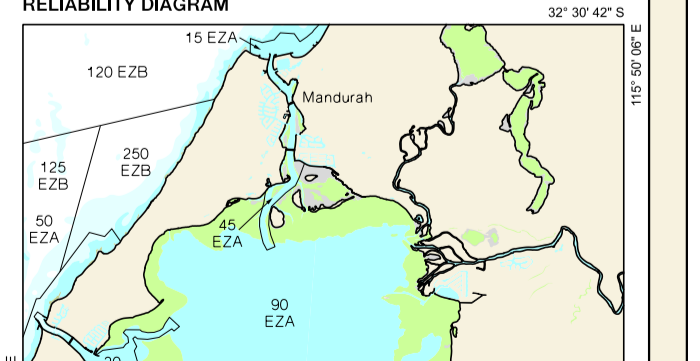
CAUTION Overhead powerlines exist at various locations over waterways on this chart.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

CAUTION Overhead powerlines exist at various locations over waterways on this chart.

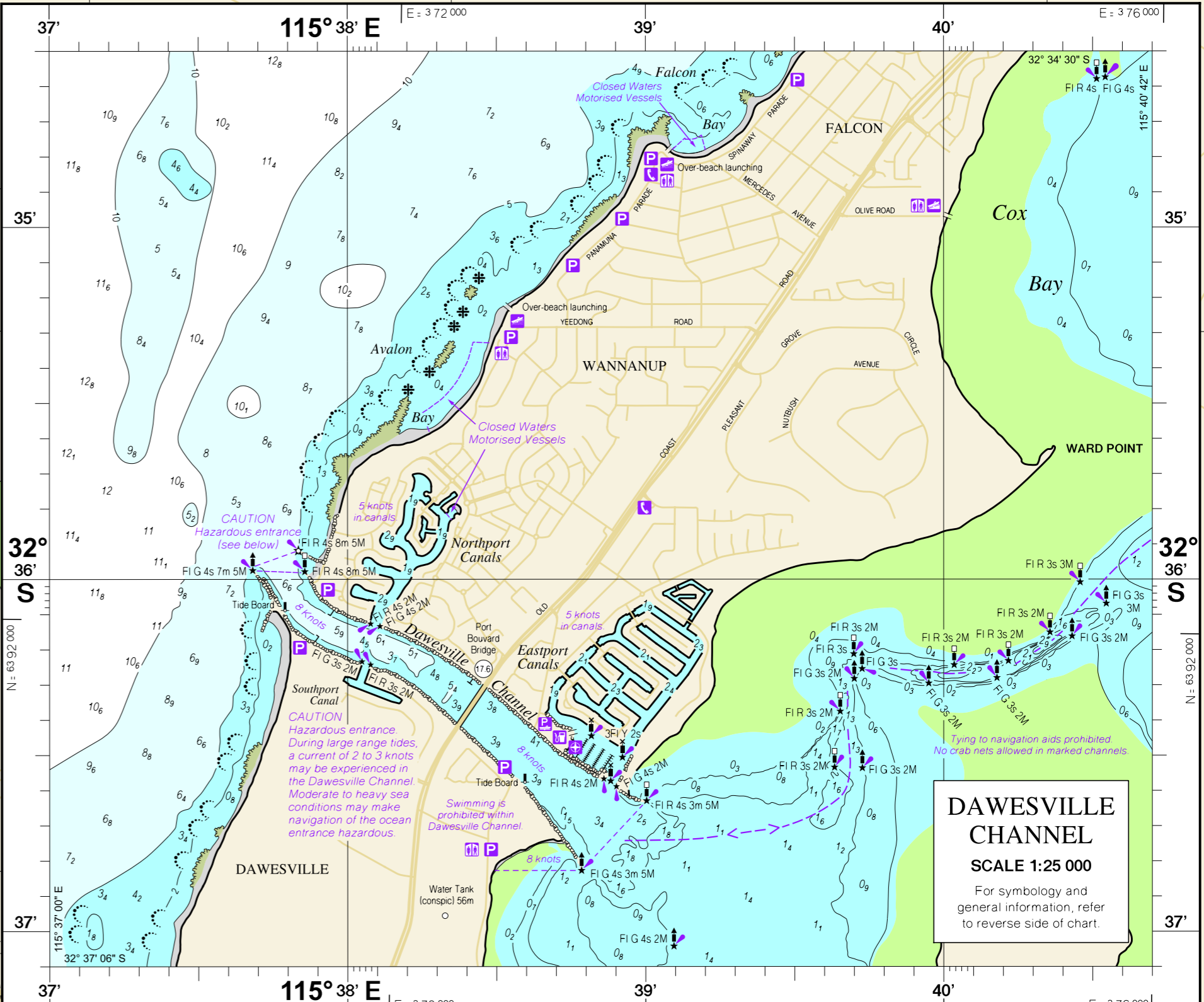
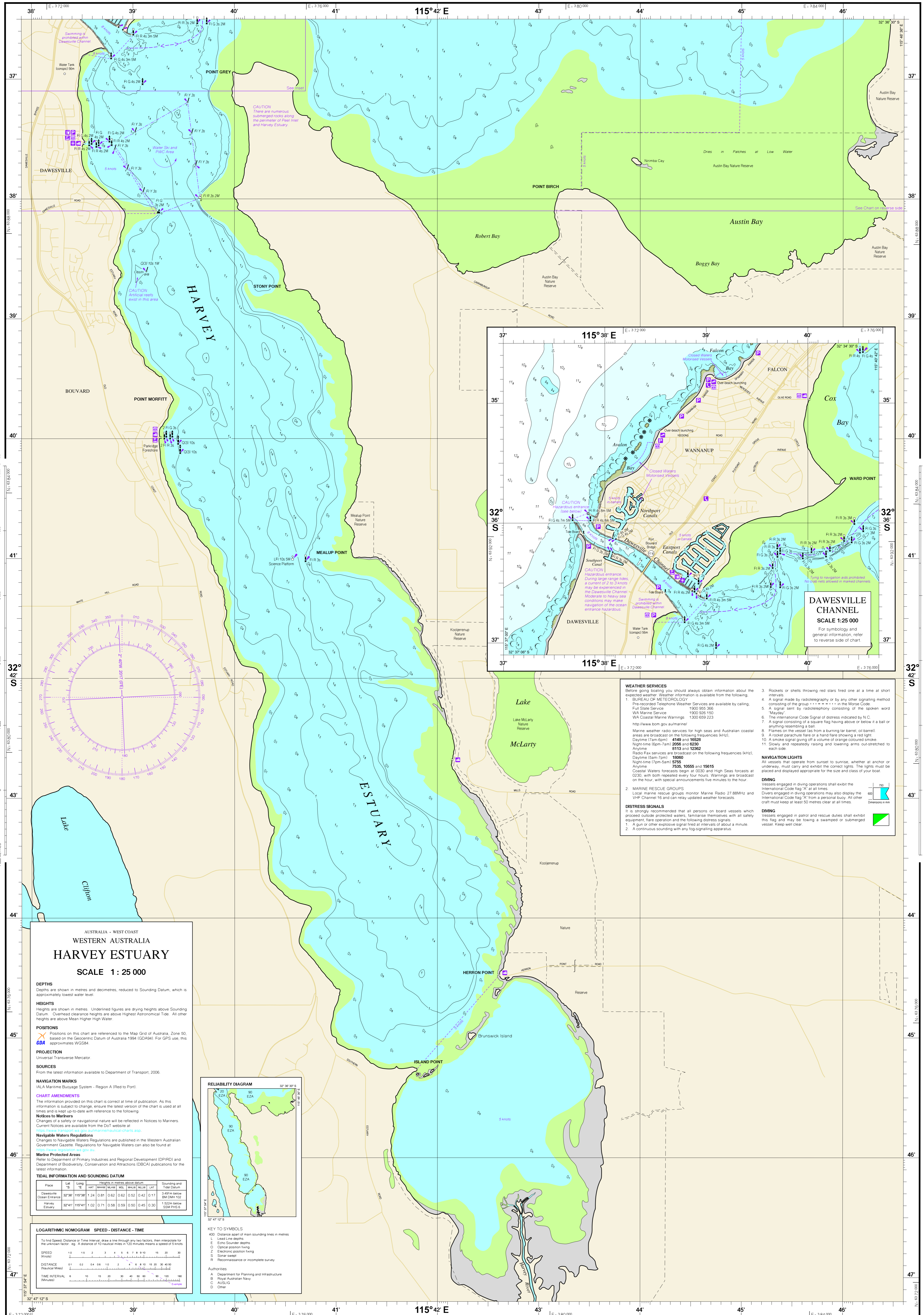
SPEED CONVERSION TABLE

Nautical Miles Per Hour (knots)	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

