TANAMI REGION

Phanerozoic

Sedimentary Basin Sequences (Cover)

Neo-Prot

Meso-Prot

Palaeo-Proterozoic

Mid-Upper

Lower

Tanami Region Sedimentary Basin Sequences

Archaean

- Є̄la — Є̄la - Antrim Plateau Basalts *(Cambrian)*
- Ꝑd — **Ꝑd - BIRRINDUDU GROUP (undiff)** *(1640 - 1735 Ma)*
  - Birrindudu Group
  - Ꝑdg — Ꝑdg - Gardiner Sandstone
- Ꝑlg — Ꝑlg - Pargee Sandstone, conglomerate, sandstone, siltstone *(1758 - 1770 Ma)*
- **Ꝑw - WARE GROUP** (relationships uncertain)
  - Ꝑwn — Ꝑwn - Nanny Goat Volcanics - ryholite volcanics, basalt ,sandstone
  - Ꝑww — Ꝑww - Mount Winnecke Formation - rhyolite, dacite, porphyry, volcanics, basalt, sandstone
  - Ꝑwc — Ꝑwc - Century Formation
  - Ꝑwl — Ꝑwl - Wilson Formation
- Ꝑc — **Ꝑc - Mt Charles Formation** *(Tanami Mine Succession)*
  - sandstone, siltstone, basalt - (position uncertain)
- *1830 Ma*
- **Ꝑt - TANAMI GROUP (undiff)**
- **Ꝑtk - Killi Killi Formation (undiff)** *(<1840 Ma)*
  - sandstone, greywacke, siltstone (turbidite sequences) chert members
  - Ꝑtks — Ꝑtks - siltstone dominated beds
  - Ꝑtkg — Ꝑtkg - interbedded greywacke dominant and siltstone
  - Ꝑtkc — Ꝑtkc - interbedded coarse sandstone and greywacke
- **Ꝑtt - Dead Bullock Formation (undiff)** *(1836 ± 6Ma)*
  - Ꝑtdc — Ꝑtdc - Upper Dead Bullock Formation (Callie Member) - siltstone, Fe-shale, chert
  - Ꝑtdf — Ꝑtdf - Lower Dead Bullock Formation (Ferdies Member) - Fe-sandstone, siltstone
  - Ꝑtdl — Ꝑtdl - interbedded greywacke & siltstone - greywacke dominant (low mag)
  - Ꝑtdh — Ꝑtdh - interbedded greywacke & siltstone - abundant intercalated mafics (high mag)
- Fault
- Ꝑtsb — **Stubbins Formation** *(1864 ± 3Ma)*
  - Ꝑtsb - Upper Stubbins Formation (Bald Hill Sequence) siltstone, basalt & numerous dolerite sills
  - Ꝑtsl — Ꝑtsl - Lower Stubbins Formation
- Contact unkn. *1880Ma*
- Au — Au - Archaean Basement (undiff)
- Arb — Arb - Billabong Complex (2570Ma)
- felsic & mafic gneiss, granite, migmatite & amphibolite

NORTHERN / CENTRAL ARUNTA

- Pzw — Pzw - Wiso Basin
- Pzn — Pzn - Ngalia Basin

Arunta Region Sedimentary Basin Sequences

- Ꝑan — Ꝑan - Nicker Beds quartzite, schist, meta-siltstone, felsic volcanics & volcaniclastics *(~1770Ma)*
- Ꝑap — Ꝑap - Patmungala Beds sandstone, siltstone, BIF felsic volcaniclastics *(~1800Ma)*
- Ꝑo / Ꝑra — **Ꝑo - Reynolds Range Group**
  - Ꝑra - metacarbonate rocks
- Ꝑar — Ꝑar - siltstone, sandstone, conglomerate, basalt pelite schist, calc-rocks & quartzite
- **Ꝑal - Lander Rock Beds (undiff)**
  - Ꝑall — Ꝑall - Low mag/low metamorphic grade greenschist facies: meta pelite & quartzite dolerite sills
  - Ꝑalh — Ꝑalh - High mag/high metamorphic grade amphibolite-granulite facies: quartzite, schist, gniess & granofels
- Au — Au - Archaean Basement (undiff) felsic & mafic gneiss, granite, migmatite & amphibolite

