

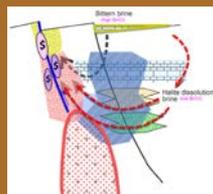
NWMP Discovery Program Components

Comprehensive compilation



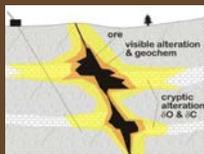
- updating the existing open file data compilations (to extent possible)
- distilling the results of geoscientific studies
- ensuring that this information is comprehensive, spatially consistent, well-explained
- delivered in a form which can be easily used by explorers and other projects

Mineral systems insight



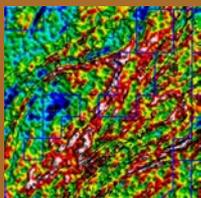
- Regional structural/stratigraphic targeting frameworks
- Mineral systems and footprints
- Studies of Igneous fertility
- New insights from data analytics

Exploration toolkits



- Atlas of Northwest Mineral Province mineral deposits
- Geochemistry over post-mineralisation cover sequences
- Halo models for recognition of blind or covered systems

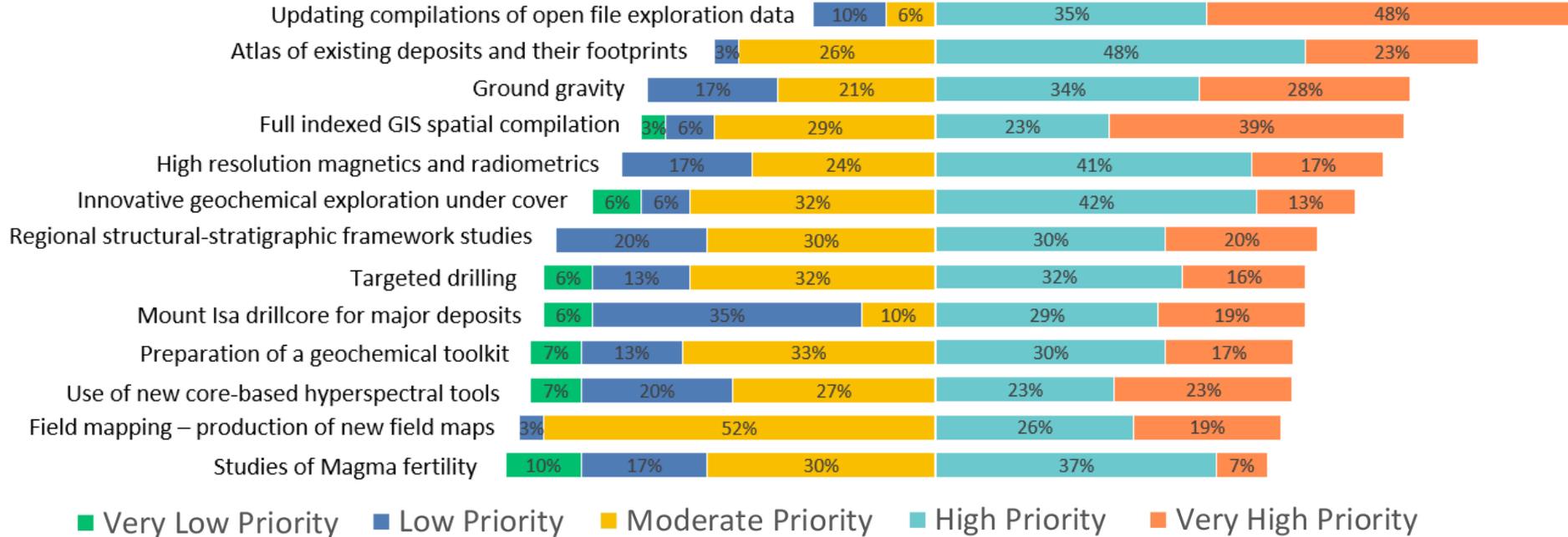
Transformative new data and interpretations



- New regional airborne gravity gradiometry
- Cover geochemical surveys
- Targeted drilling
- New interpretations of existing precompetitive datasets



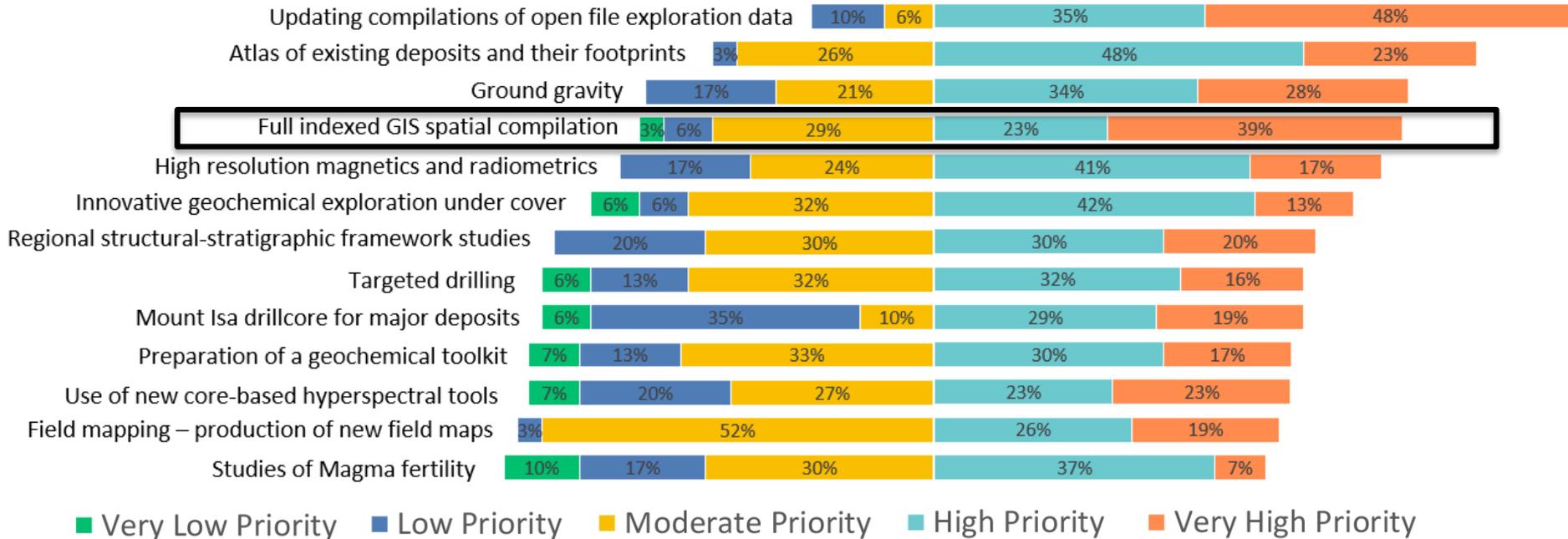
Survey of Industry – top half priorities



- Open file exploration data (1/26)
- Atlas of existing deposits and footprints (2/26)
- Full indexed GIS spatial compilation (4/26)
- Mount Isa drillcore repository (9/26)



Full indexed spatial data compilation



Full indexed GIS spatial compilation

- Faceted spatial data index
- Updated time-space chart
- GIS time-sliced stratigraphy, structure, igneous events
- 2D isopachs/depths from existing 3D models
- Exploration target compilation
- Compilation of miscellaneous legacy datasets
 - Metamorphic map
 - NABRE sections
 - CRC LEME regolith maps
 - Others as available
- Update of solid geology interpretation where justified



SMI BRC

WH Bryan Mining &
Geology Research Centre

September 2018



‘SOLID GEOLOGICAL INTERPRETATION of the southern EASTERN FOLD BELT, Mt Isa, Northwest Queensland’



Queensland Government
Department of Natural Resources and Mines

Geological Survey of Queensland

*Mark Hinman, Danny Huisman,
Glen Little & Matt Porter*



INDUSTRY-UNIVERSITY-GOVERNMENT COLLABORATION

AN INDUSTRY-UNIVERSITY-GOVERNMENT COLLABORATION

SOLID GEOLOGY INTERPRETATION of the southern EASTERN FOLD BELT, Mt Isa, Northwest Queensland.

Mark HINMAN,
Danny HUISMAN,
Glen LITTLE
& Matt PORTER
June, 2018

Data contributed by:
**South32,
Minotaur Exploration,
Sandfire Resources**

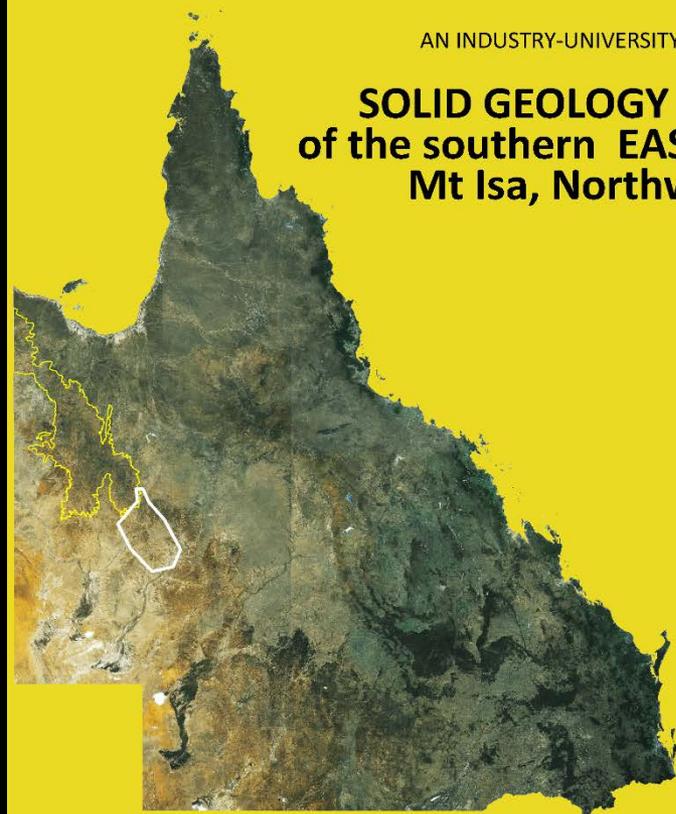
Interpretation funded by:
**Qld Government's New Discovery
Program in Northwest Queensland**

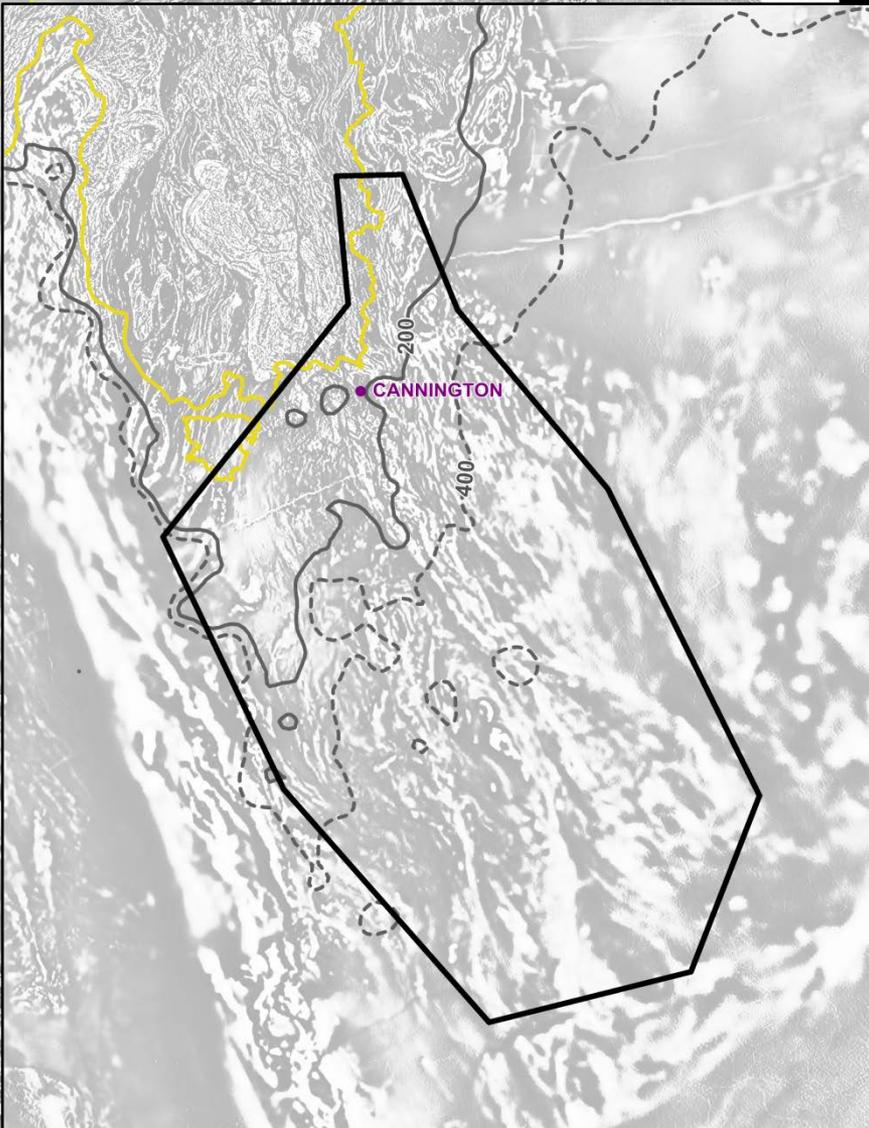
Interpretation carried out by:
UQ-SMI-BRC (Mark Hinman)

FINAL REPORT & Data on QDEX ...

