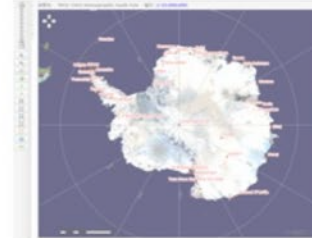


極地研の地理情報システムの現状と今後

- 航空写真
- 垂直写真
- 地形図
- 海底地形図
- 地質図
- 写真図
- 衛星写真図
- 標高モデル

「GISポータルサイト」は、地理情報システム (GIS)を用いて、南極に関する観測情報、研究情報等を地図上に数値等のデータやランキング図として表示することができます。本サイトで提供している地図コンテンツは、国土交通省国土地理院と国立極地研究所が保有している地図をデジタル加工したものです。一部のデータは、データ加工上の誤差等でデータ間の位置がずれている箇所があります。今後、データの改善を図っていきます。



推奨環境 : Internet Explorer 6.0 ,7.0 ,8.0 Firefox 2.0 ,3.0

- OneGeologyでの利用
- GoogleEarthでの利用
- ArcGISでの利用

掲示板

WEB カメラ



データダウンロード

- 航空写真リスト
- 地形図リスト
- 地質図リスト
- 写真図リスト
- 衛星写真図リスト
- その他リスト

トピックス

- 2010年3月25日 地形図を更新しました。
- 2010年3月25日 地形図ダウンロードデータを追加しました。
- 2010年3月25日 地図のページに[地図回転]機能を追加しました。
- 2009年10月14日 GoogleEarthでの利用を更新しました。
- 2009年10月14日 OneGeologyでの利用を更新しました。

野木 義史(極地研)

経緯

- 2004年 情報・システム研究機構新領域融合研究センター・新領域融合プロジェクトにおいて、南極域のGIS整備を視野に入れた「地球科学総合情報データベースの構築に関する研究」を開始
- 2005年 プロジェクトを統合および拡大する形で、「分野横断型融合研究のための情報空間・情報基盤の構築」を実施
- 2009年 ArcGISをベースとした南極GISを公開
所内(データダウンロード可能, <http://geogis.nipr.ac.jp/gis/>),
所外(オンライン表示, <http://geogisopen.nipr.ac.jp/gisopen/>)
- 2010年 南極観測船「しらせ」に上でも、南極GISポータルサイト船上サービスを提供



記事・論文

日本の南極観測活動における地理情報システム(GIS)ポータルサイト

野木 義史,北本 朝展

詳細情報

タイトル: 日本の南極観測活動における地理情報システム(GIS)ポータルサイト

著者: [野木 義史](#)著者: [北本 朝展](#)

出版地 (国名コード): JP

別タイトル: GIS portal site of Japanese Antarctica Research

出版年(W3CDTF): 2010-11

NDLC: ZM1

対象利用者: 一般

資料の種別: 記事・論文

掲載誌情報 (URI形式): <https://iss.ndl.go.jp/books/R100000002-I0000000178>

掲載誌情報 (ISSN形式): 00857289

掲載誌情報 (ISSN-L形式): 00857289

掲載誌名: 南極資料

掲載巻: 54

掲載号: 3

掲載ページ: 203~215

言語 (ISO639-2形式): jpn : 日本語

見る・借りる

[国立国会図書館オンライン \(雑誌記事索引\)](#)[CiNii Booksで探す](#)

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[書店等で探す](#)

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[はてなブックマークに追加](#)[Yahoo! ブックマークに追加](#)[del.icio.us に追加](#)[Twitter でつぶやく](#)

検索結果を出力

[書誌情報をDC-NDL\(RDF\)で出力](#)[書誌情報をJSONで出力](#)



縮尺スライダー: プラス方向に移動すると拡大、マイナス方向に移動すると縮小

拡大・縮小: 矩形またはポイントを指定して拡大・縮小。拡大・縮小範囲は1:10,000~1:35,000,000

移動: クリック後、ドラッグ&ドロップで移動

全体表示: 南極大陸全域を表示

前の表示範囲に戻る

次の表示範囲に進む

定率拡大・縮小: 一定の率で拡大・縮小

定率拡大・縮小(位置指定): 地図上で選択した場所を中心に一定の率で拡大・縮小

グラフィック削除: 地図上に描画された図形を削除

個別属性表示

計測





Making Geological Map Data for the Earth Accessible

OneGeology Portal

Contact us
[Catalogue of Registered Services](#)

