

Australian Hydrographic Office MSDI Progress



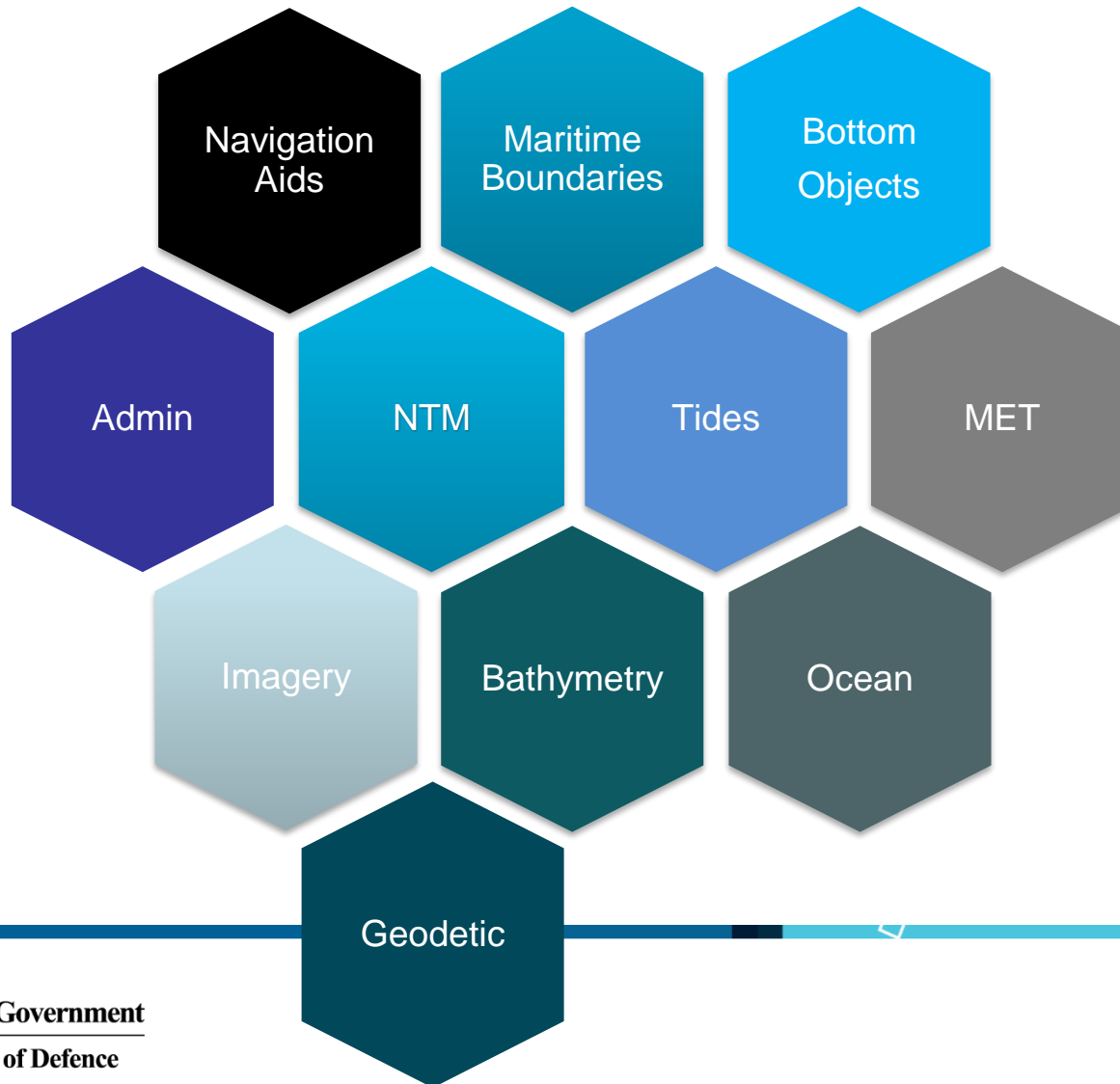
**Paul Sliogeris
and
Pip Bricher**

February 2023

Products and Services

- Paper Charts
- Electronic Charts
- Notices to Mariners
- eNotices
- Gazetteer of Australia
- Shipwrecks Database
- Hydrographic Database
- Copyright & Licensing
- Product Downloads





