

Metadata format: ISO 19139**ATA SCAR GeoMAP geology (v.2022-08)****ISO 19139 metadata content**

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Resource Identification Information

CITATION

TITLE ATA SCAR GeoMAP geology (v.2022-08)

CREATION DATE 2015-01-01

PRESENTATION FORMAT mapDigital

COLLECTION TITLE ATA SCAR GeoMAP Geology (v.2022-08)

OTHER CITATION DETAILS GeoMAP Team: Compilers: S.C. Cox, B. Smith Lyttle (GNS Science). 'Engine room' Workers: T. Abu-Alam (Norway), M. Ballinger (Australia), L. Bamber (UK), S. Elkind (USA), B. Kitchener (Australia), L. Lelli (Italy), J. Mawson (NZ), A. Millikin (USA), N. Dal Seno (Italy), L. Whitburn (NZ), T. White (USA). Principal Collaborators: A. Burton-Johnson (UK), G. Capponi (Italy), L. Crispini (Italy), D. Elliot (USA), S. Elvevold (Norway), J. Goodge (USA), J. Halpin (Australia), A. Läuffer (Germany), E. Mikhalsky (Russia), P. Morin (USA), C. Siddoway (USA), A. Martin (NZ), F. Morgan (NZ). Scientific and Technical Advisors: J. Galindo-Zaldívar (Spain), D. Heron (NZ), J. López-Martínez (Spain), W.B. Lyons (USA), P. Morin (USA), N. Pant (India), M. Rattenbury (NZ), O. Raymond (Australia), P. Scadden (NZ), B. Storey (NZ), G. Wilson (NZ).

THEMES OR CATEGORIES OF THE RESOURCE geoscientificInformation

PLACE KEYWORDS

KEYWORDS Antarctica

THEME KEYWORDS

KEYWORDS geology, lithology, geomorphology

ABSTRACT

This collection of datasets comprises geological information for Antarctica. Data have been compiled by the GeoMAP team led by GNS Science. Version 2022-08 updates an early beta version (v.2019-07) in response to informal feedback and peer review, and/or the need for local improvements. GeoMAP has utilised co-funding from GNS Science's Nationally Significant Databases and Collections Programme (NSDC) and international collaboration through the SCAR GeoMAP project(2015-2020). It represents a synthesis of existing published and unpublished mapping of the continent's geology in a single geodatabase at a regional scale. The data comprises geological unit polygon geometry and attribute fields describing the unit type, name, age, lithology, stratigraphy, and supporting background information, where this is known and geological fault polyline geometry and attribute fields describing locational accuracy, exposure, fault type, and supporting background information, where this is known. Data are linked to the source polygon geometry which provides a spatial bibliography of key datasets and maps used in their compilation. The

data structures within this geodatabase comply with the GeoSciML 4.1 standard where relevant and uses the relevant CGI Controlled Vocabularies. The GeoMAP dataset was produced as part of the Regional Geological Map Archive and Datafile, one of the Nationally Significant Collections and Databases supported by the New Zealand Government's Strategic Science Investment Fund (contract C05X1701). DOI <https://doi.org/10.21420/7SH7-6K05>

PURPOSE

This database spatially represents geological information for Antarctica. It classifies and describes the bedrock and surficial geology of exposed rock and sediments in Antarctica. The dataset captures and harmonises both legacy and modern geological science. An important focus are glacial deposits which contain records of the waxing and waning of ice of relevance for understanding Antarctica's role in global climate.

DATASET LANGUAGE English

DATASET CHARACTER SET utf8

STATUS completed

MAINTENANCE

UPDATE FREQUENCY asNeeded

RESOURCE CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

This material is licensed under a Creative Commons Attribution 4.0 International License. Acknowledging the source of data from both GNS Science and SCAR (The Scientific Committee on Antarctic Research) is requested. The following citation is suggested:

Cox, Simon Christopher; Smith Lyttle, Belinda; Elkind, Samuel; Smith Siddoway, Christine; Morin, Paul; Capponi, Giovanni; Abu-Alam, Tamer; Ballinger, Matilda; Bamber, Lauren; Kitchener, Brett; Lelli, Luigi; Mawson, Jasmine F; Millikin, Alexie; Dal Seno, Nicola; Whitburn, Louis; White, Tristan; Burton-Johnson, Alex; Crispini, Laura; Elliot, David; Elvevold, Synnove; Goodge, John W; Halpin, Jacqueline A; Jacobs, Joachim; Mikhalsky, Eugene; Martin, Adam P; Morgan, Fraser; Smellie, John; Scadden, Phil; Wilson, Gary (2023): The GeoMAP (v.2022-08) continent-wide detailed geological dataset of Antarctica. PANGAEA, <https://doi.org/10.1594/PANGAEA.951482>

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SPATIAL RESOLUTION

DATASET'S SCALE

SCALE DENOMINATOR 100000

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -180

EAST LONGITUDE 180

NORTH LATITUDE -50.195484

SOUTH LATITUDE -90

CREDITS

Cox, Simon Christopher; Smith Lyttle, Belinda; Elkind, Samuel; Smith Siddoway, Christine; Morin, Paul; Capponi, Giovanni; Abu-Alam, Tamer; Ballinger, Matilda; Bamber, Lauren;

Kitchener, Brett; Lelli, Luigi; Mawson, Jasmine F; Millikin, Alexie; Dal Seno, Nicola; Whitburn, Louis; White, Tristan; Burton-Johnson, Alex; Crispini, Laura; Elliot, David; Elvevold, Synnove; Goodge, John W; Halpin, Jacqueline A; Jacobs, Joachim; Mikhalsky, Eugene; Martin, Adam P; Morgan, Fraser; Smellie, John; Scadden, Phil; Wilson, Gary

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Data Quality Information

SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL dataset

LINEAGE

LINEAGE STATEMENT

GeoMAP v.2022-08 supercedes an earlier beta version (v.2019-07) made available at the XIII International Symposium on Antarctic Earth Sciences (ISAES), Incheon, Republic of Korea 22-26 July 2019.

This release v.2022-08 updates and corrects the dataset following informal feedback and peer review, and/or improves local areas with more attention to detail.

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Metadata Information

LAST UPDATE 2021-12-13

MAINTENANCE

UPDATE FREQUENCY asNeeded

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SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME dataset

METADATA LANGUAGE English

METADATA CHARACTER SET utf8

NAME OF THE METADATA STANDARD USED ISO 19139 Geographic Information - Metadata -
Implementation Specification

VERSION OF THE METADATA STANDARD 2007

METADATA IDENTIFIER 333C1D5A-1F80-4ED2-B6A6-52AB2B03A52F

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