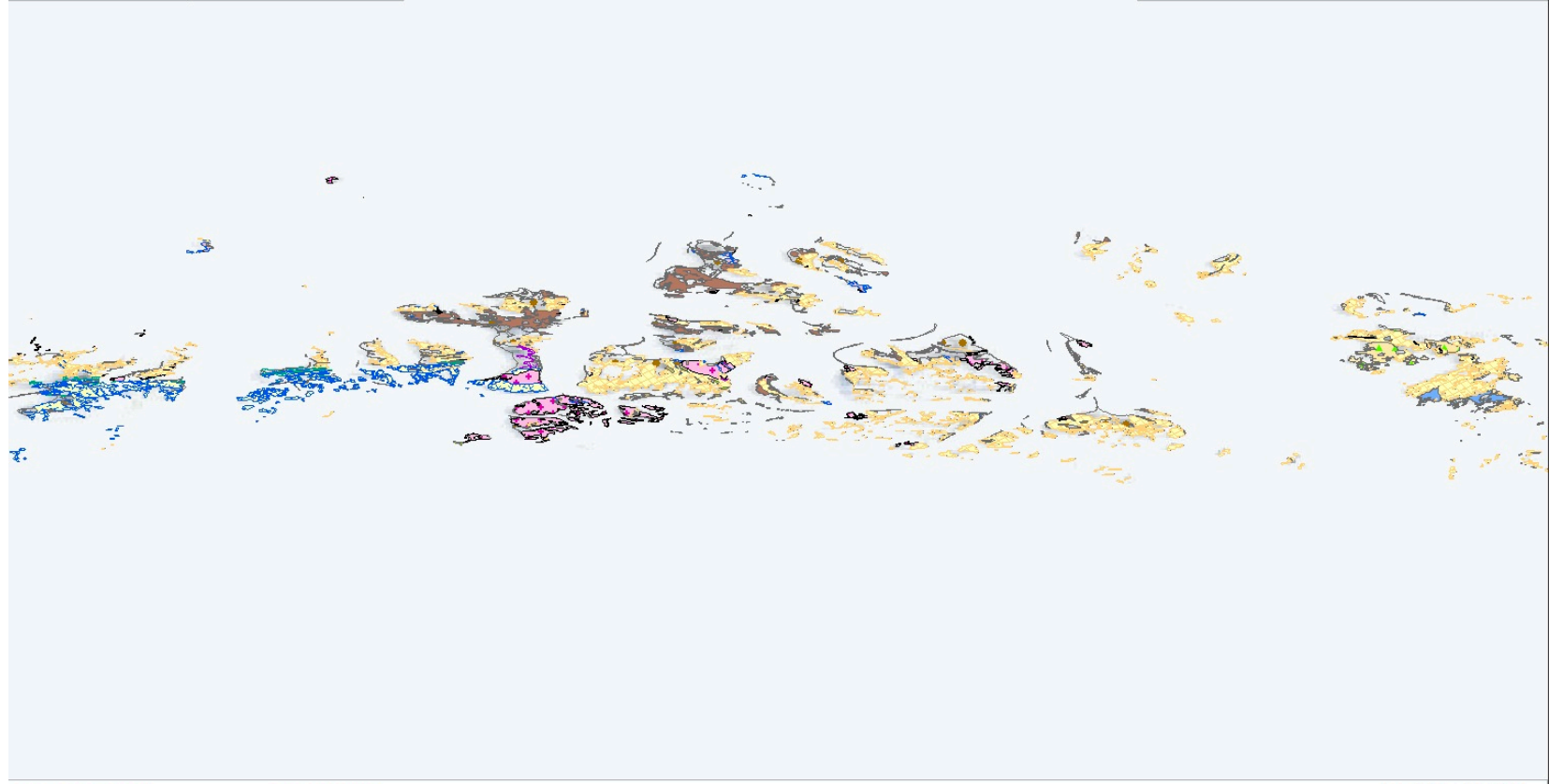
English



[View layers](#) [Save KML context](#) [Save WMC context](#) [Load a WMC context](#) [Help](#)