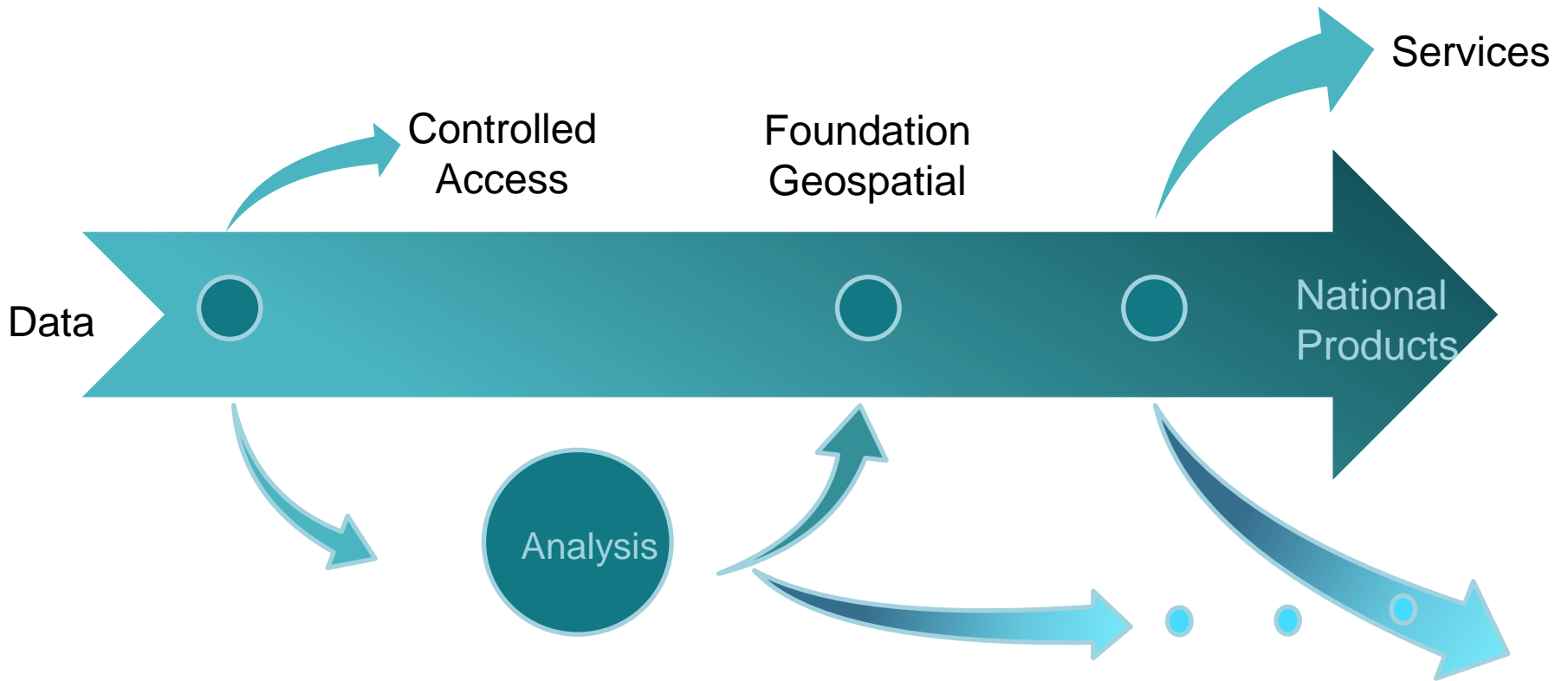
Collect
Data

Compile
Chart

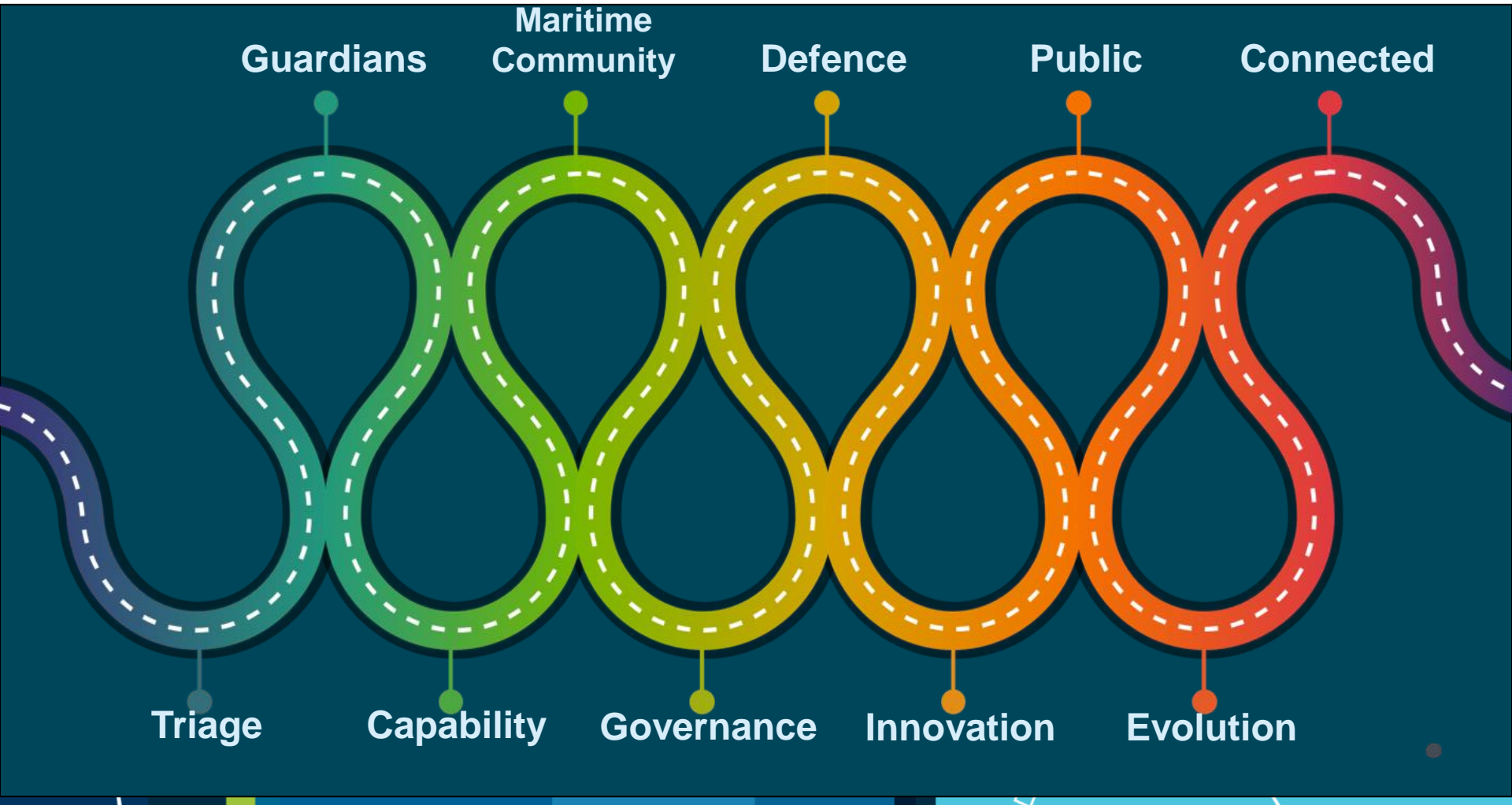
Validate
Data

Publish
Chart





Data Management Pathways



Publishing data



AusSeabed Marine Data Portal

About Desktop Launcher Layers Location Search Data & Publications

Layers

Base Layers

Map Layers

HIPP

Search

...

