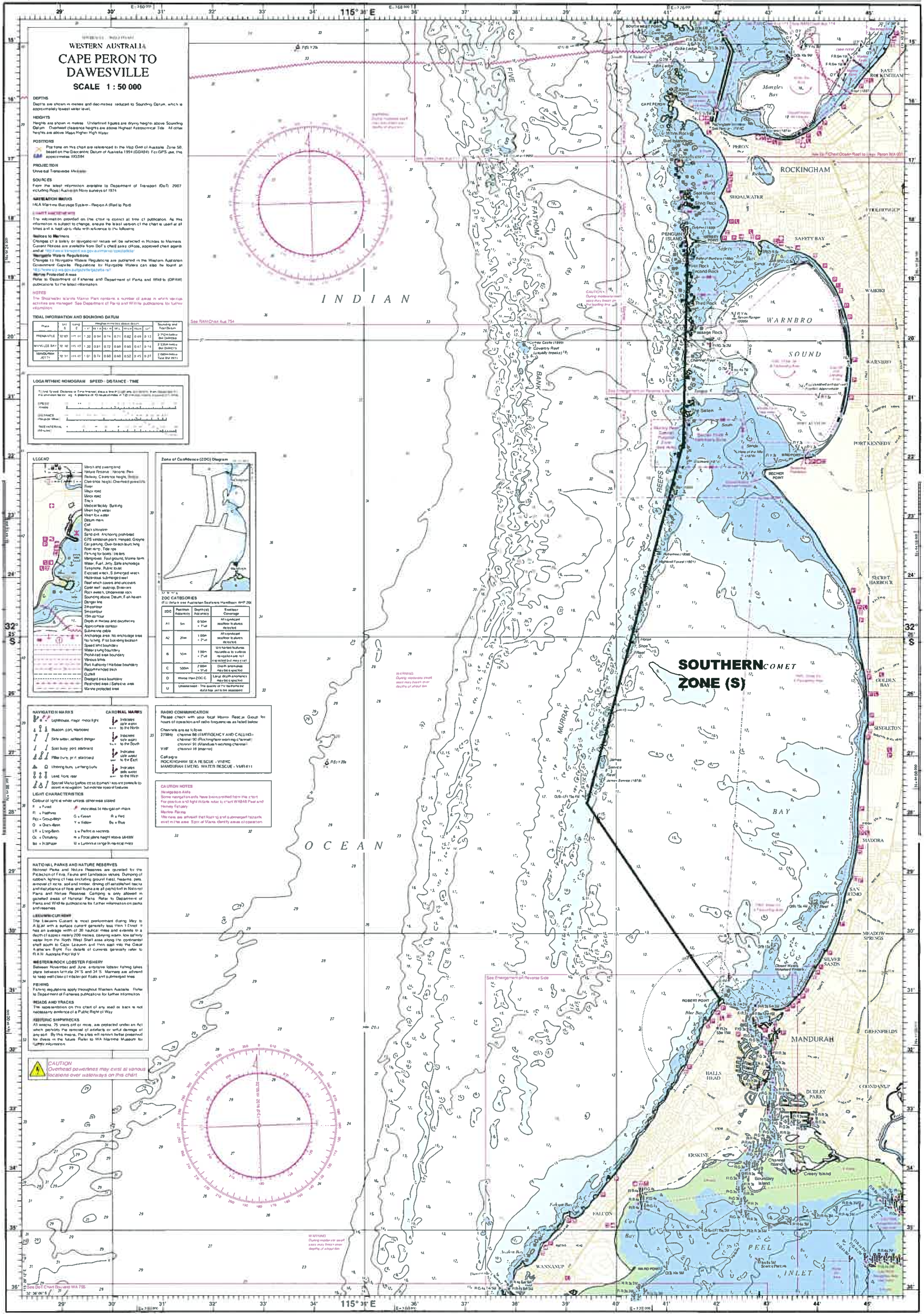
SEE RELATED PUBLICATIONS: Notice to Mariners (http://www.transport.wa.gov.au/imarine/coastaldata/). Symbols, Abbreviations and Terms (INT 1). Tide Tables. Sailing Directions. For surveys beyond the chart refer to RAN Charts AUS 754 and AUS 755



WESTERN AUSTRALIA

CAPE PERON TO DAWESVILLE

SCALE 1 : 50 000

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 (DoT) 2007 including Royal Australian Navy surveys of 1974

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

CHART CORRECTIONS
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's chart sales offices, approved chart agents and at http://www.transport.wa.gov.au/imarine/coastaldata/

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/gazette/gazette.nsf

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

NOTES
The Shoalwater Islands Marine Park contains a number of areas in which various activities are managed. See Department of Parks and Wildlife publications for further information.

TIDAL INFORMATION AND SOUNDING DATUM

Place	Lat S	Long E	HAT	MHHW	MLHW	MSL	MHLW	MLLW	LAT	Sounding and Tidal Datum
FREMANTLE	32 03	115 44	1.32	0.94	0.74	0.71	0.62	0.49	0.13	2.752m below BM [illegible]
MANGLES BAY	32 16	115 43	1.32	0.81	0.72	0.60	0.60	0.47	0.14	2.535m below BM [illegible]
MANDURAH JETTY	32 31	115 43	1.01	0.74	0.60	0.60	0.52	0.45	0.27	2.080m below Tidal BM 1971

LOGARITHMIC NOMOGRAM SPEED - DISTANCE - TIME

SPEED (Knots)
DISTANCE (Nautical Miles)
TIME INTERVAL (Minutes)

LEGEND

Marsh and swampland
Nature Reserve, National Park
Railway, Clearance height, Bridge
Clearance height, Overhead powerlines
River
Major road
Minor road
Track
Medical facility, Building
Mean high water
Mean low water
Datum mark
Cliff
Rock stream
Sand drift, Anchoring prohibited
GPS validation point, Hemped, Groyne
Car parking, Oven/beach launching
Boat ramp, Toilets
Parking for boats/trailers
Mangroves, Foul ground, Marine farm
Water, Fuel, Jetty, Safe anchorage
Telephone, Public toilet
Exposed wreck, Submerged wreck
Hazardous submerged wreck
Reef which covers and uncovers
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
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 / Safe/line area
Marine protected area

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%d	All significant seafloor features detected
A2	20m	1.00m + 2%d	All significant seafloor features detected
B	50m	1.00m + 2%d	Uncharted features hazardous to surface navigation are not expected but may exist
C	500m	2.00m + 5%d	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		

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
Special Marks (yellow cross topmark) are not primarily to assist in navigation, but indicate special features

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(…) = 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

RADIO COMMUNICATION
Please check with your local Marine Rescue Group for hours of operation and radio frequencies as listed below

Channels are as follows:
27MHz channel 88 (EMERGENCY AND CALLING)
channel 90 (Rockingham working channel)
channel 91 (Mandurah working channel)
VHF channel 16 (marine)

Callsigns
ROCKINGHAM SEA RESCUE - VN8KC
MANDURAH EMERG. WATER RESCUE - VMR 611

CAUTION NOTES
Navigation Aids
Some navigation aids have been omitted from the chart. For position and light details refer to chart WA848 Peel and Harvey Estuary.
Marine Farms
Mariners are advised that floating and submerged hazards exist in the area. Special Marks identify areas of operation.

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 Parks and Wildlife publications for further information on parks and reserves.

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

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 Fisheries 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.

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

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

Notices to Mariners inclusive 1.8 February 2017

Government of Western Australia
Department of Transport

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