► Overview Map

► Active Layers Properties

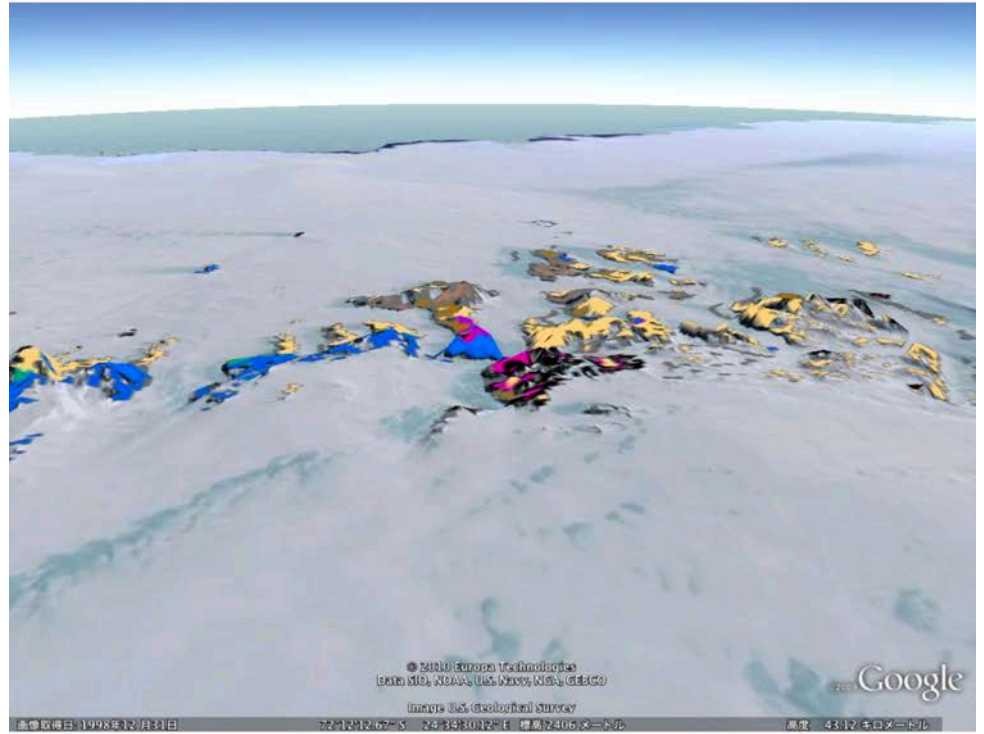
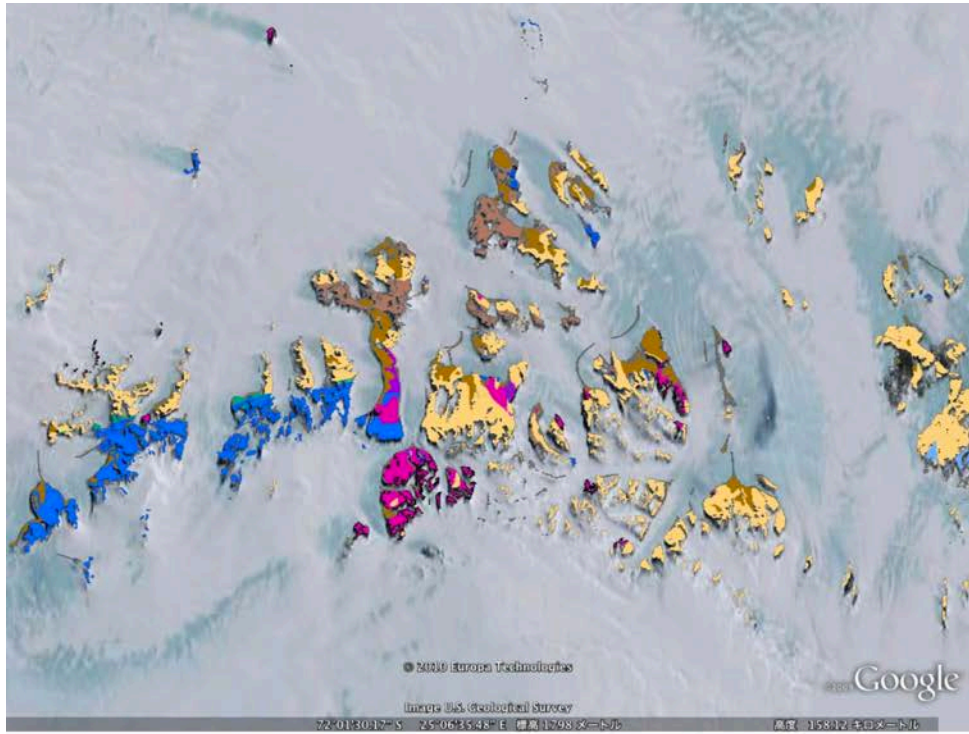


