UTM Zone 14, NAD83

Project number: MGS2015_006

Scale 1:75 000

0 10 20 30

kilometres

Legend

Metamorphic zones

Metavolcanic rocks

- Prh–Pmp
- Act–Prh–Pmp
- Act–Ab
- Act–Ab–Bt
- Hbl–Act–Ab–Bt
- Hbl–Act–Olg–Bt
- Hbl–Olg–Ep–Chl
- Hbl–Olg–Ep
- Hbl–Olg–Chl
- Hbl–Olg
- Hbl–Olg–Ep–Grt
- Hbl–Olg–Grt
- Undefined

Metasedimentary rocks

- Bt
- Bt–Grt
- Bt–Grt–St
- Sil–Grt–Bt–St
- Sil–Grt–Bt
- Melt–Sil
- Undefined
- Faults
- Shears
- Shear zone
- Felsic–intermediate intrusions
- Mafic–ultramafic intrusion complexes
- Phanerozoic sediments
- Mineral deposit

Metamorphic isograds

Metavolcanic rocks

- Regional mineral-in
- Regional mineral-out
- Contact mineral-in
- Contact mineral-out

Metasedimentary rocks

- Regional mineral-in
- Regional mineral-out

Sub-Phanerozoic metamorphism

- Limit of amphibolite facies
- Greenschist facies
- Amphibolite facies
- Upper-amphibolite facies
- Sub-Phanerozoic intrusions

Contact metamorphic assemblages

Metavolcanic rocks

- Pl + Chl
- Pl + Ep + Chl
- Act + Ab + Ep + Chl
- Act + Pl + Ep + Chl
- Hbl + Act + Ab + Ep + Chl
- Hbl + Act + Pl + Ep + Chl
- Hbl + Act + Ab + Olg + Ep + Chl
- Hbl + Ab + Olg + Ep + Chl
- Hbl + Chl
- Hbl + Olg + Ep
- Hbl + Olg + Bt
- Hbl + Olg + Ep + (Chl)
- Hbl + Pl + Grt

Metasedimentary rocks

- Pl + Bt + Grt + (Ms)
- Pl + Bt + St + (Ms)
- Pl + Bt + Grt + St + (Ms)
- Pl + Bt + St + Sil + (Ms)
- Pl + Bt + St + Ky + (Ms)

Regional metamorphic assemblages

Metavolcanic rocks

- Ab + Chl
- Ab + Ep + Chl
- Pl + Chl
- Pl + Ep + Chl
- Prh + Ab + Chl
- Prh + Ab + Ep + Chl
- Pmp + Ab + Chl
- Pmp + Ab + Ep + Chl
- Prh + Pmp +Ab + Chl
- Prh + Pmp + Ab + Ep + Chl
- Act + Prh + Ab + Ep + Chl
- Act + Pmp + Ab + Ep + Chl
- Act + Prh + Pmp + Ab + Ep + Chl
- Act + Ab + Ep + Chl
- Act + Pl + Ep + Chl
- Act + Ab + Olg + Ep + Chl
- Hbl + Act + Ab + Ep + Chl
- Hbl + Act + Pl + Ep + Chl
- Hbl + Act + Ab + Olg + Ep + Chl
- Hbl + Ab + Olg + Ep + Chl
- Hbl + Olg + Ep
- Hbl + Olg + Bt
- Hbl + Olg + Ep + (Chl)
- Hbl + Pl + Grt
- Hbl + Olg + Grt

Metasedimentary rocks

- Pl + Bt + (Ms)
- Pl + Bt + Grt + (Ms)
- Pl + Bt + St + (Ms)
- Pl +Bt + Grt + St + (Ms)
- Pl + Bt + St + Sil + (Ms)
- Pl + Bt + St + And + (Ms)
- Pl + Bt + Grt + St + Sil + (Ms)
- Pl + Bt + Grt + St + And + (Ms)
- Pl + Bt + Sil + (Ms)
- Pl + Bt + Grt + Sil + (Ms)
- Pl + Bt + Grt + Sil + Kfs + (Ms)
- Sil + Qtz nodules
- Crd + (Grt + St)

Map GP2023-1-1

Map of metamorphic mineral assemblages, zones and isograds of the Flin Flon domain, west-central Manitoba (parts of NTS 63J, K, N, O)

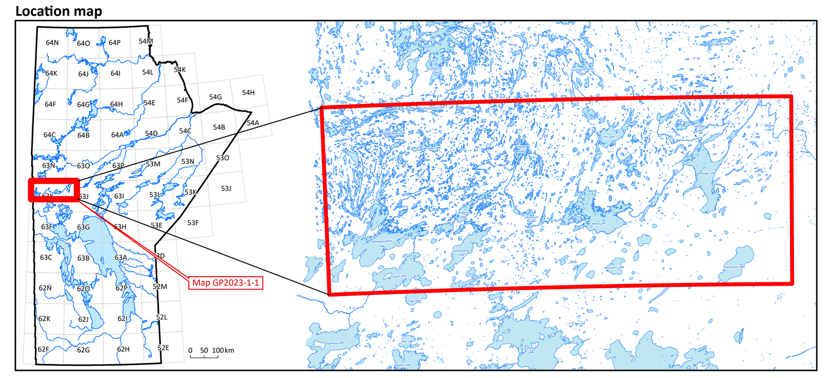
Geology by M. Lazzarotto, D.R.M. Pattison, S. Gagné and C.G. Couëslan

Cartography/GIS by H.O. Adediran

Suggested reference:
Lazzarotto, M., Pattison, D.R.M., Gagné S. and Couëslan C.G. 2023: Map of metamorphic mineral assemblages, zones and isograds of the Flin Flon domain, west-central Manitoba (parts of NTS 63J, K, N, O); Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, Geoscientific Paper GP2023-1, Map GP2023-1-1, scale 1:75 000.

Compiled with published data from:
Bailes and McRitchie (1978), Froese and Moore (1980), Bailes (1985), Bailes and Syme (1989), Briggs (1990), Zaleski et al. (1991), Kraus and Menard (1997), Leclair et al. (1997), Norquay (1997), Ryan (1998), Zwanzig and Bailes (2010), Gilbert (2012), Syme and Whalen (2012), Syme (2015), Gagné (2016), Starr (2017), Reid (2018), Starr and Pattison (2019a, b), Starr et al. (2020), and unpublished data from the Manitoba Geological Survey archives.
Cited publications on this map are included in the list of references found in the report.

Location map



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