GeoMAP

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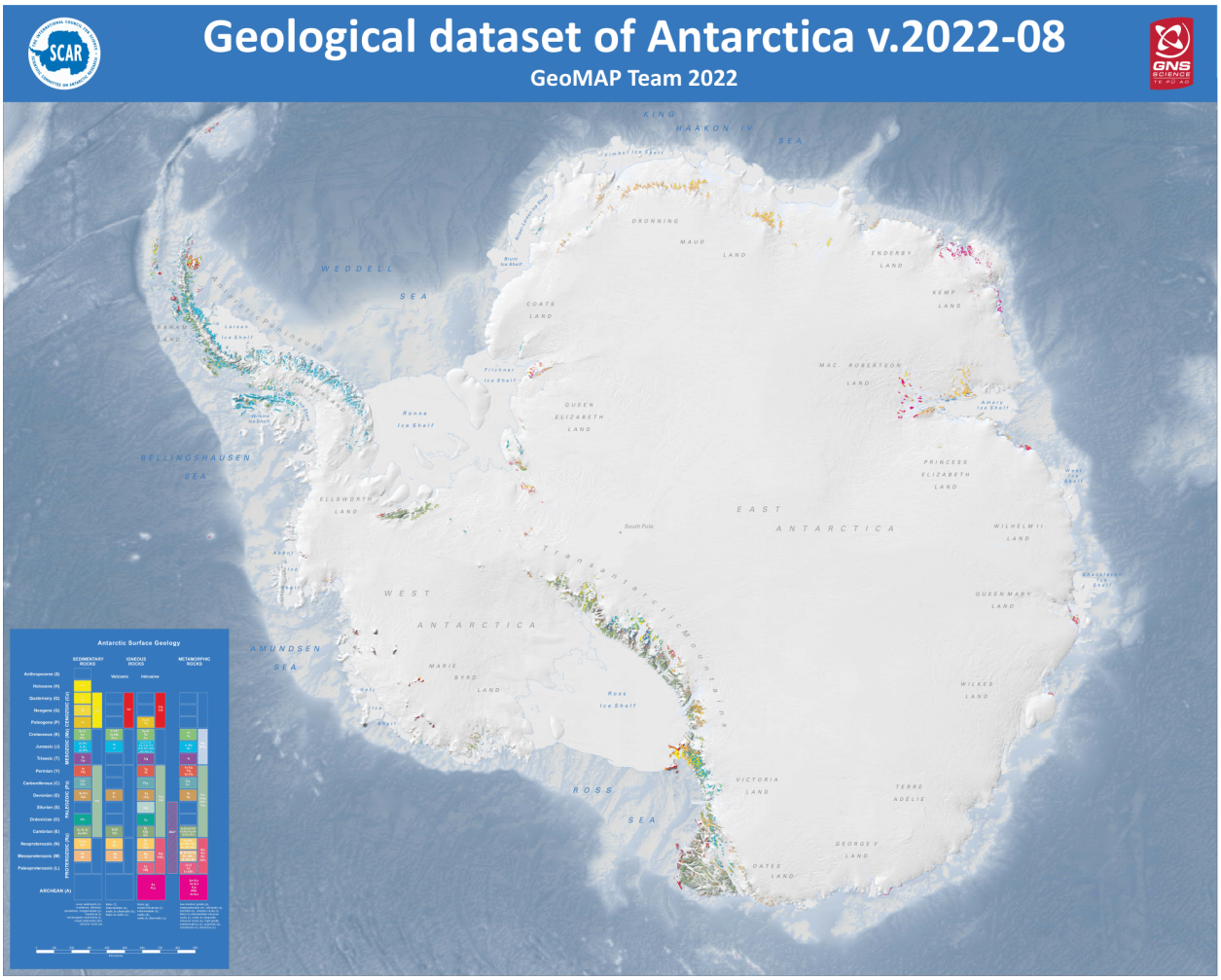
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4 Source Code **175**

CHAPTER

ONE

UNOFFICIAL DOCUMENTATION



1.1 Citation and Metadata

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). Lower Hutt, New Zealand. GNS Science. Release v.2022-08.

Metadata: doi:10.21420/7SH7-6K05

1.2 Documentation created by Sam Elkind

CHAPTER

TWO

LINKS TO GEOMAP RESOURCES

- SCAR GeoMAP Action Group homepage
- Antarctic Explorer
- View a Map of the Data Here
- Download the Data Here
- GeoMAP Metadata
- GeoSciML

CHAPTER

THREE

DOCUMENTATION PAGES

ATA_GeoMAP_geological_units:

- *Geology Field Glossary*

ATA_GeoMAP_legends:

- *Legends*

ATA_GeoMAP_sources:

- *Source Field Glossary*
- *Published Papers*
- *Published Maps*
- *GIS Datasets*
- *Theses*
- *Unpublished Works*
- *Unknown Works*

ATA_GeoMAP_faults:

- *Faults Field Glossary*

ATA_GeoMAP_quality:

- *Quality Field Glossary*

Restricted Value Lists:

- *Restricted Values*

3.1 Geological Units Field Glossary

3.1.1 MAPSYMBOL

- **Reference:** Restricted text that contains the unique code for this geologic unit. For GeoMAP the first letters will be Chronostratigraphic subdivision (AGECODE), then a Lithostratigraphic based on dominant types of rock then subordinate rocks (LITHCODE).
- **Type:** Text
- **Length:** 20.0
- **Field Values:** List of Values

- **GSA Alias:** mapSymbol
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 186
- **Most frequently occurring value:** KCzv
- **Number of values with a single occurrence:** 5

3.1.2 PLOTSYMBOL

- **Reference:** Restricted text that contains the code based on MAPSYMBOL that can be used to aggregate similar geological units to assign cartographic colour
- **Type:** Text
- **Length:** 20.0
- **Field Values:** List of Values
- **GSA Alias:** plotSymbol
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 198
- **Most frequently occurring value:** KCzv
- **Number of values with a single occurrence:** 6

3.1.3 NAME

- **Reference:** Free text containing name of the geologic unit and conforming to the GeoSciML usage of name.
- **Type:** Text
- **Length:** 255.0
- **GeoSciML Name:** name
- **GSA Alias:** name
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 789
- **Most frequently occurring value:** outcrop of unknown rock type
- **Number of values with a single occurrence:** 44

3.1.4 DESCR

- **Reference:** Free text that describes the geologic unit and conforming to the GeoSciML usage of description.
- **Type:** Text
- **Length:** 255.0
- **GeoSciML Name:** description
- **GSA Alias:** description
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 882
- **Most frequently occurring value:** Thick sequence of quartzose turbidite greywacke with silty rnudstone intercalations, locally quite similar to the Molar Formation sandstone.
- **Number of values with a single occurrence:** 50

3.1.5 POLYGTYPE

- **Reference:** Restricted text describing basic division of material (rock, moraine, ice).
- **Type:** Text
- **Length:** 20.0
- **Field Values:** List of Values
- **Source:** *Restricted List*
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 3
- **Most frequently occurring value:** rock
- **Number of values with a single occurrence:** 0

3.1.6 MBREQUIV

- **Reference:** Free text containing the stratigraphic name of the group member or member equivalent of which this member is part. Leave this field blank if not applicable.
- **Type:** Text
- **Length:** 100.0
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 37
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 6

3.1.7 FMNEQUIV

- **Reference:** Free text containing the stratigraphic name of the formation or formation equivalent of which this member is part. Leave this field blank if not applicable.
- **Type:** Text
- **Length:** 100.0
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 414
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 24

3.1.8 SBGRPEQUIV

- **Reference:** Free text containing the stratigraphic name of the subgroup or subgroup equivalent of which this member is part. Leave this field blank if not applicable.
- **Type:** Text
- **Length:** 100.0
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 7
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 0

3.1.9 GRPEQUIV

- **Reference:** Free text containing the stratigraphic name of the group or groups or equivalents of which this unit is a part. Leave this field blank if not applicable.
- **Type:** Text
- **Length:** 100.0
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 81
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 0

3.1.10 SPGRPEQUIV

- **Reference:** Free text containing the stratigraphic name of the supergroup or supergroups or equivalents of which this unit is a part. Leave this field blank if not applicable.
- **Type:** Text
- **Length:** 100.0
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 26
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 0

3.1.11 TERREQUIV

- **Reference:** Free text containing the terrane name or equivalent of which this unit is a part. Leave this field blank if not applicable.
- **Type:** Text
- **Length:** 100.0
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 30
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 1

3.1.12 STRATRANK

- **Reference:** Restricted text describing the stratigraphic rank of the geologic unit and conforming to the GeoSciML usage of rank.
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/cgi/stratigraphicrank
- **GeoSciML Name:** rank
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 13
- **Most frequently occurring value:** not specified

- **Number of values with a single occurrence:** 0

3.1.13 SIMPCODE

- **Reference:** Restricted number encoding SIMPCLASS and SIMPDESC.
- **Type:** Short
- **Field Values:** List of Values
- **Source:** *Restricted List*
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 21
- **Most frequently occurring value:** 63
- **Number of values with a single occurrence:** 0

3.1.14 SIMPCLASS

- **Reference:** Restricted text. Simplified, generally age related, subdivision of units.
- **Type:** Text
- **Length:** 120.0
- **Field Values:** List of Values
- **Source:** Governed by SIMPCODE
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 7
- **Most frequently occurring value:** Proterozoic-Paleozoic
- **Number of values with a single occurrence:** 0

3.1.15 SIMPDESC

- **Reference:** Restricted text. Simplified, generalised description of units.
- **Type:** Text
- **Length:** 120.0
- **Field Values:** List of Values
- **Source:** Governed by SIMPCODE
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 21
- **Most frequently occurring value:** High-grade metamorphic rock - orthogneiss, paragneiss, schist and amphibolite

- **Number of values with a single occurrence:** 0

3.1.16 TYPENAME

- **Reference:** Restricted text that describes the type of geologic unit and conforming to GeoSciML usage of geologicUnitType.
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **Source:** Must match entryname of TYPE_URI
- **GeoSciML Name:** geologicUnitType
- **GSA Alias:** geologicUnitType
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 5
- **Most frequently occurring value:** lithostratigraphic unit
- **Number of values with a single occurrence:** 0

3.1.17 TYPE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the geologicUnitType. Must be a valid URI from:
- **Type:** Text
- **Length:** 255.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/cgi/geologicunittype
- **GeoSciML Name:** geologicUnitType_uri
- **GSA Alias:** geologicUnitType_uri
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 5
- **Most frequently occurring value:** http://resource.geosciml.org/classifier/cgi/geologicunittype/lithostratigraphic_unit
- **Number of values with a single occurrence:** 0

3.1.18 LITHOLOGY

- **Reference:** Restricted text that describes the lithologies present and conforming to the GeoSciML usage of lithology.
- **Type:** Text
- **Length:** 150.0
- **Source:** Must match entryname of REPLITH_URI
- **GeoSciML Name:** lithology
- **GSA Alias:** lithology
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 440
- **Most frequently occurring value:** siltstone, sandstone
- **Number of values with a single occurrence:** 14

3.1.19 REPLITH_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the lithology that best represents this unit. Must be a valid URI from:
- **Type:** Text
- **Length:** 255.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/cgi/lithology
- **GeoSciML Name:** representativeLithology_uri
- **GSA Alias:** representativeLithology_uri
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 89
- **Most frequently occurring value:** http://resource.geosciml.org/classifier/cgi/lithology/metamorphic_rock
- **Number of values with a single occurrence:** 3

3.1.20 GEOLHIST

- **Reference:** Free text that describes the stratigraphic age range of the geologic unit and conforming to the GeoSciML usage of geologicHistory.
- **Type:** Text
- **Length:** 255.0
- **Field Values:** List of Values
- **GeoSciML Name:** geologicHistory

- **GSA Alias:** geologicHistory
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 112
- **Most frequently occurring value:** Cambrian to Ordovician
- **Number of values with a single occurrence:** 0

3.1.21 REPAGE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the stratigraphic age that best represents this unit. Must be a URI from:
- **Type:** Text
- **Length:** 255.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/ics/ischart/GeochronologicEras
- **GeoSciML Name:** representativeAge_uri
- **GSA Alias:** representativeAge_uri
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 43
- **Most frequently occurring value:** http://resource.geosciml.org/classifier/ics/ischart/Mesozoic
- **Number of values with a single occurrence:** 0

3.1.22 YNGAGE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the stratigraphic age that best represents the youngest part of this unit. Must be a URI from:
- **Type:** Text
- **Length:** 255.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/ics/ischart/GeochronologicEras
- **GeoSciML Name:** representativeYoungerAge_uri
- **GSA Alias:** representativeYoungerAge_uri
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 54
- **Most frequently occurring value:** http://resource.geosciml.org/classifier/ics/ischart/Miocene
- **Number of values with a single occurrence:** 1

3.1.23 OLDAGE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the stratigraphic age that best represents the oldest part of this unit. Must be a URI from:
- **Type:** Text
- **Length:** 255.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/ics/ischart/GeochronologicEras
- **GeoSciML Name:** representativeOlderAge_uri
- **GSA Alias:** representativeOlderAge_uri
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 57
- **Most frequently occurring value:** http://resource.geosciml.org/classifier/ics/ischart/Jurassic
- **Number of values with a single occurrence:** 1

3.1.24 ABSMIN_MA

- **Reference:** Number that gives the absolute minimum age (in millions of years) of the geologic unit as determined by radiometric dating or assigned on the basis of stratigraphy.
- **Type:** Double
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 131
- **Most frequently occurring value:** 0.0
- **Number of values with a single occurrence:** 4

3.1.25 ABSMAX_MA

- **Reference:** Number that gives the absolute maximum age (in millions of years) of the geologic unit as determined by radiometric dating or assigned on the basis of stratigraphy.
- **Type:** Double
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 146
- **Most frequently occurring value:** 201.3
- **Number of values with a single occurrence:** 3

3.1.26 AGECODE

- **Reference:** Restricted text identifying Chronographic subdivision of unit. Used in conjunction with LITHCODE to encode MAPSYMBOL.
- **Type:** Text
- **Length:** 10.0
- **Field Values:** List of Values
- **Source:** *Restricted List*
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 50
- **Most frequently occurring value:** JK
- **Number of values with a single occurrence:** 1

3.1.27 LITHCODE

- **Reference:** Restricted text identifying dominant lithology of unit. Used in conjunction with AGECODE to encode MAPSYMBOL.
- **Type:** Text
- **Length:** 10.0
- **Field Values:** List of Values
- **Source:** *Restricted List*
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 26
- **Most frequently occurring value:** n
- **Number of values with a single occurrence:** 0

3.1.28 SOURCECODE

- **Reference:** The code used on original published maps and datasets, or originators source material.
- **Type:** Text
- **Length:** 20.0
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 993
- **Most frequently occurring value:** Rb
- **Number of values with a single occurrence:** 65

3.1.29 SOURCE

- **Reference:** Free text that contains information on the source of the geologic unit and conforming to the GeoSciML usage of source.
- **Type:** Text
- **Length:** 300.0
- **Field Values:** List of Values
- **GeoSciML Name:** source
- **GSA Alias:** source
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 234
- **Most frequently occurring value:** Smellie 2021
- **Number of values with a single occurrence:** 4

3.1.30 OBSMETHOD

- **Reference:** Restricted text that describes the method of observation used to capture the geologic unit and conforming to the GeoSciML usage of observationMethod. Must match entryname of URI at:
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/cgi/featureobservationmethod
- **GeoSciML Name:** observationMethod
- **GSA Alias:** observationMethod
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 8
- **Most frequently occurring value:** synthesis from multiple sources
- **Number of values with a single occurrence:** 0

3.1.31 CONFIDENCE

- **Reference:** Free text that provides a statement concerning the accuracy of the data provided in associated fields. Fields which contain data about which there is uncertainty are listed.
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **GSA Alias:** identityConfidence

- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 268
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 18

3.1.32 POSACC_M

- **Reference:** An estimate of the accuracy (in metres) within which the geologic unit has been located and conforming to the GeoSciML usage of positionalAccuracy.
- **Type:** Long
- **Field Values:** List of Values
- **GeoSciML Name:** positionalAccuracy
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:** 250
- **Number of values with a single occurrence:** 0

3.1.33 METADATA

- **Reference:** Free text that contains a link to metadata for this feature class and conforming to the GeoSciML usage of metadata.
- **Type:** Text
- **Length:** 255.0
- **Field Values:** List of Values
- **GeoSciML Name:** metadata_uri
- **GSA Alias:** metadata_uri
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:** https://data.gns.cri.nz/metadata/srv/eng/catalog.search#/metadata/600C1153-7C74-447A-98AC-DEE65C130170
- **Number of values with a single occurrence:** 0

3.1.34 FEATUREID

- **Reference:** Globally unique identifer for the geologic unit and conforming to the GeoSciML usage of identifier. (e.g. ATA_GeoMAP_geological_units_00071)
- **Type:** Text
- **Length:** 255.0
- **GeoSciML Name:** identifier
- **GSA Alias:** mappedFeatureID
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 99080
- **Most frequently occurring value:** ATA_GeoMAP_geological_units_00001
- **Number of values with a single occurrence:** 99080

3.1.35 REGION

- **Reference:** Restricted text. Very broad differentiation of geographical area.
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **Source:** Choose from: East Antarctica or West Antarctica
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 2
- **Most frequently occurring value:** East Antarctica
- **Number of values with a single occurrence:** 0

3.1.36 TECTPROV

- **Reference:** Restricted text. Differentiation of geographical area based on "tectonic provinces and boundaries" from Siddoway, 2020 (Encyclopedia of Geology, 2nd edition, Ch 3).
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **Source:** *Restricted List*
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 14
- **Most frequently occurring value:** Antarctic Peninsula

- **Number of values with a single occurrence:** 0

3.1.37 RESSCALE

- **Reference:** Resolution at which the geologic unit is intended to be used.
- **Type:** Long
- **Length:** 4.0
- **Field Values:** List of Values
- **GSA Alias:** resolutionScale
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 5
- **Most frequently occurring value:** 250000
- **Number of values with a single occurrence:** 0

3.1.38 CAPTSCALE

- **Reference:** Resolution at which the geologic unit was captured.
- **Type:** Long
- **Length:** 4.0
- **Field Values:** List of Values
- **GSA Alias:** captureScale
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 3
- **Most frequently occurring value:** 50000
- **Number of values with a single occurrence:** 0

3.1.39 CAPTDATE

- **Reference:** Date when the geologic unit was added to this dataset.
- **Type:** Date
- **Length:** 8.0
- **Field Values:** List of Values
- **GSA Alias:** captureDate
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 24

- **Most frequently occurring value:** 2017-07-26T00:00:00+00:00
- **Number of values with a single occurrence:** 0

3.1.40 MODDATE

- **Reference:** Date when the geologic unit was last modified.
- **Type:** Date
- **Length:** 8.0
- **Field Values:** List of Values
- **GSA Alias:** modifiedDate
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 40
- **Most frequently occurring value:** 2022-04-11 00:00:00+00:00
- **Number of values with a single occurrence:** 3

3.1.41 SPEC_URI

- **Reference:** Text that contains a link referring to the GeoSciML GeologicalUnit feature that describes the instance in detail. If missing shall be:
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **Source:** http://www.opengis.net/def/nil/OGC/0/missing
- **GeoSciML Name:** specification_uri
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 2
- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/missing
- **Number of values with a single occurrence:** 0