<http://qdexdata.dnrm.qld.gov.au/QDEXDataDownloadManager/Results?type=Report&id=108143>

*T-x Chart, GIS Solid Geology, process-oriented BHT model
discussion, Prospectivity*





**Southern extension of
EASTERN FOLD BELT ...**

... under significant Mesozoic cover

— Proterozoic Outcrop Extent

SOLID GEOLOGY of the southern EASTERN FOLD BELT, Mt Isa

Mark HINMAN June, 2018



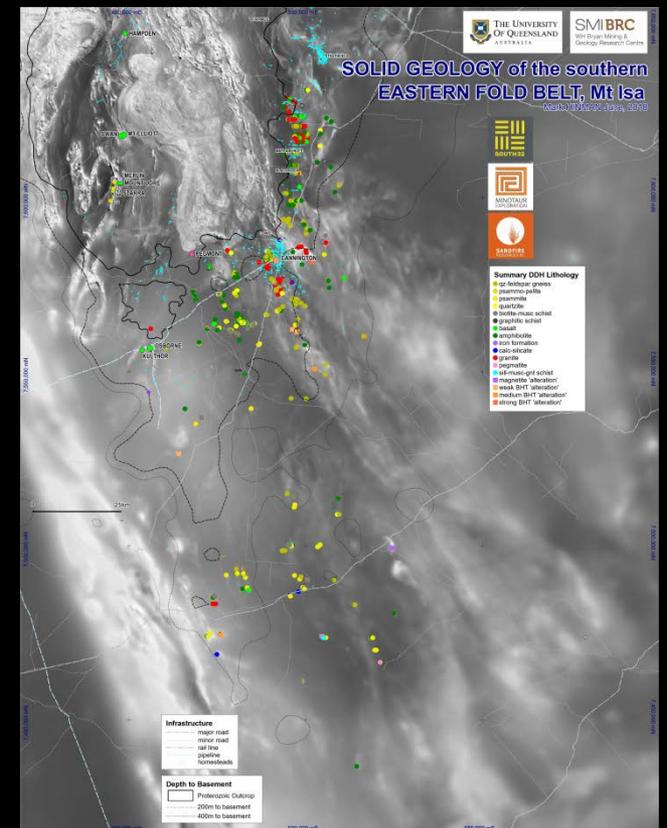
- DMQ Structure**
- late dykes
 - late Fault
 - granite contact
 - late D4 Fault
 - early C4 Fault
 - D3 Fault
 - D2 Fault
 - D2 antiform
 - D2 synform
 - D1 Fault
 - D1 antiform
 - D1 synform
 - pre D1 Faults
- metamorphic trends
- meladolomite
 - melabasalt
 - iron formation
 - contacts
 - formational trends

- Structure**
- late dykes
 - late faults
 - Cloncurry Fault
 - intrusive aureole
 - granite margin
 - D2 Fault
 - D2 antiform
 - D2 synform
 - D1 Fault
 - D1 antiform
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 - contact-transitional contact
 - contact-ill defined
 - formational trends
 - iron formations
 - basalt
 - mafic sill

- Lithology**
- Williams Suite Intrusives
 - Williams Suite Intrusives
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 - Toole Creek Volcanics-1
 - Toole Creek Volcanics
 - Answer Slate
 - New Hope Sandstone-2
 - New Hope Sandstone-1
 - New Hope Sandstone
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 - Roxmere Quartzite
 - Staveley Formation
 - Gin Creek Granite
 - Double Crossing Metamorphics
 - Corella Formation
 - Mitakoodi Quartzite
 - Marraba Volcanics
 - Bulonga Formation

- Infrastructure**
- major road
 - minor road
 - rail line
 - pipeline
 - homesteads
- Depth to Basement**
- Proterozoic Outcrop
 - 200m to basement
 - 400m to basement

Lithology & Stratigraphic Interpretation leveraged South32's & Minotaur's regional exploration drilling



SOLID GEOLOGY of the southern EASTERN FOLD BELT, Mt Isa

Mark HINMAN June, 2018

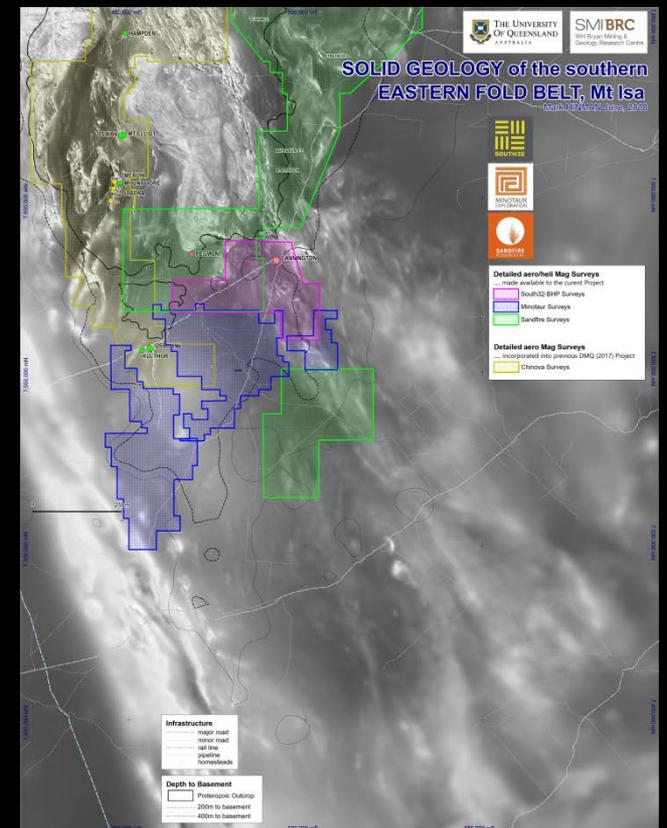


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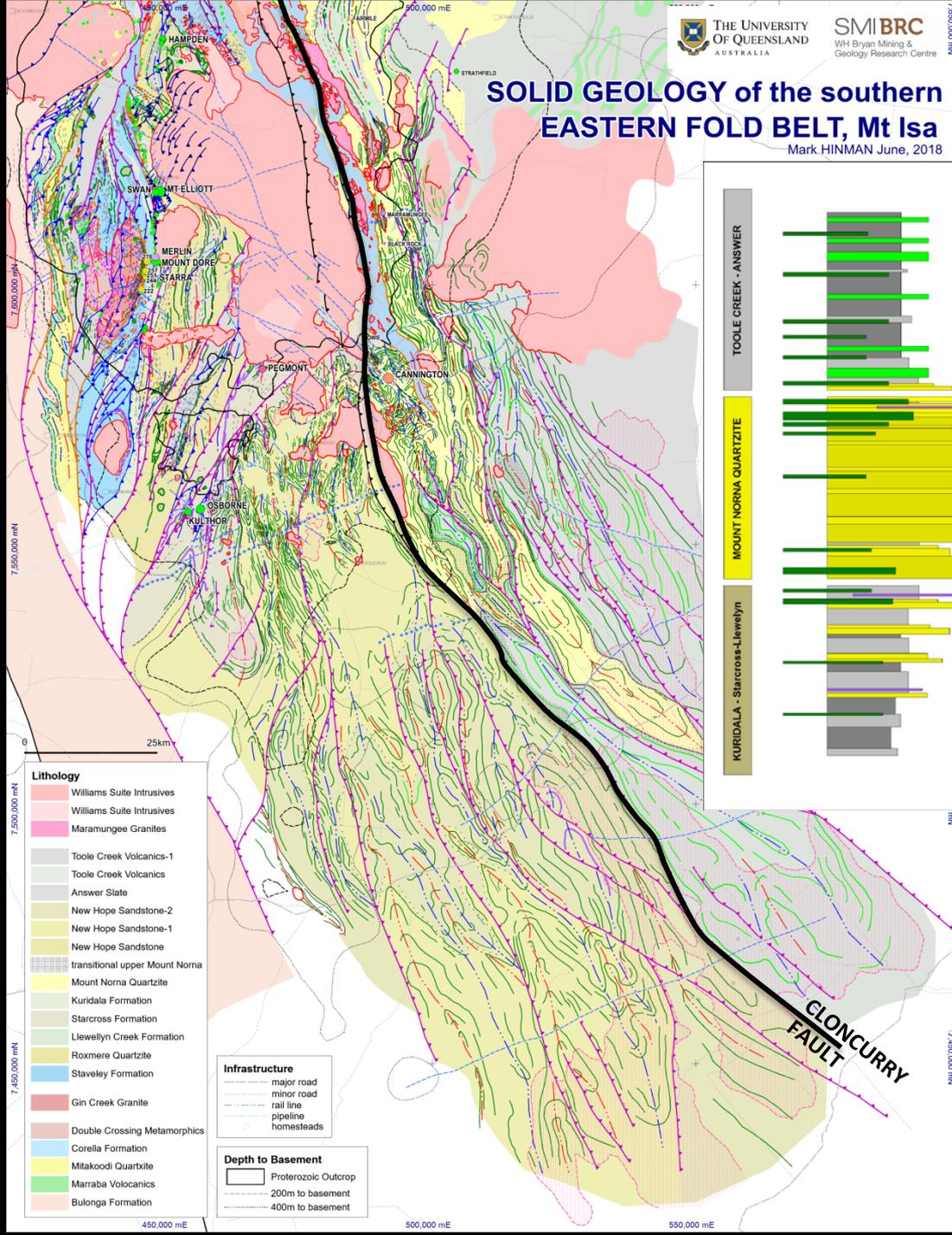
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Form Surface & Structural Interpretation leveraged South32's, Minotaur's & Sandfire's detailed Magnetic Surveys