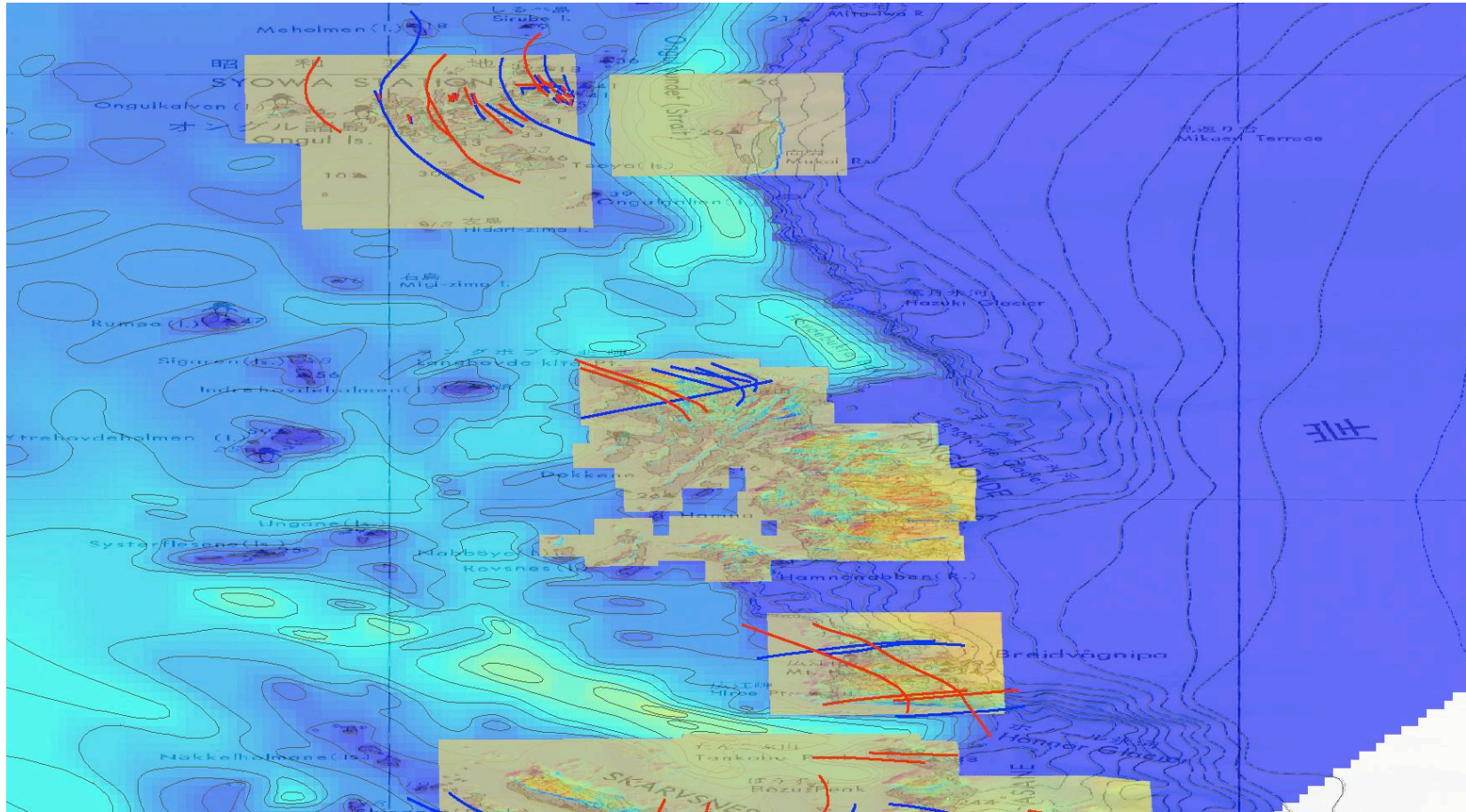
32 km

Scale: 1 : 1 039 164

lon : 25.76 lat : -71.06

All data are owned by OneGeology participants and any limits on the use of these data are described by each provider in the Catalogue of Registered Services. This application now supports Firefox3, IE6 and 7, Opera, Safari, Chrome.





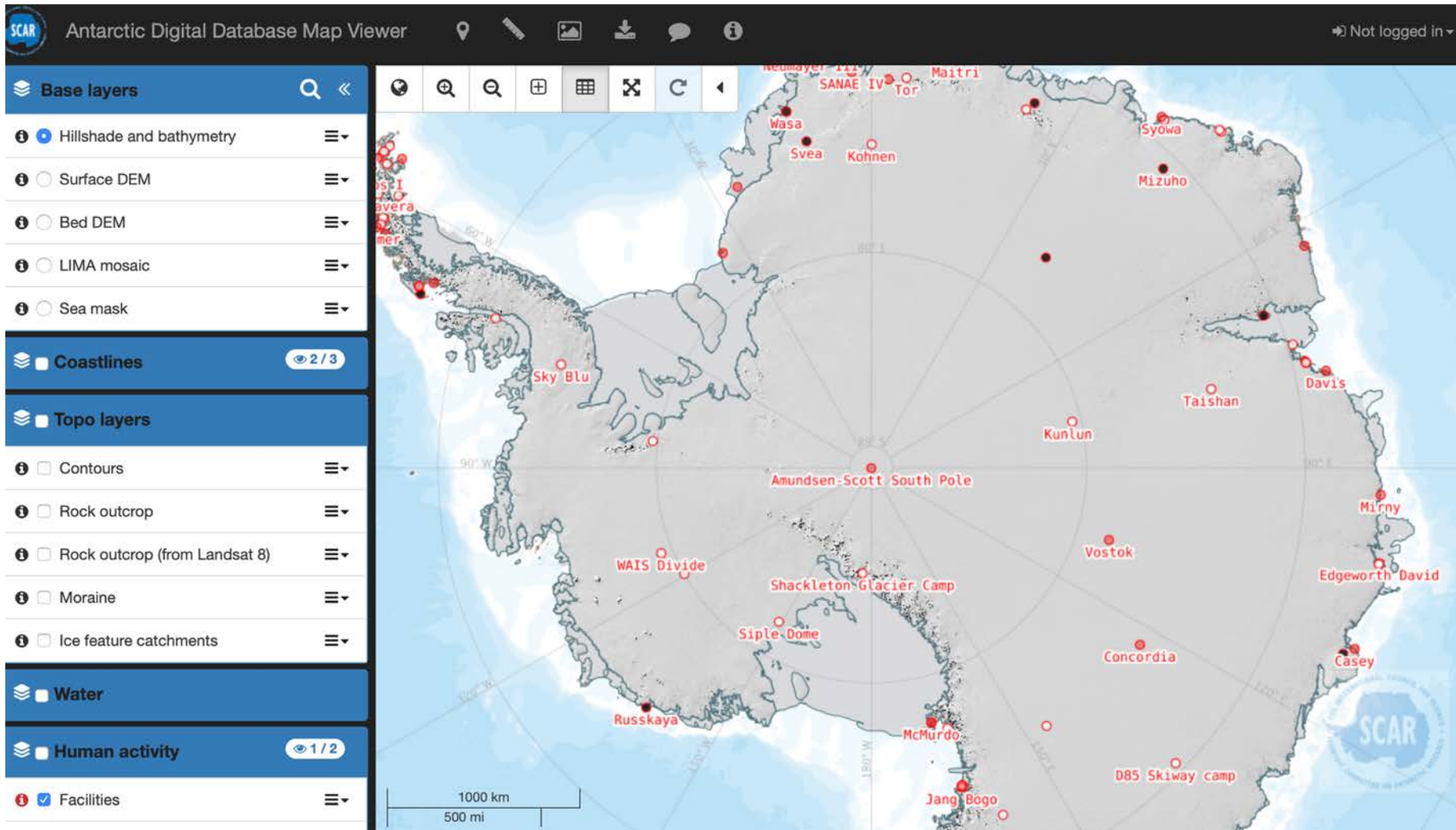
問題点

- 座標系
- 英語版がまだない
- 維持予算の確保

その他

- 陸上地形図は国土地理院
- 海底地形は海上保安庁

<https://www.add.scar.org>



http://sdlsold.ogs.trieste.it

Antarctic Seismic Data Library System (SDLS)

for Cooperative Research

Menu

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[Help](#)

Powered by  SNAP

Info

Portal	SDLS
Vers	2.5.2
SNAP v.	6.0
PHP v.	5
Host	sdlsold
Info	DEV site
DB	SDLS_2_1

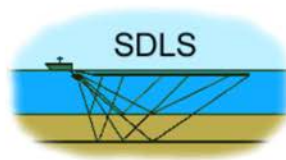
This site is under constant revision

Downloading enabled

Comments or recommendations on this site are welcome.