3.1.42 SYMBOL

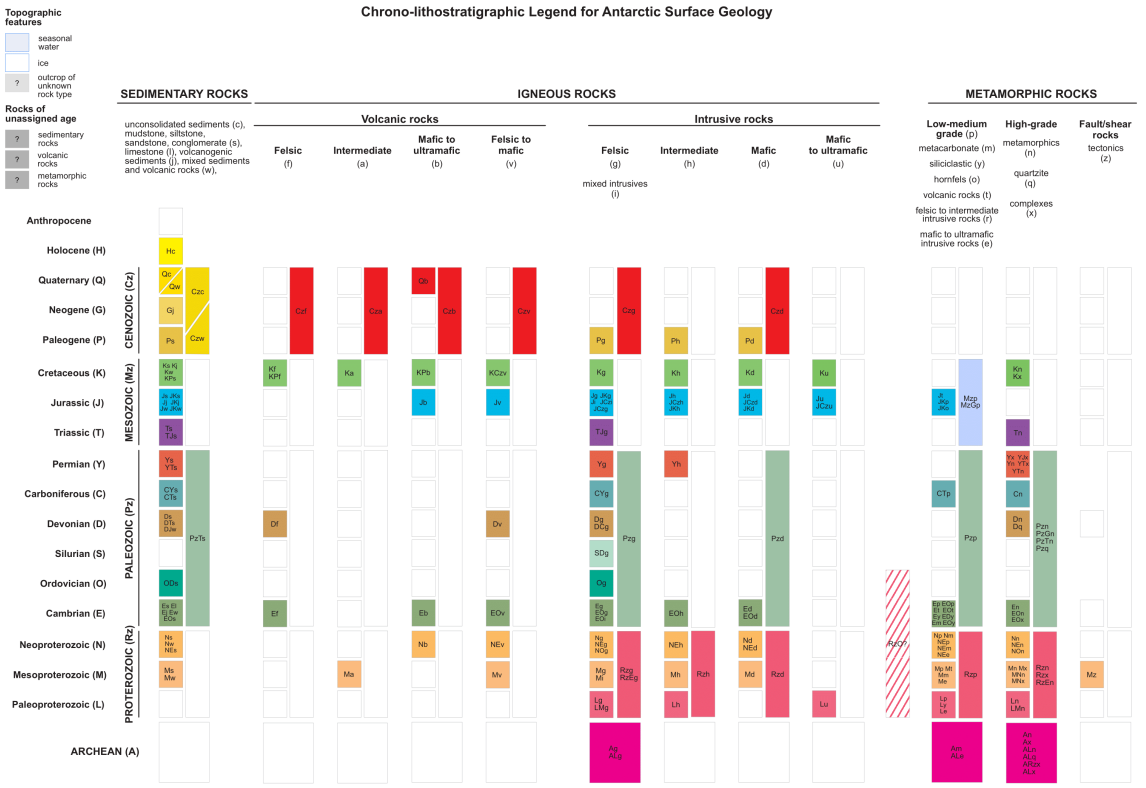
- **Reference:** Restricted text containing an identifier for a symbol from standard symbolization scheme for use in GeoSciML portrayal.
- **Type:** Text
- **Length:** 12.0
- **Field Values:** List of Values
- **Source:** Governed by MAPSYMBOL

- **GeoSciML Name:** genericSymbolizer
- **fieldSource:** GeoSciML

More Information:

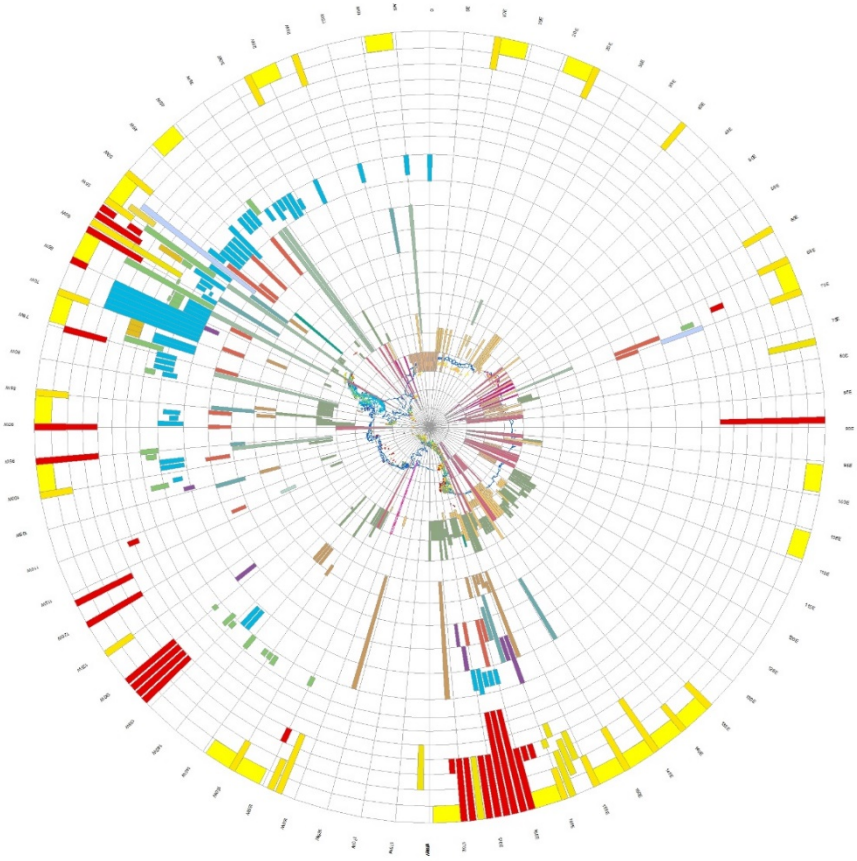
- **Unique Values:** 184
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 5

3.2 Chrono-lithostratigraphic Legend

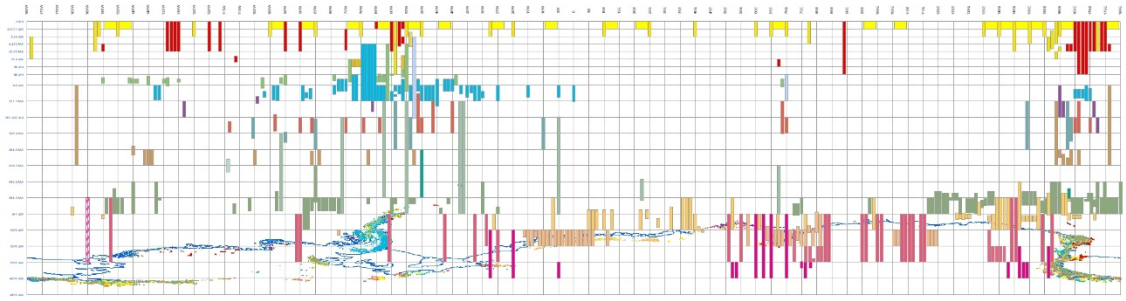


3.3 Chrono-spatial Legend

3.3.1 Antarctic Polar Stereographic



3.3.2 WSG 84 Projection



A new feature of v.2022-08 is the addition of a chrono-spatial legend portrayed as a time-space diagram. The ESRI geodatabase and QGIS geopackages have a feature dataset ATA_GeoMAP_Legend containing geological units, a chronostratigraphic grid and annotation. The vector data spatially represents a geological legend illustrating the exposed rock outcrop and covering sediments of Antarctica in dimensions of time and longitude, using a representative age and type of rock in the approximate location that the exposure occurs. Each unit on the legend is coloured by geologic unit devised for this GeoMAP compilation but also records the code used on the original published map or dataset in the attribute field named SOURCECODE. As the name implies, the chrono-spatial legend, or time-space, diagram is a graph showing the spatial location of objects as a function of time. As is the usual convention in a geological legend, time runs up the diagram equivalent to a Y-axis, so the bottom is the past, or early times, and the top is the future, or late times. The lines of longitude form an X-axis and provide the geographic context to anchor the features in the legend layer. This geological legend was constructed using EPSG:4978 (WGS 84) coordinate system, but this legend and the associated geological layers are suitable for projection in other coordinate systems.Popular GIS software packages, such as ArcGIS and QGIS allow a user to project geospatial layers “on the fly”. Once the geological legend is loaded in a map project, by changing the coordinate system in the map properties, it is possible to see the spatial context of different rock ages from a different perspective. A user might switch between EPSG:4978 (WGS 84) or EPSG:3031 (WGS 84/Antarctic Polar Stereographic) or EPSG:3832 (WGS 84/PDC Mercator) coordinate systems to gain an appreciation of the geological age variation around the continent.

3.4 Ages and Age codes

3.4.1 ARCHEAN (A)

3.4.2 PROTEROZOIC (Rz)

- Paleoproterozoic (L)
- Mesoproterozoic (M)
- Neoproterozoic (N)

3.4.3 PALEOZOIC (Pz)

- Cambrian (E)
- Ordovician (O)
- Silurian (S)
- Devonian (D)
- Carboniferous (C)
- Permian (Y)

3.4.4 MESOZOIC (Mz)

- Triassic (T)
- Jurassic (J)
- Cretaceous (K)

3.4.5 CENOZOIC (Cz)

- Paleogene (P)
- Neogene (G)
- Quaternary (Q)
- Holocene (H)
- Uncertain (?)

3.5 Lithologies and Lith codes

3.5.1 SEDIMENTARY ROCKS:

- unconsolidated sediments (c)
- mudstone, siltstone, sandstone, conglomerate (s)
- limestone (l)
- volcanogenic sediments (j)
- mixed sediments and volcanic rocks (w)

3.5.2 VOLCANIC ROCKS:

- felsic (f)
- intermediate (a)
- mafic to ultramafic (b)
- felsic to mafic (v)

3.5.3 INTRUSIVE ROCKS:

- felsic (g)
- mixed intrusives (i)
- intermediate (h)
- mafic (d)
- mafic to ultramafic (u)

3.5.4 METAMORPHIC ROCKS:

- Low-medium grade (p)
  - metacarbonate (m)
  - siliciclastic (y)
  - hornfels (o)
  - volcanic rocks (t)
  - felsic to intermediate intrusive rocks (r)
  - mafic to ultramafic (e)
- High-grade (n)
  - quartzite (q)
  - complexes (x)
- Fault/Shear rocks
  - tectonics(z)

3.5.5 OTHER:

- Unknown (?)

3.6 Sources Field Glossary

3.6.1 IDENTIFIER

- **Reference:** Free text consisting of authors and the year of publication that is unique to a published work.
- **Type:** String
- **Length:** 64
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 497
- **Most frequently occurring value:** LeMasurier & Thomson 1990
- **Number of values with a single occurrence:** 459

3.6.2 TITLE

- **Reference:** Free text that contains title of a the source material, generally a geological or geophysical map, or a figure in a journal article.
- **Type:** String
- **Length:** 256
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 502
- **Most frequently occurring value:** Volcanoes of the Antarctic Plate and Southern Oceans
- **Number of values with a single occurrence:** 468

3.6.3 AUTHORS

- **Reference:** Free text containing list of authors for the source material.
- **Type:** String
- **Length:** 256
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 440
- **Most frequently occurring value:** LeMasurier W.E., Thomson J.W.
- **Number of values with a single occurrence:** 379

3.6.4 PUBLICATION

- **Reference:** Free text noting the journal or publishing organization of the source. Includes specific page and figure numbers where applicable.
- **Type:** String
- **Length:** 254
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 461
- **Most frequently occurring value:** Unpublished M.Sc. thesis
- **Number of values with a single occurrence:** 434

3.6.5 INSTITUTION

- **Reference:** Free text noting the institution affiliated with the publication or authors.
- **Type:** String
- **Length:** 64
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 114
- **Most frequently occurring value:** USARP
- **Number of values with a single occurrence:** 59

3.6.6 SCALE

- **Reference:** Denominator of scale of publication of source material
- **Type:** Integer
- **Length:** 4
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 110
- **Most frequently occurring value:** 250000.0
- **Number of values with a single occurrence:** 56

3.6.7 YEAR

- **Reference:** Year of publication of source material.
- **Type:** Integer
- **Length:** 2
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 64
- **Most frequently occurring value:** 1990
- **Number of values with a single occurrence:** 5

3.6.8 PUBTYPE

- **Reference:** Free text noting type or format of source material.
- **Type:** String
- **Length:** 32
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 8
- **Most frequently occurring value:** Published paper
- **Number of values with a single occurrence:** 0

3.6.9 NATPROG

- **Reference:** Free text noting the country hosting the institution publishing the source material or country where source was published.
- **Type:** String
- **Length:** 150
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 21
- **Most frequently occurring value:** USA
- **Number of values with a single occurrence:** 4

3.6.10 METADATA

- **Reference:** Free text that contains a link to metadata for this feature class and conforming to the GeoSciML usage of metadata.
- **Type:** String
- **Length:** 254
- **Field Values:** List of Values
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:** https://data.gns.cri.nz/metadata/srv/eng/catalog.search#/metadata/E93FE4EA-5B0D-4D99-8A01-864370931CAA
- **Number of values with a single occurrence:** 0

3.6.11 RESSCALE

- **Reference:** Resolution at which the feature is intended to be used.
- **Type:** Integer
- **Length:** 4
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 105
- **Most frequently occurring value:** 250000.0
- **Number of values with a single occurrence:** 54

3.6.12 CAPTSCALE

- **Reference:** Resolution at which the feature was captured.
- **Type:** Integer
- **Length:** 4
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 22
- **Most frequently occurring value:** 100000
- **Number of values with a single occurrence:** 12

3.6.13 CAPTDATE

- **Reference:** Date when the feature was added to this dataset.
- **Type:** Date
- **Length:** 8
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 36
- **Most frequently occurring value:** 2015-06-01 00:00:00+00:00
- **Number of values with a single occurrence:** 14

3.6.14 MODDATE

- **Reference:** Date when the feature was last modified.
- **Type:** Date
- **Length:** 8
- **Field Values:** List of Values
- **fieldSource:** GMNZ

More Information:

- **Unique Values:** 34
- **Most frequently occurring value:** 2019-07-17 00:00:00+00:00
- **Number of values with a single occurrence:** 14

3.6.15 FEATUREID

- **Reference:** Globally unique identifer for the feature and conforming to the GeoSciML usage of identifier. (e.g. ATA_GeoMAP_sources_00215)
- **Type:** String
- **Length:** 150
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 589
- **Most frequently occurring value:** ATA_GeoMAP_sources_00001
- **Number of values with a single occurrence:** 589

3.6.16 SPEC_URI

- **Reference:** Text that contains a link referring to the GeoSciML GeologicalUnit feature that describes the instance in detail. If missing shall be:
- **Type:** String
- **Length:** 150
- **Field Values:** List of Values
- **Source:** http://www.opengis.net/def/nil/OGC/0/missing
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/missing
- **Number of values with a single occurrence:** 0

3.6.17 SYMBOL

- **Reference:** Restricted text containing an identifier for a symbol from standard symbolization scheme for use in GeoSciML portrayal.
- **Type:** String
- **Length:** 12
- **Field Values:** List of Values
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 0

3.7 Published Paper Works Referenced

3.7.1 Ackert et al. 1999

Google Scholar Link

Bibtex citation

```
@article{Ackert1999Measurements,
  title={Measurements of past ice sheet elevations in interior West Antarctica},
  authors={Ackert, RP and Barclkay, DJ and Borns, HW and Calkin, PE and Kurz, MD and
↪Fastook, JL and Steig, EJ},
  journal={Science 286: 276-280},
  year={1999}
}
```

3.7.2 Adams 1986

Google Scholar Link

Bibtex citation

```
@article{Adams1986Geochronological,
  title={Geochronological studies of the Swanson Formation of Marie Byrd Land, West
↪Antarctica, and correlation with NVL, East Antarctica, and South Island NZ},
  authors={Adams, CJ},
  journal={NZJGG 29(3): 345-358},
  year={1986}
}
```

3.7.3 Allen & Gibson 1962

Google Scholar Link

Bibtex citation

```
@article{Allen1962Geological,
  title={Geological investigations in southern Victoria Land, Antarctica: Part 6 -
↪Outline of the geology of the Victoria Valley region},
  authors={Allen, AD and Gibson, GW},
  journal={NZJGG 5(2): 234-242},
  year={1962}
}
```

3.7.4 Angino et al. 1962

Google Scholar Link

Bibtex citation

```
@article{Angino1962Reconnaissance,
  title={Reconnaissance geology of the lower Taylor Valley, Victoria Land, Antarctica}
↪,
  authors={Angino, EE and Turner, MD and Zeller, EJ},
  journal={GSA Bulletin 73(12):1553-1562},
  year={1962}
}
```

3.7.5 Atkins et al. 2002

Google Scholar Link

Bibtex citation

```
@article{Atkins2002Coldglaciers,
  title={Cold glaciers erode and deposit: Evidence from Allan Hills, Antarctica},
  authors={Atkins, CB and Barrett, PJ and Hicock, SR},
  journal={Geology 30(7): 659-662},
  year={2002}
}
```

3.7.6 Ballance 1977

Google Scholar Link

Bibtex citation

```
@article{Ballance1977TheBeacon,
  title={The Beacon Supergroup in the Allan Hills, central Victoria Land, Antarctica},
  authors={Ballance, PF},
  journal={NZJGG 20(6): 1003-1016},
  year={1977}
}
```

3.7.7 Ballance & Watters 1971

Google Scholar Link

Bibtex citation

```
@article{Ballance1971Mawsondiamictite,
  title={Mawson diamictite and the Carapace sandstone, formations of the Ferrar Group␣
↪at Allan Hills and Carapace Nunatak, Victoria Land},
  authors={Ballance, PF and Watters, WA},
  journal={NZJGG 14:512-527},
  year={1971}
}
```

3.7.8 Baroni & Hall 2004

Google Scholar Link

Bibtex citation

```
@article{Baroni2004AnewHolocene,
  title={A new Holocene relative sea-level curve for Terra Nova Bay, Victoria Land,␣
↪Antarctica},
  authors={Baroni, C and Hall, B},
  journal={Journal of Quaternary Science 19(4): 377-396},
  year={2004}
}
```

3.7.9 Baroni & Orombelli 1994

Google Scholar Link

Bibtex citation

```
@article{Baroni1994Holocene,
  title={Holocene glacier variations in the Terra Nova Bay area (Victoria Land,␣
↪Antarctica)},
  authors={Baroni, C and Orombelli, G},
  journal={Antarctic Science 6(4): 497-505 Fig.3},
  year={1994}
}
```

3.7.10 Baroni et al. 2008

Google Scholar Link

Bibtex citation

```
@article{Baroni2008TheRicker,
  title={The Ricker Hills Tillite provides evidence of Oligocene warm-based
↪glaciation in Victoria Land, Antarctica},
  authors={Baroni, C and Fasano, F and Giorgetti, G and Salvatore, MC and Ribeccai, C}
↪,
  journal={Global and Planetary Change 60:457-470},
  year={2008}
}
```

3.7.11 Barrett 1965

Google Scholar Link

Bibtex citation

```
@article{Barrett1965Geology,
  title={Geology of the area between the Axel Heiberg and Shackleton Glaciers, Queen
↪Maud Range, Antarctica. Part 2 Beacon Group},
  authors={Barrett, PJ},
  journal={NZJGG 8: 344-370},
  year={1965}
}
```

3.7.12 Barrett et al. 1984

Google Scholar Link

Bibtex citation

```
@article{Barrett1984Geological,
  title={Geological map of Shapeless Mountain},
  authors={Barrett, PJ and Andrews, JM and Korsch, RJ},
  journal={NZJGG 27:487-504 Appendix 1},
  year={1984}
}
```

3.7.13 Barrett et al. 1995

Google Scholar Link

Bibtex citation

```
@article{Barrett1995Geology,
  title={Geology of the margin of the Victoria Land basin off Cape Roberts, Southwest
↪Ross Sea},
  authors={Barrett, PJ and et, al},
  journal={Antarctic Research Series Vol 68 183-207 Fig.12},
```

(continues on next page)