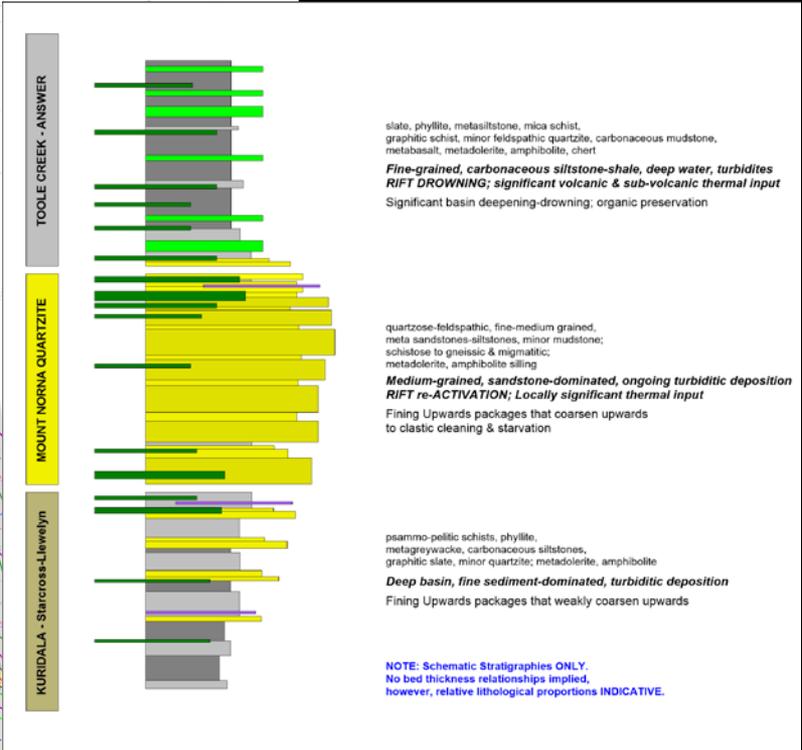


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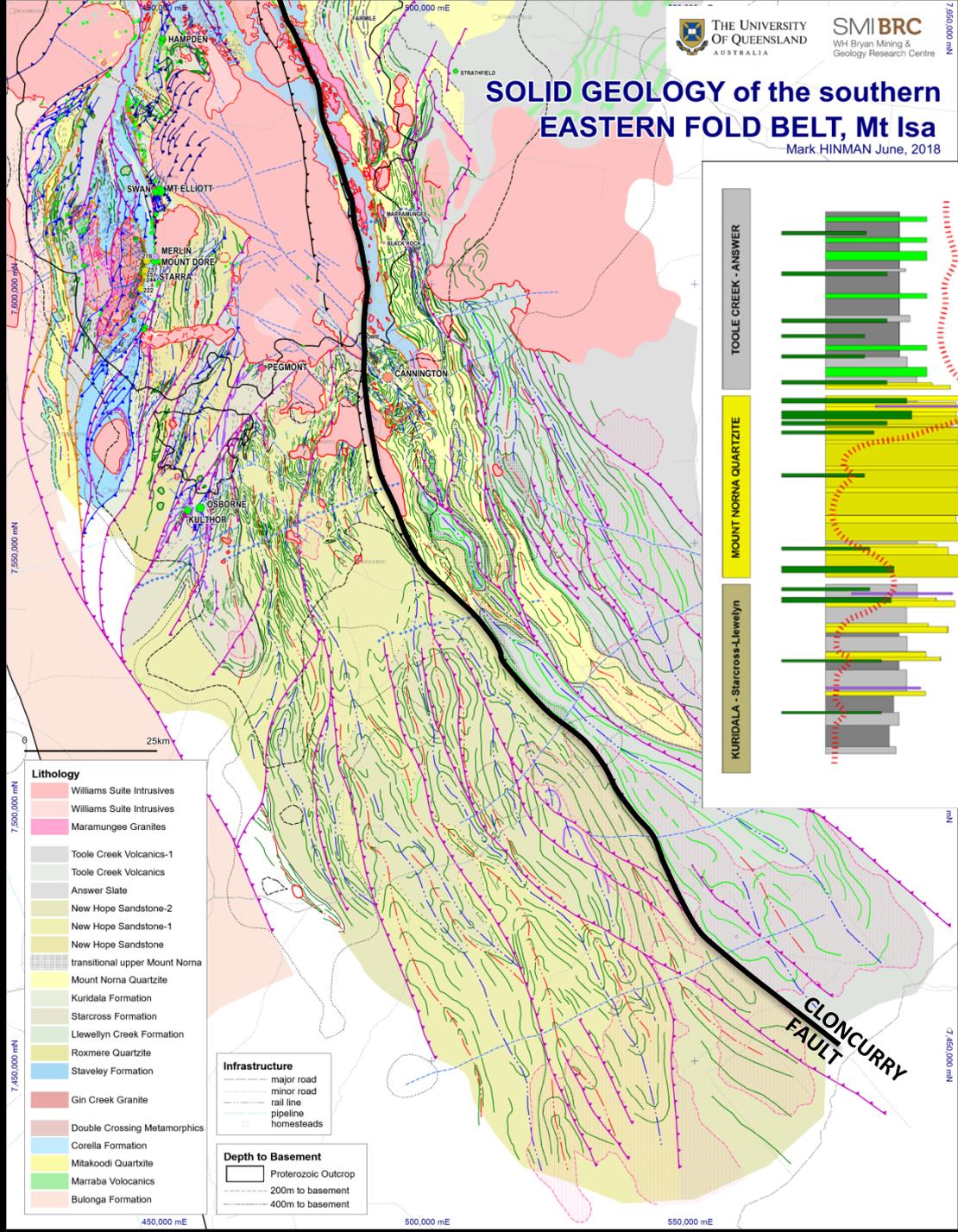
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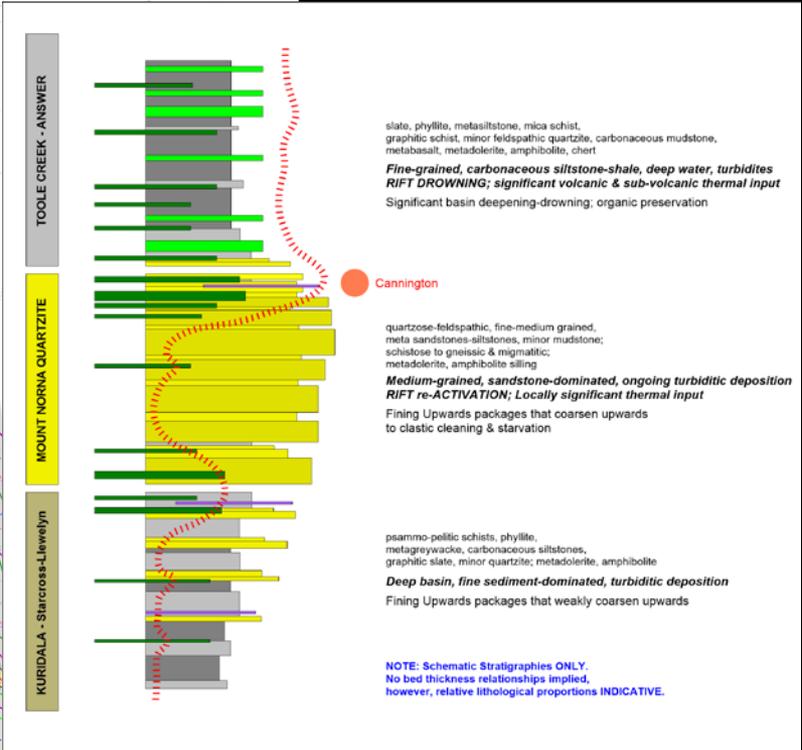
EAST of the CLONCURRY FAULT
 ... track Mount Norna Quartzite -
 Toole Creek Volcanic contact

SOLID GEOLOGY of the southern EASTERN FOLD BELT, Mt Isa

Mark HINMAN June, 2018



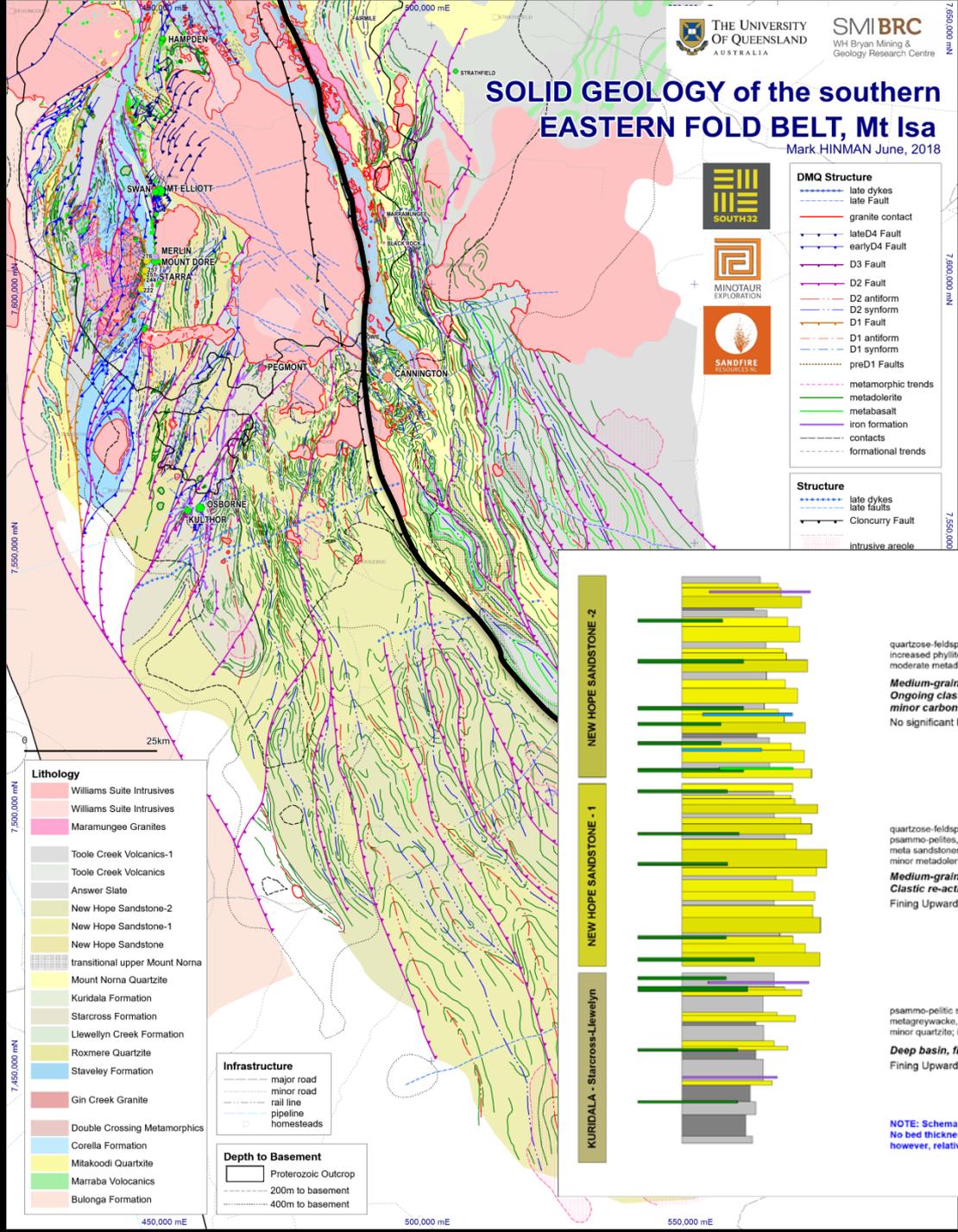
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EAST of the CLONCURRY FAULT
 ... track Mount Norna Quartzite -
 Toole Creek Volcanic contact
BHT Prospective transition

SOLID GEOLOGY of the southern EASTERN FOLD BELT, Mt Isa

Mark HINMAN June, 2018



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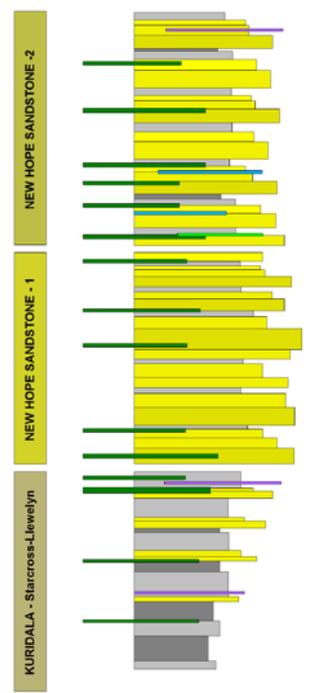
Structure

- late dykes
- late faults
- Cloncurry Fault
- intrusive areole

metamorphic trends

- metadolomite
- melabasalt
- iron formation
- contacts
- formational trends

**WEST of the CLONCURRY FAULT
 ... less distinct lithological package transition**



quartzose-feldspathic, fine-medium grained psammities, psammo-pelites; increased phyllite, mica schist component; minor graphitic schist; minor calco-silicate; moderate metadolomite, amphibolite silling; very minor metabasalt

Medium-grained, sandstone, siltstone & mudstone turbidites
 Ongoing clastic deposition with increased fine component;
 minor carbonate deposition; Moderate sub-volcanic thermal input
 No significant basin re-configuration; Moderately increased thermal input

quartzose-feldspathic, fine-medium grained psammities, psammo-pelites, pelites; minor mudstone; meta sandstones-siltstones; lesser schistose to gneissic variants; minor metadolomite, amphibolite silling

Medium-grained, sandstone-dominated, ongoing turbiditic deposition
 Clastic re-activation; Relatively weak thermal input
 Fining Upwards clastic packages without discernable trends

psammo-pellic schists, phyllite, metagreywacke, carbonaceous siltstones, graphitic slate, minor quartzite; iron formations; metadolomite, amphibolite

Deep basin, fine sediment-dominated, turbiditic deposition
 Fining Upwards packages that weakly coarsen upwards

NOTE: Schematic Stratigraphies ONLY.
 No bed thickness relationships implied,
 however, relative lithological proportions INDICATIVE.

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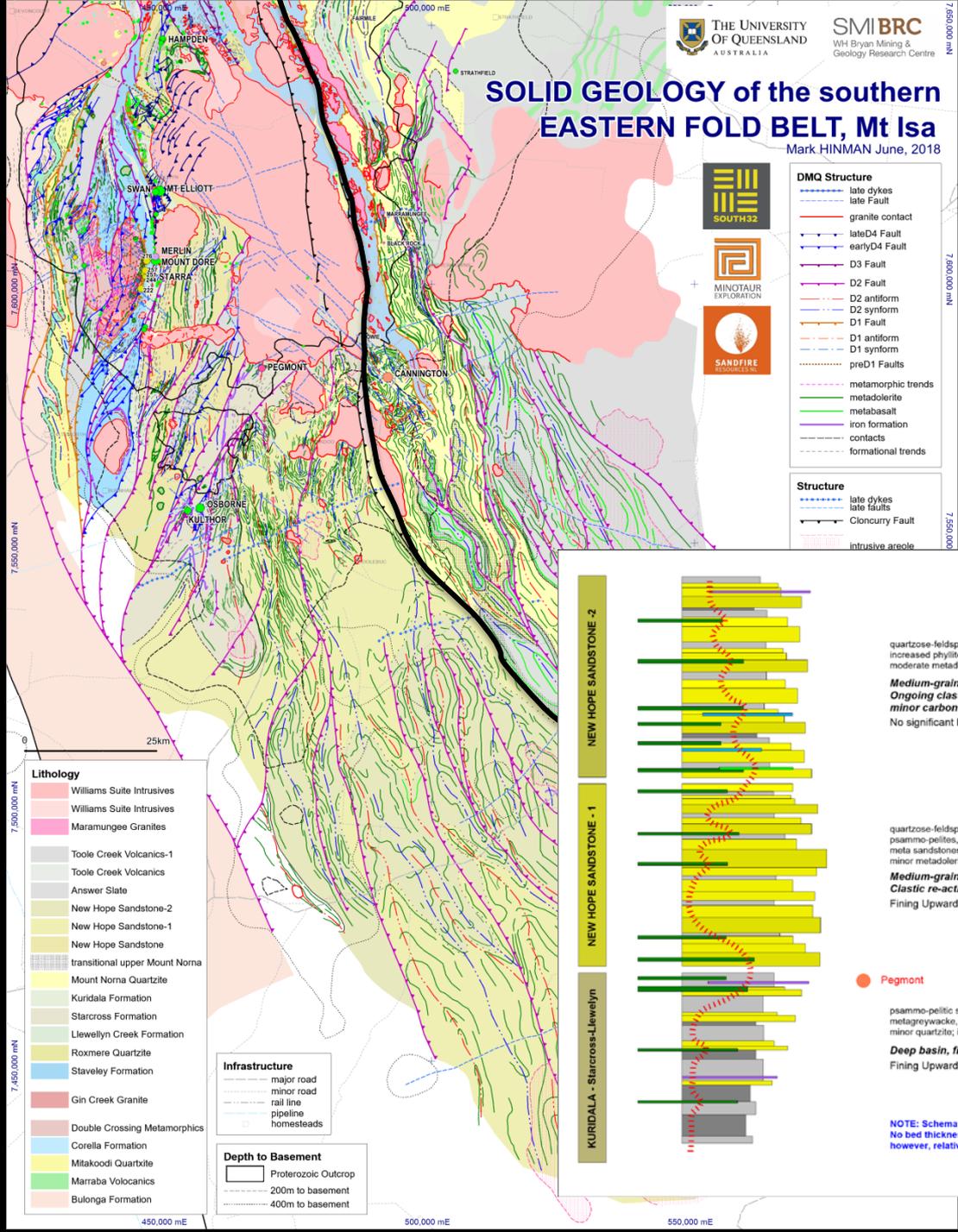
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- Proterozoic Outcrop
- 200m to basement
- 400m to basement