Site Manager:
[Nigel Wardell](#)

 SNAP:
[Paolo Diviaco](#)



SDLS NEWS:

This latest version of the SDLS website contains some major modifications. SVG interactive graphics are still used but there is no longer any need to use the Adobe plugin - the graphics are now handled by the Batik SVG Toolkit which runs in Java on the local computer. This also removes the restriction of the type of browser that is used; any regular browser is now acceptable. Explorer, Opera, Firefox, Chrome and Safari have all been tested.

The seismic data available to the scientific community from the website has also been updated to include almost all of the data over 8 years old that have been distributed to the library branches on DVD/CD-ROM. The loading of the remaining data will be completed shortly.

What is the SDLS?

The Antarctic Seismic Data Library System (SDLS) works under the auspices of Scientific Committee on Antarctic Research (SCAR) and the Antarctic Treaty (ATCM XVI-12) to provide open access to all multichannel seismic-reflection data collected south of 60° S to study the structure of the earth's crust of Antarctica. This page provides links to answers for many common questions about the SDLS, and how the library system can be used by all researchers...[more](#)

Where are library branches?

To find SDLS library locations and contact information...[more](#)

What data are in the SDLS?

Multichannel Seismic-Reflection data from many areas around Antarctica have been collected...[more](#)

[The Antarctic Treaty](#)
Geopolitical mandates

[Scientific Committee on Antarctic Research \(SCAR\)](#)
Science oversight

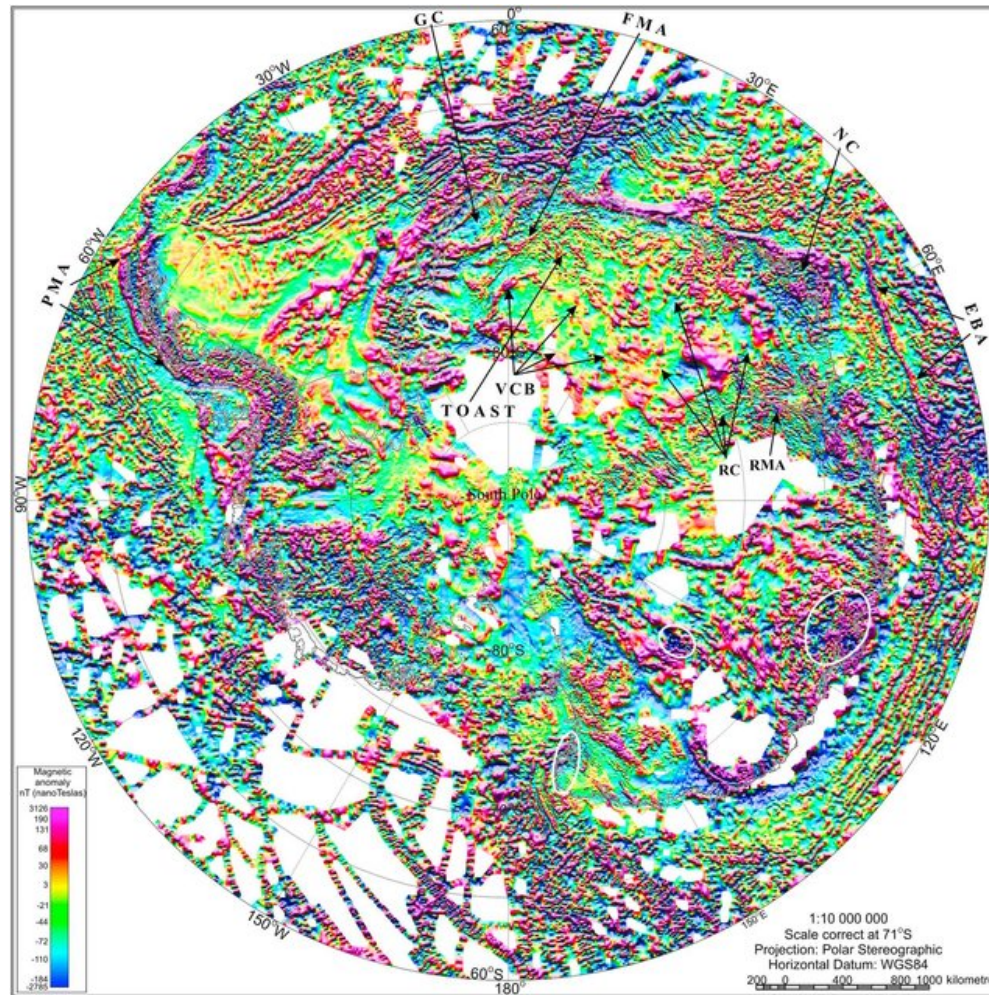
[U.S. National Science Foundation Office of Polar Programs](#)
Funding agency

[P.N.R.A.: Programma Nazionale di Ricerca in Antartide](#)
Funding agency

[Istituto Nazionale di Oceanografia e di Geofisica Sperimentale \(OGS\)](#)
operation/administration

[U.S. Geological Survey Western Region Coastal and Marine Geology Team](#)
operation/administration