Banks Strait Bass Strait Bathymetry (HIPP) 2021 30m ☆

King Is North Bass Strait Bathymetry (HIPP) 2021 30m ☆

Mavis Reef (East) Bonaparte Archipelago Bathymetry (HIPP) 2020 30m ☆

About

Legend

Filter

Fit Extent

Remove

Opacity

100%

Style

ausseabed:Mavis_Reef__East__Bonaparte_Archipelago_B

The Mavis Reef bathymetry survey was acquired for the Australian Hydrographic Office (AHO) onboard the M/V Warrego during the period 08 January – 09 August 2021. This was a contracted survey conducted by Neptune Marine Services under the HydroScheme Industry Partnership Program (HIPP). The survey area is located east of Mavis Reef, at the southern extent of the Bonaparte Archipelago, offshore northwestern Australia. Bathymetry data were acquired using a R2Sonic 2024 multibeam sonar system and processed using QPS Qimera V2.0.1 and exported to GeoTIFF using CARIS HIPS and SIPS software. This dataset contains a 30m-resolution 32-bit floating point GeoTIFF file of the bathymetry in the survey area. This dataset is not to be used for navigational purposes.

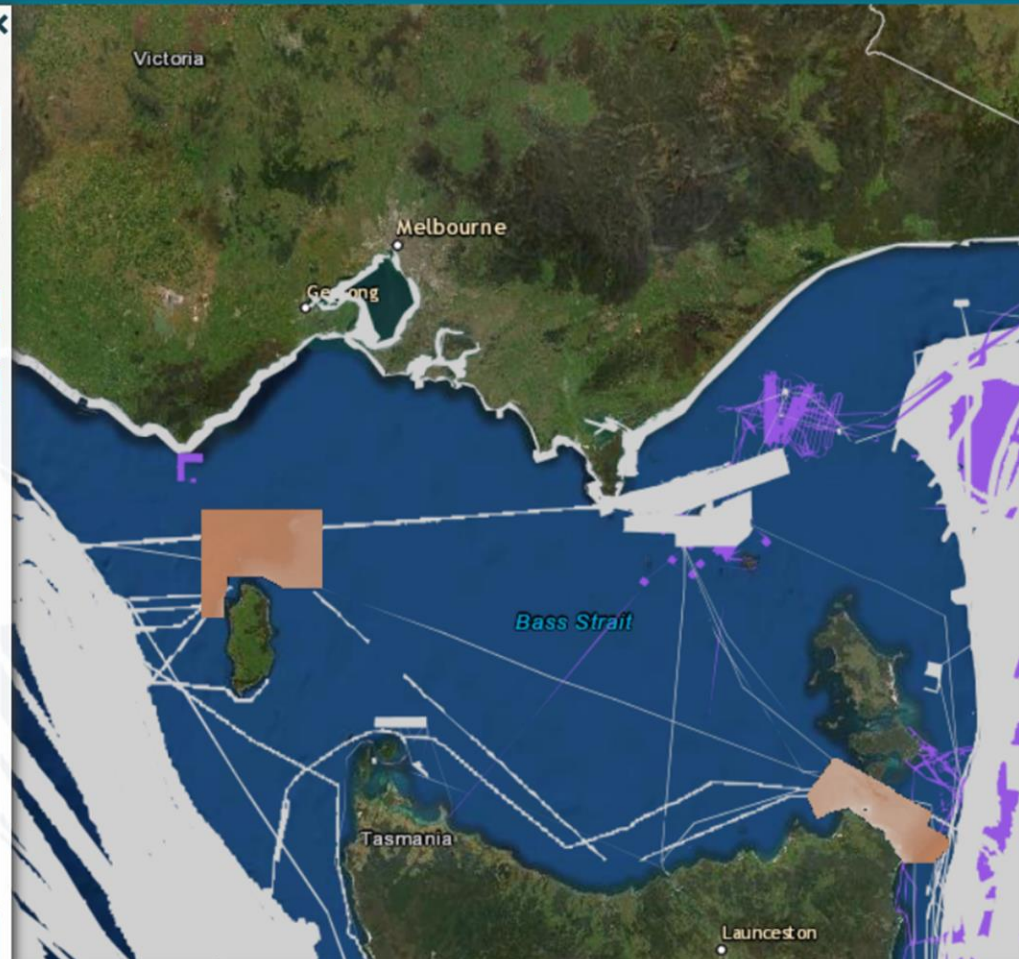
<http://pid.geoscience.gov.au/dataset/ga/147099>