SOLID GEOLOGY of the southern EASTERN FOLD BELT, Mt Isa

Mark HINMAN June, 2018



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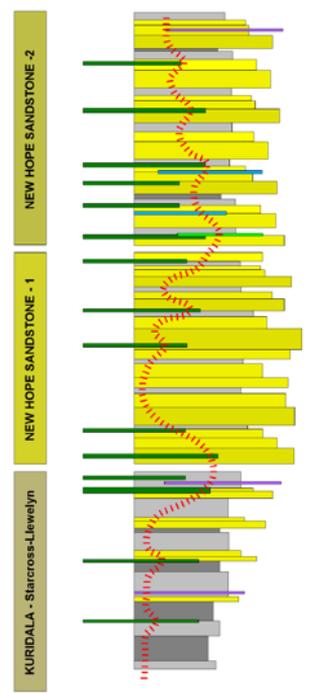
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Structure

- late dykes
- late faults
- Cloncurry Fault
- intrusive areole

**WEST of the CLONCURRY FAULT
 ... less distinct lithological package transition**

**less clear
 BHT Prospectivity**



NEW HOPE SANDSTONE - 2

quartzose-feldspathic, fine-medium grained psammites, psammo-pelites; increased phyllite, mica schist component; minor graphitic schist; minor calc-silicate; moderate metadolomite, amphibolite silling; very minor metabasalt

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 Ongoing clastic deposition with increased fine component;
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NEW HOPE SANDSTONE - 1

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KURIDALA - Starcross-Llewellyn

psammo-pellic schists, phyllite, metagreywacke, carbonaceous siltstones, graphitic slate, minor quartzite; iron formations; metadolomite, amphibolite

Deep basin, fine sediment-dominated, turbiditic deposition
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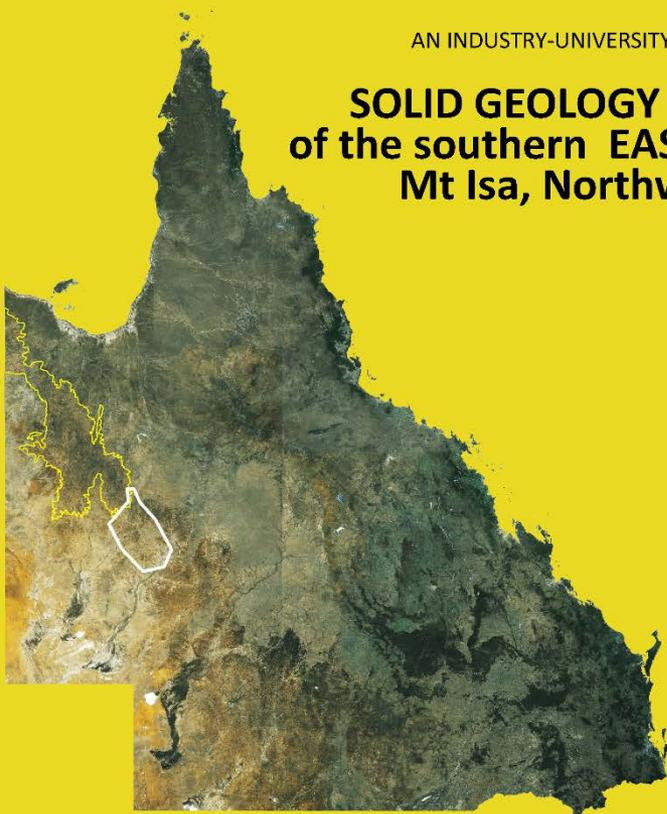
THE UNIVERSITY
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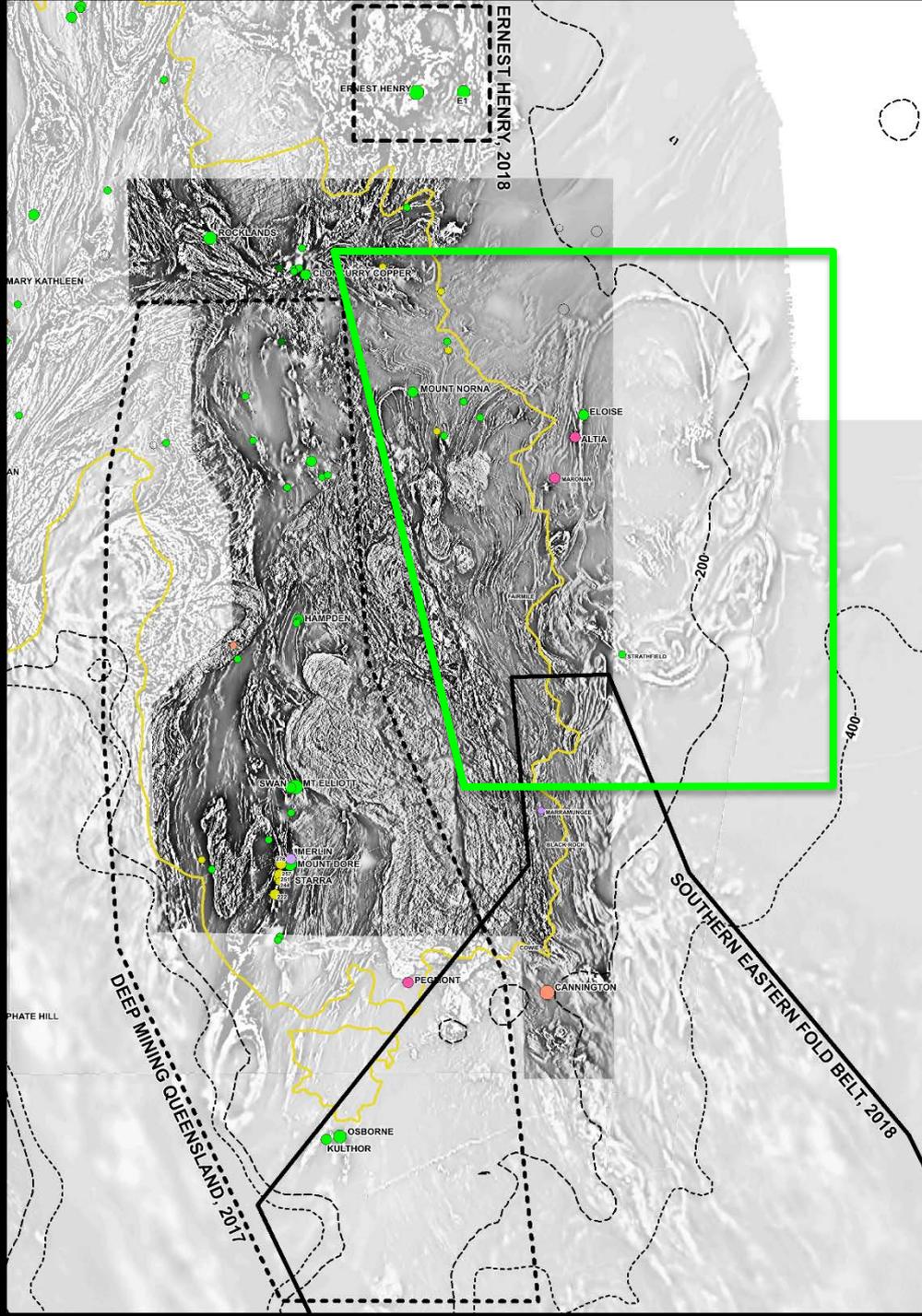
FINAL REPORT & Data on QDEX ...

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T-x Chart, GIS Solid Geology, process-oriented BHT model discussion, Prospectivity



Queensland
Government



Looking to extend the same approach to the new Cloncurry surveys

Previous BRC Solid Geology Interpretations
 DEEP MINING QUEENSLAND, 2017
 Southern EASTERN FOLD BELT, 2018
 ERNEST HENRY, 2018

— Proterozoic Outcrop Extent

Recently-released CLONCURRY 1370 tmi-1vd over Mt Isa regional tmi-1vd.

Current Status and Next Steps

- **Current Status**
 - Time-space compilation complete
 - Atlas Prototype complete
 - Target compilation complete
 - Spatial data index well progressed
 - Core collection under way
 - Legacy datasets near completion
 - Solid geology updates under way
- **Next Steps**
 - Expand Atlas Prototype (Mt Isa/EH) to full atlas of all deposits
 - Full core collection
 - Additional studies based on gap analysis



Gap Analysis

Area	Current State	Target State	Difference	Action Plan	Priority
Consistency of mineral deposit sample data <i>Industry priority rank: 2/26</i>	No consistent set of mineralogical, geochemical and petrophysical data for NWMP mineral deposits	A consistent set of sample data exists for all major deposits in the region	Greater ability to carry out consistent analysis and comparison of individual deposits using new data-driven exploration tools which require standardised data	<i>Cloncurry Metal Project</i> Provide an up-to-date consistent understanding of the Cloncurry mineral system, which will be expressed as an <i>Atlas</i> of alteration types and petrophysical responses. Develop a toolkit consisting of techniques developed in order to identify critical mineral system indicators using relatively inexpensive tools, i.e., tools that can be made available in the core shed	High
Hydrogeochemistry <i>Industry priority rank: 6/26</i>	Despite clear evidence of the effectiveness of groundwater chemistry in mapping lithology, alteration and prospectivity in the NWMP, there are significant gaps in coverage and many unsampled bores	All available sources of hydrogeochemical data have been rigorously sampled and incorporated into an improved hydrogeochemical database for the region	New insights into spatial variations in prospectivity in covered areas in the NWMP – potential for identification of new targets for under cover exploration	<i>Hydrogeochemistry Project</i> Sampling and analysis of unsampled water bores in the region, followed interpretation and data integration in order to interpret patterns of lithology, alteration and prospectivity under cover	High

Area	Current State	Target State	Difference	Action Plan	Priority
NWMP Mineral deposit information <i>Industry priority rank: 2/26</i>	There is currently no systematic atlas of NWMP Mineral deposit characteristics which combines systematic data relating to geology, geochemistry, geophysics and publicly available information relating to mineralisation and its footprints	A single atlas with consistent public information on all the major deposits in the region, as well as a publicly-accessible collection of drillcore for these deposits	Enhanced ability for established and new explorers in the region to gain an overview of deposits in the region, and an improved ability to recognise mineralisation styles in exploration data	<i>NW Mineral Province Deposit Atlas, Phase 2</i> Continue compilation of the NW Mineral Deposit atlas, extending the Atlas to all major deposits in the region	High
Innovative geochemical exploration under cover	A geochemical toolkit has been produced which summarises potential approaches to exploration in various covered regimes. However, there is no systematic coverage of geochemical data in settings amenable to such covered exploration	Fit-for-purpose geochemical datasets covering the areas where potential exists for the application of geochemical exploration under cover	Better detection and prioritisation of covered targets on the basis of their geochemical signature.	DNRME should prioritise the provision of Collaborative Exploration Initiative funds to companies who undertake to carry out appropriate geochemical surveys in covered areas on the basis of recommendations and orientation information in the GTK	High
Drillcore collection <i>Industry priority rank: 9/26</i>	Additional drillcore has been sourced for the Mount Isa Core Storage Facility, but many of the region's deposits are not yet represented in the facility	Representative drillcore and associated geoscientific information exist for all the major deposits in the region	Enhanced ability for established and new explorers in the region to gain an overview of deposits in the region, and an improved ability to recognise mineralisation styles in exploration data	<i>GSQ and NW Mineral Province Deposit Atlas, Phase 2</i> Continue to source representative drillcore and associated data through the GSQ and the MNW Mineral Province deposit Atlas project	High

Area	Current State	Target State	Difference	Action Plan	Priority
Open File Completions <i>Industry priority rank: 1/26</i>	Open file data for the NWMP have been compiled up to October 2016. Explorers have noted a need to carry out additional quality control on the data, and have placed a high priority on the availability of this information	Open file data is fit-for-purpose and up-to-date	Explorers able to formulate their exploration programs based on all available data, and unlikely to encounter evidence of undocumented exploration in their tenements	Updated compilation is beyond the scope of the NWMP Discovery program, but is being addressed in other DNRME programs from the point of view of both compilation and updates to reporting standards	High
Regional Structural-Stratigraphic Framework studies <i>Industry priority rank: 7/26</i>	Many areas of the NWMP do not have studies of this type at a scale relevant to exploration.	Prospective areas of the NW Mineral Province covered by structural-stratigraphic framework studies which make use of all available high resolution geophysical datasets and current understanding of mineral system criteria, and include mineral system-based target regions	Increased ability to identify covered or blind areas of high prospectivity based on rigorous mineral system criteria	Not funded as part of this program. This activity is traditionally carried out by companies "in-house", and opportunities for improvement may exist in the form of targeted workshops and/or other learning opportunities	High
Studies of Magma Fertility <i>Industry priority rank: 13/26</i>	No clear understanding of the links between mineralisation and magma fertility in the region. Disagreement exists as to the strength of the link, and the tools which could arise which may be of relevance to exploration	Magma fertility links clearly demonstrated for applicable mineral systems and a toolkit developed for recognition of fertile regions in exploration datasets	Enhanced ability to prioritise regional target areas on the basis of Magma Fertility indicators	<i>EGRU Magma Fertility Project</i> Research aimed at studying key areas such as the Mary Kathleen belt where the greatest potential seems to exist for clear demonstration of magmatic links	High