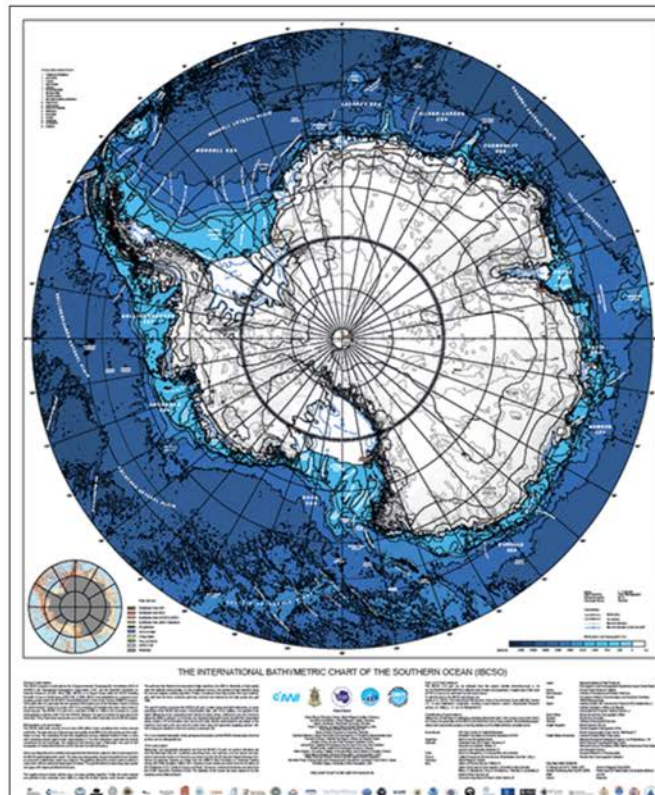
ADMAP2 Magnetic anomaly map of the Antarctic



Golynsky, AV et al. (2018): New magnetic anomaly map of the Antarctic. *Geophysical Research Letters*, 45(13), 6437-6449, <https://doi.org/10.1029/2018GL078153>

International Bathymetric Chart of the Southern Ocean (IBCSO)

INTERNATIONAL BATHYMETRIC CHART OF THE SOUTHERN OCEAN (IBCSO)



Arndt, J.E., H. W. Schenke, M. Jakobsson, F. Nitsche, G. Buys, B. Goleby, M. Rebesco, F. Bohoyo, J.K. Hong, J. Black, R. Greku, G. Udintsev, F. Barrios, W. Reynoso-Peralta, T. Morishita, R. Wigley, "The International Bathymetric Chart of the Southern Ocean (IBCSO) Version 1.0 - A new bathymetric compilation covering circum-Antarctic waters", *Geophysical Research Letters*, [doi: 10.1002/grl.50413](https://doi.org/10.1002/grl.50413)

<http://quantarctica.npolar.no>



Quantarctica

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A free GIS package for Antarctica

Quantarctica is a collection of Antarctic geographical datasets which works with the free, cross-platform, open-source software [QGIS](#). It includes community-contributed, peer-reviewed data from ten different scientific themes and a professionally-designed basemap. Best of all, Quantarctica is free to download and re-distribute. See [what's included](#) in Quantarctica and [download it now!](#)



<https://www.gplates.org>

GPlates

GPlates is desktop software for the interactive visualisation of **plate-tectonics**.

GPlates offers a novel combination of interactive **plate-tectonic reconstructions**, geographic information system (GIS) functionality and **raster data visualisation**. GPlates enables both the visualisation and the manipulation of plate-tectonic reconstructions and associated data through geological time. GPlates runs on **Windows**, **Linux** and **MacOS X**. GPlates has an online [user manual](#).

GPlates is [free software](#) (also known as [open-source software](#)), licensed for distribution under the GNU [General Public License](#) (GPL), version 2.

[What can GPlates do?...](#)

GPlates Web Portal

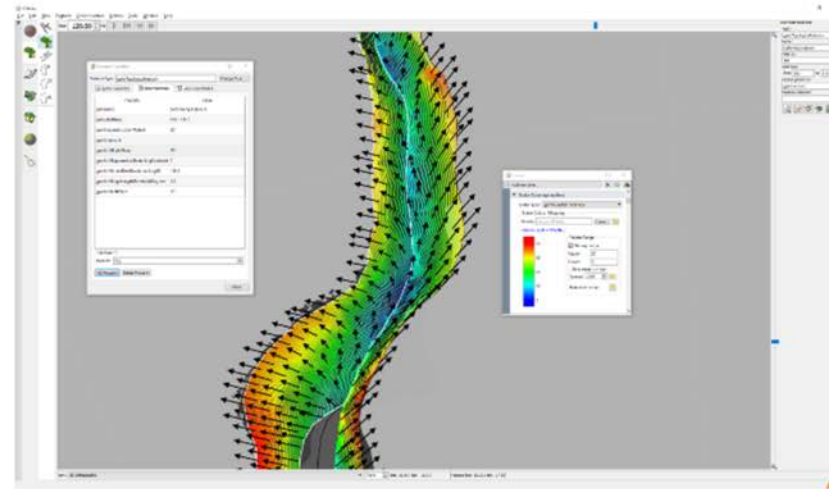
The [GPlates Web Portal](#) is a gateway to a series of web pages for the interactive visualisation of cutting-edge geoscience datasets, all possible within freely available web browsers.

GPlates Python Library

The GPlates Python library (pyGPlates) enables access to GPlates functionality via the Python programming language. It allows users to use GPlates in a programmatic way and hence provides much more flexibility than the GPlates desktop interface can offer. The first beta release of pyGPlates is now available for download at [here](#). The pyGPlates documentation can be found at [here](#) and tutorials are available at [here](#).

[GPlates News Quarterly Updates](#) : A newsletter regarding recent GPlates related research, information on tutorials, new GPlates compatible data and plate models, and other news from the research group.

