

Antarctic Digital Database (ADD)

Updates on data improvements and product developments

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Outline

- Since last SCAGI....
 - ADD team
 - ADD product definition
 - Overview of the latest releases, ADD v7.1 and v7.2
 - Review of plans presented at the last SCAGI meeting

- Plans for the next release, ADD v7.3



Since last SCAGI....

1)

New team



Operational Lead
Laura Gerrish



Technical Lead
Felix Fennell



System Lead
Louise Ireland

2)

2 ADD releases

- ADD v7.1 August 2019
- ADD v7.2 May 2020

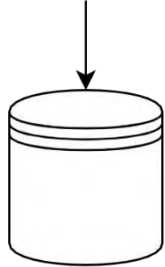
3)

Work on product
and data definition



ADD Product

Data



- Coastline
- Contours
- Seamask
- Rock outcrop
- Moraine
- Lakes
- ADD data limit

Documentation

- Manual
- Community updates
- Community engagement
- Press releases
- Published processes and update schedules

Web map viewer



Web services

Styled data layers delivered via WMS

Catalog, metadata, downloads

High resolution vector polylines of the Antarctic coastline

Version: 7.2
Released: 2020-05-12 13:24:50
Status: ✔ Current (Updated every 6 months)
Collection: Antarctic Digital Database
Topic: Topographic mapping
Publisher: Mapping and Geographic Information Centre (MAGIC)

Keywords
INSPIRE Themes
Land Cover
Land Use
GCMD Science Keywords
COASTLINE
TOPOGRAPHY
GROUNDING LINE
ISO Topics
Environment
GeoscientificInformation
imagerybaseimapearthcover

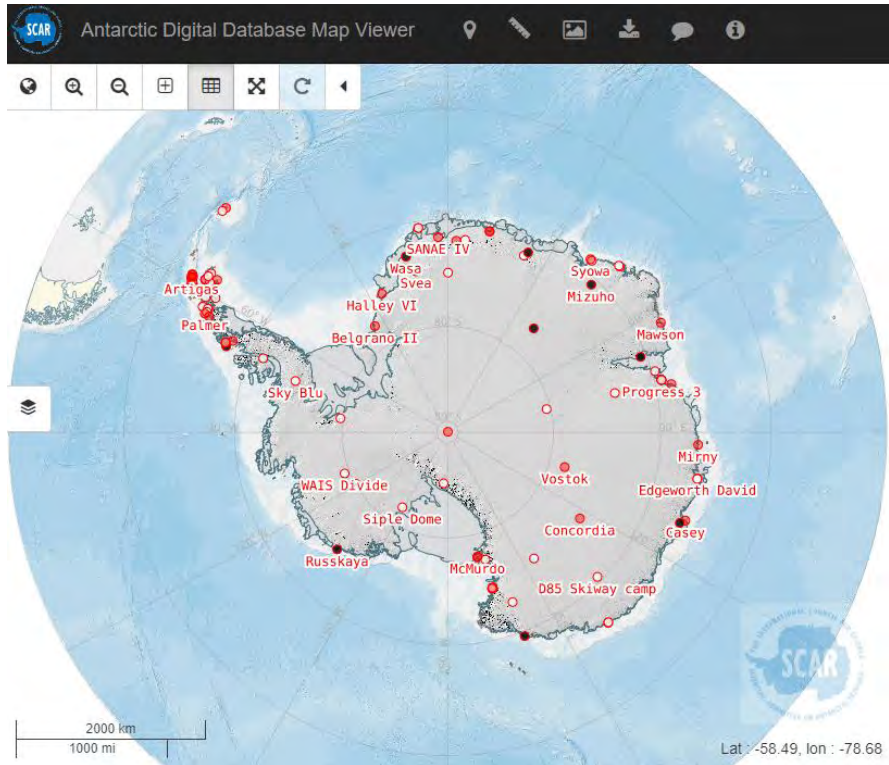
Abstract
Coastline for Antarctica created from various mapping and remote sensing sources. Covering all land and ice shelves south of 60°S. Version 7.2 was published in May 2020. Suitable for topographic mapping and analysis. Data compiled, managed and distributed by the Mapping and Geographic Information Centre, British Antarctic Survey on behalf of the Scientific Committee on Antarctic Research.

Format	Size	Access
Web Map Service (WMS)	N/A	Add layer to GIS
GeoPackage	120.77 MB	Download file
Shapefile	49.33 MB	Download file

You must include an acknowledgement if you use this item.