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```
  year={1995}
}
```

3.7.14 Barrett et al. 1998

Google Scholar Link

Bibtex citation

```
@article{Barrett1998Initial,
  title={Initial report on CRP-1 Cape Roberts Project Antarctica},
  authors={Barrett, PJ and Fielding, C and Wise, SW(eds)},
  journal={Terra Antarctica 5(1) Fig.6},
  year={1998}
}
```

3.7.15 Bentley et al. 2017

Google Scholar Link

Bibtex citation

```
@article{Bentley2017Deglacial,
  title={Deglacial history of the Pensacola Mountains, Antarctiuca from glacial␣
↪geomorphology and cosmogenic nuclide surface exposure dating},
  authors={Bentley, MJ and Hein, AS and Sugden, DE and Whitehouse, PL and Shanks, R␣
↪and Xu, S and Freeman, SPHT},
  journal={Quaternary Science Reviews 158: 58-76},
  year={2017}
}
```

3.7.16 Bingham et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Bingham2012Inlandthinning,
  title={Inland thinning of West Antarctic Ice Sheet steered along subglacial rifts},
  authors={Bingham, RGFerraccioliFKingECLarterRDPritchardHDSmithAM and Vaughan, DG},
  journal={Nature, 487: 468-471, Fig 1D},
  year={2012}
}
```

3.7.17 Blank et al. 1963

Google Scholar Link

Bibtex citation

```
@article{Blank1963Geology,
  title={Geology of the Koettlitz and Blue Glacier region, Southern Victoria Land,␣
↪Antarctica},
  authors={Blank, HR and Cooper, RA and Willis, IAG},
  journal={Trans Roy Soc NZ 2:79-100},
  year={1963}
}
```

3.7.18 Blight & Oliver 1977

Google Scholar Link

Bibtex citation

```
@article{Blight1979Themetamorphic,
  title={The metamorphic geology of the Windmill Islands, Antarctica: A preliminary␣
↪account},
  authors={Blight, DF and Oliver, RL},
  journal={Australian Journal of Earth Sciences 42(5): 453-469 Fig.1},
  year={1979}
}
```

3.7.19 Bockheim et al. 1989

Google Scholar Link

Bibtex citation

```
@article{Bockheim1989LateQuaternary,
  title={Late Quaternary Ice Surface Fluctuations of Hatherton Glacier,␣
↪Transantarctic Mountains},
  authors={Bockheim, JG and Wilson, SC and Denton, GH and Andersen, BG and Stuiver, M}
↪,
  journal={Quaternary Research 31:229-254 Fig. 4},
  year={1989}
}
```

3.7.20 Bockheim et al. 2008

Google Scholar Link

Bibtex citation

```
@article{Bockheim1973Distribution,
  title={Distribution of glacial deposits soils and permafrost in Taylor Valley␣
↪Antarctica},
  authors={Bockheim, JG and Prentice, ML and McLeod, M},
```

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```
  journal={Arctic Antarctic and Alpine Research 40(2):279-286},
  year={1973}
}
```

3.7.21 Borg et al. 1990

Google Scholar Link

Bibtex citation

```
@article{Borg1990Isotopic,
  title={Isotopic structure and tectonics of the Transantarctic Mountains},
  authors={Borg, SG and De, PaoloDJ and Smith, BM},
  journal={JGR 95 (B5): 6647-6667},
  year={1990}
}
```

3.7.22 Bowser et al. 1970

Google Scholar Link

Bibtex citation

```
@article{Bowser1970Geochemical,
  title={Geochemical evidence for the origin of mirabilite deposits near Hobbs␣
↪Glacier, Victoria Land, Antarctica},
  authors={Bowser, CJ and Rafter, TA and Black, RF},
  journal={Mineral Soc Amer Spec Paper 3: 261-272},
  year={1970}
}
```

3.7.23 Bradshaw 1987

Google Scholar Link

Bibtex citation

```
@article{Bradshaw1987Additional,
  title={Additional field interpretation of the Jurassic sequence at Carapace Nunatak␣
↪and Coombs Hills, south Victoria Land, Antarctica},
  authors={Bradshaw, MA},
  journal={NZJGG 30:37-50},
  year={1987}
}
```

3.7.24 Bromley et al. 2010

Google Scholar Link

Bibtex citation

```
@article{Bromley2010LateCenozoic,
  title={Late Cenozoic deposits at Reedy Glacier, Transantarctic Mountains:␣
↪implications for former thickness of the WAIS},
  authors={Bromley, GRM and Hall, BL and Stone, JO and Conway, H and Todd, CE},
  journal={Quaternary Science Reviews 29: 384-398 Fig.8},
  year={2010}
}
```

3.7.25 Bromley et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Bromley2012LatePleistocene,
  title={Late Pleistocene evolution of Scott Glacier, southern Transantarctic␣
↪Mountains: implications for the Antarctic contribution to deglacial sea level},
  authors={Bromley and G.R.M and Hall and B.L and Stone and J.O and Conway, H},
  journal={Quaternary Science Reviews 50 (2012): 1-12, Fig.7},
  year={2012}
}
```

3.7.26 Brook 1972

Google Scholar Link

Bibtex citation

```
@article{Brook1972Statigraphy,
  title={Statigraphy of the Theron Mountains},
  authors={Brook, D},
  journal={British Antarctic Survey Bulletin 29: 67-90},
  year={1972}
}
```

3.7.27 Bull et al. 1962

Google Scholar Link

Bibtex citation

```
@article{Bull1962Quaternary,
  title={Quaternary glaciations in southern Victoria Land, Antarctica},
  authors={Bull, S and McKelvey, BC and Webb, PN},
  journal={Journal of Glaciology 4(31):63-78},
  year={1962}
}
```

3.7.28 Burgess et al. 1981

Google Scholar Link

Bibtex citation

```
@article{Burgess1981Thegeology,
  title={The geology of the Fry Glacier area, South Victoria Land, Antarctica, with␣
↪particular reference to the Taylor Group},
  authors={Burgess, CJ and Palmer, A and Anderson, JM},
  journal={NZJGG 24:373-388 Fig.1},
  year={1981}
}
```

3.7.29 Burton-Johnson & Riley 2015

Google Scholar Link

Bibtex citation

```
@article{Burton-Johnson2015Autochthonous,
  title={Autochthonous v. accreted terrane development of continental margins: a␣
↪revised in situ tectonic history of the Antarctic Peninsula},
  authors={Burton-Johnson and A and Tiley and T.R},
  journal={Journal of the Geological Society, 172, 822-835},
  year={2015}
}
```

3.7.30 Clapperton 1990

Google Scholar Link

Bibtex citation

```
@article{Clapperton1990Quaternary,
  title={Quaternary glaciations in the Southern Ocean and Antarctic Peninsula area},
  authors={Clapperton, CM},
  journal={Quaternary Science Reviews},
  year={1990}
}
```

3.7.31 Clarkson 1982

Google Scholar Link

Bibtex citation

```
@article{Clarkson1982Geology,
  title={Geology of the Shackleton Range: I: the Shackleton Range metamorphic complex;
↪ Figure 1 },
  authors={Clarkson and P.D},
  journal={British Antarctic Survey Bulletin; No. 51},
  year={1982}
}
```

3.7.32 Clayton-Greene et al. 1988

Google Scholar Link

Bibtex citation

```
@article{Clayton-Greene1988Chronology,
  title={Chronology of a Wisconsin age proglacial lake in Miers Valley, Antarctica},
  authors={Clayton-Greene, JM and Hendy, CH and Hogg, AG},
  journal={NZJGG 31: 353-361},
  year={1988}
}
```

3.7.33 Cochran et al. 2015

Google Scholar Link

Bibtex citation

```
@article{Cochran2015AbbotIce,
  title={Abbot Ice Shelf, structure of the Amundsen Sea continental margin and the␣
↪southern boundary of the Bellingshausen Plate seaward of West Antarctica},
  authors={Cochran, JRTintoKJ and Bell, RE},
  journal={Geochemistry Geophysics Geosystems, doi:10.1002/2014GC005570},
  year={2015}
}
```

3.7.34 Cole & Ewart 1968

Google Scholar Link

Bibtex citation

```
@article{Cole1968Contributions,
  title={Contributions to the volcanic geology of the Black Island, Brown Peninsula,␣
↪and Cape Bird areas, McMurdo Sound, Antarctica},
  authors={Cole, JW and Ewart, A},
  journal={NZJGG 11(4):793-828},
  year={1968}
}
```

3.7.35 Cole et al. 1971

Google Scholar Link

Bibtex citation

```
@article{Cole1971Contributions,
  title={Contributions to Quaternary Geology of Cape Crozier, White Island and Hut␣
↪Point Peninsula, McMurdo Sound Region, Antarctica},
  authors={Cole, JW and Kyle, PR and Neall, VE},
  journal={NZJGG 14:528-546; Fig.3},
  year={1971}
}
```

3.7.36 Colhoun & Adamson 1992

Google Scholar Link

Bibtex citation

```
@article{Coulhoun1992Raisedbeaches,
  title={Raised beaches of the Bunger Hills, Antarctica},
  authors={Coulhoun and E.A and Adamson and D.A},
  journal={ANARE Reports 136 Figs. 3,8,15,16,19},
  year={1992}
}
```

3.7.37 Cook 1991

Google Scholar Link

Bibtex citation

```
@article{Cook1991Deformation,
  title={Deformation in the St Johns Range, Southern Victoria Land},
  authors={Cook, YA},
  journal={NZ Antarctic Record 11(1):19-35},
  year={1991}
}
```

3.7.38 Cook 2007

Google Scholar Link

Bibtex citation

```
@article{Cook2007Precambrian,
  title={Precambrian rift-related magmatism and sedimentation, south Victoria Land,␣
↪Antarctica},
  authors={Cook, YA},
  journal={Antarctic Science 19(4): 471-484},
  year={2007}
}
```

3.7.39 Cottle & Cooper 2006a

Google Scholar Link

Bibtex citation

```
@article{Cottle2006TheFontaine,
  title={The Fontaine Pluton: an early Ross Orogeny calc-alkaline gabbro from␣
↪southern Victoria Land, Antarctica},
  authors={Cottle, JM and Cooper, AF},
  journal={NZJGG 49: 177-189},
  year={2006}
}
```

3.7.40 Craddock et al. 2017

Google Scholar Link

Bibtex citation

```
@article{Craddock2017Precise,
  title={Precise U-Pb zircon ages and geochemistry of Jurassic granites, Ellsworth-
↪Whitmore terrane, central Antarctica},
  authors={Craddock, JP and Schmidtz, MD and Crowley, JL and Larocque, J and␣
↪Pankhurst, RJ and Juda, N and Konstantinou, A and Story, B},
  journal={GSA Bulletin 129(1/2):118-136 Suppl. Mat. Appendix 5},
  year={2017}
}
```

3.7.41 Curtis 2001

Google Scholar Link

Bibtex citation

```
@article{Curtis2001Tectonic,
  title={Tectonic history of the Ellsworth Mountains, West Antarctica: Reconciling a␣
↪Gondwana enigma},
  authors={Curtis, ML},
  journal={GSA Bulletin 113(7): 939-958, Fig.9},
  year={2001}
}
```

3.7.42 Dahl & Palmer 1981

Google Scholar Link

Bibtex citation

```
@article{Dahl1981Fieldstudy,
  title={Field study of orbicular rocks in Taylor Valley, southern Victoria Land},
  authors={Dahl, PS and Palmer, DF},
  journal={Antarctic Journal of US 1981 Review: 41-47},
  year={1981}
}
```

3.7.43 Davies et al. 2013

Google Scholar Link

Bibtex citation

```
@article{Davies2013Landscape,
  title={Landscape evolution and ice-sheet behaviour in a semi-arid polar␣
↪environment: James Ross Island, NE Antarctic Peninsula},
  authors={Davies, BJ and Glassere, NF and Carrivick, JL and Hambrey, MJ and Smellie,␣
↪JL and Nyvlt, D},
```

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```
  journal={Geological Soc of London Special Publication 381: 353-395, Fig.2},
  year={2013}
}
```

3.7.44 Denton & Marchant 2000

Google Scholar Link

Bibtex citation

```
@article{Denton2000Thegeologic,
  title={The geologic basis for a reconstruction of a grounded ice sheet in McMurdo␣
↪Sound, Antarctica, at the Last Glacial Maximum},
  authors={Denton, GH and Marchant, DR},
  journal={Geografiska Annaler 82A: 167-211},
  year={2000}
}
```

3.7.45 Denton et al. 1989

Google Scholar Link

Bibtex citation

```
@article{Denton1989LateQuaternary,
  title={Late Quaternary Ice-surface Fluctuations of Beardmore Glacier,␣
↪Transantarctic Mountains},
  authors={Denton, GH and Bockheim, JG and Wilson, SC and Leide, JE and Andersen, B},
  journal={Quaternary Research 31: 183-209 Fig.12},
  year={1989}
}
```

3.7.46 Denton et al. 1993

Google Scholar Link

Bibtex citation

```
@article{Denton1993EastAntarctic,
  title={East Antarctic Ice sheet sensitivity to Pliocene climatic change from a Dry␣
↪Valleys Perspective},
  authors={Denton, GR and Sugden, DE and Marchant, DR and Hall, BL and Wilch, TI},
  journal={Geographiska Annaler 75A:155-204},
  year={1993}
}
```

3.7.47 Dharwadkar et al. 2018

Google Scholar Link

Bibtex citation

```
@article{Dharwadkar2018Geological,
  title={Geological evolution of Schirmacher Oasis, central Dronning Maud Land, East Antarctica},
  authors={Dharwadkar, A and Shukla, SP and Verma, A and Gajbhiye, D},
  journal={Polar Science 18: 57-62},
  year={2018}
}
```

3.7.48 Di Nicola et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Di2012Multiple,
  title={Multiple cosmogenic nuclides document the stability of the East Antarctic Ice Sheet in northern Victoria Land since the Late Miocene (5-7 Ma)},
  authors={Di, NicolaL and Baroni, C and Strasky, S and Salvatore, MC and Schluchter, C and Akcar, N and Kubik, PW and Wieler, R},
  journal={Quaternary Science Reviews 57: 85-94},
  year={2012}
}
```

3.7.49 Dochat et al. 2000

Google Scholar Link

Bibtex citation

```
@article{Dochat2000Glacial,
  title={Glacial geology of Cape Bird, Ross Island, Antarctica},
  authors={Dochat, TM and Marchant, DR and Denton, GH},
  journal={Geografiska Annaler 82A: 237-247 Fig 2},
  year={2000}
}
```

3.7.50 Elburg et al. 2015

Google Scholar Link

Bibtex citation

```
@article{Elburg2015EarlyNeoproterozoic,
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  authors={LeMasurier and W.E},
  journal={Bulletin of Volcanology, Fig 8B, DOI: 10.1007/s00445-013-0726-1},
  year={2013}
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3.7.114 LeMasurier & Thomson 1990

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  journal={Geosciences Journal 16(4): 421-433},
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3.7.119 Lewis et al. 2007

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3.7.120 Linkletter et al. 1973

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3.7.121 Lloyd-Davies et al. 2009

Google Scholar Link

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Bibtex citation

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  authors={Marchant, DR and Denton, GR and Sugden, DE and Swisher, CC},
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3.7.126 Marchant et al. 1993b

Google Scholar Link

Bibtex citation

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3.7.128 Marschall et al. 2010

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3.7.129 Mayewski et al. 1979

Google Scholar Link

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  journal={NZJGG 5(5): 740-745},
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3.7.132 McFadden et al. 2010a

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Bibtex citation

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3.7.139 Mellish et al. 2002

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3.7.144 Mieth et al. 2014

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3.7.145 Miller & Pankhurst 1987

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3.7.146 Moore & Kyle 1987

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3.7.148 Mortimer 1981

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3.7.151 Nardini et al. 2003

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3.7.152 Nogi et al. 2013

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3.7.153 Orombelli et al. 1990

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3.7.156 Palmer et al. 1967

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3.7.157 Pankhurst et al. 1988

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3.7.159 Panter et al. 1994

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3.7.161 Phartiyal et al. 2011

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3.7.162 Prestvik et al. 1990

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Bibtex citation

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3.7.163 Pyne 1984

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3.7.164 Quilty et al. 2000

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3.7.165 Read et al. 2002

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3.7.166 Rees et al. 1987

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3.7.167 Rees et al. 1989

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3.7.169 Richard et al. 1994

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3.7.170 Riedel et al. 2012

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3.7.171 Riley et al. 2017

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  journal={Journal of Geological Society of London 158: 295-308},
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3.8.7 Barrett & Elliot 1973

Google Scholar Link

Bibtex citation

```
@article{Barrett1973Reconnaissance,
  title={Reconnaissance geologic map of the Buckley Island Quadrangle, Transantarctic
↪Mountains, Antarctica},
  authors={Barrett, PJ and Elliot, DH},
  journal={USGS Reconnaissance Geologic Map},
```

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```
  year={1973}
}
```

3.8.8 Barrett et al. 1970

Google Scholar Link

Bibtex citation

```
@article{Barrett1970Reconnaissance,
  title={Reconnaissance geologic map of the Mount Rabot Quadrangle, Transantarctic
↪Mountains, Antarctica},
  authors={Barrett, PJ and Lindsay, JF and Gunner, J},
  journal={USGS Reconnaissance Geologic Map},
  year={1970}
}
```

3.8.9 Bauer et al. 2004a

Google Scholar Link

Bibtex citation

```
@article{Bauer2004Geological,
  title={Geological map of BJORNNUTANE, Heimefrontfjella, Antarctica (Scale 1:25,000)}
↪,
  authors={Bauer and W and Spaeth and G and Jacobs and J and Weber and K and
↪Siegesmund and S and Thomas and R.J},
  journal={https://doi.org/10.1594/PANGAEA.138777},
  year={2004}
}
```

3.8.10 Bauer et al. 2004b

Google Scholar Link

Bibtex citation

```
@article{Bauer2004Geological,
  title={Geological map of VIKENEGGA, Heimefrontfjella, Antarctica (Scale 1:25,000).},
  authors={Bauer and W and Spaeth and G and Jacobs and J and Weber and K and
↪Siegesmund and S and Thomas and R.J},
  journal={https://doi.org/10.1594/PANGAEA.138788},
  year={2004}
}
```

3.8.11 Bauer et al. 2008

Google Scholar Link

Bibtex citation

```
@article{Bauer2008Geological,
  title={Geological map of HANSSONHORNA, Heimefrontfjella, Dronning Maud Land,␣
↪Antarctica, 2nd revised Edition (Scale 1:25,000)},
  authors={Bauer and W and Jacobs and J and Schmidt and R},
  journal={https://doi.org/10.1594/PANGAEA.686061},
  year={2008}
}
```

3.8.12 Beg et al. 2006

Google Scholar Link

Bibtex citation

```
@article{Beg2006Geomorphology,
  title={Geomorphology of the Schirmacher Oasis},
  authors={Beg, MJ and Asthana, R and Gaur, MP},
  journal={Geological Survey of India 1:25,000 Geological Map},
  year={2006}
}
```

3.8.13 Capponi et al. 1991

Google Scholar Link

Bibtex citation

```
@article{Capponi1991Preliminary,
  title={Preliminary geological map of Wilson, Bowers and Robertson Bay terranes in␣
↪the area between the Aviator and Tucker Glaciers},
  authors={Capponi, G and Casnedi, R and Castelli, D and Flotmann, T and et, al},
  journal={Memorie della Societa Geologica Italia XLVI},
  year={1991}
}
```

3.8.14 Capponi et al. 1997a

Google Scholar Link

Bibtex citation

```
@article{Capponi1997Coulman,
  title={Coulman Island Quadrangle (Victoria Land)},
  authors={Capponi, G and Meccheri, M and Oggiano, G and Casnedi, R and Crispini, L␣
↪and Kleinschmidt, G and Montrasio, A and Pertusati, PC and Roland, NW and Salvini,␣
↪F and Schmidt-Thomé, M and Tessensohn, F},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
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  year={1997}
}
```

