

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

- Resource Identification Information
- Spatial Representation Information
- Reference System Information
- Data Quality Information
- Distribution Information
- Metadata Information

Resource Identification Information

CITATION

TITLE ATA GeoMAP faults (v.2022-08)

CREATION DATE 2021-12-15

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. Läufer (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

DESCRIPTIVE KEYWORDS

KEYWORDS geology, faults, geomorphology

DESCRIPTIVE KEYWORDS

KEYWORDS Downloadable Data

THESAURUS ArcIMS Metadata Service Content Types

ABSTRACT

This layer comprises the faults data for Antarctica. It represents a synthesis of existing published and unpublished mapping of faulting in this area in a single dataset at a regional scale. While it includes some structures interpreted from geophysical datasets, or inferred from continental-scale syntheses, the focus has been a capture of data from geological observations and geological mapping. The dataset comprises arcs with each arc having attributes describing the locational accuracy, exposure, activity, type of fault, and the sense

of movement of the fault, where this is known. This layer complies with the GeoSciML Lite standard for ShearDisplacementStructureView and fields required by that standard were populated using the CGI Controlled Vocabulary (v2016.01). 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 vector data layer spatially represents the faults present at or near the surface at a regional scale.

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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RESOURCE CONSTRAINTS

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS otherRestrictions

OTHER CONSTRAINTS

Public Domain Dedication

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

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 -52.802881
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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Spatial Representation - Vector

LEVEL OF TOPOLOGY FOR THIS DATASET geometryOnly

GEOMETRIC OBJECTS

OBJECT TYPE composite
OBJECT COUNT 1784

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Reference System Information

REFERENCE SYSTEM IDENTIFIER

VALUE 3031

CODESPACE EPSG

VERSION 6.7(9.0.0)

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Data Quality Information

SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL dataset

LINEAGE

LINEAGE STATEMENT

1. Existing published or unpublished geological maps were georeferenced.
2. Fault traces identified on these maps were digitised.
3. Characteristics such as locational accuracy, exposure and fault type were captured from the source map where this information was available and were recorded as a GeoSciML compliant table of attributes
4. Data checked for logical consistency.

GeoMAP v.202208 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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Distribution Information

FORMAT

NAME File Geodatabase Feature Class
VERSION 10.5.1.7333

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Metadata Information

LAST UPDATE 2022-08-16

MAINTENANCE

UPDATE FREQUENCY asNeeded

METADATA CONTACT - CUSTODIAN

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ONLINE RESOURCE

FUNCTION PERFORMED information

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 04A23A8E-DF36-4C06-9EF4-4DB4AC9A9E19
PARENT IDENTIFIER 333C1D5A-1F80-4ED2-B6A6-52AB2B03A52F

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