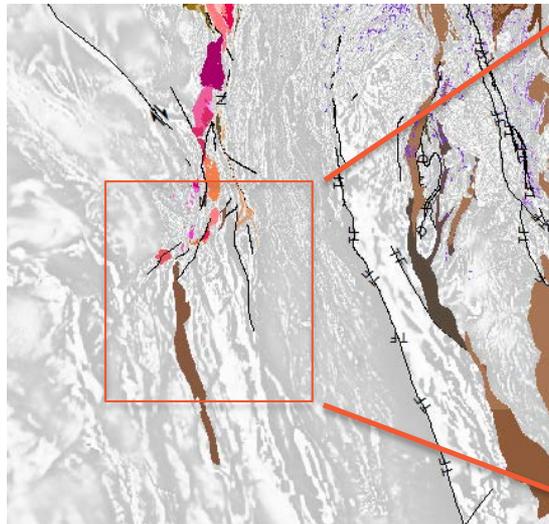
Area	Current State	Target State	Difference	Action Plan	Priority
Target Prediction using machine learning <i>Industry priority rank: 26/26</i>	The potential advantages and applications of machine-learning to exploration in the NWMP are not well-understood, and industry perceptions of its applicability and usefulness in exploration are poor	Geoscientists and explorers have a better understanding of the best applications of machine learning to the exploration process	Clearer understanding and acceptance of appropriate uses of the technology, resulting in greater application of associated techniques and potentially more effective exploration	<i>North West Mineral Province data-driven mineral exploration</i> Review results of data-driven exploration preliminary study and identify the most productive future avenues	High
Spatial Data index <i>Industry priority rank: 4/26</i>	A prototype Spatial Data index has been prepared based on an established ESRI platform. It allows searching on some keywords under different categories, but is not intuitive and does not allow faceted searching	A clear and intuitive tool which allows faceted spatial searching of geoscientific data and publications for the region	More efficient and comprehensive searching and sourcing of existing geoscientific data	Comprehensive review of prototype and recommendations for further improvement	Moderate
NWMP 3D models <i>Industry priority rank: 7/26</i>	NWMP 3D models exist at various scales, formats and geographic extents, but most of the models are not at a scale appropriate to exploration, and not in a form useable by many explorers	Easily accessible 3D geological models at a scale appropriate to exploration, delivered without the need for expensive software solutions	Explorers making better use of 3D models to generate targets and run exploration programs.	Review and benchmarking of web-based delivery <i>delivery</i> systems for large 3D models, with recommendations for an NWMP platform	Moderate

(and two more...)



Faceted spatial data index

- Full compilation of reports, theses, publications, etc
- Categorised by study focus, data type, mineralisation style,...
- Spatially indexed
- Faceted search by theme



Data type

GIS	5
Raster	3
Report	8
Thesis	2
Article	7
Map	2
3D Model	1

Study focus general

Stratigraphy	2
Structure	3
Geochemistry	4
Geophysics	6
Prospectivity	1



✕ GIS

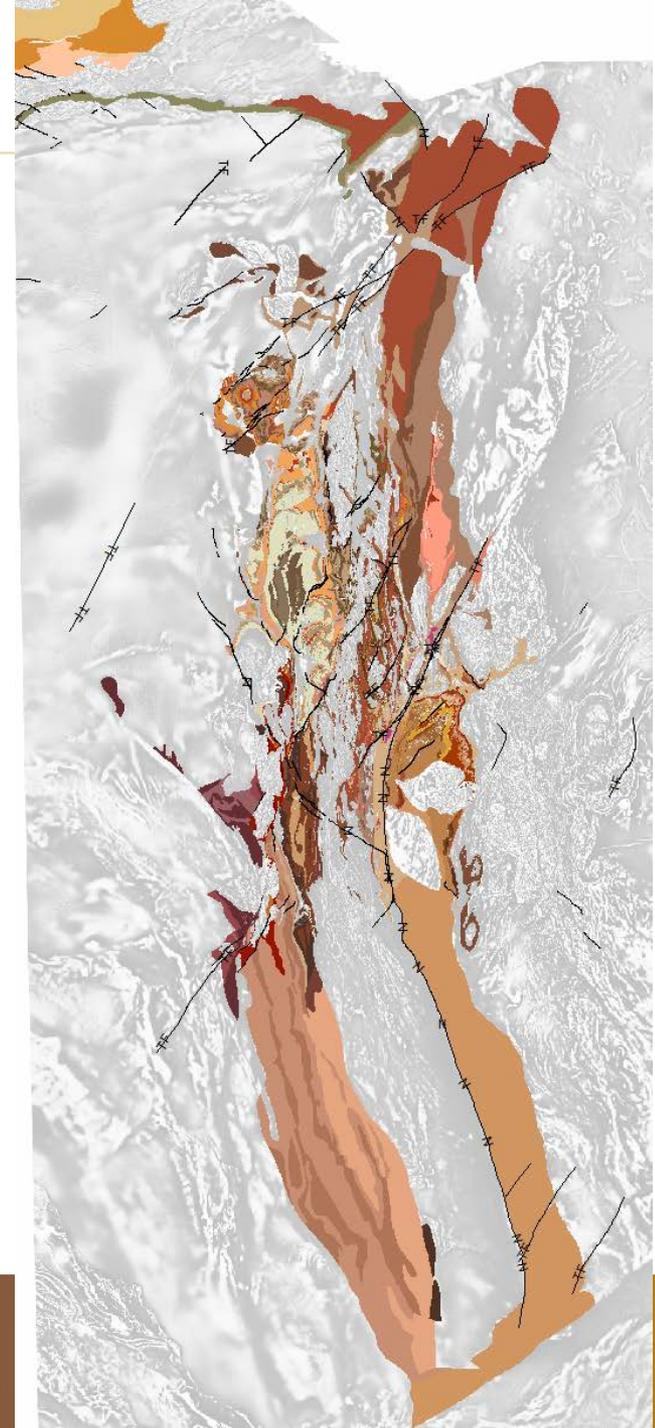
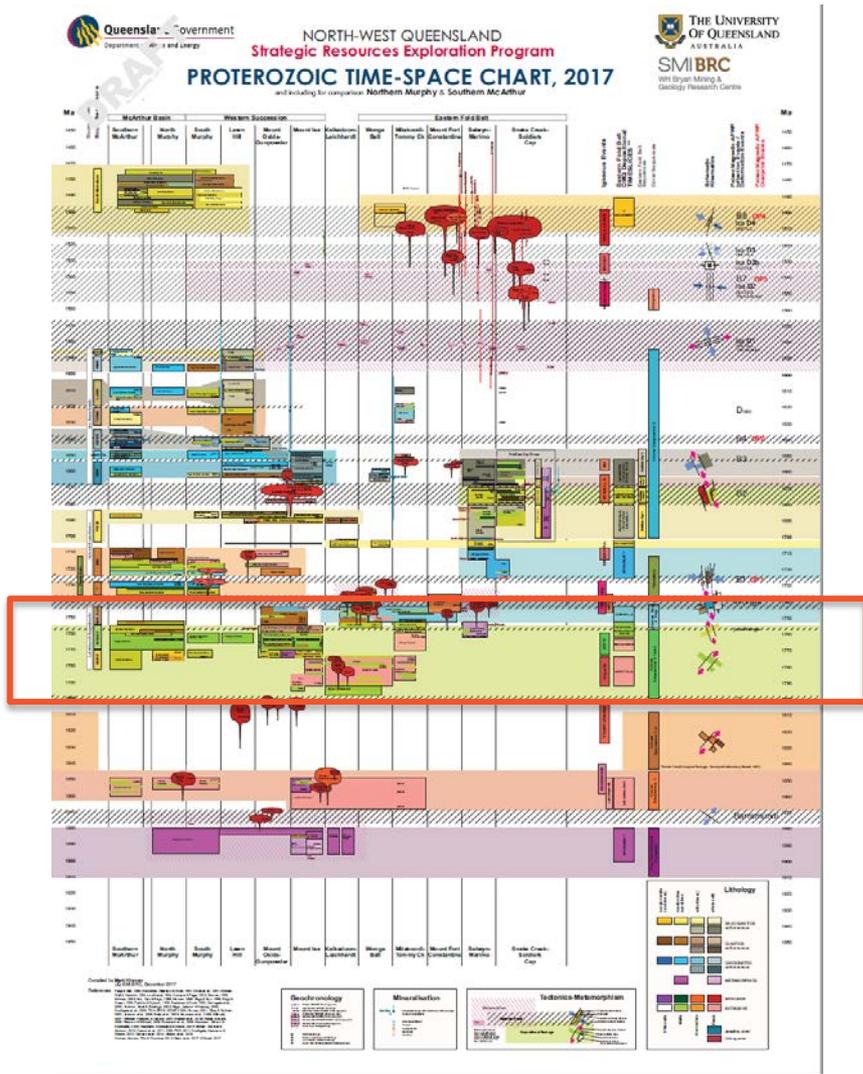
✕ Prospectivity



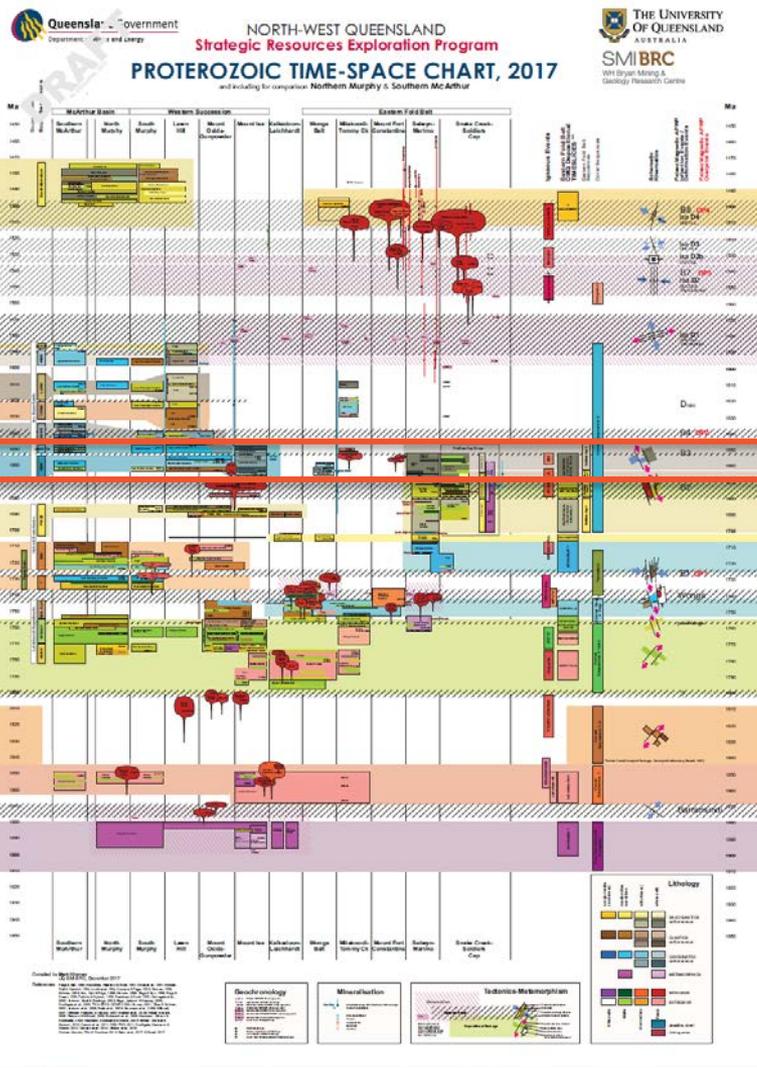
- Download
- View
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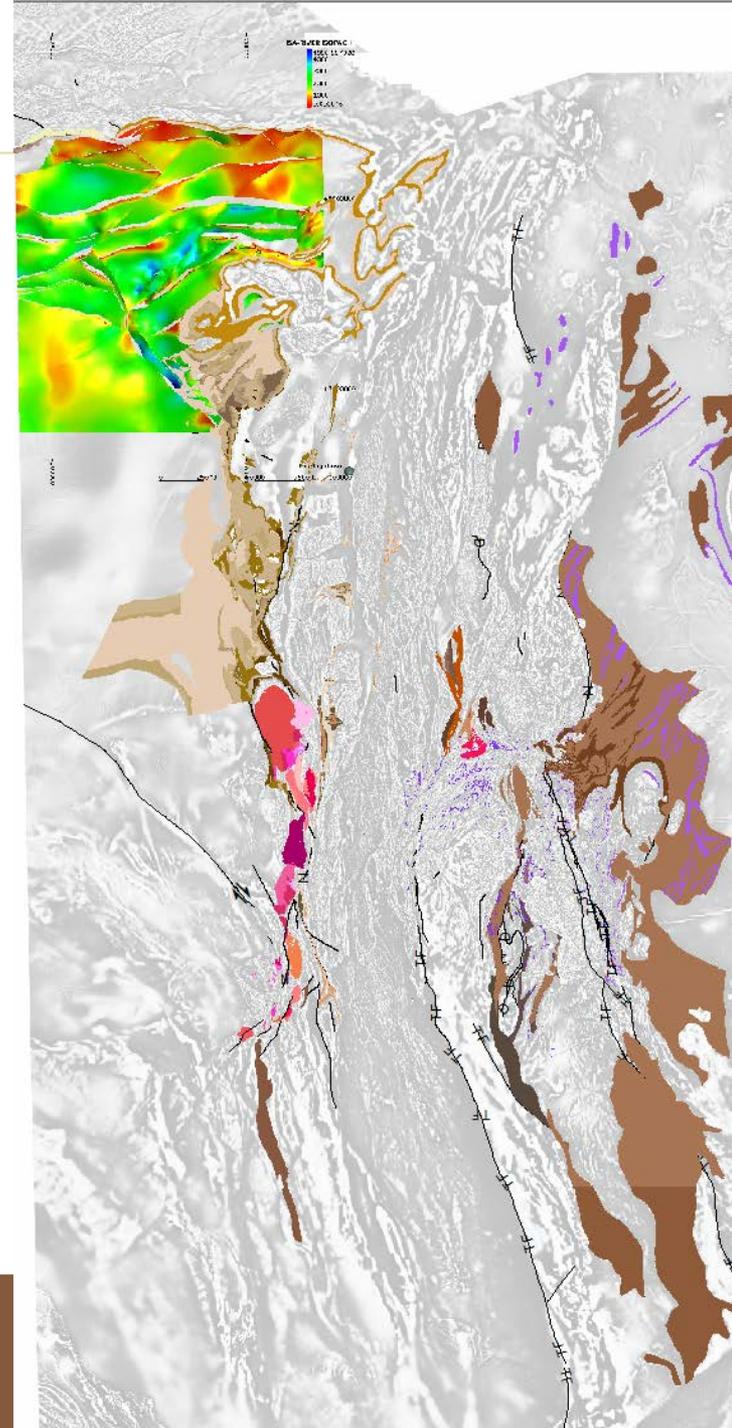
Updated time-space chart