3.8.15 Capponi et al. 1997b

Google Scholar Link

Bibtex citation

```
@article{Capponi1997MountMurchison,
  title={Mount Murchison Quadrangle (Victoria Land)},
  authors={Capponi, G and Meccheri, M and Pertusati, PC and Castelli, D and Crispini,␣
↪L and Kleinschmidt, G and Lombardo, B and Montrasio, A and Musumeci, G and Oggiano,␣
↪G and Ricci, CA and Roland, NW and Salvini, F and Skinner, DNB and Tessensohn, F},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={1997}
}
```

3.8.16 Capponi et al. 1999a

Google Scholar Link

Bibtex citation

```
@article{Capponi1999MountJoyce,
  title={Mount Joyce Quadrangle (Victoria Land)},
  authors={Capponi, G and Crispini, L and Meccheri, M and Musumeci, G and Pertusati,␣
↪PC and Baroni, C and Delisle, G and Orsi, G},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={1999}
}
```

3.8.17 Capponi et al. 1999b

Google Scholar Link

Bibtex citation

```
@article{Capponi1999ReliefInlet,
  title={Relief Inlet Quadrangle (Victoria Land)},
  authors={Capponi, G and Crispini, L and Meccheri, M and Musumeci, G and Pertusati,␣
↪PC},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={1999}
}
```

3.8.18 Capponi et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Capponi2012Freyberg,
  title={Freyberg Mountains Quadrangle (Victoria Land)},
  authors={Capponi, G and Meccheri, M and Pertusati, PC and Carosi, R and Crispini, L
↪and Musumeci, G and Oggiano, G and Roland, NW and Tessensohn, F},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={2012}
}
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3.8.19 Carmignani et al. 1988

Google Scholar Link

Bibtex citation

```
@article{Carmignani1988Geological,
  title={Geological map of the area between the David and Mariner Glaciers, Victoria
↪Land, Antarctica},
  authors={Carmignani, L and Ghezzo, G and Gosso, G and Lombardo, B and  and et, al},
  journal={Memorie della Societa Geologica Italia 33},
  year={1988}
}
```

3.8.20 Carosi et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Carosi2012Sequence,
  title={Sequence Hills Quadrangle (Victoria Land)},
  authors={Carosi, R and Meccheri, M and Musumeci, G and Pertusati, PC and Montomoli,
↪C and Oggiano, G and Ricci, CA},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={2012}
}
```

3.8.21 Carson & Grew 2007

Google Scholar Link

Bibtex citation

```
@article{Carson2007Geology,
  title={Geology of the Larsemann Hills, Antarctica 1st Edition},
  authors={Carson, CJ and Grew, ES},
  journal={GeoScience Australia (GeoCat 13379; Map number 13379)},
  year={2007}
}
```

3.8.22 Casnedi et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Casnedi2012ReevesNévé,
  title={Reeves Névé Quadrangle (Victoria Land)},
  authors={Casnedi, R and Pertusati, PC and Salvini, F and Carosi, R and Meccheri, M␣
↪and Musumeci, G and Oggiano, G and Ricci, CA},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={2012}
}
```

3.8.23 Chen et al. 1995

Google Scholar Link

Bibtex citation

```
@article{Chen1995Geologic,
  title={Geologic map of Antarctica 1:5 000 000},
  authors={Chen and T and Li and G and Xie and L},
  journal={Geological Publishing House ISBN 7-116-01841-7},
  year={1995}
}
```

3.8.24 Cox et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Cox2012Geology,
  title={Geology of southern Victoria Land Antarctica},
  authors={Cox, SC and Turnbull, IM and Isaac, MJ and Townsend, DB and Smith-Lytt*},
  journal={GNS Science 1:250,000 map 22},
  year={2012}
}
```

3.8.25 Craddock 1969

Google Scholar Link

Bibtex citation

```
@article{Craddock1969Geology,
  title={Geology of the Ellsworth Mountains},
  authors={Craddock, C},
  journal={AGS Folio Series 12 Plate 4 (Sheet 4)},
  year={1969}
}
```

3.8.26 Craddock 1972

Google Scholar Link

Bibtex citation

```
@article{Craddock1972Geologic,
  title={Geologic map of Antarctica 1:5 000 000 scale},
  authors={Craddock and C},
  journal={AGS Folio Series 12 Plate 20},
  year={1972}
}
```

3.8.27 Craddock et al. 1986

Google Scholar Link

Bibtex citation

```
@article{Craddock1986Geologic,
  title={Geologic map of the Ellsworth Mountains, Antarctica},
  authors={Craddock, C and Webers, GF and Rutford, RH and Sporli, KB and Anderson, JJ}
↪,
  journal={GSA Memoir 170, Plate I},
  year={1986}
}
```

3.8.28 Craddock et al. 1992

Google Scholar Link

Bibtex citation

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@article{Craddock1992Structural,
  title={Structural map of the sentinel Range, Ellsworth Mountains, Antarctica},
  authors={Craddock, C and Sporli, KB and Anderson, JJ},
  journal={GSA Memoir 170, Chapter 21, Fig.5/Plate III},
  year={1992}
}
```

3.8.29 Curtis 2011

Google Scholar Link

Bibtex citation

```
@article{Curtis2011Geological,
  title={Geological map of South Georgia (inset)},
  authors={Curtis, ML},
  journal={British Antarctic Survey GeoMap 2 Series Sheet 4 (inset)},
  year={2011}
}
```

3.8.30 D'Souza et al. 2006

Google Scholar Link

Bibtex citation

```
@article{D'Souza2006Geological,
  title={Geological Map of Orvinfjella, Central Dronning Maud Land, East Antarctica␣
↪(at scale 1:150000)},
  authors={D'Souza, MJ and Ravindra, R and Mukerji, S},
  journal={Geological Survey of India, Kolkata, India},
  year={2006}
}
```

3.8.31 Davis & Blankenship 2005

[Google Scholar Link](https://scholar.google.com/scholar?q=Geology%20of%20the%20Scott-Reedy%20Glaciers%20area,%20southern%20Transantarctic%20Mountains,%20Antarctica Transantarctic%20Mountains,%20Antarctica%20Davis%20M.B.,%20Blankenship%20D.D.%202005)

Bibtex citation

```
@article{Davis2005Geology,
  title={Geology of the Scott-Reedy Glaciers area, southern Transantarctic Mountains,␣
↪Antarctica
Transantarctic Mountains, Antarctica},
  authors={Davis, MB and Blankenship, DD},
  journal={GSA Maps and Charts Series MCH093},
  year={2005}
}
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3.8.32 Denton et al. 1992

Google Scholar Link

Bibtex citation

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@article{Denton1992Selected,
  title={Selected glacial geologic features, Ellsworth Mountains},
  authors={Denton, GH and Brockheim, JG and Rutford, RH and Andersen, BG},
  journal={GSA Memoir 170, Chapter 22, Figure 3},
  year={1992}
}
```

3.8.33 Elliot et al. 1974

Google Scholar Link

Bibtex citation

```
@article{Elliot1974Reconnaissance,
  title={Reconnaissance geologic map of the Plunket Point Quadrangle, Transantarctic␣
↪Mountains, Antarctica},
  authors={Elliot, DH and Barrett, PJ and Mayewski, PA},
  journal={USGS Reconnaissance Geologic Map},
  year={1974}
}
```

3.8.34 England 1975

Google Scholar Link

Bibtex citation

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@article{England1975Geological,
  title={Geological map of Mawson Escarpment South sheet S40-42/8 (Preliminary␣
↪edition)},
  authors={England, RN(compiler)},
  journal={Bureau of Mineral Resources 1:250,000 Geological Map},
  year={1975}
}
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3.8.35 Ferrigno et al. 2005

Google Scholar Link

Bibtex citation

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@article{Ferrigno2005Coastal-change,
  title={Coastal-change and glaciological map of the Ronne Ice Shelf area,␣
↪Antarctica: 1974-2002},
  authors={Ferrigno, JG and Foley, KM and Swithinbank, C and Williams, RS and Dailide,
↪ LM},
  journal={USGS Geologic Investigations Series Map 1-2600-D},
  year={2005}
}
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3.8.36 Ferrigno et al. 2006

Google Scholar Link

Bibtex citation

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@article{Ferrigno2006Coastal-change,
  title={Coastal-change and glaciological map of the Trinity Peninsula area and South␣
↪Shetland Islands, Antarctica: 1843-2001},
  authors={Ferrigno, JG and Cook, AJ and Foley, KM and Williams, RS and Swithinbank,␣
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↪C and Fox, AJ and Thomson, JW and Sievers, J},
  journal={USGS Geologic Investigations Series Map 1-2600-A},
  year={2006}
}
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3.8.37 Fleming & Thomson 1979

Google Scholar Link

Bibtex citation

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@article{Fleming1979Northern,
  title={Northern Graham Land and South Shetland Islands},
  authors={Fleming, EA and Thomson, JW},
  journal={British Antarctic Survey Geological Map 500G Series Sheet 2},
  year={1979}
}
```

3.8.38 Flowerdew & Haselwimmer 2011

Google Scholar Link

Bibtex citation

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@article{Flowerdew2011Geological,
  title={Geological map of the South Orkney Islands},
  authors={Flowerdew, MJ and Haselwimmer, CE},
  journal={British Antarctic Survey GeoMap 2 Series Sheet 3},
  year={2011}
}
```

3.8.39 Ford et al. 1978a

Google Scholar Link

Bibtex citation

```
@article{Ford1978Geologic,
  title={Geologic map of the Davis Valley Quadrangle and Part of the Cordiner Peaks␣
↪Quadrangle, Pensacola Mountains, Antarctica},
  authors={Ford, AB and Schmidt, DL and Boyd, WW},
  journal={USGS Map},
  year={1978}
}
```

3.8.40 Ford et al. 1978b

Google Scholar Link

Bibtex citation

```
@article{Ford1978Geologic,
  title={Geologic map of the Saratoga Table Quadrangle, Pensacola Mountains,␣
↪Antarctica},
  authors={Ford, AB and Schmidt, DL and Boyd, WW and Nelson, WH},
  journal={USGS Map},
  year={1978}
}
```

3.8.41 GANOVEX 1987

Google Scholar Link

Bibtex citation

```
@article{Tessensohn1987Geological,
  title={Geological map of North Victoria Land, Antarctica},
  authors={Tessensohn, F and Roland, NW and et, al},
  journal={Geologisches Jahrbuch Reihe B 66 1987},
  year={1987}
}
```

3.8.42 Gair et al. 1969

Google Scholar Link

Bibtex citation

```
@article{Gair1969Geology,
  title={Geology of Northern Victoria Land},
  authors={Gair, HS and Sturm, A and Carryer, SJ and Grindley, GW},
  journal={AGS Folio Series 12 Plate 12 (Sheet 13)},
  year={1969}
}
```

3.8.43 Grindley & Laird 1969

Google Scholar Link

Bibtex citation

```
@article{Grindley1969Geology,
  title={Geology of the Shackleton Coast},
  authors={Grindley, GW and Laird, MG},
  journal={AGS Folio Series 12 Plate 14 (Sheet 15)},
  year={1969}
}
```

3.8.44 Gunn & Warren 1962

Google Scholar Link

Bibtex citation

```
@article{Gunn1962Geology,
  title={Geology of Victoria Land},
  authors={Gunn and B.M and Warren and G},
  journal={NZGS Bulletin 71},
  year={1962}
}
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3.8.45 Hall & Denton 2000

Google Scholar Link

Bibtex citation

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@article{Hall2000Extentand,
  title={Extent and chronology of the Ross Sea Ice Sheet and the Wilson Piedmont␣
↪Glacier along the Scott Coast at and since the LGM},
  authors={Hall, BL and Denton, GH},
  journal={Geografiska Annaler 82A},
  year={2000}
}
```

3.8.46 Hand et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Hand2012Geology,
  title={Geology of the Northern Jetty Peninsula Mac.Robertson Land, Antarctica 1st␣
↪Edition},
  authors={Hand, M and Scrimgeour, IR and Stuwe, K and Arne, D and Carson, CJ},
  journal={Geoscience Australia (GeoCat 74654; Map number 14142},
  year={2012}
}
```

3.8.47 Harrington et al. 1967a

Google Scholar Link

Bibtex citation

```
@article{Harrington1963Geology,
  title={Geology of the Tucker Glacier area},
  authors={Harrington, HJ and Wood, BL and McKellar, IC and Lenson, GJ},
  journal={Geological Map of the Ross Dependency},
  year={1963}
}
```

3.8.48 Harrington et al. 1967b

Google Scholar Link

Bibtex citation

```
@article{Harrington1967Topography,
  title={Topography and geology of the Cape Hallett District, Victoria Land,␣
↪Antarctica},
  authors={Harrington, HJ and Wood, BL and McKellar, IC and Lensen, GJ},
  journal={NZGS Bulletin 80},
  year={1967}
}
```

3.8.49 Hiroi et al. 1983

Google Scholar Link

Bibtex citation

```
@article{Hiroi1983Geological,
  title={Geological map of Sinnan Rocks},
  authors={Hiroi, Y and Shiraishi, K and Yoshida, Y},
  journal={Antarctic Geological Map Series, Sheet 14},
  year={1983}
}
```

3.8.50 Hiroi et al. 1986

Google Scholar Link

Bibtex citation

```
@article{Hiroi1986Geological,
  title={Geological map of Akebono Rock},
  authors={Hiroi and Y and Shiraishi and K and Sasaki and K},
  journal={Antarctic Geological Map Series, Sheet 16},
  year={1986}
}
```

3.8.51 Isaac et al. 1996

Google Scholar Link

Bibtex citation

```
@article{Isaac1996Geology,
  title={Geology of the Olympus Range area, southern Victoria Land, Antarctica.},
  authors={Isaac, MJ and Chinn, TJ and Edbrooke, SW and Forsyth, PJ},
  journal={IGNS Geological Map 20},
  year={1996}
}
```

3.8.52 Ishikawa 1977

Google Scholar Link

Bibtex citation

```
@article{Ishikawa1977Geological,
  title={Geological map of Padda Island},
  authors={Ishikawa and T},
  journal={Antarctic Geological Map Series, Sheet 10},
  year={1977}
}
```

3.8.53 Ishikawa et al. 1976

Google Scholar Link

Bibtex citation

```
@article{Ishikawa1976Geological,
  title={Geological map of Langhovde},
  authors={Ishikawa and T and Tatsumi and T and Kizaki and K and Yanai and K and␣
↪Yoshida and M and Ando and H and Kikuchi and T and Yoshida and Y and Matsumoto and␣
↪Y},
  journal={Antarctic Geological Map Series, Sheet 5},
  year={1976}
}
```

3.8.54 Ishikawa et al. 1977

Google Scholar Link

Bibtex citation

```
@article{Ishikawa1977Geological,
  title={Geological map of Skarvsnes},
  authors={Ishikawa and T and Yanai and K and Matsumoto and Y and Kizaki and K and␣
↪Kojima and S and Tatsumi and T and Kikuchi and T and Yoshida and M},
  journal={Antarctic Geological Map Series, Sheet 6 and 7},
  year={1977}
}
```

3.8.55 Ishikawa et al. 1994

Google Scholar Link

Bibtex citation

```
@article{Ishikawa1994Geological,
  title={Geological map of Ongul Islands},
  authors={Ishikawa and M and Shiraishi and K and Motoyoshi and Y and Tsuchiya and N␣
↪and Shimura and T and Yanai and K},
  journal={Antarctic Geological Map Series, Sheet 36},
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```
  year={1994}
}
```

3.8.56 Ishikawa et al. 2000

Google Scholar Link

Bibtex citation

```
@article{Ishikawa2000Geological,
  title={Geological map of Mount Riiser-Larsen},
  authors={Ishikawa and M and Hokado and T and Ishizuka and H and Miura and H and␣
↪Suziki and S and Takada and M},
  journal={Antarctic Geological Map Series, Sheet 37},
  year={2000}
}
```

3.8.57 Ishizuka 1993

Google Scholar Link

Bibtex citation

```
@article{Ishizuka1993Geological,
  title={Geological map of Bergersenfjella},
  authors={Ishizuka and H and Asami and M and Grew and E.S and Kojima and H and␣
↪Makimoto and H and Moriwaki and K and Osanai and Y and Owada and M and Sakiyma and␣
↪T and Shiraishi and K and Tainosho and Y and Takahashi and Y and Toyoshima and T␣
↪and Tsuchiya and N},
  journal={Antarctic Geological Map Series, Sheet 33},
  year={1993}
}
```

3.8.58 Jacobs & Weber 2009

Google Scholar Link

Bibtex citation

```
@article{Jacobs2009Geological,
  title={Geological map (Aerial Photo Map) of SCHARFFENBERGBOTNEN, Heimefrontfjella,␣
↪Antarctica (Scale 1:25,000).},
  authors={Jacobs and J and Weber and K},
  journal={https://doi.org/10.1594/PANGAEA.727140},
  year={2009}
}
```

3.8.59 Jacobs et al. 2004a

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of WORSFOLDFJELLET, Heimefrontfjella, Antarctica (Scale 1:25,
↪000).},
  authors={Jacobs and J and Weber and K and Siegesmund and S and Bauer and W and
↪Spaeth and G and Thomas and R.J},
  journal={https://doi.org/10.1594/PANGAEA.138789},
  year={2004}
}
```

3.8.60 Jacobs et al. 2004b

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of COTTONTOPPEN, Heimefrontfjella, Antarctica (Scale 1:25,
↪000).},
  authors={Jacobs and J and Weber and K and Siegesmund and S and Bauer and W and
↪Spaeth and G and Thomas and R.J},
  journal={https://doi.org/10.1594/PANGAEA.138778},
  year={2004}
}
```

3.8.61 Jacobs et al. 2004c

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of JUCKESKAMMEN, Heimefrontfjella, Antarctica (Scale 1:25,
↪000).},
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and
↪Spaeth and G and Thomas and R.J},
  journal={https://doi.org/10.1594/PANGAEA.138782},
  year={2004}
}
```

3.8.62 Jacobs et al. 2004d

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of KVITEBOTNEN, Heimefrontfjella, Antarctica (Scale 1:25,000).
↪},
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and␣
↪Spaeth and G},
  journal={https://doi.org/10.1594/PANGAEA.138783},
  year={2004}
}
```

3.8.63 Jacobs et al. 2004e

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of RYGHNUTEN, Heimefrontfjella, Antarctica (Scale 1:25,000).},
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and␣
↪Spaeth and G},
  journal={https://doi.org/10.1594/PANGAEA.138786},
  year={2004}
}
```

3.8.64 Jacobs et al. 2004f

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of NORUMNUTEN, Heimefrontfjella, Antarctica (Scale 1:25,000).}
↪,
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and␣
↪Spaeth and G},
  journal={https://doi.org/10.1594/PANGAEA.138785},
  year={2004}
}
```

3.8.65 Jacobs et al. 2004g

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of MONSRUDNABBEN, Heimefrontfjella, Antarctica (Scale 1:25,
↪000).},
```

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```
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and␣
↪Spaeth and G},
  journal={https://doi.org/10.1594/PANGAEA.138784},
  year={2004}
}
```

3.8.66 Jacobs et al. 2004h

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of SIRINUTEN, Heimefrontfjella, Antarctica (Scale 1:25,000).},
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and␣
↪Spaeth and G},
  journal={https://doi.org/10.1594/PANGAEA.138787},
  year={2004}
}
```