[GPlates-announce](#) : A read-only mailing list that you can subscribe to if you are only interested in release notices and other important news regarding GPlates software.

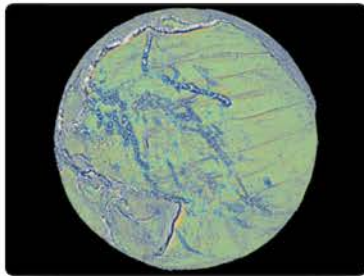


Download GPlates 2.2

Müller, R. D., Cannon, J., Qin, X., Watson, R. J., Gurnis, M., Williams, S., et al. 2018. [GPlates: Building a virtual Earth through deep time](#). *Geochemistry, Geophysics, Geosystems*, 19. doi:10.1029/2018GC007584.



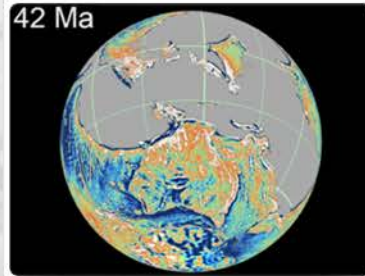
Vertical Gravity Gradient Grid



Details

Launch

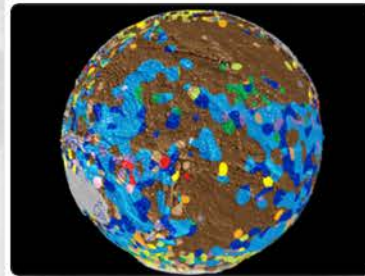
Gravity Anomaly Grid Reconstruction



Details

Launch

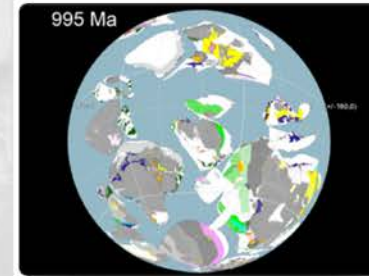
Seafloor Lithology



Details

Launch

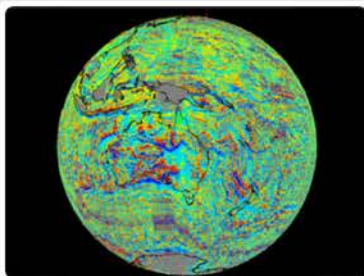
Rodinia Reconstruction



Details

Launch

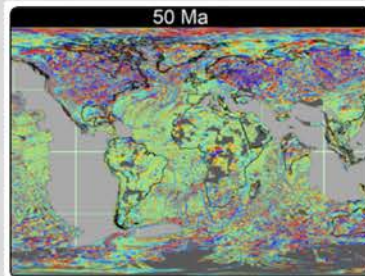
EMAG2 Magnetic Anomaly Grid



Details

Launch

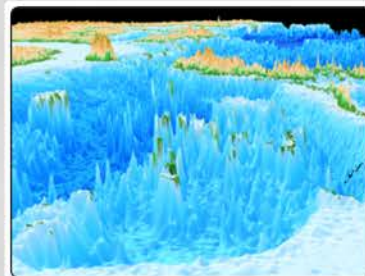
EMAG2 Reconstruction



Details

Launch

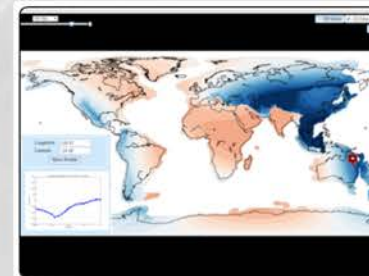
SRTM15 Topography



Details

Launch

Dynamic Topography



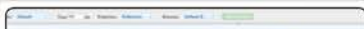
Details

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Paleomap Maker



PyGPlates Examples

PyGPlates IPython Notebooks

Magnetic Picks



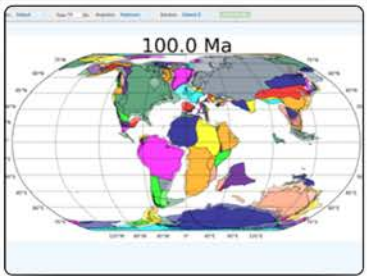
Geology



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Paleomap Maker



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PyGPlates Examples

PyGPlates IPython Notebooks

Each notebook can be viewed in two ways. Clicking 'view' will display the notebook rendered as static HTML. Clicking 'Run' will launch the notebook in a web browser, so that you can execute the code as is, or modify the code and execute to generate new output. The notebook mode is read-only - no changes are permanently saved, so any modifications are not preserved if the page is closed or refreshed. However, you can save the modified notebook as various formats using the dropdown option in the top-left corner.

[Python Notebook Runtime Compatibility](#)

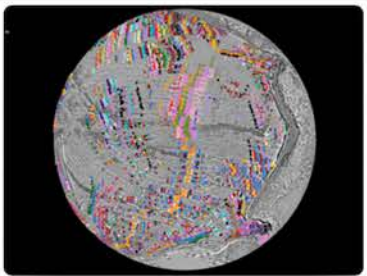
Contact the [Earthlife Group](#) for IPython Notebook powered.