Download Mavis Reef (East) Bonaparte Archipelago Bathymetry (HIPP) 2020 30m.zip

Copy WMS

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More Details



3D Layers

AusSeabed



AUS
SEABED

AusSeabed Marine Data Portal



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Tools Select Tool Map Narrator Bookmarks

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Base Layers >

Map Layers >

Search ...

AusSeabed Coordination >

Elevation and Depth >

Framework >

Geomorphology >

Geophysics >

Petroleum >

Sedimentology >

Tidal >

Water >

3D Layers >

Custom Layers >

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Australian Government
Department of Defence

<https://www.ausseabed.gov.au>

Source Data System



Maritime Data Portal

Asset 2313813

SI 1002 SIRF2020034685 Approaches to Darwin

Map showing survey tracks around Australia and New Guinea.

Asset Details:

- ID: 2313813
- Version: 11
- Name: SI 1002 SIRF2020034685 Approaches to Darwin HIPP Survey 2020 PHS-20-035-AHO (2313813)
- Description: Receipt Date: 27NOV2020 SI 1002 - PHS-20-035-AHO Malthieu Bestille-SV Limitless and PHS Zephyr-MBES survey conducted by PHS on behalf of AHO between the 26th June and 30th August 2020 MSI Priority 1 Work Assigned

Related:

- related: 2182102
- related to: 2335613

also: hmi-metadata

- start-date: 26-Jun-2020
- end-date: 26-Jun-2020
- receipt-date: 27-Nov-2020
- keyword: DEPTH
- keyword: SURVEY
- vessel: SV Limitless and PHS Zephyr
- surveyor: Malthieu Bestille
- external-reference: SI 1002 - PHS-20-035-AHO
- msi-priority: 1
- reportable: false

also: remnant-dhdb-dataset

- dataset-id: 3881507
- dataset-version: 2
- promote-date-time: 02-Mar-2021 09:27:43
- promote-id: 139082
- work-order-id: 124134
- file: SIRF2020034685 Approaches to Darwin HIPP Survey 2020 SI 1002-PHS-20-035-AHO
- assigned: Receipt Date: 27NOV2020 SI 1002 - PHS-20-035-AHO Malthieu Bestille-SV Limitless and PHS Zephyr-MBES survey conducted by PHS on behalf of AHO between the 26th June and 30th August 2020 MSI Priority 1 Work Assigned
- external-reference: SIRF2020034685
- attribute-accuracy: Not Relevant
- available-data-format-description: Digital records in various formats
- available-data-format-type: DIGITAL
- contact:
 - position: Deputy Director Marine Data Management
 - organization: Australian Hydrographic Service
 - address-line-1: Locked Bag 8801
 - address-line-2: Station Street
 - suburb: Wollongong
 - state: NSW
 - country: Australia
 - postcode: 2500
 - email: datacentre@hydro.gov.au
 - telephone: (02) 4223 6500
 - facsimile: (02) 4223 6599
- classification:
 - organization: Australian Hydrographic Service
 - dataset-state: Appraised