3.8.67 Jacobs et al. 2004i

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of FURUBOTNABBEN, Heimefrontfjella, Antarctica (Scale 1:25,
↪000).},
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and␣
↪Spaeth and G},
  journal={https://doi.org/10.1594/PANGAEA.138779},
  year={2004}
}
```

3.8.68 Jacobs et al. 2004j

Google Scholar Link

Bibtex citation

```
@article{Jacobs2004Geological,
  title={Geological map of GRAMKROKEN, Heimefrontfjella, Antarctica (Scale 1:25,000).}
↪,
  authors={Jacobs and J and Weber and K and Zarske and G and Kreutzer and S and␣
↪Spaeth and G},
  journal={https://doi.org/10.1594/PANGAEA.138780},
  year={2004}
}
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3.8.69 Jacobs et al. 2009

Google Scholar Link

Bibtex citation

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@article{Jacobs2009Geological,
  title={Geological Map Heimefronfjella, Dronning Maud Land, Antarctica - 1:250 000},
  authors={Jacobs and J and Bauer and W and Kreutzer and S and Patzelt and G and
↪Schmidt and R and Schulze and P and Siegesmund and S and Spaeth and G and Thomas
↪and R.J and Weber and K and Zarske and G},
  journal={https://doi.org/10.1594/PANGAEA.727130},
  year={2009}
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3.8.70 James & Black 1981

Google Scholar Link

Bibtex citation

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@article{James1981Structural,
  title={Structural interpretation of Northeast Face Mount McLennan (inset Fig 4 in
↪Sheraton 1985)},
  authors={James, PR and Black, LP},
  journal={Geol. Soc. of Australia Spec Pub 7: 71-83},
  year={1981}
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3.8.71 Jayram & Berjarniya 1991

Google Scholar Link

Bibtex citation

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@article{Jayaram1991Geology,
  title={Geology of the Schirmacher-Wohlthat region, central Dronning Mauf Land},
  authors={Jayaram, E and Bejarniya, BR},
  journal={Geological Survey of India 1:250,000 map},
  year={1991}
}
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3.8.72 Jordan et al. 1999

Google Scholar Link

Bibtex citation

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@article{Jordan1999Geological,
  title={Geological map of the OB' Bay Quadrangle, Victoria Land, Antarctica},
  authors={Jordan, H and Estrada, S and Henjes-Kunst, F and Kleinschmidt, G},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={1999}
}
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3.8.73 Kizaki 1983

Google Scholar Link

Bibtex citation

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@article{Kizaki1983Geological,
  title={Geological map of Niban Rock},
  authors={Kizaki, KShiraishiK and Hiroi, Y},
  journal={Antarctic Geological Map Series, Sheet 17},
  year={1983}
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3.8.74 Kojima 1981

Google Scholar Link

Bibtex citation

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@article{Kojima1981Geological,
  title={Geological map of Belgica Mountains},
  authors={Kojima and H and Yanai and K and Nishida and T},
  journal={Antarctic Geological Map Series, Sheet 29},
  year={1981}
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3.8.75 Laudon et al. 1969

Google Scholar Link

Bibtex citation

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@article{Laudon1969Geology,
  title={Geology of Eastern Ellsworth Land},
  authors={Laudon, TS and Lackey, LL and Quilty, PG and Otway, PM},
  journal={AGS Folio Series 12 Plate 3 (Sheet 3)},
  year={1969}
}
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3.8.76 Laufer et al. 2005

Google Scholar Link

Bibtex citation

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@article{Laufer2005Geological,
  title={Geological map of the Cape Adare Quadrangle, Victoria Land, Antarctica},
  authors={Laufer, AL and Kleinschmidt, G and Henjes-Kunst, F and et, al},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={2005}
}
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3.8.77 Laufer et al. 2006

Google Scholar Link

Bibtex citation

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@article{Laufer2006Geological,
  title={Geological map of the Ebbe Glacier Quadrangle, Victoria Land, Antarctica},
  authors={Laufer, AL and Lisker, F and Kleinschmidt, G and Henjes-Kunst, F and␣
↪Rossetti, F and Damaske, D and Capponi, G},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={2006}
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3.8.78 Lindsay et al. 1973

Google Scholar Link

Bibtex citation

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@article{Lindsay1973Reconnaissance,
  title={Reconnaissance geologic map of the Mount Elizabeth and Mount Kathleen␣
↪Quadrangles, Transantarctic Mountains, Antarctica},
  authors={Lindsay, JF and Gunner, J and Barrett, PJ},
  journal={USGS Reconnaissance Geologic Map},
  year={1973}
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3.8.79 McCartan et al. 1986

Google Scholar Link

Bibtex citation

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@article{McCartan1986Reconnaissance,
  title={Reconnaissance geologic map of the Ohio Range,Transantarctic Mountains,␣
↪Antarctica},
  authors={McCartan, L and Bradshaw, MA and Kellogg, KS},
  journal={USGS Reconnaissance Geologic Map},
  year={1986}
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3.8.80 McElroy & Rose 1987

Google Scholar Link

Bibtex citation

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@article{McElroy1987Geology,
  title={Geology of the Beacon Heights area, southern Victoria Land, Antarctica.},
  authors={McElroy, CT and Rose, G},
  journal={NZGS Miscellaneous Series Geological Map 15},
  year={1987}
}
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3.8.81 McGregor & Wade 1969

Google Scholar Link

Bibtex citation

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@article{McGregor1969Geology,
  title={Geology of the Queen Maud Mountains},
  authors={McGregor, VR and Wade, FA},
  journal={AGS Folio Series 12 Plate 15 (Sheet 16)},
  year={1969}
}
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3.8.82 Mikhalsky et al. 2001

Google Scholar Link

Bibtex citation

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@article{Mikhalsky2001Geology,
  title={Geology of the Prince Charles Mountains, Antarctica},
  authors={Mikhalsky, EV and Lalba, AA and Sheraton, JW},
  journal={AGSO Bulletin 247},
  year={2001}
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3.8.83 Mikhalsky et al. 2018

Google Scholar Link

Bibtex citation

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@article{Mikhalsky2018Geological,
  title={Geological map of Mac.Robertson Land and Princess Elizabeth Land and Prydz␣
↪(East Antarctica)},
  authors={Mikhalsky, EVLaibaAALeitchenkovGLGusevaIB and Vorobiev, DM(compiliers)},
  journal={ISBN 978-5-88994-121-7},
  year={2018}
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3.8.84 Mirsky 1969

Google Scholar Link

Bibtex citation

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@article{Mirsky1969Geology,
  title={Geology of the Ohio Range - Liv Glacier},
  authors={Mirsky, A},
  journal={AGS Folio Series 12 Plate 16 (Sheet 17)},
  year={1969}
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3.8.85 Motoyoshi et al. 1985

Google Scholar Link

Bibtex citation

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@article{Motoyoshi1985Geological,
  title={Geological map of Strandnibba},
  authors={Motoyoshi and Y and Matsubara and S and Matsumoto and Y and Moriwaki and K␣
↪and Yanai and K and Yoshida and Y},
  journal={Antarctic Geological Map Series, Sheet 26},
  year={1985}
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3.8.86 Motoyoshi et al. 1986

Google Scholar Link

Bibtex citation

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@article{Motoyoshi1986Geological,
  title={Geological map of Rundvågskollane and Rundvågshetta},
  authors={Motoyoshi and Y and Matsueda and H and Matsubara and S and Sasaki and K␣
↪and Moriwaki and K},
  journal={Antarctic Geological Map Series, Sheet 24},
  year={1986}
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3.8.87 Motoyoshi et al. 1995

Google Scholar Link

Bibtex citation

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@article{Motoyoshi1995Geological,
  title={Geological map of Central Yamato Mountains Massif B and Massif C},
  authors={Motoyoshi and Y and Shiraishi and K and Asami and M},
  journal={Antarctic Geological Map Series, Sheet 28 },
  year={1995}
}
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3.8.88 Moyes et al. 1993

Google Scholar Link

Bibtex citation

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@article{Moyes1993Geological,
  title={Geological map of Adelaide Island to Foyn Coast},
  authors={Moyes, AB and Willan, CFH and Thomson, JW1993 and et, al},
  journal={British Antarctic Survey GeoMap Series Sheet 3},
  year={1993}
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3.8.89 Nakai et al. 1979

Google Scholar Link

Bibtex citation

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@article{Nakai1979Geological,
  title={Geological map of Kjuka and Telen},
  authors={Nakai and Y and Kano and T and Yoshikuta and S and Ishikawa and T and␣
↪Yanai and K},
  journal={Antarctic Geological Map Series, Sheet 8},
  year={1979}
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3.8.90 Nakai et al. 1980

Google Scholar Link

Bibtex citation

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@article{Nakai1980Geological,
  title={Geological map of Cape Ryûgû},
  authors={Nakai, Y and Kano, T and Yoshikura, S},
  journal={Antarctic Geological Map Series, Sheet 15},
  year={1980}
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3.8.91 Nakai et al. 1981

Google Scholar Link

Bibtex citation

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@article{Nakai1981Geological,
  title={Geological map of Oku-Iwa Rock},
  authors={Nakai and Y and Kano and T and Yoshikura, S},
  journal={Antarctic Geological Map Series, Sheet 22},
  year={1981}
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3.8.92 Neething 1969

Google Scholar Link

Bibtex citation

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@article{Neething1969Geology,
  title={Geology of the Ahlmann Ridge, Western Queen Maud Land},
  authors={Neething, DC},
  journal={AGS Folio Series 12 Plate 7 (Sheet 7)},
  year={1969}
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3.8.93 Newall et al. 2020

Google Scholar Link

Bibtex citation

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@article{Newall2020Theglacial,
  title={The glacial geomorphology of Western Dronning Maud Land, Antarctica},
  authors={Newall, JCH and Dymova, T and Serra, E and Blomdin, R and Fredin, O and
↪Glasser, NF and Suganuma, Y and Narbor, JMStroevenAP},
  journal={Journal of Maps 16(2) 468-478},
  year={2020}
}
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3.8.94 Nishida et al. 1984

Google Scholar Link

Bibtex citation

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@article{Nishida1984Geological,
  title={Geological map of Kasumi Rock},
  authors={Nishida and T and Kojima, H and Yanai, K},
  journal={Antarctic Geological Map Series, Sheet 18},
  year={1984}
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3.8.95 Nishida et al. 1987

Google Scholar Link

Bibtex citation

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@article{Nishida1987Geological,
  title={Geological map of Honnör Oku-Iwa Rock},
  authors={Nishida and T and Yanai and K and Kojima and H},
  journal={Antarctic Geological Map Series, Sheet 23},
  year={1987}
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3.8.96 Ohta 1993a

Google Scholar Link

Bibtex citation

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@article{Ohta1993Natureenvironment,
  title={Nature environment map - Gjelsvikfjella & Western Mühlig-Hofmannfjella,
↪Dronning Maud Land, Antarctica - 1:100 000 (Sheet 1)},
  authors={Ohta and Y},
  journal={TEMAKART NR. 24, Norwegian Polar Institute},
  year={1993}
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3.8.97 Ohta 1993b

Google Scholar Link

Bibtex citation

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@article{Ohta1993Natureenvironment,
  title={Nature environment map - Gjelsvikfjella & Western Mühlig-Hofmannfjella,␣
↪Dronning Maud Land, Antarctica - 1:100 000 (Sheet 2)},
  authors={Ohta and Y},
  journal={TEMAKART NR. 24, Norwegian Polar Institute},
  year={1993}
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3.8.98 Ohta 1996

Google Scholar Link

Bibtex citation

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@article{Ohta1996Natureenvironment,
  title={Nature environment map - H.U. Sverdrupfjella, Dronning Maud Land, Antarctica␣
↪- 1:150 000},
  authors={Ohta and Y},
  journal={TEMAKART NR. 28, Norwegian Polar Institute},
  year={1996}
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3.8.99 Osanai et al. 1996

Google Scholar Link

Bibtex citation

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@article{Osanai1996Geological,
  title={Geological map of Brattnipene},
  authors={Osanai and Y and Shiraishi and K and Takahashi and Y and Ishizuka and H␣
↪and Moriwaki and K and Tainosho and Y and Tsuchiya and N and Sakiyama and T and␣
↪Toyoshima and T and Owada and M and Kojima and H},
  journal={Antarctic Geological Map Series, Sheet 34},
  year={1996}
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3.8.100 Osanai et al. 2001

Google Scholar Link

Bibtex citation

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@article{Osanai2001Geological,
  title={Geological map of Tonagh Island},
  authors={Osanai and Y and Toyoshima and T and Owada and M and Tsunogae and T and␣
↪Hokada and T and Yoshimura and Y and Miyamoto and T and Motoyoshi and Y},
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  journal={Antarctic Geological Map Series, Sheet 38},
  year={2001}
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3.8.101 Osanai et al. 2004

Google Scholar Link

Bibtex citation

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@article{Osanai2004Geological,
  title={Geological map of Skallen (revised edition)},
  authors={Osanai and Y and Toyoshima and T and Owada and M and Tsunogae and T and
↪Hokada and T and Crowe and W and Ikeda and T and Kawakami and T and Kawano and Y
↪and Kawasaki and T and Ishikawa and M and Motoyoshi and Y and Shiraishi and K and },
  journal={Antarctic Geological Map Series, Sheet 39},
  year={2004}
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3.8.102 Pertusati et al. 2012

Google Scholar Link

Bibtex citation

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@article{Pertusati2012MountMelbourne,
  title={Mount Melbourne Quadrangle (Victoria Land)},
  authors={Pertusati, PC and Musumeci, G and Carosi, R and Meccheri, M and Baroni, C
↪and Capponi, G and Carmignani, L and Castelli, D and Colombo, F and Crispini, L and
↪Di, VincenzoG and Ghezzo, C and Gosso, G and Lomardo, B and Montomoli, C and
↪Montrasio, A and Oggiano, G and  and et, al},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={2012}
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3.8.103 Pocknall et al. 1994

Google Scholar Link

Bibtex citation

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@article{Pocknall1994Geology,
  title={Geology of the Convoy Range area, southern Victoria Land, Antarctica.},
  authors={Pocknall, DT and Chinn, TJ and Sykes, R and Skinner, DNB},
  journal={IGNS Geological Map 11},
  year={1994}
}
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3.8.104 Ravikant 1998

Google Scholar Link

Bibtex citation

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@article{Ravikant1998Geological,
  title={Geological map of the Schirmacher oasis, central Dronning Maud Land, East
↪Antarctica},
  authors={Ravikant, V},
  journal={Geological Survey of India 1:25,000 Geological Map},
  year={1998}
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3.8.105 Riley et al. 2011a

Google Scholar Link

Bibtex citation

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@article{Riley2011Geological,
  title={Geological map of Adelaide Island, Graham Land},
  authors={Riley, TR and Flowerdew, MJ and Haselwimmer, CE},
  journal={British Antarctic Survey GeoMap 2 Series Sheet 2},
  year={2011}
}
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3.8.106 Riley et al. 2011b

Google Scholar Link

Bibtex citation

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@article{Riley2011Geological,
  title={Geological map of Eastern Graham Land, Antarctic Peninsula (inset)},
  authors={Riley, TR and Flowerdew, MJ and Haselwimmer, CE},
  journal={British Antarctic Survey GeoMap 2 Series Sheet 1 (inset B)},
  year={2011}
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3.8.107 Roland et al. 1996

Google Scholar Link

Bibtex citation

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@article{Roland1996Geological,
  title={Geological map of the Suvorov Glacier Quadrangle, Victoria Land, Antarctica},
  authors={Roland, NW and Adams, CJD and Flottmand, T and Kleinschmidt, G and et, al},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={1996}
}
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3.8.108 Roland et al. 2002

Google Scholar Link

Bibtex citation

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@article{Roland2002Geological,
  title={Geological map of the Matusevich Glacier Quadrangle, Victoria Land,␣
↪Antarctica},
  authors={Roland, NW and Adams, CJD and Flottmand, T and Kleinschmidt, G and Olesch,␣
↪M and Pertusati, PC and Schussler, U and Skinner, DNB and Henjes-Kunst, F},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={2002}
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3.8.109 Roots 1969

Google Scholar Link

Bibtex citation

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@article{Roots1969Geology,
  title={Geology of Western Queen Maud Land},
  authors={Roots, EF},
  journal={AGS Folio Series 12 Plate 6 (Sheet 6)},
  year={1969}
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3.8.110 Rowley et al. 1992

Google Scholar Link

Bibtex citation

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@article{Rowley1992Southern,
  title={Southern Palmer Land and Eastern Ellsworth Land},
  authors={Rowley, PD and Kellogg, KS and Williams, PL and Willan, CFH and Thomson,␣
↪JW},
  journal={British Antarctic Survey Geological Map 500G Series Sheet 6},
  year={1992}
}
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3.8.111 Sandiford & Wilson 1984

Google Scholar Link

Bibtex citation

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@article{Sandiford1985Structural,
  title={Structural geology of part of the Field Islands (inset Fig 2 in Sheraton␣
↪1985)},
  authors={Sandiford, MW and Wilson, CJL},
  journal={Australian Journal of Earth Science 31(4): 403-426},
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  year={1985}
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3.8.112 Sanmyaku 1969

Google Scholar Link

Bibtex citation

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@article{Sanmyaku1969Geology,
  title={Geology of the Yamato Mountains},
  authors={Sanmyaku, Y},
  journal={AGS Folio Series 12 Plate 9 (Sheet 10)},
  year={1969}
}
```

3.8.113 Schmidt & Ford 1969

Google Scholar Link

Bibtex citation

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@article{Schimdt1969Geology,
  title={Geology of the Pensacola and Thiel Mountains},
  authors={Schimdt, DL and Ford, AB},
  journal={AGS Folio Series 12 Plate 5 (Sheet 5)},
  year={1969}
}
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3.8.114 Schmidt et al. 1978

Google Scholar Link

Bibtex citation

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@article{Schmidt1978Geologic,
  title={Geologic map of the Schmidt Hills Quadrangle and Part of the Gambacorta Peak␣
↪Quadrangle, Pensacola Mountains, Antarctica},
  authors={Schmidt, DL and Williams, PL and Nelson, WH},
  journal={USGS Map},
  year={1978}
}
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3.8.115 Schmidt et al. 2008

Google Scholar Link

Bibtex citation

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@article{Schmidt2008Geological,
  title={Geological map of northern XU-Fjella, Heimefrontfjella, Dronning Maud Land,␣
↪Antarctica (Scale 1:25,000).},
  authors={Schmidt and R and Jacobs and J and Bauer and W and },
  journal={https://doi.org/10.1594/PANGAEA.686074},
  year={2008}
}
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3.8.116 Schussler et al. 1998

Google Scholar Link

Bibtex citation

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@article{Schussler1998Geological,
  title={Geological map of the Promerantz Tableland Quadrangle, Victoria Land,␣
↪Antarctica},
  authors={Schussler, U and Fenn, G and Flotmann, T and Kleinschmidt, G and Olesch, M␣
↪and Roland, NW and Schubert, W and Skinner, DNB},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={1998}
}
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3.8.117 Sheraton 1975a

Google Scholar Link

Bibtex citation

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@article{Sheraton1975Geological,
  title={Geological map of Mawson Escarpment North sheet S40-42/4 (Preliminary␣
↪edition)},
  authors={Sheraton, JW(compiler)},
  journal={Bureau of Mineral Resources 1:250,000 Geological Map},
  year={1975}
}
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3.8.118 Sheraton 1975b

Google Scholar Link

Bibtex citation

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@article{Sheraton1975Geological,
  title={Geological map of Mt Cresswell sheet S40-42/3 (Preliminary edition)},
  authors={Sheraton, JW(compiler)},
  journal={Bureau of Mineral Resources 1:250,000 Geological Map},
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  year={1975}
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3.8.119 Sheraton 1985

Google Scholar Link

Bibtex citation

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@article{Sheraton1985Geology,
  title={Geology of Enderby Land and Western Kemp Land},
  authors={Sheraton, JW},
  journal={AGSO Map},
  year={1985}
}
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3.8.120 Sheraton & Tingey 1994

Google Scholar Link

Bibtex citation

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@article{Sheraton1994Bedrock,
  title={Bedrock geology of the Bunger Hills-Denman Glacier Region (inset)},
  authors={Sheraton, JW and Tingey, RJ},
  journal={AGSO Map},
  year={1994}
}
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3.8.121 Shiraishi & Yoshida 1987

Google Scholar Link

Bibtex citation

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@article{Shiraishi1987Geological,
  title={Geological map of Botnneset},
  authors={Shiraishi and K and Yoshida and M},
  journal={Antarctic Geological Map Series, Sheet 25},
  year={1987}
}
```

