



# AUSTRALIAN ANTARCTIC DATA CENTRE

## Sustainable Information Systems

The Australian Antarctic Data Centre (AADC) was established in response to Australia's participation in the Antarctic Treaty System - (ATS — <http://www.ats.aq>).

The Centre is committed to the free and open exchange of scientific data and is working collaboratively with international centres, networks and scientists to build a sustainable polar data commons (<http://www.polarcommons.org>).

The AADC team blends scientific domain expertise with skills in computing and information systems to deliver professional data management and analysis services to Antarctic scientists and environmental managers.

As Australia's Antarctic Mapping agency, the AADC also supports the logistical operations of the Australian Antarctic Program.

This unique combination of functions and skills places the AADC in an ideal position to provide tailored spatial data management services to Australia's Antarctic research community.

Most AADC services are delivered online using well known, robust software development tools and open source solutions. Data delivery systems, where appropriate, use international standards for data exchange and data discovery.

## Value Adding Services

### Data Capture

AADC staff assist in the capture of data at sea and on land, organise satellite tasking to support science campaigns; maintain the Antarctic Tide Gauge network; provide advice on spatial data collection methods and develop data capture software.

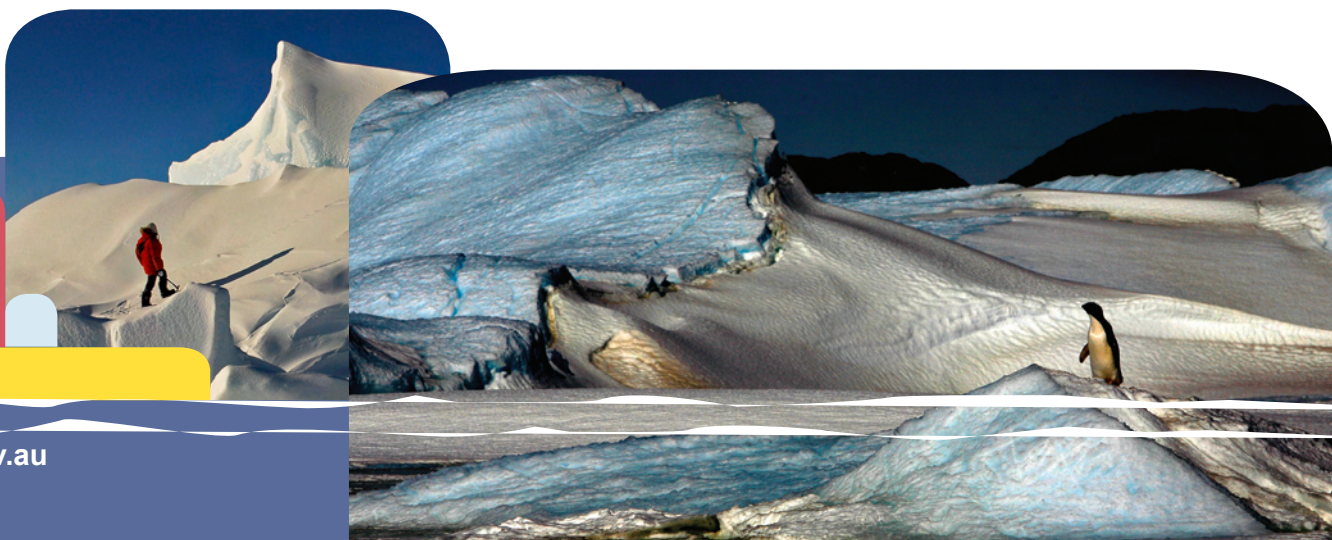
### Data Analysis and Mining

The Centre's research staff undertake data mining and data modelling projects in conjunction with Australian Antarctic research colleagues. Staff have specialist skills in classification, clustering, regression and statistical analysis techniques.

### Data Management

Data held in AADC data stores are qualified with metadata and discoverable through the Catalogue of Australian Antarctic and Sub-antarctic Metadata (CAASM — <http://data.aad.gov.au/aadc/metadata>) or through customised applications accessible via the AADC website — <http://data.aad.gov.au>.

All data is archived in the AADC to permit its re-use.



## Data publishing

In line with Antarctic Treaty objectives, the AADC is an active publisher of data to global data networks such as the Global Biodiversity Facility (GBIF — <http://www.gbif.org> and the Scientific Committee on Antarctic Research Marine Biology Information Network (SCAR-MarBIN — <http://www.scarmarbin.be>).

By using global networks data can be exposed for the widest possible use.

## Mapping

Spatial data specialists manage the AADC's Geographical Information System (GIS), remote sensed imagery and Place Names databases <http://data.aad.gov.au/aadc/gaz>.

These data are used by many of the Data Centre's online applications and support production of a wide range of topographic and thematic maps at various scales. All maps are managed within a publicly accessible on-line catalogue — <http://data.aad.gov.au/aadc/mapcat>.

## How to contact the AADC

### Post

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TASMANIA AUSTRALIA 7050

### Telephone

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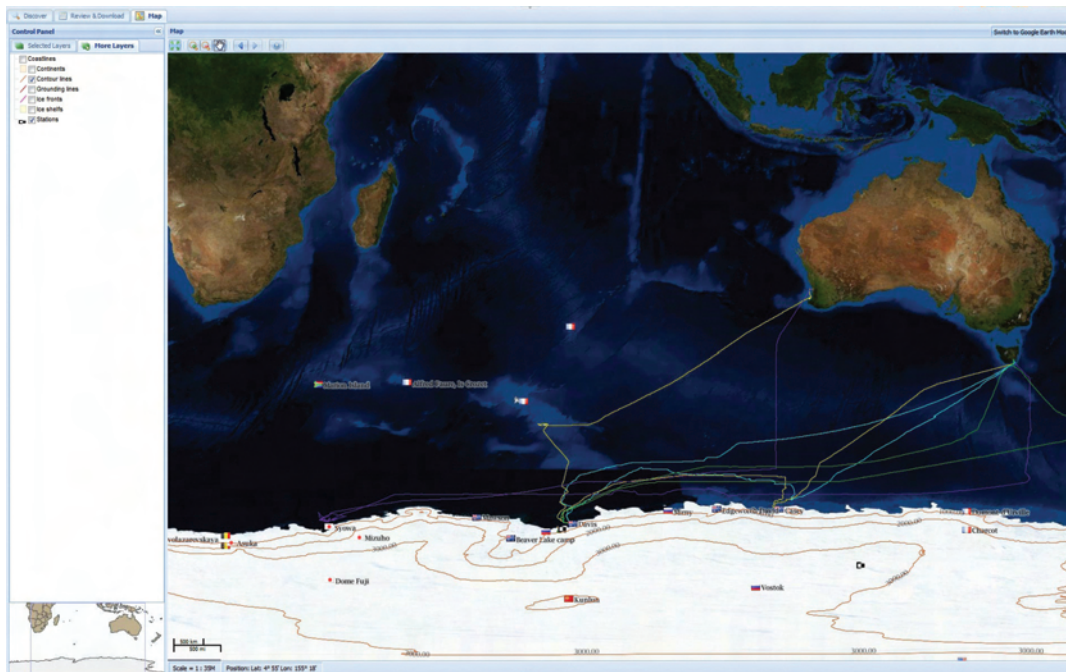
### Email

[aadc@aad.gov.au](mailto:aadc@aad.gov.au)

### Online

Log a request online at:

<http://data.aad.gov.au/aadc/requests>



*Data Navigator – a tool to discover, download, and display data - <http://data.aad.gov.au/aadc/navigator>*