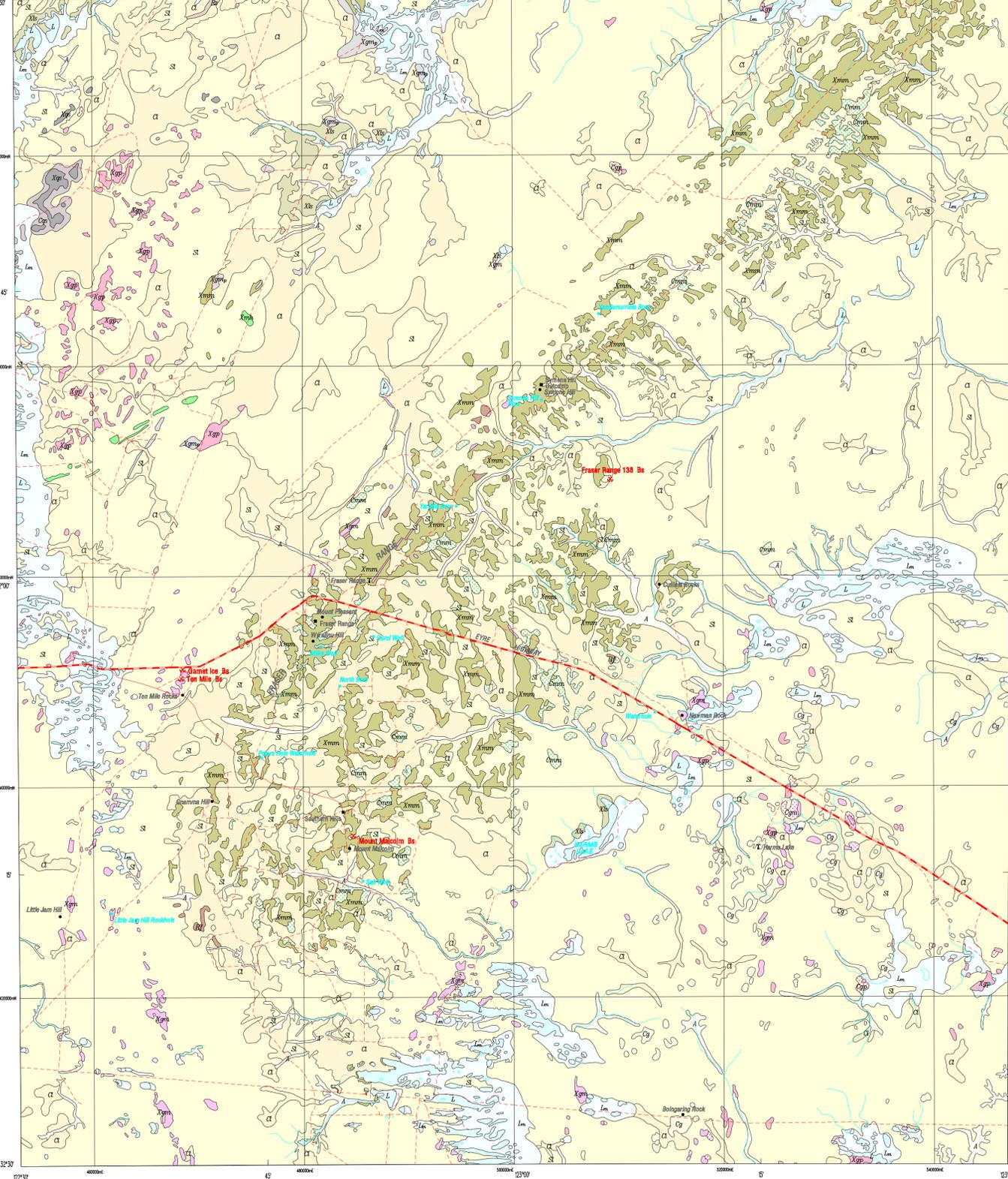
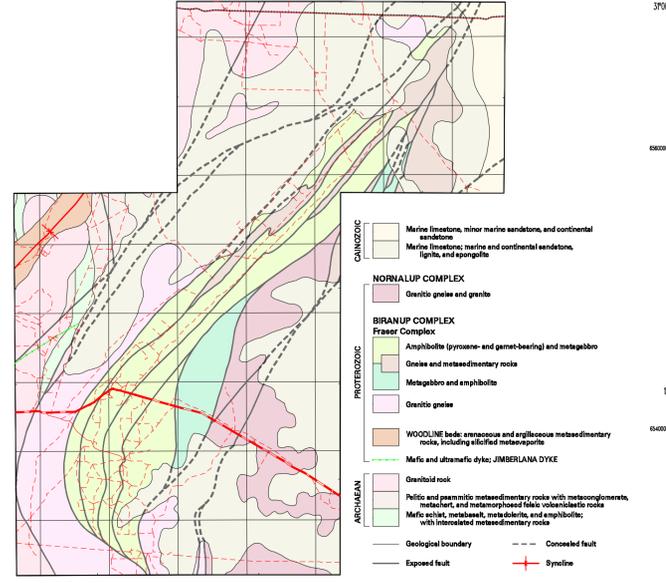