Asset ID	Name	External Reference	Keyword	Receipt Date	HM Start	HM End	MSI Priority	Component	SIRF Reference	SIRF Associated Re...	Contact Name	Contact I
2110311	SIRF2016002054 Alibou Point Proposed Anchors ...		SURVEY	12-Jan-2016	23-Sep-2014	07-Oct-2015	1		SIRF2016002054		Toby Reiss (Arlingth)	Maritime
2110370	SIRF2016000278 Seven Mile Creek rock survey ...		SURVEY	23-Jun-2016	20-Feb-2016	20-Feb-2016	1		SIRF2016000278		Owen Carroll	Maritime
2110380	SIRF2016000290 Success and Pinnacles Channel ...		SURVEY	23-Jun-2016	19-Mar-2013	19-Mar-2013	1		SIRF2016000290		Jay Illegworth	Fremantle
2110443	SIRF2017011283 TAMS Garden Island-HMAS St...	SH20100713	SURVEY	04-Jul-2017	10-Aug-2016	31-Aug-2016	1		SIRF2017011283		Andrew Richardson	Surrey Is...
2110771	SIRF2017011078 WA Pelagic Survey May-Jun 20...	ss2007_v04 - GA 2434	DEPTH	07-Dec-2015	10-May-2007	10-May-2007	3		SIRF2017011078		Bernadette Heaney	Commonw...
2110778	SIRF2018010768 New Caledonia Pacific Ocean ...	IFREMER_ZONECO 4 - G...	DEPTH	04-Feb-2013	09-Sep-1998	09-Sep-1998	3		SIRF2018010768		Robert Panurus	Geoscienti...
2110817	SIRF2017011085 Hobart Sea Trials Survey Oct 2...	ss2008_e01 - GA 2494	DEPTH	07-Dec-2015	08-Oct-2008	08-Oct-2008	3		SIRF2017011085		Bernadette Heaney	Commonw...
2110821	SIRF2017011087 Hobart Sea Trials Survey Mar 2...	ss2010_e01 - GA 4300	DEPTH	07-Dec-2015	14-Mar-2010	14-Mar-2010	3		SIRF2017011087		Bernadette Heaney	Commonw...
2110870	SIRF2018010818 Eastward Flows and Eddies Su...	ss2012_v04 - GA 4394	DEPTH	07-Dec-2015	11-Aug-2012	11-Aug-2012	3		SIRF2018010818		Robert Panurus	Geoscienti...
2110908	SIRF2020030324 Colmanville Strait 03 to 1019 DA	DAI SEAT 1985 - 201904...	DEPTH	31-Mar-2020	26-Mar-2019	26-Mar-2019	1		SIRF2020030324	SIRF2020030324	17002 Chris Shepherd	Geoscienti...