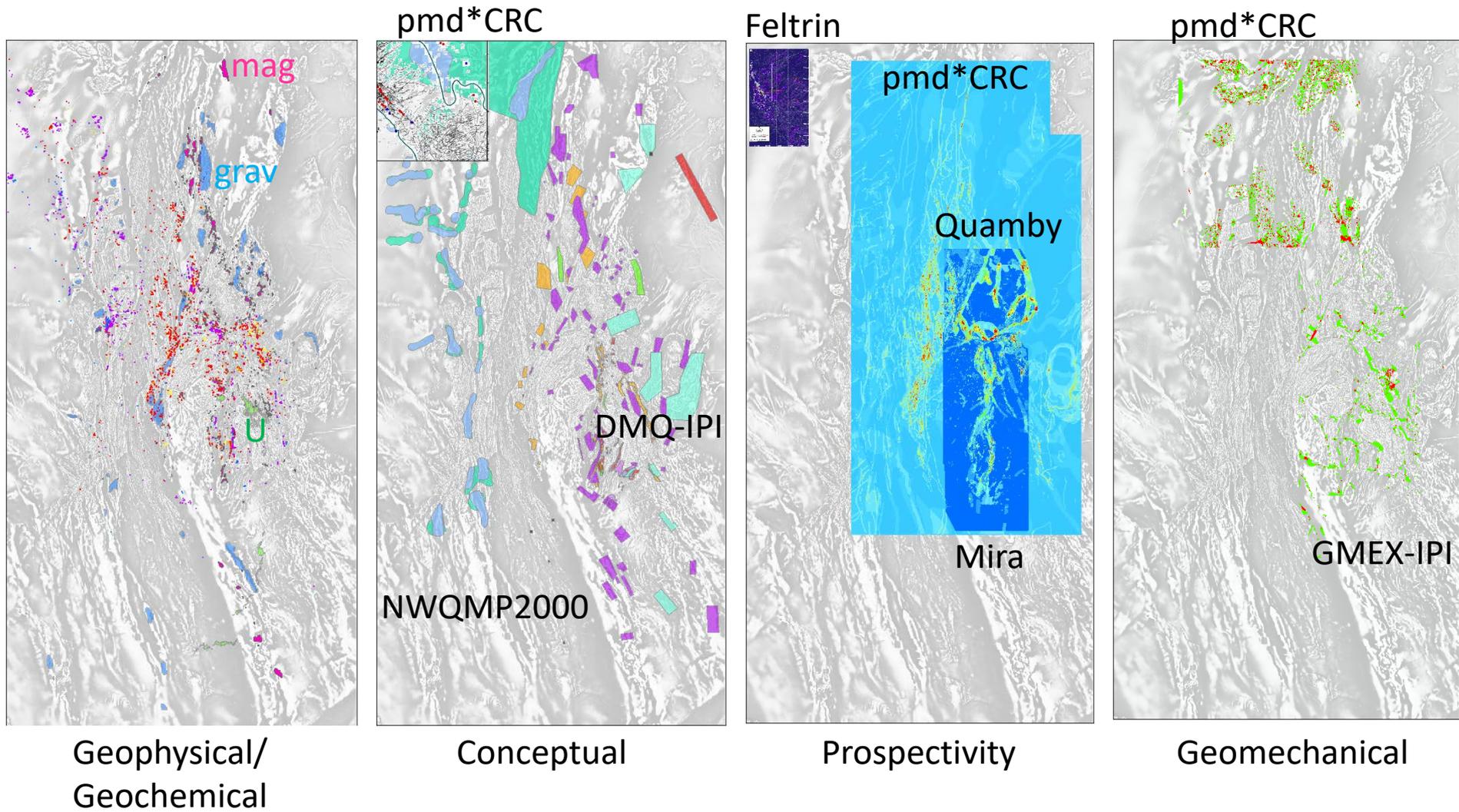
Isopachs from 3D models



Pmd*CRG –
 Thickness Isa
 Superbasin

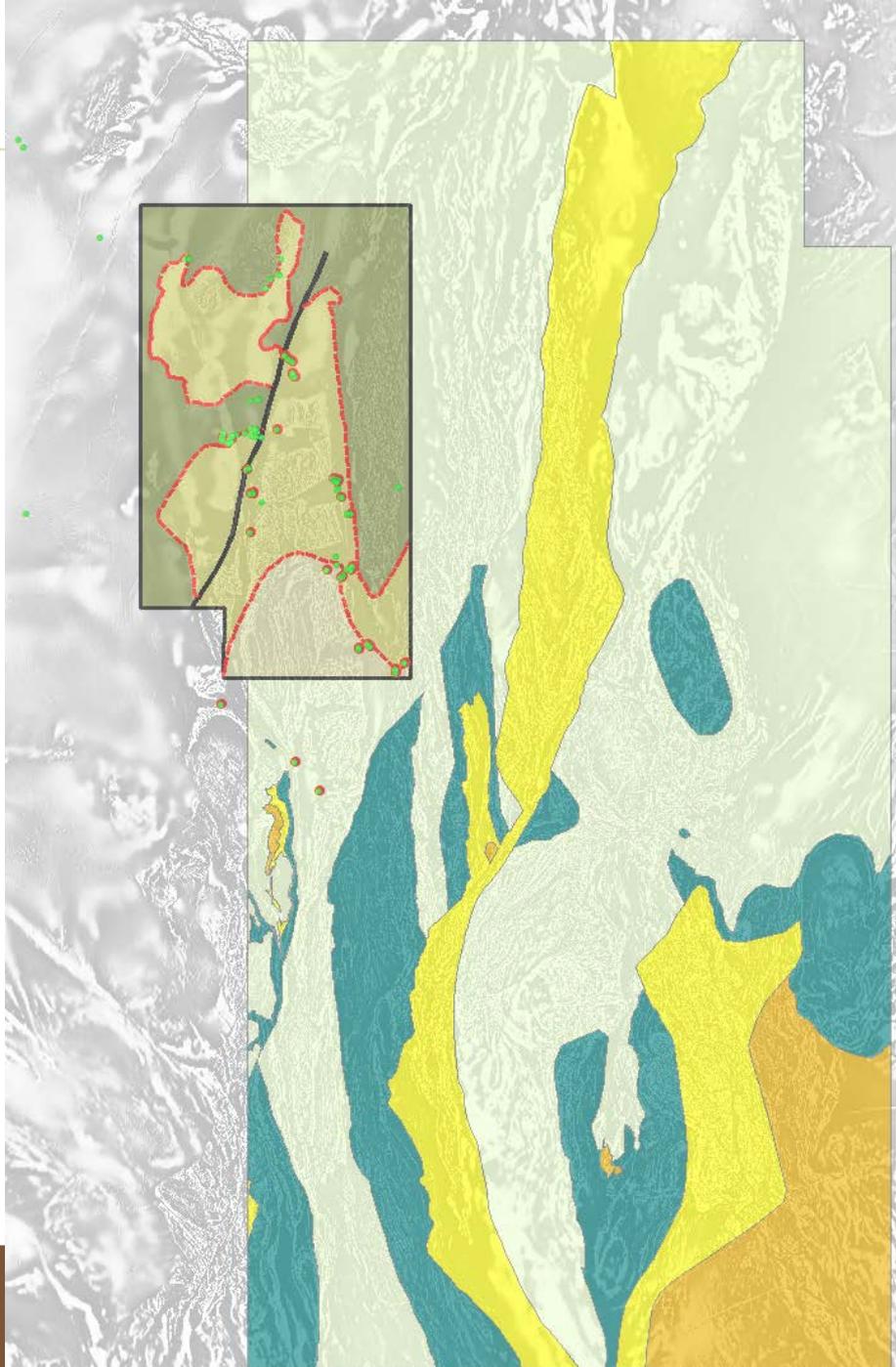


Exploration target compilation



Metamorphic Grade

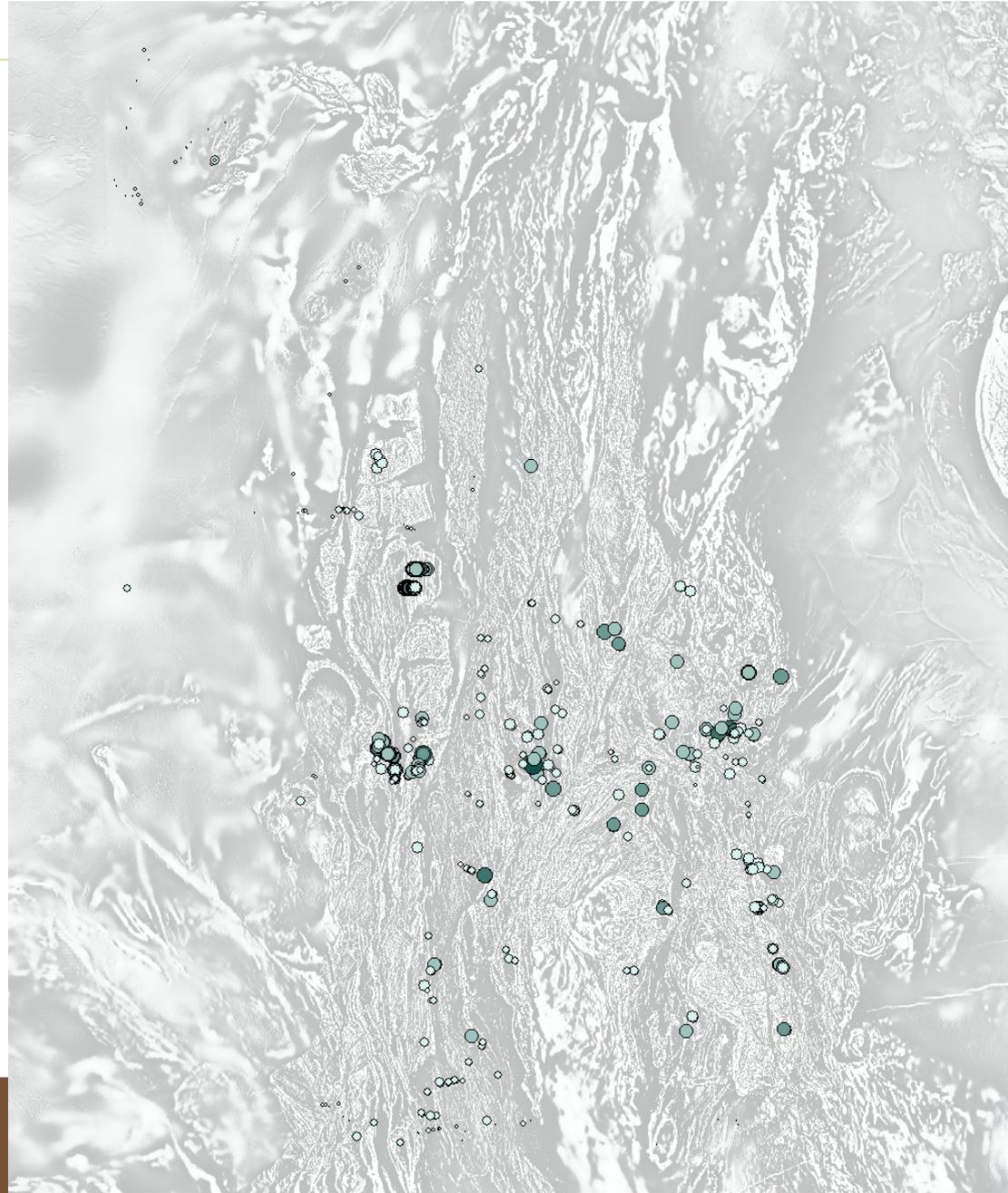
- Metamorphic Map
 - I1_thermobarometry
 - illite_crystallinity_samples
 -
 - K-white_mica_b_cell_dimension
 -
 - Kubler_Index_Illite_Crystallinity_Contours
 - Accurate
 - Fault
 - Frame
 - - - Inferred
 - Kubler_Index_Illite_Crystallinity_Distribution
 - $\leq 0.25KI$ (Greenschist)
 - $\leq 0.42KI$ (Prehnite-Pumpellyite)
 - $\geq 0.42KI$
 - I2_Metamorphic_Map
 - Metamorphic Grade pmd*CRC I2
 - Greenschist
 - Amphibolite
 - Sillimanite
 - SillimaniteKspar



