



AMISK COLLAGE (PRE-ACCRETION ROCKS > 1.88 Ga)
SYNOVOLCANIC INTRUSIONS

- Tectonites**
- TIS - Leucotonalite
 - P - Shear zone rocks
- SUPRACRUSTAL ROCKS (AMISK GROUP)**
- A - Amphibolite; Ah - hornblende gneiss and schist
 - N - Gneiss and migmatite derived from Amisk Group rocks
- Flin Flon and Snow Lake arc Assemblages**
- FFV - Pillowed mafic flows, volcaniclastic rocks with arc tholeiite affinity and related intrusions; and metamorphic equivalents
 - FFVt - Felsic flows and volcaniclastic rocks, locally felsic intrusions; and metamorphic equivalents
 - FFC - Volcanic conglomerate
 - FFS - Sedimentary rocks (undivided); greywacke, siltstone, shale, quartz-plagioclase gneiss, metagreywacke, garnetiferous biotite gneiss ± staurolite ± sillimanite
 - N - Garnetiferous biotite schist
- Athapapuskow Lake and Roberts Lake ocean floor Assemblages**
- ALV - Mafic volcanic rocks of MORB affinity and related mafic and ultramafic intrusive rocks
- Mystic Lake Assemblage**
- MLF - Felsic intrusive rocks: tonalite, granodiorite, quartz diorite, rhyolite, pegmatite, apfite
 - MLV - Tectonically laminated mafic volcanic rocks

KISEYNEW GNEISS BELT

- INTRUSIVE ROCKS (< 1.85 Ga)**
- X - Pegmatite
 - Z - Aegirine-augite syenite
 - G - Granite-granodiorite; Gt - garnetiferous leucogranite, leucotonalite; Gm - foliated granite with magnetite + hornblende +/- diopside +/- hypersthene; Gg - garnet-muscovite-sillimanite granite (metagranite and granite); Gf - garnetiferous megacrystic granite to granodiorite; Gb - biotite granite-granodiorite; Gx - pegmatitic granite; Gs - granite-tonalite, sillimanite-hematite bearing
 - G - Granodiorite; Gp - porphyritic granodiorite; Gb - biotite granodiorite; Gd - granodiorite, gneissic granodiorite, granite
- Touchbourne Intrusive Suite**
- TE - Gneissic intermediate intrusive suite (undivided) ± orthopyroxene; TE - gneissic ferrohypersthene diorite-tonalite (enderbite); TD - gneissic biotite hornblende quartz diorite-granodiorite; TDg - gneissic garnet-biotite quartz diorite-granodiorite; TDn - biotite quartz diorite-granodiorite, strongly foliated; Tux - pyroxenite, gabbro
 - Dp - Porphyritic quartz diorite

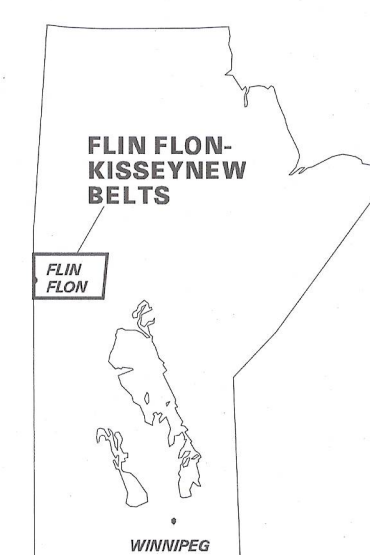
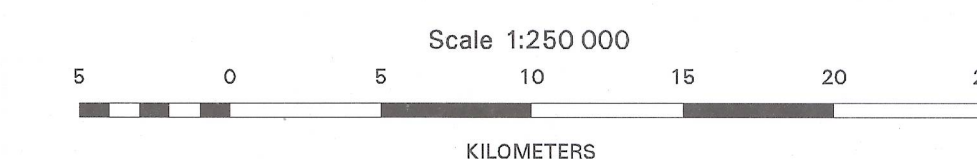
METASEDIMENTARY and METAVOLCANIC ROCKS

- Missi Suite**
- MMS - Magnetiferous quartzofeldspathic gneiss with biotite + muscovite, derived from sandstone; MMSd - with biotite ± cordierite +/- sillimanite +/- garnet; MMSg - with garnet; MMSs - with biotite + muscovite ± sillimanite; MMSh - with hornblende + biotite
 - Msm - Metasandstone, quartzofeldspathic gneiss, locally hornblende ± biotite rich; quartz rich gneiss ± sillimanite ± magnetite
 - MC - Metaconglomerate, metasandstone
 - MMSx - Magnetiferous migmatitic sandstone (metatextite) with < 75% pegmatite
 - MMN - Felsic gneiss derived from rhyolite
 - MMA - Amphibolite; MMAg - garnet amphibolite; MMNh - hornblende-plagioclase gneiss ± garnet ± diopside
 - K - Calc-silicate gneiss; amphibolite; siliceous metasediments
 - S - Quartzofeldspathic migmatitic gneiss
- Metamorphic Rocks of Uncertain Age**
- A - Amphibolite +/- garnet; Hornblende-diopside-plagioclase gneiss (undivided)
 - W - Greywacke, siltstone, mudstone and derived gneiss
- Burnwood River Suite**
- BW - Graphitic biotite-quartz-plagioclase gneiss ± garnet, and garnet-biotite gneiss ± cordierite ± sillimanite, derived from greywacke and mudstone; BWb - biotite gneiss ± garnet; BWt - staurolite schist (Duval Lake)
 - M - Migmatite derived from greywacke (metatextite) with < 75% mobilizate
 - BW - Migmatite (diatextite) with > 75% mobilizate
- PLUTONIC ROCKS (> 1.84 Ga)**
- Gn - Granitic gneiss
 - Gm - Gneissic granodiorite
 - T - Tonalite; Tb - biotite tonalite; Tn - gneissic tonalite-granodiorite; Dm - Magnetiferous quartz diorite; Dn - gneissic quartz diorite
 - B - Gabbro, pyroxenite
 - U - Ultramafic rocks
 - N - Magnetiferous tonalitic gneiss ± hornblende ± garnet
- Herblet Lake gneiss dome:**
- HN - Magnetiferous tonalitic gneiss; HNK - magnetiferous granitic gneiss; HNH - Hornblende-plagioclase gneiss; HNa - amphibolite inclusion gneiss

- AMISK COLLAGE**
- AA - Hornblende-biotite gneiss ± garnet; biotite gneiss
 - AA - Amphibolite, metavolcanic rocks
 - AV - Felsic metavolcanic rocks
- Sheridan Metamorphic Suite**
- SHW - Biotite-garnet gneiss
 - SHK - Calc-silicate rock
 - SHR - Marble and calc-silicate rock
 - SHR - Undivided supracrustal rocks, orthogneiss, garnet-cordierite-anthophyllite schist
 - SHA - Amphibolite - massive, layered

MAP ER86-1-3
REGIONAL GEOLOGY, GOLD DEPOSITS AND OCCURRENCES
IN THE FLIN FLON BELT AND THE SOUTHERN PORTION
OF THE KISEYNEW GNEISS BELT, MANITOBA

To accompany Economic Geology Report ER86-1 (2nd edition)



- Paleozoic/Precambrian boundary
- Faults
- Gold Deposit, Gold Occurrence
- Boundary between Flin Flon belt and Kiseynew Gneiss belt (approximate)