3.8.122 Shiraishi et al. 1978

Google Scholar Link

Bibtex citation

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@article{Shiraishi1978Geological,
  title={Geological map of Northern Yamato Mountains (1) Mt. Fukushima},
  authors={Shiraishi and K and Kizaki and K and Yoshida and M and Matsumoto and Y},
  journal={Antarctic Geological Map Series, Sheet 27},
  year={1978}
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3.8.123 Shiraishi et al. 1985

Google Scholar Link

Bibtex citation

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@article{Shiraishi1985Geological,
  title={Geological map of Tenmondai Rock},
  authors={Shiraishi and K and Hiroi and Y and Moriwaki and K},
  journal={Antarctic Geological Map Series, Sheet 19},
  year={1985}
}
```

3.8.124 Shiraishi et al. 1989a

Google Scholar Link

Bibtex citation

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@article{Shiraishi1989Geological,
  title={Geological map of Lützow-Holm Bay},
  authors={Shiraishi, K and Hiroi, Y and Motoyoshi, Y},
  journal={Antarctic Geological Map Series, Sheet 12},
  year={1989}
}
```

3.8.125 Shiraishi et al. 1989b

Google Scholar Link

Bibtex citation

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@article{Shiraishi1989Geological,
  title={Geological map of Prince Olav Coast},
  authors={Shiraishi, K and Hiroi, Y and Motoyoshi, Y},
  journal={Antarctic Geological Map Series, Sheet 13},
  year={1989}
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3.8.126 Shiraishi et al. 1992

Google Scholar Link

Bibtex citation

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@article{Shiraishi1992Geological,
  title={Geological map of Widerøefjellet},
  authors={Shiraishi and K and Osanai and Y and Tainosho and Y and Takahashi and Y
↪and Tsuchiya and N and Kojima and S and Yanai and K and Moriwaki and K},
  journal={Antarctic Geological Map Series, Sheet 32},
  year={1992}
}
```

3.8.127 Shiraishi et al. 1997

Google Scholar Link

Bibtex citation

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@article{Shiraishi1997Geological,
  title={Geological map of Sør Rondane Mountains},
  authors={Shiraishi and K and Osanai and Y and Ishizuka and H and Asami and M},
  journal={Antarctic Geological Map Series, Sheet 35},
  year={1997}
}
```

3.8.128 Smellie et al. 2013

Google Scholar Link

Bibtex citation

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@article{Smellie2013Geological,
  title={Geological map of James Ross Island I. James Ross Island Volcanic Group
↪(inset)},
  authors={Smellie, JL and Johnson, JS and Nelson, AE},
  journal={British Antarctic Survey GeoMap 2 Series Sheet 5 (inset)},
  year={2013}
}
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3.8.129 Snape et al. 2001

Google Scholar Link

Bibtex citation

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@article{Snape2001Geology,
  title={Geology of the Northern Vestfold Hills, East Antarctica (Inset)},
  authors={Snape, ISeitzH-M and Harley, SL and Bain, JCH},
  journal={Royal Society of New Zealand Bulletin 35 (simplified inset)},
  year={2001}
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3.8.130 Stump 1989

Google Scholar Link

Bibtex citation

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@article{Stump1989Reconnaissance,
  title={Reconnaissance geologic map of the Welcome Mountain Quadrangle,␣
↪Transantarctic Mountains, Antarctica},
  authors={Stump, E},
  journal={USGS Reconnaissance Geologic Map},
  year={1989}
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3.8.131 Stump et al. 1985

Google Scholar Link

Bibtex citation

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@article{Stump1985Reconnaissance,
  title={Reconnaissance geologic map of the Mt Blackburn Quadrangle, Transantarctic␣
↪Mountains, Antarctica},
  authors={Stump, E and Smit, JH and Self, S},
  journal={USGS Reconnaissance Geologic Map},
  year={1985}
}
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3.8.132 Suzuki & Moriwaka 1979

Google Scholar Link

Bibtex citation

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@article{Suzuki1979Geological,
  title={Geological map of Cape Omega},
  authors={Suzuki and M and Moriwaki and K},
  journal={Antarctic Geological Map Series, Sheet 21},
  year={1979}
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3.8.133 Swithinbank et al. 2004

Google Scholar Link

Bibtex citation

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@article{Swithinbank2004Coastal-change,
  title={Coastal-change and glaciological map of the Eights Coast area, Antarctica:␣
↪1972-2001},
  authors={Swithinbank, C and Williams, RS and Ferrigno, JG and Foley, KM and␣
↪Rosanova, CE and Dailide, LM},
  journal={USGS Geologic Investigations Series Map 1-2600-E},
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  year={2004}
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3.8.134 Tatsumi & Kizaki 1969

Google Scholar Link

Bibtex citation

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@article{Tatsumi1969Geology,
  title={Geology of Lutzow-Holm Bay region},
  authors={Tatsumi, T and Kizaki, K},
  journal={AGS Folio Series 12 Plate 9 (Sheet 9)},
  year={1969}
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3.8.135 Tessensohn et al. 1981

Google Scholar Link

Bibtex citation

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@article{Tessensohn1981Geological,
  title={Geological map of North Victoria Land, Antarctica},
  authors={Tessensohn, F and Duphorn, K and Jordan, H and Kleinschmidt, Getal},
  journal={Geologisches Jahrbuch Reihe B 41 1981},
  year={1981}
}
```

3.8.136 Tessensohn et al. 1996

Google Scholar Link

Bibtex citation

```
@article{Tessensohn1996Geological,
  title={Geological map of the Yule Bay Quadrangle, Victoria Land, Antarctica},
  authors={Tessensohn, F and Kreuzer, H and Henjes-Kunst, F and Kleinschmidt, G and␣
↪Vetter, U},
  journal={German-Italian Geological Antarctic 1:250000 Map Series},
  year={1996}
}
```

3.8.137 Thomson 1981

Google Scholar Link

Bibtex citation

```
@article{Thomson1981Alexander,
  title={Alexander Island},
  authors={Thomson, JW},
  journal={British Antarctic Survey Geological Map 500G Series Sheet 4},
  year={1981}
}
```

3.8.138 Thomson & Harris 1979

Google Scholar Link

Bibtex citation

```
@article{Thomson1979Southern,
  title={Southern Graham Land},
  authors={Thomson, JW and Harris, A},
  journal={British Antarctic Survey Geological Map 500G Series Sheet 3},
  year={1979}
}
```

3.8.139 Thomson et al. 1982

Google Scholar Link

Bibtex citation

```
@article{Thomson1982Northern,
  title={Northern Palmer Land},
  authors={Thomson, JW and Harris, A and Rowley, PD and et, al},
  journal={British Antarctic Survey Geological Map 500G Series Sheet 5},
  year={1982}
}
```

3.8.140 Thomson et al. 1995

Google Scholar Link

Bibtex citation

```
@article{Thomson1995Geological,
  title={Geological map of Shackleton Range; Antarctica },
  authors={Thomson, JW and Clarkson, PD and Tessensohn, F and Thomson, MRA},
  journal={British Antarctic Survey Maptext Fig.2.1},
  year={1995}
}
```

3.8.141 Thost et al. 1998

Google Scholar Link

Bibtex citation

```
@article{Thost1998Geology,
  title={Geology of the Lambert Glacier-Prydz Bay Region, East Antarctica},
  authors={Thost, DE and Leitchenkov, G and OBrien, PE and Tingey, RJ and Wellman, P␣
↪and Golynsky, AV},
  journal={AGSO},
  year={1998}
}
```

3.8.142 Tingey 1972a

Google Scholar Link

Bibtex citation

```
@article{Tinger1972Geological,
  title={Geological map of Crohn Massif sheet S41-42/10 (Preliminary edition)},
  authors={Tinger, RJ(compiler)},
  journal={Bureau of Mineral Resources 1:250,000 Geological Map},
  year={1972}
}
```

3.8.143 Tingey 1972b

Google Scholar Link

Bibtex citation

```
@article{Tinger1972Geological,
  title={Geological map of Fisher Massif - Mt Hicks sheet S41-42/15 & SR41-42/14␣
↪(Preliminary edition)},
  authors={Tinger, RJ(compiler)},
  journal={Bureau of Mineral Resources 1:250,000 Geological Map},
  year={1972}
}
```

3.8.144 Tingey 1975a

Google Scholar Link

Bibtex citation

```
@article{Tinger1975Geological,
  title={Geological map of Cumpston Massif sheet S40-42/7 (Preliminary edition)},
  authors={Tinger, RJ(compiler)},
  journal={Bureau of Mineral Resources 1:250,000 Geological Map},
  year={1975}
}
```

3.8.145 Tingey 1975b

Google Scholar Link

Bibtex citation

```
@article{Tinger1975Geological,
  title={Geological map of Goodspeed Nunataks sheet S40-42/2 (Preliminary edition)},
  authors={Tinger, RJ(compiler)},
  journal={Bureau of Mineral Resources 1:250,000 Geological Map},
  year={1975}
}
```

3.8.146 Tingey 1991

Google Scholar Link

Bibtex citation

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@article{Tingey1991Schematic,
  title={Schematic geological map of Antarctica Scale 1:10 000 000},
  authors={Tingey and R.J},
  journal={BMR Bulletin 238},
  year={1991}
}
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3.8.147 Tingey & Convine 1982

Google Scholar Link

Bibtex citation

```
@article{Tingey1982Geology,
  title={Geology of the Southern Prince Charles Mountains},
  authors={Tingey, RJ and Convine, JW},
  journal={BMR Map},
  year={1982}
}
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3.8.148 Trail 1967

Google Scholar Link

Bibtex citation

```
@article{Trail1967Oygarden,
  title={Oygarden and Law Promontory Sheet SQ40-41/10 and SQ40-41/14 (Parts)␣
↪Preliminary Edition},
  authors={Trail, DS},
  journal={BMR Map},
  year={1967}
}
```

3.8.149 Trail & McLeod 1969a

Google Scholar Link

Bibtex citation

```
@article{Trail1969Geology,
  title={Geology of Enderby Land},
  authors={Trail, DS and McLeod, IR},
  journal={AGS Folio Series 12 Plate 10 (Sheet 11)},
  year={1969}
}
```

3.8.150 Trail & McLeod 1969b

Google Scholar Link

Bibtex citation

```
@article{Trail1969Geology,
  title={Geology of the Lambert Glacier Region},
  authors={Trail, DS and McLeod, IR},
  journal={AGS Folio Series 12 Plate 11 (Sheet 12)},
  year={1969}
}
```

3.8.151 Turnbull et al. 1994

Google Scholar Link

Bibtex citation

```
@article{Turnbull1994Geology,
  title={Geology of the Bull Pass - St Johns area, southern Victoria Land, Antarctica.
↪},
  authors={Turnbull, IM and Allibone, AH and Forsyth, PJ and Heron, DW},
  journal={IGNS Geological Map 14},
  year={1994}
}
```

3.8.152 Van Autenboer 1969

Google Scholar Link

Bibtex citation

```
@article{Vam1969Geology,
  title={Geology of the Sør Rondane Mountains},
  authors={Vam, AutenboerT},
  journal={AGS Folio Series 12 Plate 8 (Sheet 8)},
  year={1969}
}
```

3.8.153 Wade 1969

Google Scholar Link

Bibtex citation

```
@article{Wade1969Geology,
  title={Geology of Marie Byrd Land},
  authors={Wade, FA},
  journal={AGS Folio Series 12 Plate 17 (Sheet 18)},
  year={1969}
}
```

3.8.154 Wade et al. 1977a

Google Scholar Link

Bibtex citation

```
@article{Wade1977Reconnaissance,
  title={Reconnaissance geologic map of the Boyd Glacier Quadrangle, Marie Byrd Land,␣
↪Antarctica},
  authors={Wade, FA and Cathey, CA and Oldham, JB},
  journal={USGS Reconnaissance Geologic Map},
  year={1977}
}
```

3.8.155 Wade et al. 1977b

Google Scholar Link

Bibtex citation

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@article{Wade1977Reconnaissance,
  title={Reconnaissance geologic map of the Alexandra Mountains, Marie Byrd Land,␣
↪Antarctica},
  authors={Wade, FA and Cathey, CA and Oldham, JB},
  journal={USGS Reconnaissance Geologic Map},
  year={1977}
}
```

3.8.156 Wade et al. 1977c

Google Scholar Link

Bibtex citation

```
@article{Wade1977Reconnaissance,
  title={Reconnaissance geologic map of the Guest Peninsula Quadrangle, Marie Byrd␣
↪Land, Antarctica},
  authors={Wade, FA and Cathey, CA and Oldham, JB},
  journal={USGS Reconnaissance Geologic Map},
  year={1977}
}
```

3.8.157 Wade et al. 1978

Google Scholar Link

Bibtex citation

```
@article{Wade1978Reconnaissance,
  title={Reconnaissance geology of the Gutenko Nunataks Quadrangle, Marie Byrd Land,␣
↪Antarctica},
  authors={Wade, FA and Cathey, CA and Oldham, JB},
  journal={USGS Map},
  year={1978}
}
```

3.8.158 Warren 1969

Google Scholar Link

Bibtex citation

```
@article{Warren1969Geology,
  title={Geology of the Terra Nova Bay - McMurdo Sound Area},
  authors={Warren, G},
  journal={AGS Folio Series 12 Plate 13 (Sheet 14)},
  year={1969}
}
```

3.8.159 Wolmarans & Krynauw 1981a

Google Scholar Link

Bibtex citation

```
@article{Wolmarans1981Reconnaissance,
  title={Reconnaissance geological map of the Ahlmannryggen area, Western Dronning␣
↪Maud Land, Antarctica},
  authors={Wolmarans, LG and Krynauw, JR},
  journal={Reconnaissance Geological Map},
  year={1981}
}
```

3.8.160 Wolmarans & Krynauw 1981b

Google Scholar Link

Bibtex citation

```
@article{Wolmarans1981Reconnaissance,
  title={Reconnaissance geological map of the Borgmassivet area, Western Dronning␣
↪Maud Land, Antarctica},
  authors={Wolmarans, LG and Krynauw, JR},
  journal={Reconnaissance Geological Map},
  year={1981}
}
```

3.8.161 Wolmarans & Krynauw 1981c

Google Scholar Link

Bibtex citation

```
@article{Wolmarans1981Reconnaissance,
  title={Reconnaissance geological map of the Kirwanveggen area, Western Dronning␣
↪Maud Land, Antarctica},
  authors={Wolmarans, LG and Krynauw, JR},
  journal={Reconnaissance Geological Map},
  year={1981}
}
```

3.8.162 Woolfe et al. 1989

Google Scholar Link

Bibtex citation

```
@article{Woolfe1989Geology,
  title={Geology of the Knobhead area, southern Victoria Land, Antarctica.},
  authors={Woolfe, KJ and Kirk, PA and Sherwood, AM},
  journal={NZGS Miscellaneous Series Geological Map 19},
  year={1989}
}
```

3.8.163 Yanai & Ishikawa 1978

Google Scholar Link

Bibtex citation

```
@article{Yanai1978Geological,
  title={Geological map of Cape Hinode},
  authors={Yanai and K and Ishikawa and T},
  journal={Antarctic Geological Map Series, Sheet 11},
  year={1978}
}
```

3.8.164 Yanai et al. 1974a

Google Scholar Link

Bibtex citation

```
@article{Yanai1974Geological,
  title={Geological map of West Ongul Island},
  authors={Yanai and K and Tatsumi and T and Kikuchi and T},
  journal={Antarctic Geological Map Series, Sheet 2},
  year={1974}
}
```

3.8.165 Yanai et al. 1974b

Google Scholar Link

Bibtex citation

```
@article{Yanai1974Geological,
  title={Geological map of East Ongul Island},
  authors={Yanai and K and Kizaki and K and Tatsumi and T and Kikuchi and T},
  journal={Antarctic Geological Map Series, Sheet 1},
  year={1974}
}
```

3.8.166 Yanai et al. 1975a

Google Scholar Link

Bibtex citation

```
@article{Yanai1975Geological,
  title={Geological map of Teöya},
  authors={Yanai and K and Tatsumi and T and Kikuchi and T and Ishikawa and T},
  journal={Antarctic Geological Map Series, Sheet 3},
  year={1975}
}
```

3.8.167 Yanai et al. 1975b

Google Scholar Link

Bibtex citation

```
@article{Yanai1975Geological,
  title={Geological map of Ongulkalven Island},
  authors={Yanai and K and Tatsumi and T and Kikuchi and T},
  journal={Antarctic Geological Map Series, Sheet 4},
  year={1975}
}
```

3.8.168 Yanai et al. 1982

Google Scholar Link

Bibtex citation

```
@article{Yanai1982Geological,
  title={Geological map of Northern Yamato Mountains (2) Mt. Torimai},
  authors={Yanai and K and Nishida and T and Kojima and H and Shiraishi and K and␣
↪Asami and M and Ohta and Y and Kizaki and K and Matsumoto and Y},
  journal={Antarctic Geological Map Series, Sheet 27},
  year={1982}
}
```

3.8.169 Yanai et al. 1984

Google Scholar Link

Bibtex citation

```
@article{Yanai1984Geological,
  title={Geological map of Akarui Point and Naga iwa Rock},
  authors={Yanai and K and Kizaki and K and Shiraishi and K and Hiroi and Y},
  journal={Antarctic Geological Map Series, Sheet 20},
  year={1984}
}
```

3.8.170 Yoshida 1976

Google Scholar Link

Bibtex citation

```
@article{Yoshida1976Geological,
  title={Geological map of Skallen},
  authors={Yoshida and M and Yoshida and Y and Ando and H and Ishikawa and T and␣
↪Tatsumi and T},
  journal={Antarctic Geological Map Series, Sheet 9},
  year={1976}
}
```

3.9 GIS Dataset Works Referenced

3.9.1 Abu-Alam et al. 2018

Google Scholar Link

Bibtex citation

```
@article{Abu-Alam2018Geological,
  title={Geological GIS dataset of Dronning Maud Land},
  authors={Abu-Alam, TS and Jacobs, J and Myhre, PI and Elvevold, S},
  journal={Dronning Maud Land Geology GIS dataset 1.1 compilled by NPI},
  year={2018}
}
```

3.9.2 Halpin et al. 2012

Google Scholar Link

Bibtex citation

```
@article{Halpin2016Solidgeology,
  title={Solid geology of the Stillwell Hills Antarctica},
  authors={Halpin, JA and Clarke, GL and White, RW and Gerakiteys, CL and Kelly, JA␣
↪and Fitzherbert, JA and Schroter, FC and Bennett, V and Carson, CJ},
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```
  journal={Geoscience Australia (GeoCat 72717; Map number 13521},
  year={2016}
}
```

3.9.3 McLennan et al. 2021

Google Scholar Link

Bibtex citation