PyGPlates Setup.ipynb	View	Run
PyGPlates-Flowlines-and-Motion-Paths.ipynb	View	Run
PyGPlates-Making-agegrids-with-latitude.ipynb	View	Run
PyGPlates-Working-with-Rotations-Poles.ipynb	View	Run

Details [Launch](#)

Details [Launch](#)

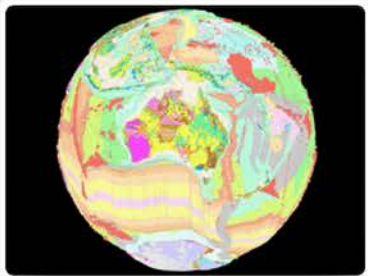
Magnetic Picks



Details [Launch](#)

Details [Launch](#)

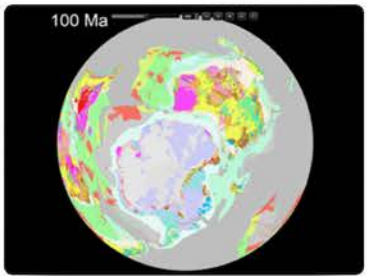
Geology



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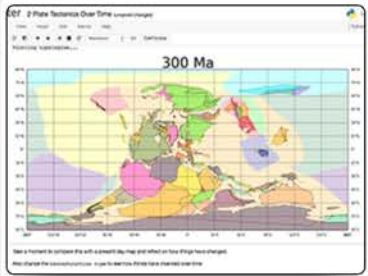
Geology Reconstruction



Details [Launch](#)

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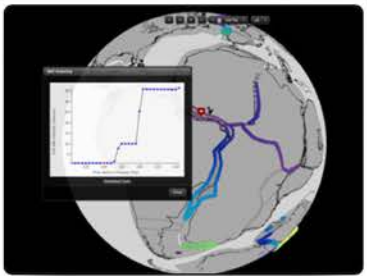
PyGPlates for Teaching



Details [Launch](#)

Details [Launch](#)

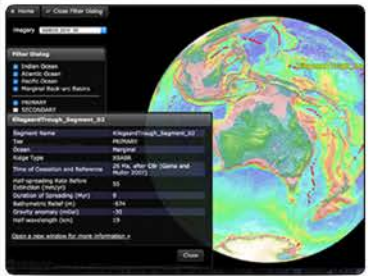
Rift Velocity



Details [Launch](#)

Details [Launch](#)

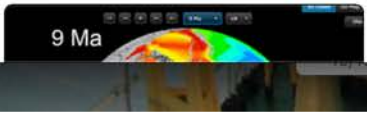
Extinct Ridges



Details [Launch](#)

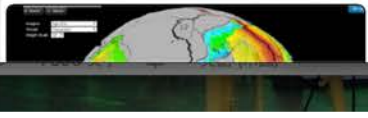
Details [Launch](#)

Age Grids




Details [Launch](#)

Present-day Age Grid




Details [Launch](#)

Contourites



Details [Launch](#)

Rift Obliquity

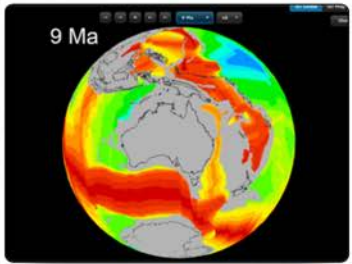


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Age Grids

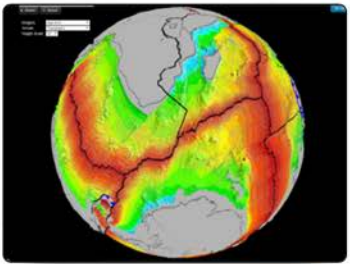


9 Ma

Details Launch

Details Launch

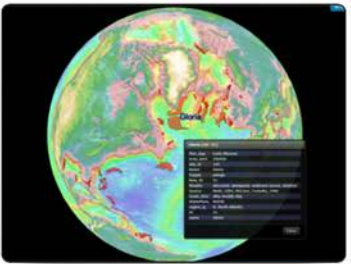
Present-day Age Grid



Details Launch

Details Launch

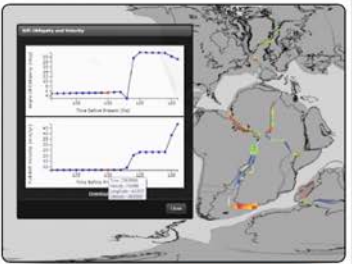
Contourites



Details Launch

Details Launch

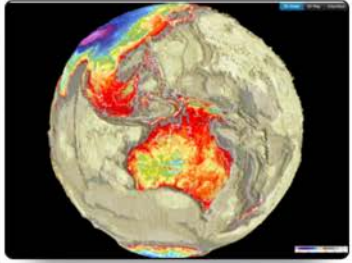
Rift Obliquity



Details Launch

Details Launch

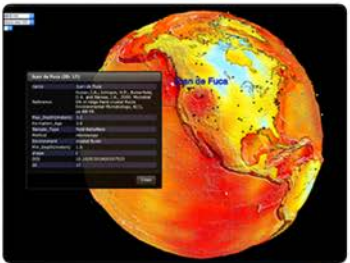
Bouguer and Isostatic Gravity Anomalies



Details Launch

Details Launch

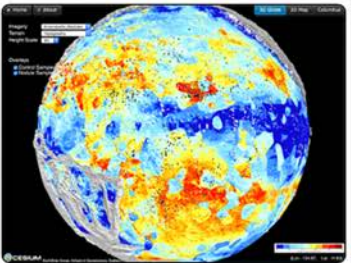
Deep Biosphere **New!**



Details Launch

Details Launch

Polymetallic Nodules **New!**



Details Launch

Details Launch

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Web Service Reference

Web Service Examples

Python API

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