DEPTHS IN METRES

AUSTRALIA - SOUTH COAST

WESTERN AUSTRALIA

BREMER BAY

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 1992 and Transport surveys of 1989, 1997 and 1999.

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							Sounding and Tidal Datum
			HAT	MHHW	MLHW	MSL	MHLW	MLLW	LAT	
Bremer Bay	34°25'	119°23'	1.5	1.1	0.8	0.8	0.6	0.5	0.1	4.828m below BM DMH 050.

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.

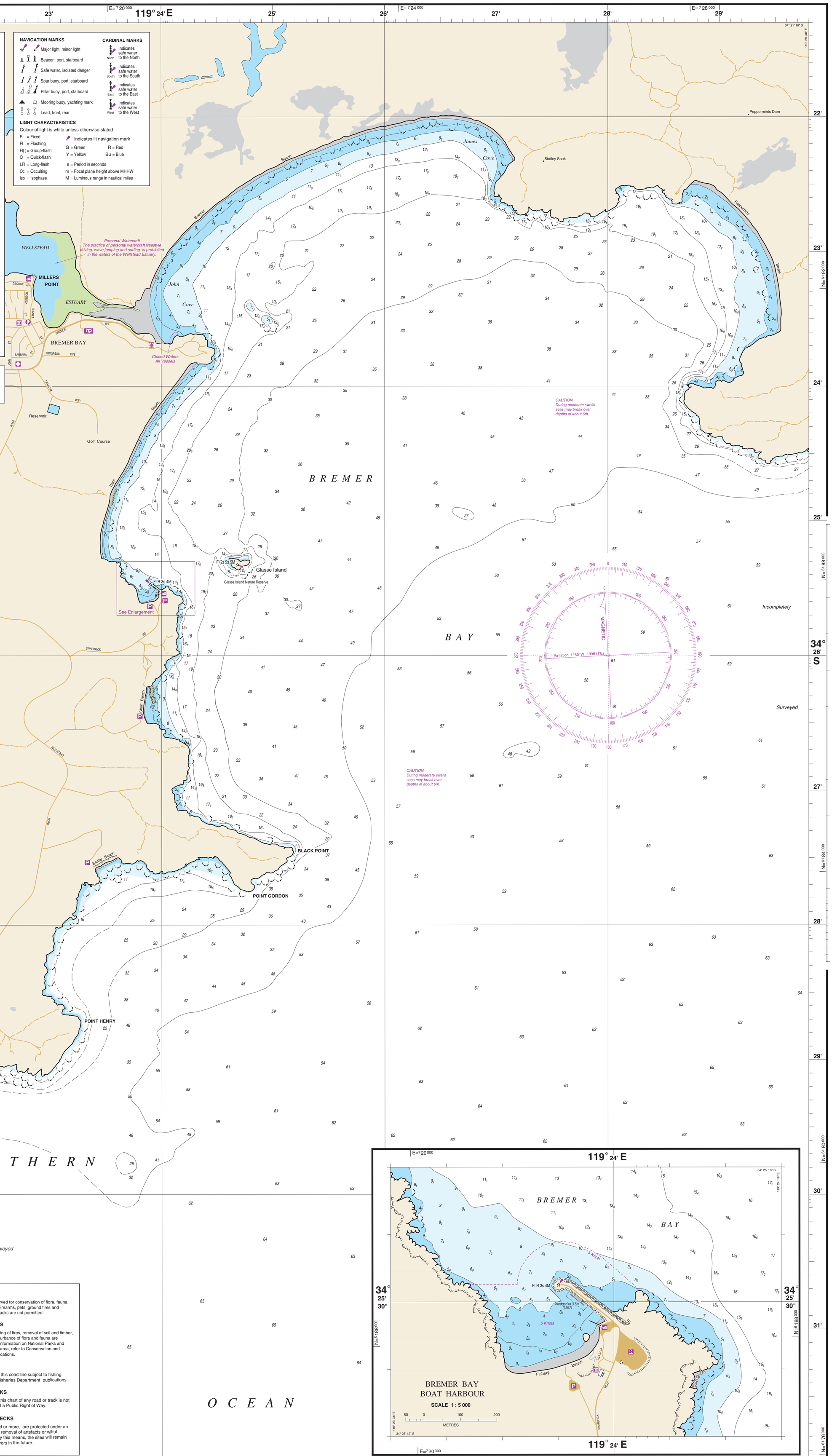
LEGEND

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

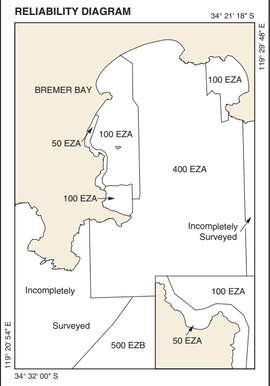
NAVIGATION MARKS
Major light, minor light
Beacon, port, starboard
Safe water, isolated danger
Spar buoy, port, starboard
Pillar buoy, port, starboard
Mooring buoy, yachting mark
Lead, front, rear

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



RELIABILITY DIAGRAM



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

NATIONAL PARKS
National Parks are reserved for conservation of flora, fauna, rocks and landscape. Firearms, pets, ground fires and driving off established tracks are not permitted.

NATURE RESERVES
Firearms, camping, lighting of fires, removal of soil and timber, dumping of rubbish, disturbance of flora and fauna are prohibited. For further information on National Parks and Nature Reserves in this area, refer to Conservation and Land Management publications.

FISHING
There are areas along this coastline subject to fishing regulations. Refer to Fisheries Department publications.

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.

For additional symbols and abbreviations, refer to Admiralty Chart 5011.
For surveys beyond this Chart, see R.A.N. Chart AUS 337.
Notices to Mariners inclusive 1-2 April 2016.

TRANSPORT

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DEPTHS IN METRES