Web map viewer supplementary datasets



- Sub-Antarctic coastline
- Antarctic Circle
- Ice feature catchments
- Hillshade
- Facilities
- Historic sites and monuments
- Coastal change
- Bathymetry
- Surface DEM
- Bed DEM
- LIMA Mosaic



ADD Product

Data

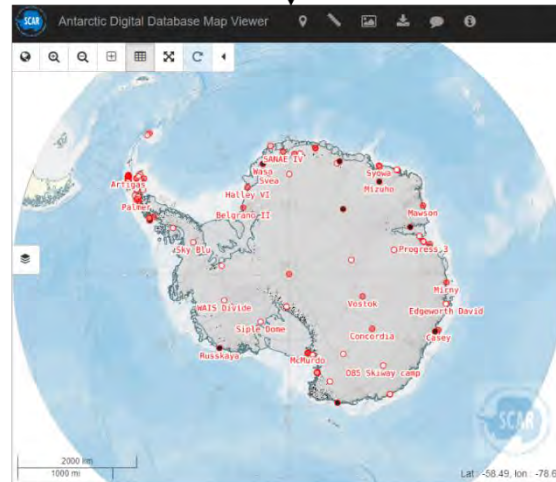


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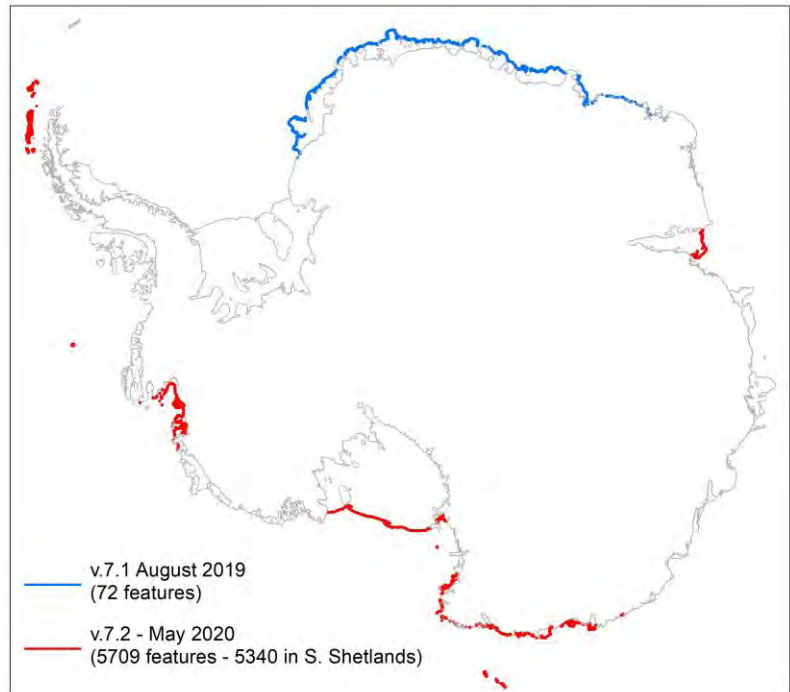
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v7.1 and v7.2 releases have focused on data and catalog, metadata and download components