- A - Authorities
- 0 - Distance apart of main sounding lines in metres
- 1 - Lighthouse, major, minor light
- 2 - Beacon, port, starboard
- 3 - Safe water, isolated danger
- 4 - Spar buoy, port, starboard
- 5 - Pillar buoy, port, starboard
- 6 - Mooring buoy, yachting buoy
- 7 - Lead, front, rear
- 8 - Special Marks (yellow cross topmark) are not primarily to assist in navigation, but indicate special features.
- 9 - Cardinal Marks
- 10 - Indicates safe water to the North
- 11 - Indicates safe water to the South
- 12 - Indicates safe water to the East
- 13 - Indicates safe water to the West
- 14 - Indicates appropriate contour
- 15 - Submarine cable
- 16 - No anchorage area
- 17 - No fishing, Prohibited mooring
- 18 - Speed limit boundary
- 19 - Water sking boundary
- 20 - Prohibited area boundary
- 21 - Various limits
- 22 - Port Authority / Harbour boundary
- 23 - Recreational rock
- 24 - Outfall
- 25 - Dredged area boundary
- 26 - Restricted area / Sensitive area
- 27 - Marine protected area



**WEATHER SERVICES**  
 Before going boating you should always obtain information about the expected weather. Weather information is available from the following:  
 1. BUREAU OF METEOROLOGY  
 Pre-recorded Telephone Weather Services are available by calling:  
 Full State Service 1900 955 366  
 WA Marine Service 1900 926 150  
 WA Coastal Marine Warnings 1900 690 223  
<http://www.bom.gov.au/mariner/>  
 Marine weather radio services for high seas and Australian coastal areas are broadcast on the following frequencies (kHz):  
 Daytime (7am-6pm) **4140** and **16520**  
 Night-time (6pm-7am) **2056** and **6230**  
 Anytime **8113** and **12362**  
 Radio Fax services are broadcast on the following frequencies (kHz):  
 Daytime (5am-7pm) **15900**  
 Night-time (7pm-Sun) **5755**  
 Anytime **7535**, **10555** and **15615**  
 Coastal Waters forecasts begin at 0230 and High Seas forecasts at 0230, with both repeated every four hours. Warnings are broadcast on the hour, with special announcements five minutes to the hour.

**MARINE RESCUE GROUPS**  
 Local marine rescue groups monitor Marine Radio 27.88MHz and VHF Channel 16 and can relay updated weather forecasts.

**DISTRESS SIGNALS**  
 It is strongly recommended that all persons on board vessels which proceed outside protected waters, familiarise themselves with all safety equipment, flare operation and the following distress signals:  
 1. A gun or other explosive signal fired at intervals of about a minute.  
 2. A continuous sounding with any fog-signalling apparatus.

3. Rockets or shells throwing red stars fired one at a time at short intervals.  
 4. A signal made by radiotelephony or by any other signalling method consisting of the group +---+---+ in the Morse Code.  
 5. A signal sent by radiotelephony consisting of the spoken word "Mayday".  
 6. The International Code Signal of distress indicated by N.C.  
 7. A signal consisting of a square flag having above or below it a ball or anything resembling a ball.  
 8. Flames on the vessel (as from a burning tar barrel, oil barrel).  
 9. A rocket parachute flare or a hand flare showing a red light.  
 10. A smoke signal giving off a volume of orange coloured smoke.  
 11. Slowly and repeatedly raising and lowering arms out-stretched to each side.

**NAVIGATION LIGHTS**  
 All vessels that operate from sunset to sunrise, whether at anchor or underway, must carry and exhibit the correct lights. The lights must be placed and displayed appropriate for the size and class of your boat.

**DIVING**  
 Vessels engaged in diving operations shall exhibit the International Code flag "A" at all times.  
 Divers engaged in diving operations may also display the International Code flag "A" from a personal buoy. All other craft must keep at least 50 metres clear at all times.

**DIVING**  
 Vessels engaged in patrol and rescue duties shall exhibit this flag and may be towing a swamped or submerged vessel. Keep well clear.

AUSTRALIA - WEST COAST  
 WESTERN AUSTRALIA  
**HARVEY ESTUARY**  
 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.

**SOURCES**  
 From the latest information available to Department of Transport, 2006.

**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/marine/naulical-charts.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.water.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 Tide Datum		
			Low	Mean	High	Mean High Water			
Dawesville	32°36'	115°38'	1.24	0.61	0.62	0.50	0.42	0.17	3.491m below BM (MHW 102)
Harvey Estuary	32°41'	115°41'	1.02	0.71	0.58	0.50	0.45	0.30	1.520m below SSM PHS 6

**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.

**KEY TO SYMBOLS**  
 400 Distance apart of main sounding lines in metres  
 Least one decimetre  
 E Echo Sounding depths  
 O Optical position fixing  
 Z Electronic position fixing  
 S Solar sweep  
 R Reconnaissance or incomplete survey

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