SOUTHERN ARUNTA

- Pza — Pza - Amadeus Basin

Alochthonous Metamorphic Terranes

- Iw — Iw - Iwupataka Metamorphics Complex[3] *1620 - 1600Ma*
- Ya — Ya - Yaya Metamorphics Complex[3] *1680 - 1640Ma*

EASTERN ARUNTA

- Ꝑln — Ꝑln - Ledan Schist siltstone, sandstone, pelite, schist, chyolite, quartz, porphry, basalt

STRANGWAYS / HARTS RANGE REGION

- Tsw — Tsw - Waite Formation
- Є̄r — Є̄r - Greenschist facies retrograde shear zones within Palaeoproterozoic basement
- *Alice Springs Orogeny*
- Pzg — Pzg - Georgina Basin
- *~900 - 800 Ma*
- Pza — Pza - Amadeus Basin

Strangways Metamorphic Complex

- Ir/Ꝑsh — Ir - Irindina Metamorphics[3] *(650 - 500Ma Alice Springs Orogeny)*
  - Ꝑsh - Harts Range Orogenic Belt[2]
- Ꝑsf — Ꝑsf - Florence Detachment Zone[2]
- Wi/Ꝑsa — Wi - Wigley Metamorphics[3] *>1700Ma*
  - Ꝑsa - Arltunga Gneiss Complex[2]
- Ca — Ca - Cadney Metamorphics[3] *>1780Ma*
  - Ꝑso — Ꝑso - Oonagalabi Gniess Complex[2]
  - Ꝑsc — Ꝑsc - Cadney Metamorphics[2]
- Na — Na - Narwietooma Metamorphics[3] *>1870Ma*
  - Ꝑse — Ꝑse - Enita Gneiss Complex[2]
  - Ꝑsg — Ꝑsg - Garden Metamorphics[2]

[1] NTGS subdivision for Tanami Region
[2] Dr Puquan Ding subdivision
[3] NTGS subdivision for Strangways & Southern Arunta

IGNEOUS INTRUSIONS

Felsic

- Ꝑg3 — Ꝑg3 - Neoproterozoic granitoids
- Ꝑg2 — Ꝑg2 - Mesoproterozoic granitoids

Mafic

- Ꝑmm — Ꝑmm - Mordor Alkaline Complex
- Ꝑma — Ꝑma - Andrew Young Hills Mafic Intrusive Complex *1640 - 1600Ma*

- Ꝑg — Ꝑg - Undifferentiated granitoids, probably Palaeproterozoic
- Ꝑg1 — Ꝑg1 - Palaeproterozoic granitoid intrusions 1845 - 1790Ma Tanami Region

LITHOLOGICAL KEY

- Quartz Veins (P-VNqt)
- Felsic volcanic, volcaniclastic (P-FU)
- Granite - low magnetic / mod-high magnetic (Pgn/Pgm)
- Coarse grained felsic / intermediate intrusive
- Dolerite (P-OD)
- Gabbro (P-OG)
- BIF (Ferruginous thinly bedded to laminated mudstone , Ptd)
- Carbonaceous mudstone/schist (Possible Bald Hill Member; Ptk-SMcb)
- Gneiss - undifferentiated ortho+/-paragneiss (P-MG)
- Mafic volcanics (P-BV)
- Amphibolite (P-MA)
- Unconformity
- Contacts
- Dolerite Dykes
- Trend lines and magnetic fabric
- Accurate Faults
- Approximate Faults
- Inferred Faults
- Minor Thrust
- Major Thrust