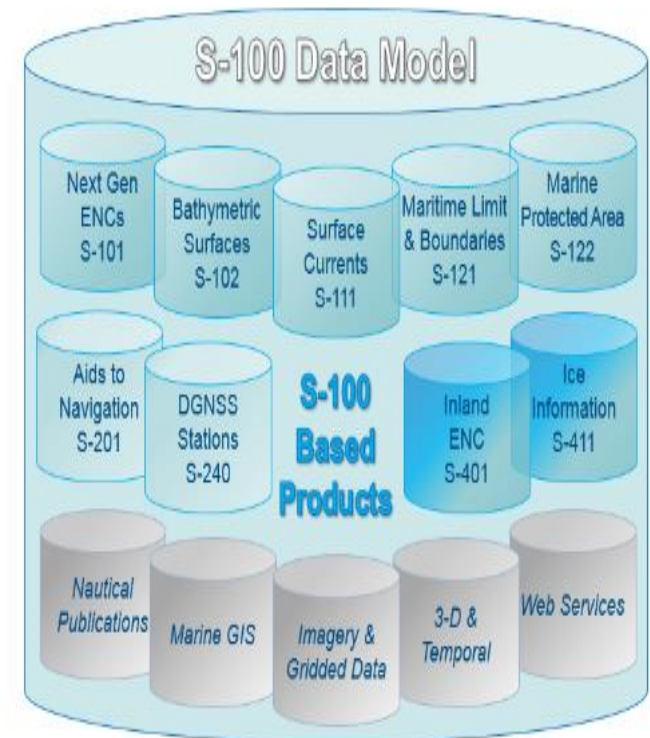


Digital Transformation

S-100 Data Model

The IHO S-100 Standard defines the new Universal Hydrographic Data Model

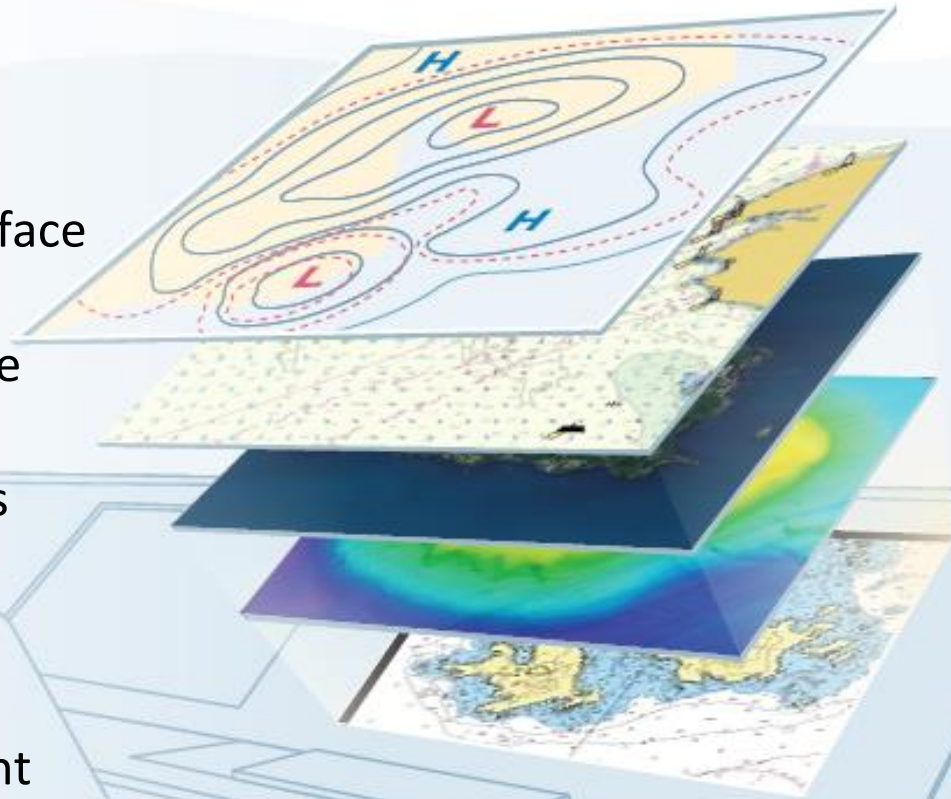
- **Primary aim: to support a greater range of hydrographic-related digital data sources, products and customers**
- Enables easier development of new applications that go beyond the scope of traditional hydrography
- Aligned with ISO 19100 series of international geospatial standards, enabling integration of hydrographic data and applications into geospatial solutions
- Provides the data framework for the development of the next generation Electronic Navigational Chart (ENC) products, as well as other digital products required by the hydrographic, maritime and GIS communities.



S-100

Plan for the production of:

- S-101 Electronic Navigation Chart
- S-102 Bathymetric Surface
- S-104 Water Level Information for Surface Navigation
- S-111 Surface Currents
- S-124 Navigational Warnings
- S-129 Under Keel Clearance Management (UKCM)



Trusted, authoritative maritime data is valuable and we manage it for the Australian people

Curation

(What we do to datasets)

C1. Secure-FAIR

*Findable
Accessible
Interoperable
Reusable*

C2. Lifecycle

C3. Quality

Trustworthy Systems

(Where we do it)

T1. Secure-TRUST

*Transparent
Responsible
User-focused
Sustainable
Technology*

T2. Walled garden

T3. Access controls

T4. Systems to support data assurance

People

(Who does it)

P1. Guardianship

P2. Roles and responsibilities

P3. Data management is a profession

Governance

(Why we do it)