```
@article{McLennan2021Surficial,
  title={Surficial geology of the Vestfold Hills, East Antarctica (1st Edition) 1:65,
↪000},
  authors={McLennan, SM and Haiblen, AM and Smith, J},
  journal={pdf map and GIS dataset (1st Edition), http://pid.geoscience.gov.au/
↪dataset/ga/145535},
  year={2021}
}
```

3.9.4 SANAP 2006

Google Scholar Link

Bibtex citation

```
@article{Data2006TheSANAP,
  title={The SANAP Digital Geological Database},
  authors={Data,␣
↪compiledfromgeologicalmappingdoneundertheauspicesoftheSouthAfricanNationalAntarcticProgram}
↪,
  journal={SANAP Digital Geological Database},
  year={2006}
}
```

3.9.5 Siddoway et al. unpublished

Google Scholar Link

Bibtex citation

```
@article{Smith2015Geology,
  title={Geology of the Ford Ranges and Marie Byrd Land},
  authors={Smith, SiddowayC and  and et, al},
  journal={in preparation},
  year={2015}
}
```

3.10 Thesis Works Referenced

3.10.1 Adam 1994

Google Scholar Link

Bibtex citation

```
@article{Adam1994Thegeology,
  title={The geology of southern White Island, Antarctica},
  authors={Adam, LJ},
  journal={Unpublished B.Sc.(Hons) thesis},
  year={1994}
}
```

3.10.2 Allibone 1988

Google Scholar Link

Bibtex citation

```
@article{Allibone1988Koettlitz,
  title={Koettlitz Group metasediments and intercalated orthogneisses from the mid␣
↪Taylor Valley and Ferrar Glacier regions},
  authors={Allibone, AH},
  journal={Unpublished M.Sc. thesis},
  year={1988}
}
```

3.10.3 Aslund 1990

Google Scholar Link

Bibtex citation

```
@article{Aslund1990Magmatism,
  title={Magmatism and metamorphism of mafic intrusives of the Dromedary massif,␣
↪Antarctica},
  authors={Aslund, T},
  journal={Unpublished M.Sc. thesis},
  year={1990}
}
```

3.10.4 Barber 2003

Google Scholar Link

Bibtex citation

```
@article{Barber2003TheNeoproterozoic-early,
  title={The Neoproterozoic-early Paleozoic evolution of the Ross Orogeny in the
↪Reeves Bluffs area, southern Victoria Land, Antarctica},
  authors={Barber, AJW},
  journal={Unpublished M.Sc. thesis},
  year={2003}
}
```

3.10.5 Beckett 2002

Google Scholar Link

Bibtex citation

```
@article{Beckett2002TheFrio,
  title={The Frio Peak area, upper Walcott Glacier region, southern Victoria Land,
↪Antarctica},
  authors={Beckett, SA},
  journal={Unpublished M.Sc. thesis},
  year={2002}
}
```

3.10.6 Bleakley 1996

Google Scholar Link

Bibtex citation

```
@article{Bleakley1996Geology,
  title={Geology of Sirius Group at Mount Feather and Table Mountain South Victoria
↪Land Antarctica},
  authors={Bleakley, N},
  journal={Unpublished M.Sc. thesis},
  year={1996}
}
```

3.10.7 Brand 1979

Google Scholar Link

Bibtex citation

```
@article{Brand1979Lowgrade,
  title={Low grade metamorphic rocks of the Ruppert and Hobbs coasts of Marie Byrd
↪Land, Antarctica},
  authors={Brand and J, F},
  journal={PhD thesis, Plate VII},
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  year={1979}
}
```

3.10.8 Calkin 1963

Google Scholar Link

Bibtex citation

```
@article{Calkin1963Geomorphology,
  title={Geomorphology and glacial geology of the Victoria Valley system, southern␣
↪Victoria Land, Antarctica},
  authors={Calkin and P.E},
  journal={Unpublished Ph.D. thesis},
  year={1963}
}
```

3.10.9 Cook 1992

Google Scholar Link

Bibtex citation

```
@article{Cook1992Physical,
  title={Physical and chemical processes associated with deformation, South victoria␣
↪Land, Antarctica},
  authors={Cook and Y, A},
  journal={Unpublished M.Sc. thesis},
  year={1992}
}
```

3.10.10 Cook 1997

Google Scholar Link

Bibtex citation

```
@article{Cook1997TheSkelton,
  title={The Skelton Group and the Ross Orogeny: Late Neoproterozoic to Early␣
↪Ordovician Evolution of South Victoria Land, Antarctica},
  authors={Cook and Y, A},
  journal={Unpublished Ph.D. thesis},
  year={1997}
}
```

3.10.11 Cottle 2002

Google Scholar Link

Bibtex citation

```
@article{Cottle2002Astudy,
  title={A study of Ross Orogeny Magmatism in the Carlyon Glacier Region, southern␣
↪Victoria Land, Antarctica},
  authors={Cottle, JM},
  journal={Unpublished M.Sc. thesis},
  year={2002}
}
```

3.10.12 Coulter 2004

Google Scholar Link

Bibtex citation

```
@article{Coulter2004Thegeology,
  title={The geology of northern White Island, Southern Victoria Land, Antarctica},
  authors={Coulter, RF},
  journal={Unpublished P.G.Dip.Sci. thesis},
  year={2004}
}
```

3.10.13 Cox 1989

Google Scholar Link

Bibtex citation

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@article{Cox1989GneissGeology,
  title={Gneiss Geology - A structural perspective of foliated granitoids in Wright␣
↪Valley, southern Victoria Land, Antarctica},
  authors={Cox, SC},
  journal={Unpublished M.Sc. thesis},
  year={1989}
}
```

3.10.14 Currie 1986

Google Scholar Link

Bibtex citation

```
@article{Currie1986Thestructure,
  title={The structure and origin of the Strand Moraines Antarctica},
  authors={Currie, PJ},
  journal={Unpublished B.Sc. (Hons) thesis},
  year={1986}
}
```

3.10.15 Edgerton 1987

Google Scholar Link

Bibtex citation

```
@article{Edgerton1987Kinematic,
  title={Kinematic orientations of Precambrian Beardmore and Cambro-Ordovician Ross␣
↪orogenies, Goldie Formation, Nimrod Glacier area.},
  authors={Edgerton, DG},
  journal={Unpublished M.Sc. thesis},
  year={1987}
}
```

3.10.16 Eggers 1976

Google Scholar Link

Bibtex citation

```
@article{Eggers1976TheScallop,
  title={The Scallop Hill Formation, Brown Peninsula, McMurdo Sound, Antarctica},
  authors={Eggers, AJ},
  journal={Unpublished B.Sc. (Hons) thesis},
  year={1976}
}
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3.10.17 Ellery 1989

Google Scholar Link

Bibtex citation

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@article{Ellery1989LowerWright,
  title={Lower Wright Geology, Antarctica},
  authors={Ellery, SG},
  journal={Unpublished M.Sc. thesis},
  year={1989}
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3.10.18 Gabites 1985

Google Scholar Link

Bibtex citation

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@article{Gabites1985Triassic,
  title={Triassic paleoecology of the Lashley Formation, Transantarctic Mountains,␣
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  journal={Unpublished M.Sc. thesis},
  year={1985}
}
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3.10.19 Hall 1991

Google Scholar Link

Bibtex citation

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@article{Hall1991Petrology,
  title={Petrology and geochemistry of alkaline and granitoid intrusions, Pipecleaner␣
↪Glacier Region, Southern Victoria Land},
  authors={Hall, CE},
  journal={Unpublished M.Sc. thesis},
  year={1991}
}
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3.10.20 Hood Hills 2003

Google Scholar Link

Bibtex citation

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@article{Hood2003Ventstructures,
  title={Vent structures preserved in the Mawson Formation, a phreatomagmatic␣
↪volcanic complex in the Allan Hills, south Victoria Land},
  authors={Hood, HillsSB},
  journal={Unpublished M.Sc. thesis},
  year={2003}
}
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3.10.21 Jennings 1997

Google Scholar Link

Bibtex citation

```
@article{Jennings1997Sedimentology,
  title={Sedimentology of the Sirius Group at Table Mountain, Antarctica},
  authors={Jennings, I},
  journal={Unpublished B.Sc. (Hons) thesis},
  year={1997}
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3.10.22 Jones 1995

Google Scholar Link

Bibtex citation

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@article{Jones1995Structural,
  title={Structural evolution of northern Walcott Bay, South Victoria Land,␣
↪Antarctica},
  authors={Jones, SA},
  journal={Unpublished M.Sc. thesis},
  year={1995}
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3.10.23 Judd 1986

Google Scholar Link

Bibtex citation

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@article{Judd1986Thechronology,
  title={The chronology of the Ross Sea II glaciation an Antarctic glaciation of
↪Illinoian age},
  authors={Judd, FM},
  journal={Unpublished M. Sc. thesis},
  year={1986}
}
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3.10.24 Keiller 1991

Google Scholar Link

Bibtex citation

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@article{Keiller1991WrightDykes,
  title={Wright Dykes - a geochemical study of the dyke-forming rock types of the
↪Wright Valley, southern Victoria Land, Antarctica},
  authors={Keiller, IG},
  journal={Unpublished M.Sc. thesis},
  year={1991}
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3.10.25 Kyle 1971

Google Scholar Link

Bibtex citation

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@article{Kyle1971Thegeology,
  title={The geology and geochemistry of Cape Crozier, Ross Island, Antarctica},
  authors={Kyle, PR},
  journal={Unpublished B.Sc. (Hons) thesis},
  year={1971}
}
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3.10.26 Kyle 1976

Google Scholar Link

Bibtex citation

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@article{Kyle1976Geology,,
  title={Geology, mineralogy and geochemistry of the Late Cenozoic McMurdo Volcanic
↪Group, Victoria Land, Antarctica},
  authors={Kyle, PR},
  journal={Unpublished Ph.D. thesis},
  year={1976}
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3.10.27 La Prade 1969

Google Scholar Link

Bibtex citation

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@article{La1969Geology,
  title={Geology of the Shackleton Glacier Area, Queen Maud Range, Transantarctic␣
↪Mountains, Antarctica.},
  authors={La, PradeKE},
  journal={Unpublished Ph.D. thesis},
  year={1969}
}
```

3.10.28 Lockett 2003

Google Scholar Link

Bibtex citation

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@article{Lockett2003Landslide,
  title={Landslide and debris flow deposits at the margin of a large vent complex,␣
↪Mawson Formation, Allan Hills, southern Victoria Land},
  authors={Lockett, GM},
  journal={Unpublished M.Sc. thesis},
  year={2003}
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3.10.29 Martin 2009

Google Scholar Link

Bibtex citation

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  title={Mt Morning Antarctica Geochem, geochronology, petrology, volcanology and␣
↪oxygen fugacity of the rifted Antarctic lithosphere},
  authors={Martin and A.P},
  journal={Unpublished Ph.D. thesis},
  year={2009}
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3.10.30 McKelvey 1960

Google Scholar Link

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  title={Geological investigations in South Victoria Land, Antarctica},
  authors={McKelvey, BC},
  journal={Unpublished M.Sc. thesis},
  year={1960}
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3.10.31 Mellish 2000

Google Scholar Link

Bibtex citation

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@article{Mellish2000Panorama,
  title={Panorama Geology, Antarctica},
  authors={Mellish, SD},
  journal={Unpublished M.Sc. thesis},
  year={2000}
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3.10.32 Minshew 1967

Google Scholar Link

Bibtex citation

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@article{Minshew1967Geology,
  title={Geology of the Scott Glacier and Wisconsin Range areas, central␣
↪Transantarctic Mountains, Antarctica},
  authors={Minshew, VH},
  journal={Unpublished PhD thesis Fig 3},
  year={1967}
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3.10.33 Morrison 1989

Google Scholar Link

Bibtex citation

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@article{Morrison1989FerrarDolerite,
  title={Ferrar Dolerite intrusions at Terra Cotta Mountain, Southern Victoria Land,␣
↪Antarctica},
  authors={Morrison, AD},
  journal={Unpublished M.Sc. thesis},
  year={1989}
}
```

3.10.34 Murphy 1971

Google Scholar Link

Bibtex citation

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@article{Murphy1971Thepetrology,
  title={The petrology and deformational history of the basement complex, Wright␣
↪valley, Antarctica},
  authors={Murphy, DJ},
  journal={Unpublished Ph.D. thesis},
  year={1971}
}
```

3.10.35 Prebble 1963

Google Scholar Link

Bibtex citation

```
@article{Prebble1963Lamprophyre,,
  title={Lamprophyre, microgranite, and porphyry dykes of the Taylor Valley region,␣
↪Southern Victoria Land, Antarctica},
  authors={Prebble, WM},
  journal={Unpublished B.Sc. (Hons) thesis},
  year={1963}
}
```

3.10.36 Pyne 1986

Google Scholar Link

Bibtex citation

```
@article{Pyne1986Sedimentology,
  title={Sedimentology of Weller Coal Measures at Mount Fleming, Antarctica},
  authors={Pyne, AR},
  journal={Unpublished M.Sc. thesis},
  year={1986}
}
```

3.10.37 Read 2010

Google Scholar Link

Bibtex citation

```
@article{Read2010PhDthesis,
  title={PhD thesis in prep},
  authors={Read, SE},
  journal={Unpublished Ph.D. thesis},
  year={2010}
}
```

3.10.38 Richardson 2002

Google Scholar Link

Bibtex citation

```
@article{Richardson2002Geology,
  title={Geology of west Worchester Hills, southern Victoria Land, Antarctica},
  authors={Richardson, CD},
  journal={Unpublished M.Sc. thesis},
  year={2002}
}
```

3.10.39 Simpson 2002

Google Scholar Link

Bibtex citation

```
@article{Simpson2002Felsicmagmatism,
  title={Felsic magmatism in the Darwin Glacier region, southern Victoria Land,␣
↪Antarctica},
  authors={Simpson, AL},
  journal={Unpublished M.Sc. thesis},
  year={2002}
}
```

3.10.40 Smillie 1989

Google Scholar Link

Bibtex citation

```
@article{Smillie1989Granite,
  title={Granite Harbour Intrusives, Taylor Valley and ferrar Glacier region,␣
↪southern Victoria Land, Antarctica},
  authors={Smillie, RW},
  journal={Unpublished M.Sc. thesis},
  year={1989}
}
```

3.10.41 Timms 2006

Google Scholar Link

Bibtex citation

```
@article{Timms2006Reconstruction,
  title={Reconstruction of a grounded ice sheet in McMurdo Sound - evidence from␣
↪southern Black Island, Antarctica},
  authors={Timms, CJ},
  journal={Unpublished M.Sc. thesis},
  year={2006}
}
```

3.10.42 Walcott 1990

Google Scholar Link

Bibtex citation

```
@article{Walcott1990Koettlitz,
  title={Koettlitz Group Structure},
  authors={Walcott, RC},
  journal={Unpublished M.Sc. thesis},
  year={1990}
}
```

3.10.43 Waters 1993

Google Scholar Link

Bibtex citation

```
@article{Waters1993TheSwinford,
  title={The Swinford and Harker Plutons: a study in late-orogenic magmatism,␣
↪southern Victoria Land, Antarctica},
  authors={Waters, AE},
  journal={Unpublished M.Sc. thesis},
  year={1993}
}
```

3.10.44 Willis 1961

Google Scholar Link

Bibtex citation

```
@article{Willis1961Quaternary,
  title={Quaternary volcanics of the Koettlitz-Blue Glacier region, southern Victoria␣
↪Land, Antarctica},
  authors={Willis, IAG},
  journal={Unpublished B.Sc. (Hons) thesis},
  year={1961}
}
```

3.10.45 Wilson 1989

Google Scholar Link

Bibtex citation

```
@article{Wilson1989Sedimentary,
  title={Sedimentary facies and processes, and Quaternary history of the Miers Valley,
↪ South Victoria Land, Antarctica},
  authors={Wilson, G},
  journal={Unpublished B.Sc. (Hons) thesis},
  year={1989}
}
```

3.10.46 Worley 1992

Google Scholar Link

Bibtex citation

```
@article{Worley1992Dismalgeology:,
  title={Dismal geology: a study of magmatic and subsolidus processes in a carbonated␣
↪alkaline intrusion, South Victoria Land, Antarctica},
  authors={Worley, BA},
  journal={Unpublished M.Sc. thesis},
```

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```
  year={1992}
}
```

3.10.47 Wynward 2004

Google Scholar Link

Bibtex citation

```
@article{Wynyard2004Geology,
  title={Geology of the Cocks Glacier area, Antarctica},
  authors={Wynyard, MJ},
  journal={Unpublished M.Sc. thesis},
  year={2004}
}
```

3.11 Unpublished Works Referenced

3.11.1 Anon 1998

Bibtex citation

```
@article{AAD1998MawsonEscarpment,
  title={Mawson Escarpment Geology},
  authors={AAD and AGSO and Authors, unknown},
  journal={AGSO unpublished},
  year={1998}
}
```

3.11.2 Barrett 1971

Bibtex citation

```
@article{Barrett1971MountHarmsworth,
  title={Mount Harmsworth sheet},
  authors={Barrett, PJ and et, al},
  journal={Unpublished geological map},
  year={1971}
}
```

3.11.3 Bryan et al. 1983

Bibtex citation

```
@article{Bryan1983Geological,
  title={Geological map of the Upper Wright valley area, southern Victoria Land,␣
↪Antarctica},
  authors={Bryan, JH and Witby, KJ and Edbrooke, SW},
  journal={Unpublished map, GNS Science files, Lower Hutt},
  year={1983}
}
```

3.11.4 Cox 1993

Bibtex citation

```
@article{Cox1993Geological,
  title={Geological map of the Radian Glacier area, South Victoria Land, Antarctica},
  authors={Cox, SC},
  journal={Unpublished field map},
  year={1993}
}
```

3.11.5 Cox & Worley unpub.

Bibtex citation

```
@article{Cox1990Geological,
  title={Geological map of the Miers Valley, South Victoria Land, Antarctica},
  authors={Cox, SC and Worley, B},
  journal={Unpublished field map},
  year={1990}
}
```

3.11.6 Elliot 2019 unpublished

Bibtex citation

```
@article{Elliot2019Reconnaissance,
  title={Reconnaissance map of the Cloudmaker sheet},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2019}
}
```

3.11.7 Elliot 2021a unpublished

Bibtex citation

```
@article{Elliot2021Interpretation,
  title={Interpretation of Beacon in the Cape Roberts Massif and Schroeder Hill},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2021}
}
```

3.11.8 Elliot 2021b unpublished

Bibtex citation

```
@article{Elliot2021Interpretation,
  title={Interpretation of the Cape Surprise area based on Barrett 1965},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2021}
}
```

3.11.9 Elliot 2021c unpublished

Bibtex citation

```
@article{Elliot2021Interpretation,
  title={Interpretation of Beacon in the Bush Mountains (Mt Cromie-Mt Butters)},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2021}
}
```

3.11.10 Elliot 2021d unpublished

Bibtex citation

```
@article{Elliot2021Interpretation,
  title={Interpretation of Beacon in the Bennett Platform-Mt Heekin area},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2021}
}
```

3.11.11 Elliot 2021e unpublished

Bibtex citation

```
@article{Elliot2021Interpretation,
  title={Interpretation of Beacon in the Red Raider-Banded Bluff area},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2021}
}
```

3.11.12 Elliot 2021f unpublished

Bibtex citation

```
@article{Elliot2021Interpretation,
  title={Interpretation of Beacon in the Cumulus Hills},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2021}
}
```

3.11.13 Elliot 2021g unpublished

Bibtex citation

```
@article{Elliot2021Interpretation,
  title={Interpretation of Beacon in the Mt Wade area},
  authors={Elliot, DH},
  journal={Unpublished},
  year={2021}
}
```