FRASER RANGE REGION

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

SIMPLIFIED GEOLOGICAL INTERPRETATION



REGOLITH MATERIALS

REFERENCE

RESIDUAL (R) - Residual surficial, proximal and reworked material derived by in situ weathering

- Rf comprising mainly iron-rich material (ferrous and ferruginous lag)
- Rt comprising mainly silica-rich material (siliceous)

EXPOSED (X) - Outcrop of reposit, bedrock, and subcrop with locally derived sand, silt, clay, and rubble

- Xgrs derived from quartzofeldspathic metamorphic rock (granite gneiss, gneissiferous gneiss, and felsic schist)
- Xgrps derived from quartzofeldspathic metamorphic rock (pyroxene and psammite metasedimentary rock, metamorphosed shale, slate, and felsic volcanic rocks)
- Xgp derived from quartzofeldspathic plutonic rock (granite and granitic gneiss)
- Xls derived from sedimentary rocks (sandstone, siltstone, shale, and spongolite)
- Xmrk derived from ferromagnesian hypidiyalic rock (mafic and ultramafic dykes)
- Xmrs derived from ferromagnesian metamorphic rock (pyroxene- and garnet-bearing granulite, amphibolite, and metabasalt) and minor quartzite and gneiss
- Xqr derived from quartz-rich silicified rock (sandstone and mudstone)
- Xu derived from ultramafic metamorphic rock (magnesian serpentinite schist)

COLLUVIAL (C) - Unconsolidated and semi-consolidated clay, silt, sand, gravel, and rubble; small rock outcrops locally present

- Cf dominated by transported residual and colluvial sand, silt, and clay in colluvial, sheetwash, or alluvial deposits
- Cg comprising strongly ferruginous material
- Cgr derived mainly from quartzofeldspathic metamorphic rock (granite gneiss, gneissiferous gneiss, and felsic schist)
- Cgms derived mainly from quartzofeldspathic metamorphic rock (granite gneiss, gneissiferous gneiss, and felsic schist)
- Cgp derived mainly from quartzofeldspathic plutonic rock (granite and granitic gneiss)
- Cmrk derived mainly from ferromagnesian hypidiyalic rock (mafic and ultramafic dykes)
- Cmrs derived mainly from ferromagnesian metamorphic rock (pyroxene- and garnet-bearing granulite, amphibolite, and metabasalt) and minor quartzite and gneiss
- Cqr derived mainly from quartz-rich silicified rock (sandstone and mudstone)
- Cu derived mainly from ultramafic metamorphic rock (magnesian serpentinite schist)

DISTAL SHEETWASH (W)

- Wf Sand- and clay-dominated colluvium or sheetwash with indistinct alluvial channels

ALLUVIAL (A)

- A Cobbles, gravel, sand and silt in active alluvial channels

LACUSTRINE (L)

- L Sand, silt, clay, and evaporite material in playa; saline and gypsumiferous locally
- Lm Sand, silt, and evaporite material in mixed playa and dune terrain; saline and gypsumiferous locally; may include areas of residual sand, silt, and clay

SANDPLAIN (S)

- S Residual and saline sand, silt, and clay in variable proportions with local areas of colluvium; including blanket cover; includes ferruginous and calcareous soil

SYMBOLS

- Regolith boundary
- Highway
- Minor road
- Track
- Railway
- Watercourse
- Lake
- Homestead
- Locality
- Mineral occurrence
- Quarry
- Prospect
- Mineral occurrence
- Bt Barite
- Bs Building stone
- Vm Vermiculite

GOVERNMENT OF WESTERN AUSTRALIA
HON. NORMAN MOORE, M.L.C.
MINISTER FOR MINES

ACSO
AUSTRALIAN COASTAL SURVEY

DEPARTMENT OF MINERALS AND ENERGY
L. C. RANFORD, DIRECTOR GENERAL

NGMA
PRODUCT OF THE NATIONAL
GEOCHEMISTRY MAPPING PROGRAM

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA
DAVID BLIGHT, DIRECTOR

SCALE 1:250 000

6000 0 6 12 18 24 30
METRES KILOMETRES

HORIZONTAL DATUM: AUSTRALIAN GEODETIC DATUM 1984
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM
Grid lines indicate 20 000 metre interval of the Australian Map Grid Zone 51

Edited by N. Telford and G. Loan
Cartography by S. Jose

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This map was compiled and produced using a Geographic Information System (ARC/INFO), and the data are available in digital form

Published by the Geological Survey of Western Australia. Copies of this map, or extracts of the data, are available from the Information Centre, Department of Minerals and Energy, 100 Plain Street, East Perth, W. A. 6004. Phone (08) 9222 3459, Fax (08) 9222 3444

Compiled by A. J. Sanders 1999

Sampling by K. P. S. Shevchenko, M. Painter, A. Rigetti, J. Watt, and B. Gronowald (from GSWA), S. Baejoou, J. Hanson, A. Lee, S. McGuinness, 1998

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REGOLITH MATERIALS

REGOLITH GEOCHEMISTRY SERIES

FRASER RANGE REGION

FIRST EDITION 2000
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