G1. Legislation and policy

G2. Triple bottom Line

G3. Common standards

G4. Data release

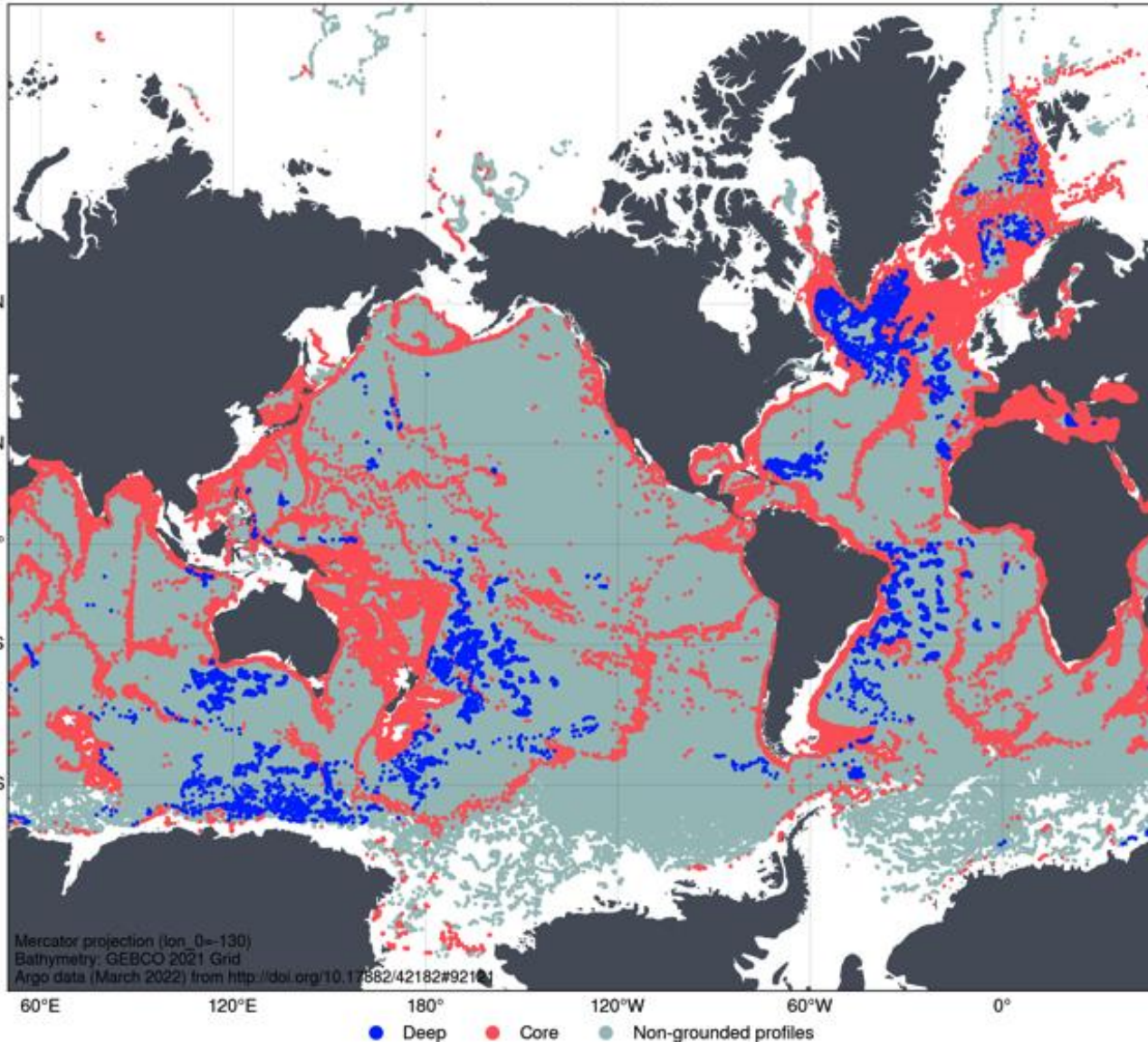
G5. Licensing

G6. Decision-making

G7. Reputation

Ocean science for the public good

Potential groundings by Argo float class



The spatial distribution of grounded Argo profiles (Argo dataset, March 2022, <http://doi.org/10.17882/42182#92121>).

Red: Core Argo
Blue: Deep Argo
Grey: ungrounded Argo

Van Wijk, E, Hally, B, Wallace, L, Zilberman, N, and Scanderbeg, M (2022) Can Argo Floats Help Improve Bathymetry, International Hydrographic Review

Questions