3.11.14 Forsyth et al. 2002

Bibtex citation

```
@article{Forsyth2002Geological,
  title={Geological map of the Granite Harbour area},
  authors={Forsyth, PJ and Rattenbury, MS and Tulloch, AJ},
  journal={Unpublished geological mapping},
  year={2002}
}
```

3.11.15 Forsyth et al. 2003

Bibtex citation

```
@article{Forsyth2002Geological,
  title={Geological map of the lower Ferrar Glacier area},
  authors={Forsyth, PJ and Rattenbury, MS and Tulloch, AJ},
  journal={Unpublished geological mapping},
  year={2002}
}
```

3.11.16 Goodge 2008 unpublished

Bibtex citation

```
@article{Goodge2008Geological,
  title={Geological map of the Nimrod-Beardmore Glaciers Regions, Central␣
↪Transantarctic Mountains. Antarctica},
  authors={Goodge, JW},
  journal={Unpublished compilation map },
  year={2008}
}
```

3.11.17 Griffin unpublished

Bibtex citation

```
@article{Griffin1985Structural,
  title={Structural geology of Beaver Island and Bowl Island (inset Fig 3 in Sheraton␣
↪1985)},
  authors={Griffin, A},
  journal={Unpublished data, Geology Dept. University of Melbourne},
  year={1985}
}
```

3.11.18 Kyle 2008

Bibtex citation

```
@article{Kyle2008Geological,
  title={Geological map of Mt Erebus},
  authors={Kyle and P},
  journal={www.ees.nmt.edu/Geop/mevo/geology/geomap.html},
  year={2008}
}
```

3.11.19 Lewis 2010

Bibtex citation

```
@article{Lewis2010Unpublished,
  title={Unpublished map of lake deposits, Olympus range},
  authors={Lewis, AR and et, al},
  journal={in preparation},
  year={2010}
}
```

3.11.20 Prentice 1998

Bibtex citation

```
@article{Prentice1998Geological,
  title={Geological map of the Dry Valleys area},
  authors={Prentice, M and others},
  journal={Unpublished geological mapping},
  year={1998}
}
```

3.11.21 Rose et al. 1988

Bibtex citation

```
@article{Rose1988Geological,
  title={Geological map of the Robison Peak-Mount Bastion-Sponsors Peak Area,␣
↪Antarctica},
  authors={Rose, G and Bradley, GM and Gumbley, J and Isaac, M},
  journal={Unpublished map, GNS Science files, Lower Hutt},
  year={1988}
}
```

3.11.22 Simpson 1994

Bibtex citation

```
@article{Simpson1994Geological,
  title={Geological map of the Renegar Glacier - Foster Glacier, South Victoria Land,␣
↪Antarctica},
  authors={Simpson, G},
  journal={Unpublished field map},
  year={1994}
}
```

3.11.23 Storey et al. 1986

Bibtex citation

```
@article{Storey1986Geology,
  title={Geology of the central Black Coast, eastern Palmer Land},
  authors={Storey, BC and Wever, HE and Rowley, PD and Ford and A.B},
  journal={British Antarctic Survey Field Report 1986-87 AD6/2R/1986/G2},
  year={1986}
}
```

3.11.24 Woolfe 1992

Bibtex citation

```
@article{Woolfe1992Geology,
  title={Geology of the Allan Hills, Southern Victoria Land, Antarctica - with␣
↪special reference to the Beacon Supergroup},
  authors={Woolfe, KJ and Arnot, MJ and Barrett, PJ and Francis, JE},
  journal={Manuscript submitted to NZJGG 1992 prior to Kens death},
  year={1992}
}
```

3.12 Unknown Works Referenced

3.12.1 Board et al. 2005

Bibtex citation

```
@article{Board2005Pan-African,
  title={Pan-African Tectonism in the Western Maud Belt: P-T-t path for high-grade␣
↪gneisses in the H.U. Sverdrupfjella, East Antarctica},
  authors={Board, W and Frimmel, H and Armstrong, R},
  journal={Journal of Petrology 46(4):671-699},
  year={2005}
}
```

3.12.2 Capponi et al. in prep

Bibtex citation

```
@article{Capponi2019TheConvoy,
  title={The Convoy Range mapping project, Victoria Land, Antarctica},
  authors={Capponi, G and Montomoli, C and Casale, S and Simonetti, M and Läufer, A␣
↪and Musumeci, G and Salvatore, MC},
  journal={Unpublished field mapping and conference posters},
  year={2019}
}
```

3.12.3 Ferrar & Courtnage 1996

Bibtex citation

```
@article{Ferrar1996Airphoto,
  title={Air photo geological mosaic of Armalsryggen, Northern Kirwanveggen},
  authors={Ferrar, G and Courtnage, P},
  journal={SANAP geological map},
  year={1996}
}
```

3.12.4 Ferrar et al. 1996

Bibtex citation

```
@article{Ferrar1996Geological,
  title={Geological Map of the Kirwanveggen, Western Dronning Maud Land, East␣
↪Antarctica},
  authors={Ferrar, G and Harris, P and Jackson, C and Knoper, M and Krynauw, J and␣
↪Courtnage, P and Gold, D and Graeser, P and Johnstone, W and Lewis, R and Manson, I␣
↪and Moyes, A and Uiken, R},
  journal={SANAP geological map},
  year={1996}
}
```

3.12.5 Jacobs unpublished

Bibtex citation

```
@article{Jacobs2019Schirmacher,
  title={Schirmacher area - personal communication (unpublished data)},
  authors={Jacobs and J},
  journal={Unpublished personal communication},
  year={2019}
}
```

3.13 Faults Field Glossary

3.13.1 NAME

- **Reference:** Free text containing name of the fault and conforming to the GeoSciML usage of name.
- **Type:** Text
- **Length:** 150.0
- **GeoSciML Name:** name

More Information:

- **Unique Values:** 66
- **Most frequently occurring value:**

- **Number of values with a single occurrence:** 35

3.13.2 DESCR

- **Reference:** Restricted text that describes the fault and conforming to the GeoSciML usage of description.
- **Type:** Text
- **Length:** 255.0
- **Source:** *Restricted List*
- **GeoSciML Name:** description

More Information:

- **Unique Values:** 10
- **Most frequently occurring value:** fault (inactive)
- **Number of values with a single occurrence:** 3

3.13.3 TYPENAME

- **Reference:** Restricted text that describes the type of fault and conforming to the GeoSciML usage of faultType. Must match entryname of TYPE_URI.
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **GeoSciML Name:** faultType

More Information:

- **Unique Values:** 12
- **Most frequently occurring value:** fault
- **Number of values with a single occurrence:** 1

3.13.4 TYPE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the faultType. Must be a valid URI from:
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/cgi/faulttype
- **GeoSciML Name:** faultType_uri

More Information:

- **Unique Values:** 12
- **Most frequently occurring value:** http://resource.geosciml.org/classifier/cgi/faulttype/fault

- **Number of values with a single occurrence:** 1

3.13.5 ACCURACY

- **Reference:** Restricted text describing the accuracy with which the feature is located.
- **Type:** Text
- **Length:** 20.0
- **Source:** *Restricted List*

More Information:

- **Unique Values:** 3
- **Most frequently occurring value:** uncertain
- **Number of values with a single occurrence:** 0

3.13.6 EXPOSURE

- **Reference:** Restricted text that describes the exposure of the fault.
- **Type:** Text
- **Length:** 50.0
- **Source:** *Restricted List*

More Information:

- **Unique Values:** 3
- **Most frequently occurring value:** unknown
- **Number of values with a single occurrence:** 0

3.13.7 ACTIVITY

- **Reference:** Restricted text that describes if the fault is considered active.
- **Type:** Text
- **Length:** 20.0
- **Source:** *Restricted List*

More Information:

- **Unique Values:** 4
- **Most frequently occurring value:** inactive
- **Number of values with a single occurrence:** 0

3.13.8 DEFRMSTYLE

- **Reference:** Restricted text that describes the style of deformation associated with fault and conforming to the GeoSciML usage of deformationStyle. Must match entryname of DEFRM_URI.
- **Type:** Text
- **Length:** 50.0
- **GeoSciML Name:** deformationStyle

More Information:

- **Unique Values:** 4
- **Most frequently occurring value:** unknown
- **Number of values with a single occurrence:** 0

3.13.9 DEFRM_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the deformationStyle. Must be a valid URI from:
- **Type:** Text
- **Length:** 150.0
- **Source:** http://resource.geosciml.org/classifier/cgi/faultmovementsense
- **GeoSciML Name:** deformationStyle_uri

More Information:

- **Unique Values:** 4
- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/unknown
- **Number of values with a single occurrence:** 0

3.13.10 MVTTYPE

- **Reference:** Restricted text that describes the type of movement associated with fault and conforming to the GeoSciML usage of movementType. Must match entryname of MVTTYP_URI.
- **Type:** Text
- **Length:** 50.0
- **GeoSciML Name:** movementType

More Information:

- **Unique Values:** 5
- **Most frequently occurring value:** unknown
- **Number of values with a single occurrence:** 0

3.13.11 MVTTYP_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the movementType. Must be a valid URI from:
- **Type:** Text
- **Length:** 150.0
- **Source:** http://resource.geosciml.org/classifier/cgi/faultmovementtype
- **GeoSciML Name:** movementType_uri

More Information:

- **Unique Values:** 5
- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/unknown
- **Number of values with a single occurrence:** 0

3.13.12 DISPLCMNT

- **Reference:** Free text that summarises the displacement across the fault and conforming to the GeoSciML usage of displacement.
- **Type:** Text
- **Length:** 50.0
- **GeoSciML Name:** displacement

More Information:

- **Unique Values:** 5
- **Most frequently occurring value:** total slip unknown
- **Number of values with a single occurrence:** 0

3.13.13 DOWNQUAD

- **Reference:** Restricted text defining the down thrown side of the fault.
- **Type:** Text
- **Length:** 4.0
- **Source:** *Restricted List*

More Information:

- **Unique Values:** 9
- **Most frequently occurring value:** unknown
- **Number of values with a single occurrence:** 0

3.13.14 DIP_DEG

- **Reference:** Restricted value that defines the mean dip of the fault plane.
- **Type:** Short
- **Source:** Any integer value between 0 and 90. 99 indicates a missing value.

More Information:

- **Unique Values:** 14
- **Most frequently occurring value:** 99
- **Number of values with a single occurrence:** 3

3.13.15 DIPDIR_DEG

- **Reference:** Restricted value that defines the mean dip direction of the fault plane
- **Type:** Short
- **Source:** Any integer value between 0 and 360. 999 indicates a missing value.

More Information:

- **Unique Values:** 36
- **Most frequently occurring value:** 999
- **Number of values with a single occurrence:** 8

3.13.16 GEOLHIST

- **Reference:** Free text that describes the age of faulting events and conforming to the GeoSciML usage of geologicHistory.
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **GeoSciML Name:** geologicHistory

More Information:

- **Unique Values:** 16
- **Most frequently occurring value:** Activity unknown
- **Number of values with a single occurrence:** 3

3.13.17 REPAGE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the stratigraphic age that best represents the activity on the fault. Must be a URI from:
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/ics/ischart/GeochronologicEras
- **GeoSciML Name:** representativeAge_uri

More Information:

- **Unique Values:** 9
- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/unknown
- **Number of values with a single occurrence:** 0

3.13.18 YNGAGE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the stratigraphic age that best represents the youngest activity on the fault. Must be a URI from:
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/ics/ischart/GeochronologicEras
- **GeoSciML Name:** representativeOlderAge_uri

More Information:

- **Unique Values:** 10
- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/unknown
- **Number of values with a single occurrence:** 0

3.13.19 OLDAGE_URI

- **Reference:** Restricted text that contains a link to the GeoSciML definition of the stratigraphic age that best represents the oldest activity on the fault. Must be a URI from:
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/ics/ischart/GeochronologicEras
- **GeoSciML Name:** representativeYoungerAge_uri

More Information:

- **Unique Values:** 11

- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/unknown
- **Number of values with a single occurrence:** 0

3.13.20 OBSMETHOD

- **Reference:** Restricted text that describes the method of observation used to capture the fault and conforming to the GeoSciML usage of observationMethod. Must match entryname of URI from:
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **Source:** http://resource.geosciml.org/classifier/cgi/featureobservationmethod
- **GeoSciML Name:** observationMethod

More Information:

- **Unique Values:** 4
- **Most frequently occurring value:** digital conversion from published source
- **Number of values with a single occurrence:** 1

3.13.21 CONFIDENCE

- **Reference:** Free text that provides a statement concerning the accuracy of the data provided in associated fields. Fields which contain data about which there is uncertainty are listed.
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values

More Information:

- **Unique Values:** 30
- **Most frequently occurring value:** TYPENAME from SOURCE map; DEFRMSTYLE, MVTTYPE, DISPLCMNT and GEOLHIST uncertain
- **Number of values with a single occurrence:** 4

3.13.22 POSACC_M

- **Reference:** An estimate of the accuracy (in metres) within which the fault has been located and conforming to the GeoSciML usage of positionalAccuracy.
- **Type:** Long
- **Field Values:** List of Values
- **GeoSciML Name:** positionalAccuracy

More Information:

- **Unique Values:** 6
- **Most frequently occurring value:** 1000

- **Number of values with a single occurrence:** 0

3.13.23 SOURCE

- **Reference:** Free text that contains information on the source of the fault and conforming to the GeoSciML usage of source.
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **GeoSciML Name:** source

More Information:

- **Unique Values:** 72
- **Most frequently occurring value:** Cox et al. 2012
- **Number of values with a single occurrence:** 5

3.13.24 METADATA

- **Reference:** Free text that contains a link to metadata describing the dataset and conforming to the GeoSciML usage of metadata.
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **GeoSciML Name:** metadata_uri

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:** https://data.gns.cri.nz/metadata/srv/eng/catalog.search#/metadata/04A23A8E-DF36-4C06-9EF4-4DB4AC9A9E19
- **Number of values with a single occurrence:** 0

3.13.25 RESSCALE

- **Reference:** Resolution at which the fault is intended to be used.
- **Type:** Long
- **Length:** 4.0
- **Field Values:** List of Values

More Information:

- **Unique Values:** 8
- **Most frequently occurring value:** 250000
- **Number of values with a single occurrence:** 0

3.13.26 CAPTSCALE

- **Reference:** Resolution at which the fault was captured.
- **Type:** Long
- **Length:** 4.0
- **Field Values:** List of Values

More Information:

- **Unique Values:** 8
- **Most frequently occurring value:** 50000
- **Number of values with a single occurrence:** 1

3.13.27 CAPTDATE

- **Reference:** Date when the fault was added to this dataset.
- **Type:** Date
- **Length:** 8.0
- **Field Values:** List of Values

More Information:

- **Unique Values:** 22
- **Most frequently occurring value:** 2015-11-24 00:00:00+00:00
- **Number of values with a single occurrence:** 2

3.13.28 MODDATE

- **Reference:** Date when the fault was last modified.
- **Type:** Date
- **Length:** 8.0
- **Field Values:** List of Values

More Information:

- **Unique Values:** 29
- **Most frequently occurring value:** 2019-03-29 00:00:00+00:00
- **Number of values with a single occurrence:** 3

3.13.29 PLOTRANK

- **Reference:** Free integer controling plotting of the fault for a specific use.
- **Type:** Long

More Information:

- **Unique Values:** 3
- **Most frequently occurring value:** 250000
- **Number of values with a single occurrence:** 0

3.13.30 FEATUREID

- **Reference:** Globally unique identifer for the fault and conforming to the GeoSciML usage of identifier. (e.g. ATA_GeoMAP_faults_00066)
- **Type:** Text
- **Length:** 150.0
- **GeoSciML Name:** identifier

More Information:

- **Unique Values:** 1784
- **Most frequently occurring value:** ATA_GeoMAP_faults_00001
- **Number of values with a single occurrence:** 1784

3.13.31 SPEC_URI

- **Reference:** Restricted text that contains a link referring to the GeoSciML ShearDisplacementStructure feature that describes the instance in detail.
- **Type:** Text
- **Length:** 150.0
- **Field Values:** List of Values
- **Source:** http://www.opengis.net/def/nil/OGC/0/missing
- **GeoSciML Name:** specification_uri

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:** http://www.opengis.net/def/nil/OGC/0/missing
- **Number of values with a single occurrence:** 0

3.13.32 SYMBOL

- **Reference:** Restricted text containing an identifier for a symbol from standard symbolization scheme for use in GeoSciML portrayal.
- **Type:** Text
- **Length:** 50.0
- **Field Values:** List of Values
- **GeoSciML Name:** genericSymbolizer

More Information:

- **Unique Values:** 1
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 0

3.14 Quality Information Field Glossary

3.14.1 OUTCROP

- **Reference:** Restricted text indicating existence of rock outcrop in this area.
- **Type:** String
- **Length:** 10
- **Source:** Choose from: yes or no
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 2
- **Most frequently occurring value:** no
- **Number of values with a single occurrence:** 0

3.14.2 QUALITY

- **Reference:** Restricted text signifying a quality assessment of the compiled data for SCAR GeoMAP v.2022-08 geological dataset of Antarctica
- **Type:** Integer
- **Length:** 2
- **Source:** *Restricted List*
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 5
- **Most frequently occurring value:** 0
- **Number of values with a single occurrence:** 0

3.14.3 COMMENTS

- **Reference:** Free text comprising commentary on information available for mapped features in this area.
- **Type:** String
- **Length:** 250
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 22
- **Most frequently occurring value:**
- **Number of values with a single occurrence:** 0

3.14.4 DATASET

- **Reference:** Free text indicating broad geographical area containing mapped features in this area.
- **Type:** String
- **Length:** 50
- **Field Values:** List of Values
- **fieldSource:** GeoMAP

More Information:

- **Unique Values:** 16
- **Most frequently occurring value:** WAAT
- **Number of values with a single occurrence:** 1

3.14.5 FEATUREID

- **Reference:** Globally unique identifer for the feature and conforming to the GeoSciML usage of identifier. (e.g. ATA_GeoMAP_quality_00015)
- **Type:** String
- **Length:** 150
- **fieldSource:** GeoSciML

More Information:

- **Unique Values:** 43201
- **Most frequently occurring value:** ATA_GeoMAP_quality_00001
- **Number of values with a single occurrence:** 43201

3.15 Restricted Values

3.15.1 activity

- active
- probably active
- possibly active
- probably inactive
- inactive
- unknown

3.15.2 faultDescription

- craton boundary (inactive)
- fault (active)
- fault (inactive)
- fault (possibly active)
- fault (probably active)
- fault (probably inactive)
- suture (inactive)
- suture (possibly active)
- Note: descriptions can be modified by the addition of 'feature inferred'; eg. 'fault (probably inactive), feature inferred'

3.15.3 locationAccuracy

- accurate
- approximate
- diagrammatic
- uncertain
- unknown

3.15.4 downQuadrant

- N
- NE
- E
- SE
- S

- SW
- W
- NW
- none
- unknown

3.15.5 polygType

- ice
- moraine
- rock

3.15.6 exposure

- concealed
- exposed
- uncertain
- unknown

3.15.7 SIMPCODE

3.15.8 ageCode

3.15.9 LITHCODE

3.15.10 quality

3.15.11 tectonicProvince

- Antarctic Peninsula
- Bowers Terrane
- Central Antarctic Craton
- Ellsworth-Whitmore Mountains
- Haag Nunataks
- Indo-Antarctic Craton
- Kalahari Craton
- Mawson Craton
- Robertson Bay Terrane
- Thurston Island
- Transantarctic Mountains

- Weddell Sea region
- West Antarctic Rift System
- Wilson Terrane

CHAPTER

FOUR

SOURCE CODE

- These pages open source. You can find the content source and build scripts in this Github repository
- To report a problem with the documentation or contact Sam, please open up an issue on github or send an email to samuel.elkind@gmail.com