Rock Property Data

- Rock Property Data
- MI_Rock_Property_Data
- magsus_ave
 - ◇ 0.000000 - 11380.000000
 - ◇ 11380.000001 - 39890.000000
 - ◇ 39890.000001 - 107400.000000
 - ◇ 107400.000001 - 364425.000000
 - ◆ 364425.000001 - 3644250.000000

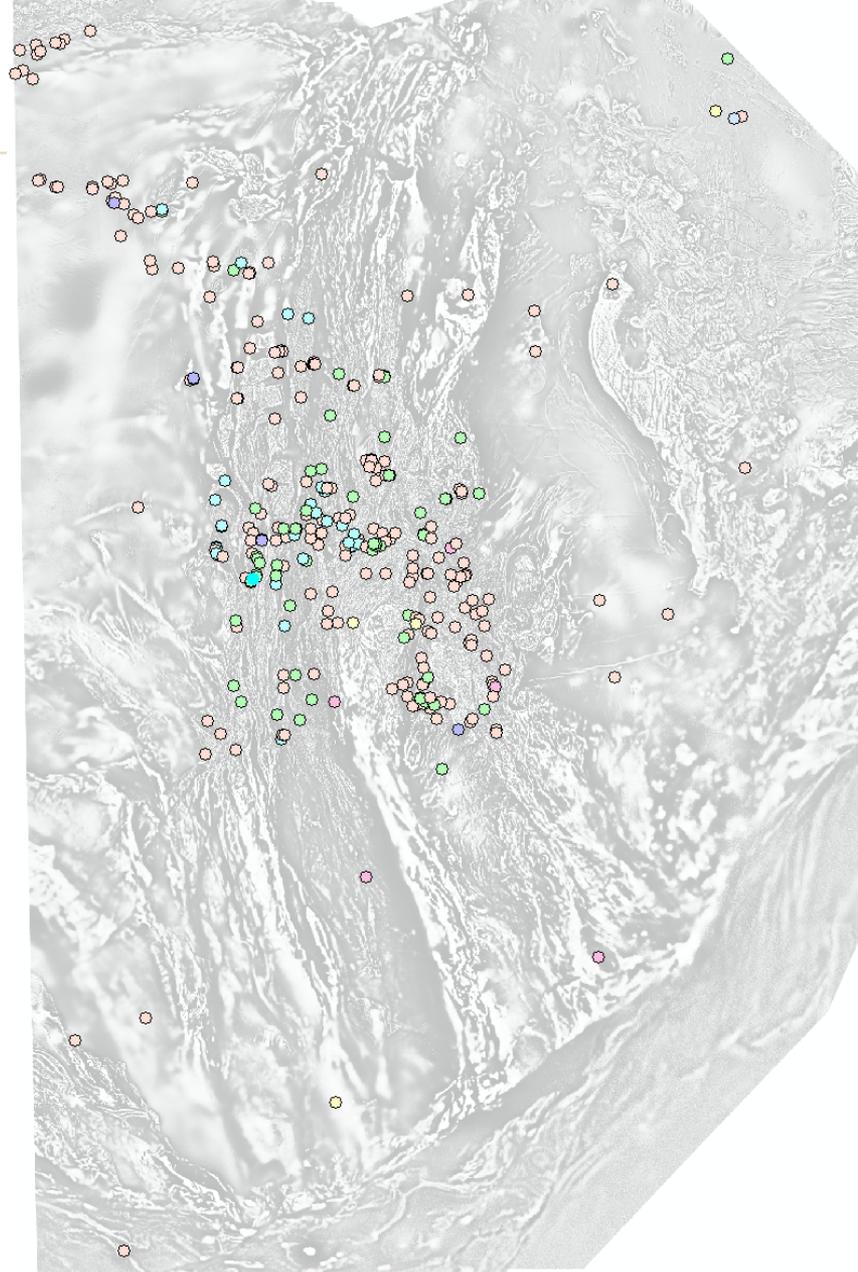
1389 samples



Geochronology

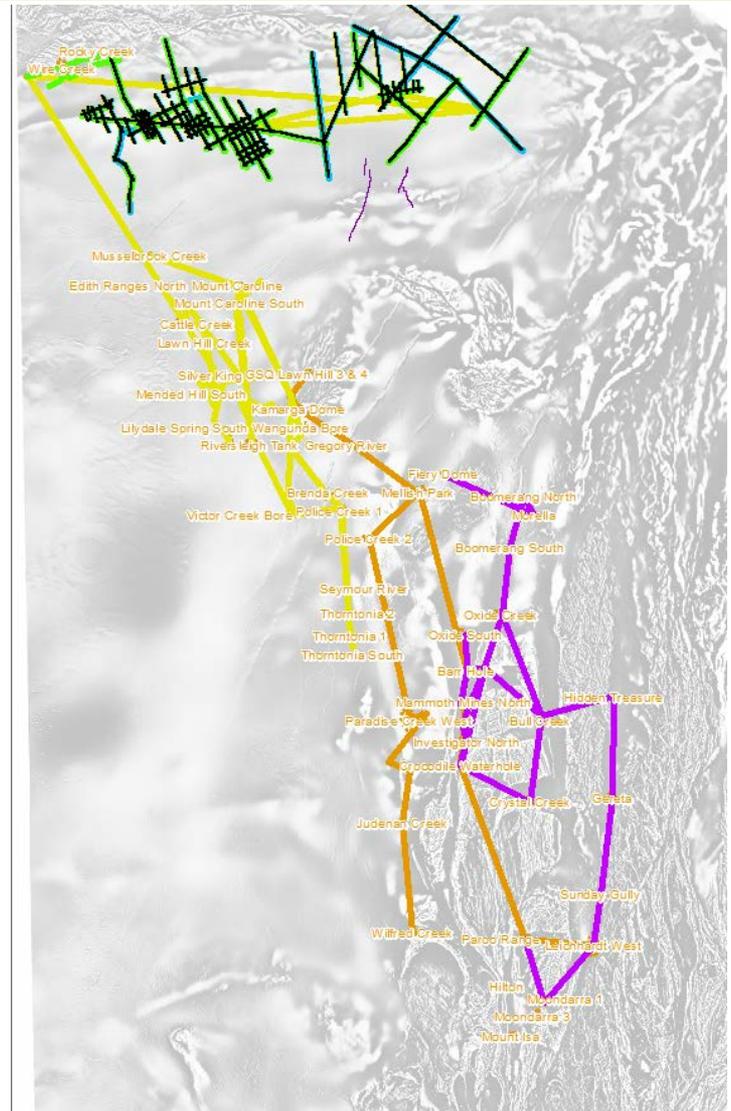
- Compilation Geochronology
 - 2017_Withnall_Isotopic_Ages_Mt_Isa
- Analysis Tyoe
-  AR-AR
 -  K-AR
 -  Pb-Pb
 -  RB-SR
 -  U-PB unspec
 -  U-PB SHRIMP
 -  U-PB TM

548 Samples

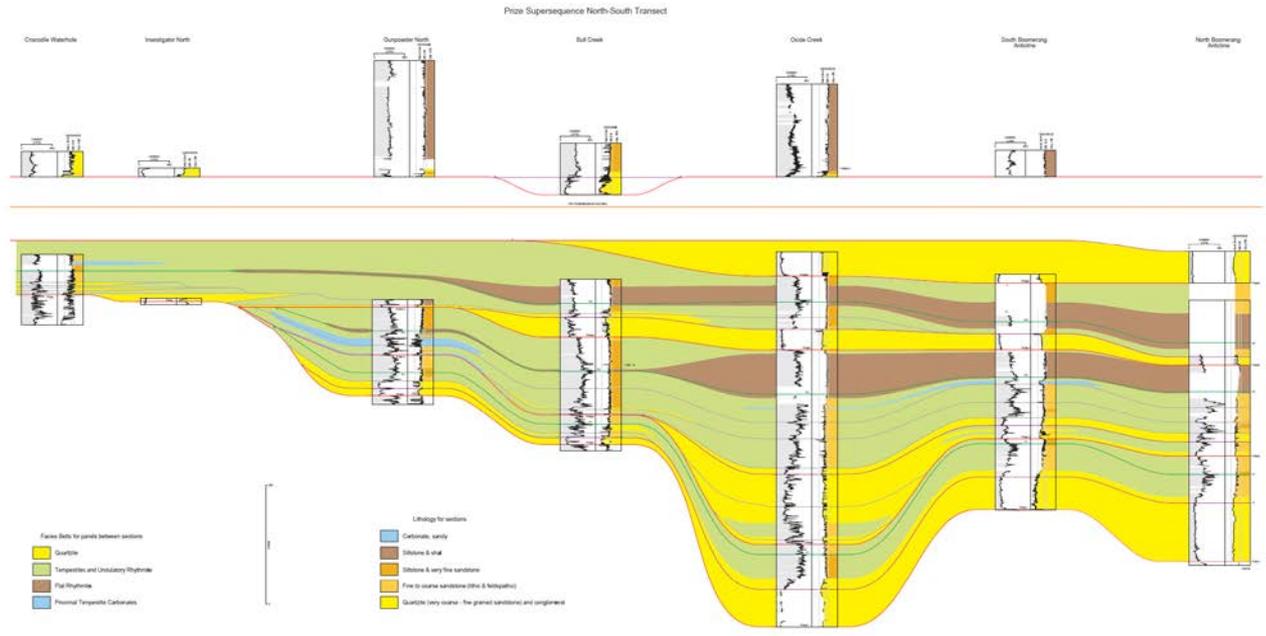
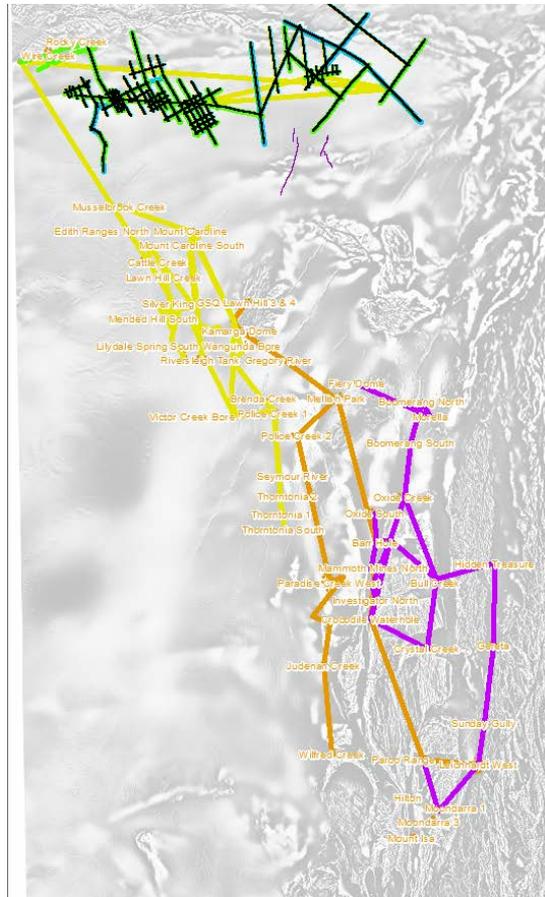


NABRE

- Sequence Stratigraphy
- 1999_2002_Measured_Sections
 - 1999_2002_Measured_Drillholes
- 1999_2002_Measured_Drillholes
- Seismic_Survey_2D_Comalco_Stations
- Seismic_Survey_2D_Comalco_Grid
- AMIRA_P552_2002_03_Transects
- NABRE_1999_19_Transects
- NABRE_1999_19_Seismic_Transects
- NABRE_1999_15_Transects
- NABRE_1999_10_Transects
- AMIRA_P552_2002_03_Sections
- NABRE_1999_19_Sections
- NABRE_1999_15_Sections
- NABRE_1999_10_Sections



NABRE



Identify

Identify from:

AMIRA_P552_2002_03_Transsects

Transect 3 Crocodile Waterhole to Boomerang North PRIZE-GUN

Location:

Field	Value
FID	3
Shape	Polyline
ID	Transect 3 Crocodile Waterhole to Boomerang North PRIZE-GUN
Report	AGSO Record 2002-03