ADD v7.1 and v7.2 release

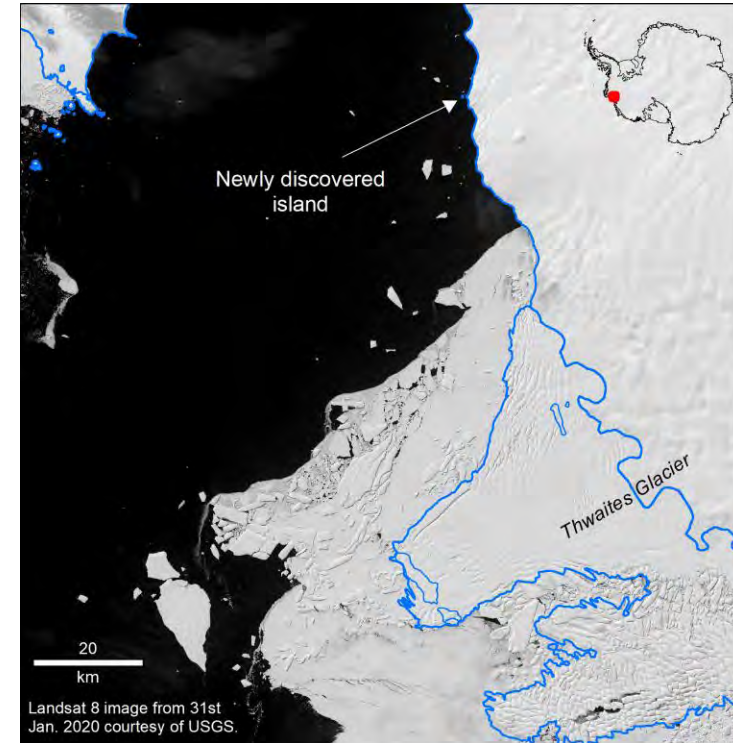
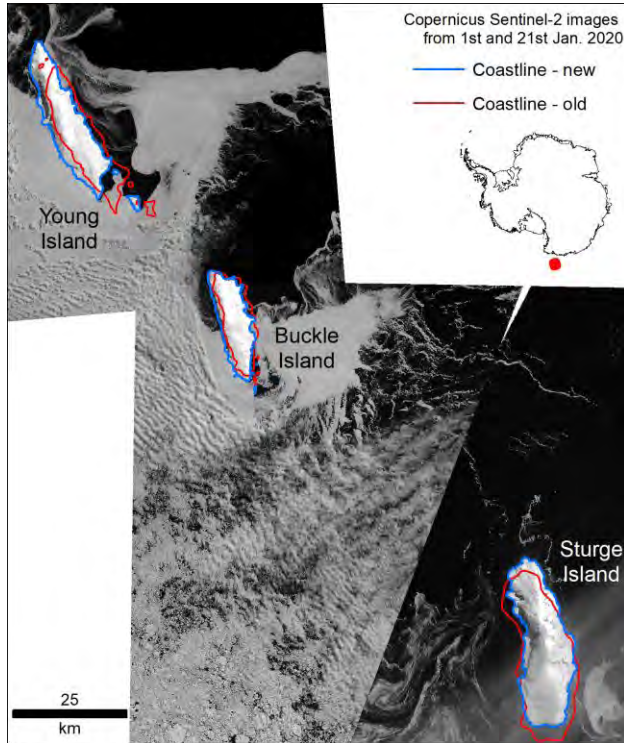
- Data updates



- Large coastline updates, including:
 - New South Shetland Islands and Balleny Islands coastline
 - Ice shelves and islands updated around Pine Island Bay
 - Ice shelves checked/updated from Ross along to Mertz Ice Shelf
 - Other smaller updates including Franklin Island, Amery Ice Shelf and Peter I Øy
- New hillshade, surface DEM and bed DEM
- Updated Historic Sites Monuments layer
- Some known errors corrected in rock outcrop and contours



ADD v7.2 release - Data updates



ADD v7.2 release

- Data catalog, metadata and downloads

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- New data catalog
- Backed by ISO compliant metadata
- Addition of GeoPackages as a standard download
- We no longer offer KML or CSV formats
- Download metrics



Review of plans presented at previous SCAGI meeting

Action	Status
Complete and incorporate topologically correct data	Corrections applied in v7.1 and ongoing
Continuous monitoring of ice shelf changes with special focus on Thwaites Glacier region supporting International Thwaites Glacier Collaboration.	Updates fed in to v7.1 and v.7.2 and ongoing
New topographic data for South Shetland Islands from BAS	Complete
Review of data management, QA and infrastructure and publication of updated processes	Ongoing. Documentation planned for release with v7.3
Possible update to grounding line data (Rignot data set)	Some areas updated in v7.3, ie. Thwaites region
New topographic data for South Orkney Islands	Planned for release in v7.3
Data layer for Air Operations (contours in feet) and spot heights (REMA/Tandem-x + directly measured)	Incomplete – licensing issues
Better rock outcrop in the “polar-gap” – automated mapping from MODIS spectral data	Incomplete



Plans for ADD v7.3 release: September 2020

Product component	Planned updates
Data	Coastline continuous updates to ice shelves Contours and spot heights New South Orkneys topographic data
Documentation	Publication of updated manual
Web map viewer	No updates planned
Web services	Review and rationalization of layers and basemaps offered
Catalogue, metadata and downloads	Updates to metadata as necessary Issuing of DOIs for datasets Open-sourcing of catalogue software General improvements to record formatting Initial support for dataset versions





**British
Antarctic Survey**

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