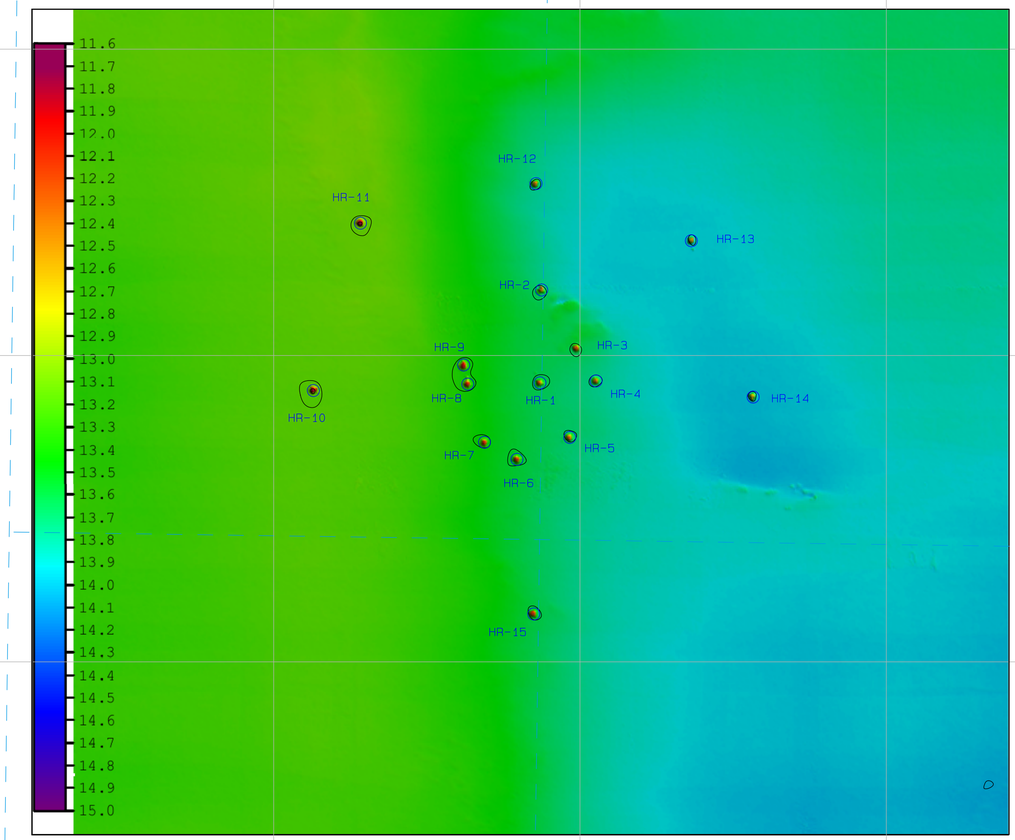
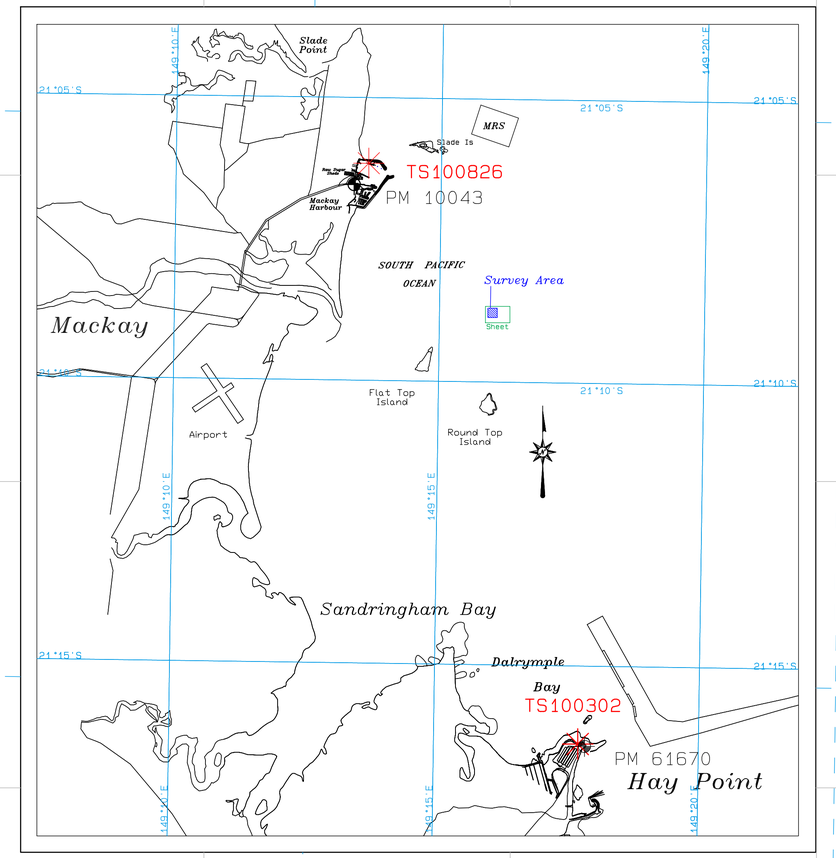