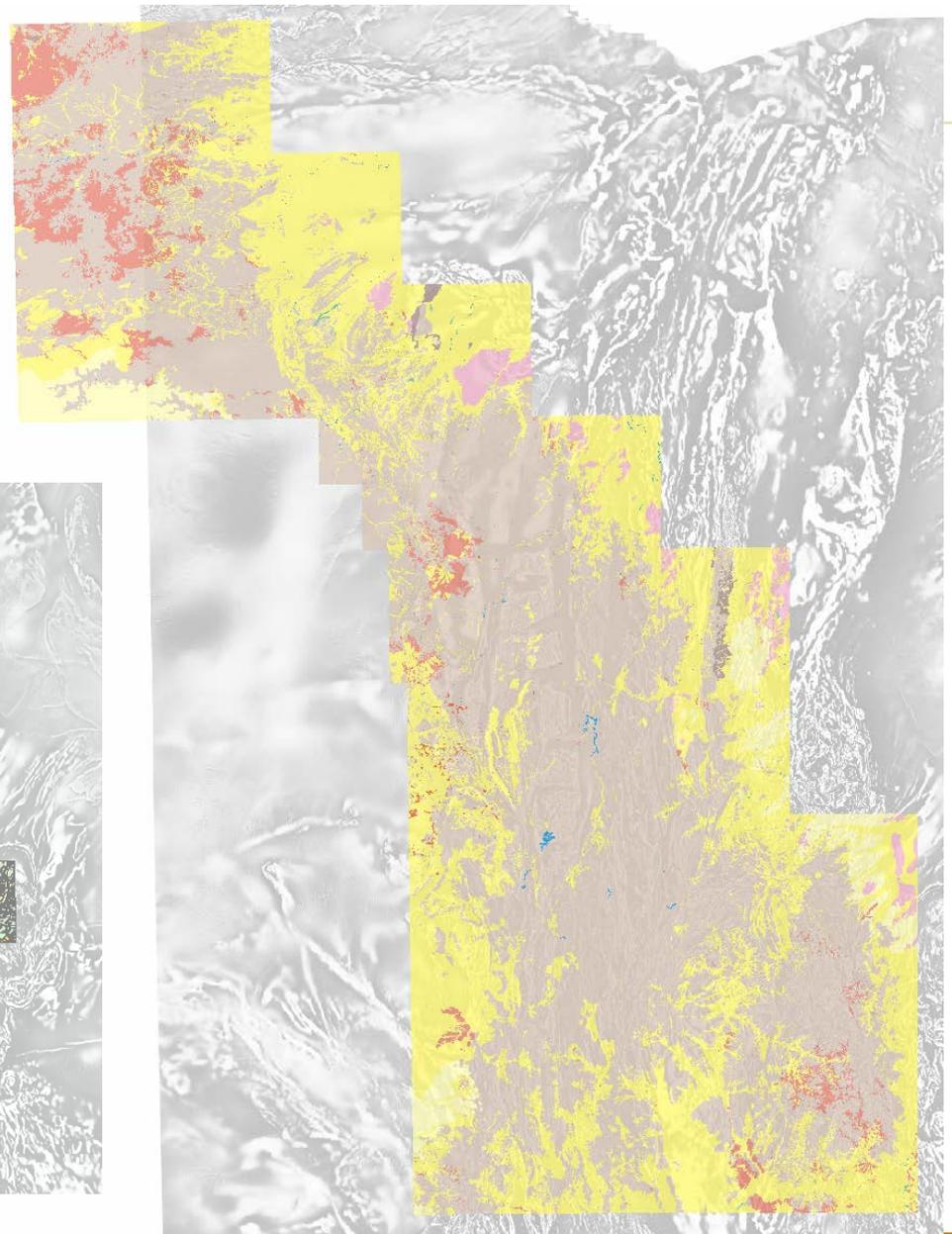
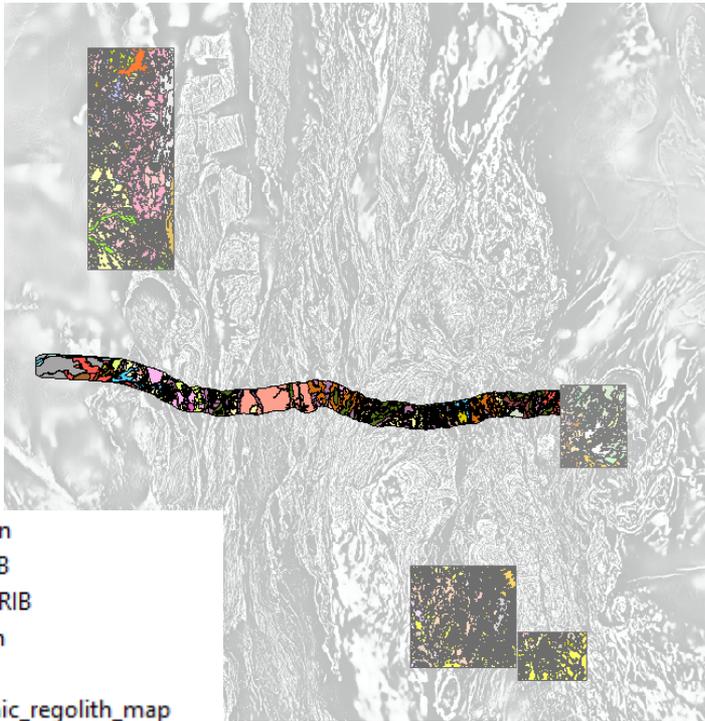
Identified 1 feature



Regolith CRC LEME

Short_name

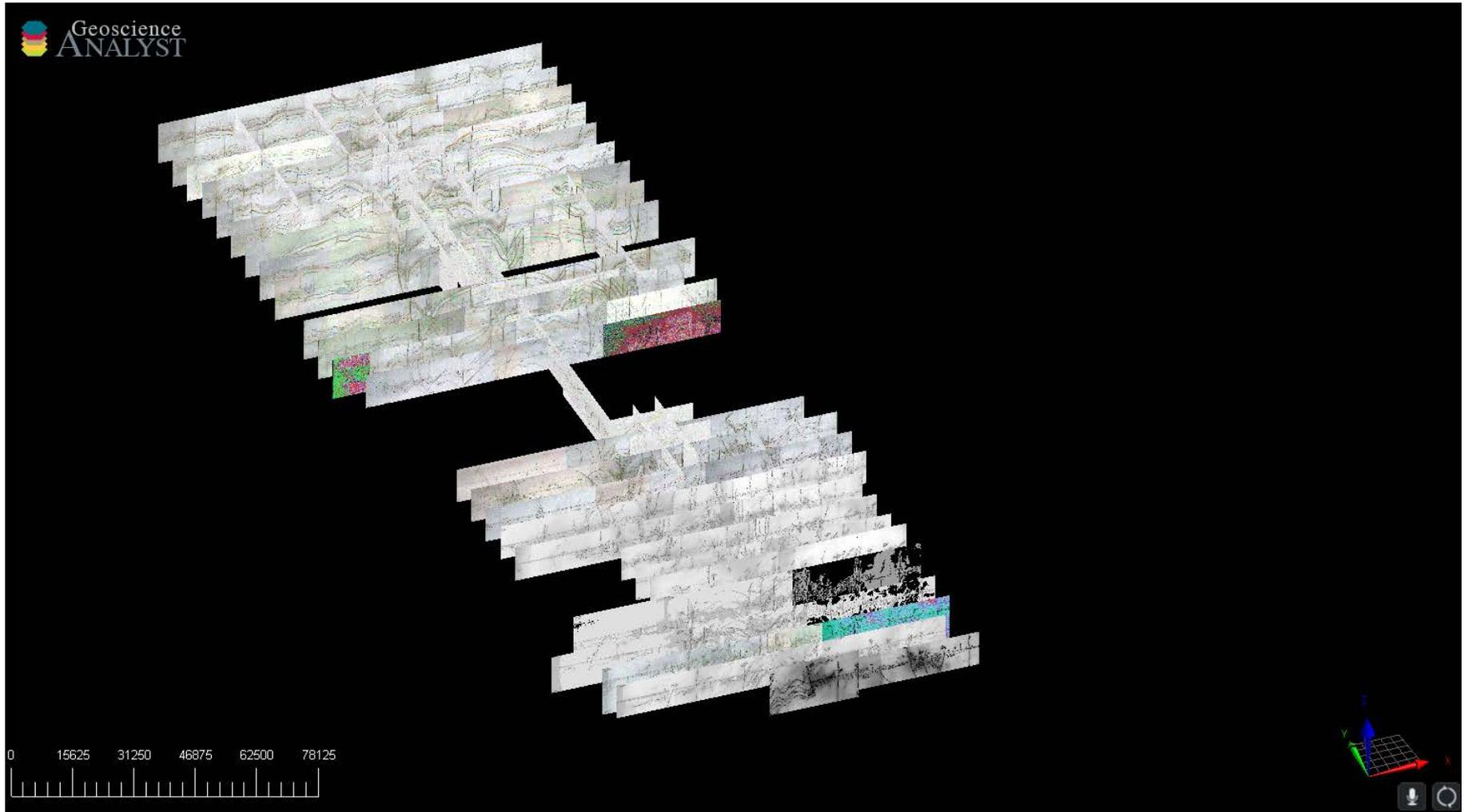
- Lat over Pro
- Lat_over_mes
- Weath_meso
- Lithosols
- Ferrug_grav_
- Alluv_Colluv
- Black_soil
- Lac_seds
- Tert_carb
- Lake



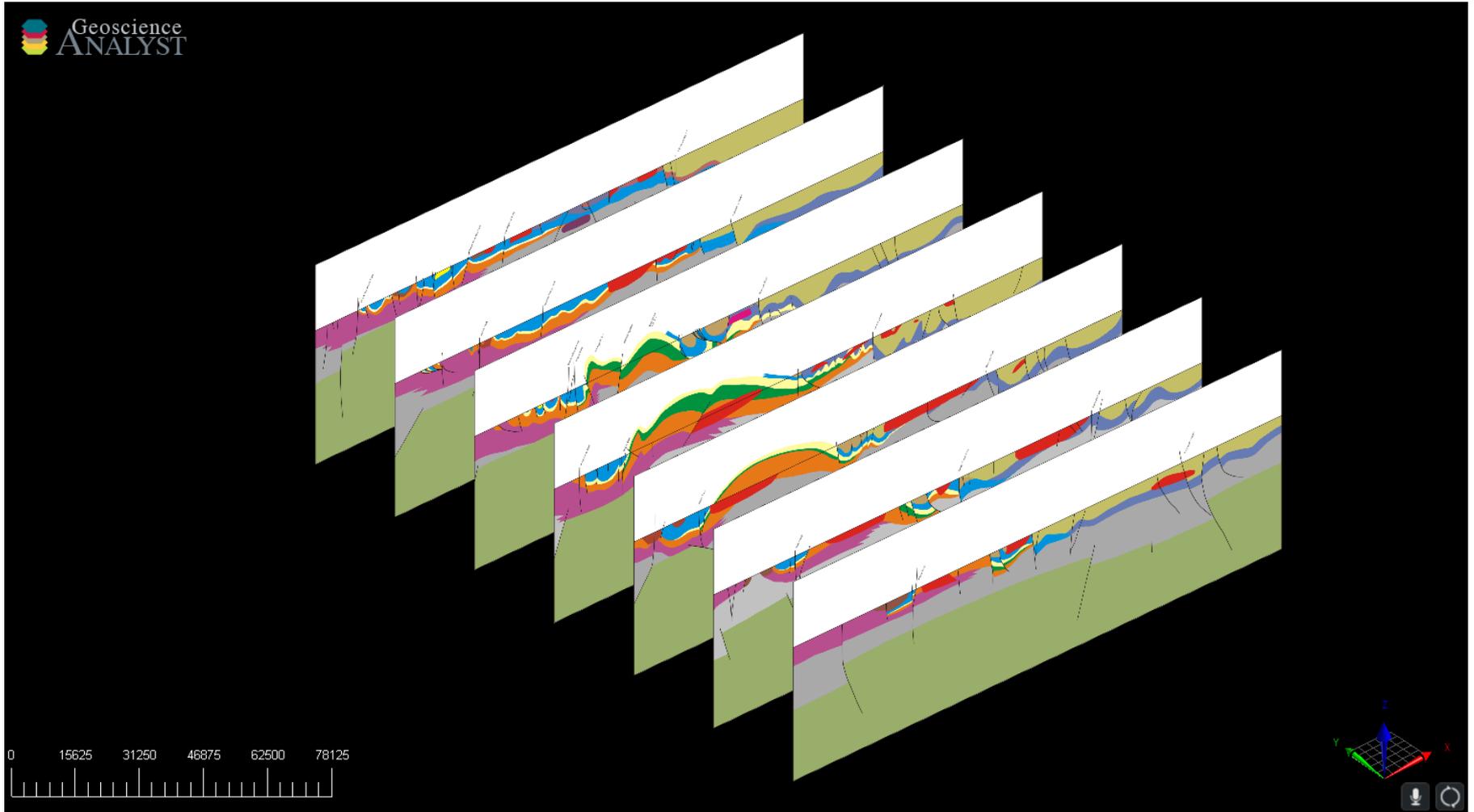
- buckrego polygon
- ELOIREGP_ATTRIB
- MAROREGP_ATTRIB
- selwrego polygon
- trinrego polygon
- CRC_LEME_seismic_regolith_map



3D Information – pmd*CRC i1 and i7



3D Information – pmd*CRC i2



3D Information - seismic