Mackay Habitat Reef (HR) Module
Site - A



Locality Diagram
Scale 1:1000,000

SOUTH PACIFIC OCEAN

As Installed Position of Habitat Reef Modules_Site-A - MGA ZONE 55 (GDA2020)						
HR Number	EASTING	NORTHING	LATITUDE	LONGITUDE	Minimum Depth (LAT)	COMMENTS
HR-01	735387	7659991	21° 08'.772 S	149° 16'.000 E	12.3	Centre Position of HR Module - MB
HR-02	735388	7660021	21° 08'.756 S	149° 16'.000 E	12.2	Centre Position of HR Module - MB
HR-03	735399	7660003	21° 08'.766 S	149° 16'.006 E	12.3	Centre Position of HR Module - MB
HR-04	735405	7659992	21° 08'.772 S	149° 16'.010 E	12.4	Centre Position of HR Module - MB
HR-05	735396	7659973	21° 08'.782 S	149° 16'.005 E	12.3	Centre Position of HR Module - MB
HR-06	735379	7659966	21° 08'.786 S	149° 15'.996 E	12.2	Centre Position of HR Module - MB
HR-07	735369	7659972	21° 08'.783 S	149° 15'.989 E	12.1	Centre Position of HR Module - MB
HR-08	735363	7659991	21° 08'.773 S	149° 15'.986 E	12.1	Centre Position of HR Module - MB
HR-09	735362	7659997	21° 08'.769 S	149° 15'.985 E	12.0	Centre Position of HR Module - MB
HR-10	735313	7659989	21° 08'.774 S	149° 15'.957 E	11.8	Centre Position of HR Module - MB
HR-11	735328	7660043	21° 08'.744 S	149° 15'.965 E	11.8	Centre Position of HR Module - MB
HR-12	735386	7660056	21° 08'.737 S	149° 15'.998 E	12.4	Centre Position of HR Module - MB
HR-13	735436	7660037	21° 08'.747 S	149° 16'.028 E	12.5	Centre Position of HR Module - MB
HR-14	735457	7659986	21° 08'.774 S	149° 16'.040 E	12.6	Centre Position of HR Module - MB
HR-15	735385	7659916	21° 08'.813 S	149° 15'.999 E	12.2	Centre Position of HR Module - MB

SURVEY CONTROL - MGA ZONE 55 (GDA2020)				
POINT	EASTING	NORTHING	LAT	COMMENT
PM 10043	730870.996	7664474.129	9.916	Hz: SCDB Hu:0.015m (QLD ANJ24.03), LAT: TGBM TS100826
PM38627	738337	7645874	18.040	Hz: SCDB Hu:250m (Pub: 18/01/2020), LAT: TGBM TS100302
PM 61670	738389.662	7645831.046	17.449	Hz: SCDB Hu:0.016m (QLD ANJ24.03), LAT: RM14 TS100302

NOTES:

1) Refer to plan G301-007 for Multibeam depth soundings.
2) Georeferenced Multibeam image (*.tif) was created in CARIS HIPS & SIPS V11.4.28 from surface MK050005_Site_A_Op5m_Cube_FINAL.csar
3) Contours are computer generated to Hydrographic Standard (inclusive).
4) Coastline digitised from aerial photography is approximate only.
5) For survey control refer to plan G301-005.

Horizontal Datum	MGA Zone 55 (GDA2020)
Base Station	HxON SmartNet GNSS Corrections - single base 'MSM_SLAD' (CRK-Slade Point)
Vertical Datum	LAT based on TGBM (PSM 10043) RL 9.916m
Tide Notes	Refer to plan G301-007
Depth Tolerance	N/A
Horizontal Tolerance	1.5m
Weather	5-10kts SE

Vessel	QG Norfolk
Echo Sounder	Kongsberg EM2040C Dual 200kHz
Heavemeter	Applanix PosMV v5 FW: v11.26 SW: v11.21
Horizontal Positioning	Applanix PosMV v5 FW: v11.26 SW: v11.21 HxON SmartNet
Data Collection/Processing	Qimera v0.6.2 / QIS 5 v5.11.12 HIPS v11.4.28/terramodel v10.61
Tidal Reference Station	TS100826 TS100302

SOUNDINGS (m): 2.5 below datum; 0.7 above datum
LEVELS (m): 0.98 above datum; 3.13 below datum

SCALE 1 : 1000 AT A1
0 50 100

CLASS N/A

CLIENT
RHM MACKAY

Signature		
Hydrographic Surveyor	Toby Reise	Digitally signed by Toby Reise Date: 2024.07.15 14:58:07 +10'00'
Surveyor	R Ghazanfari	
Checked	T Reise	

Digitally signed by Owen Cantrill
Date: 2024.07.16 08:38:42 +10'00'

Queensland Government
HYDROGRAPHIC SERVICES
Ph: (07) 3066 3500
Email: hydro@msq.qld.gov.au

MACKAY
HABITAT REEF MODULES - SITE-A
MULTIBEAM IMAGE
21 JULY 2024

© Copyright The State of Queensland 2024 (Transport and Main Roads)

Plot File. G301009P1.PDF
Job No. MK050005
Plan No. G301-009