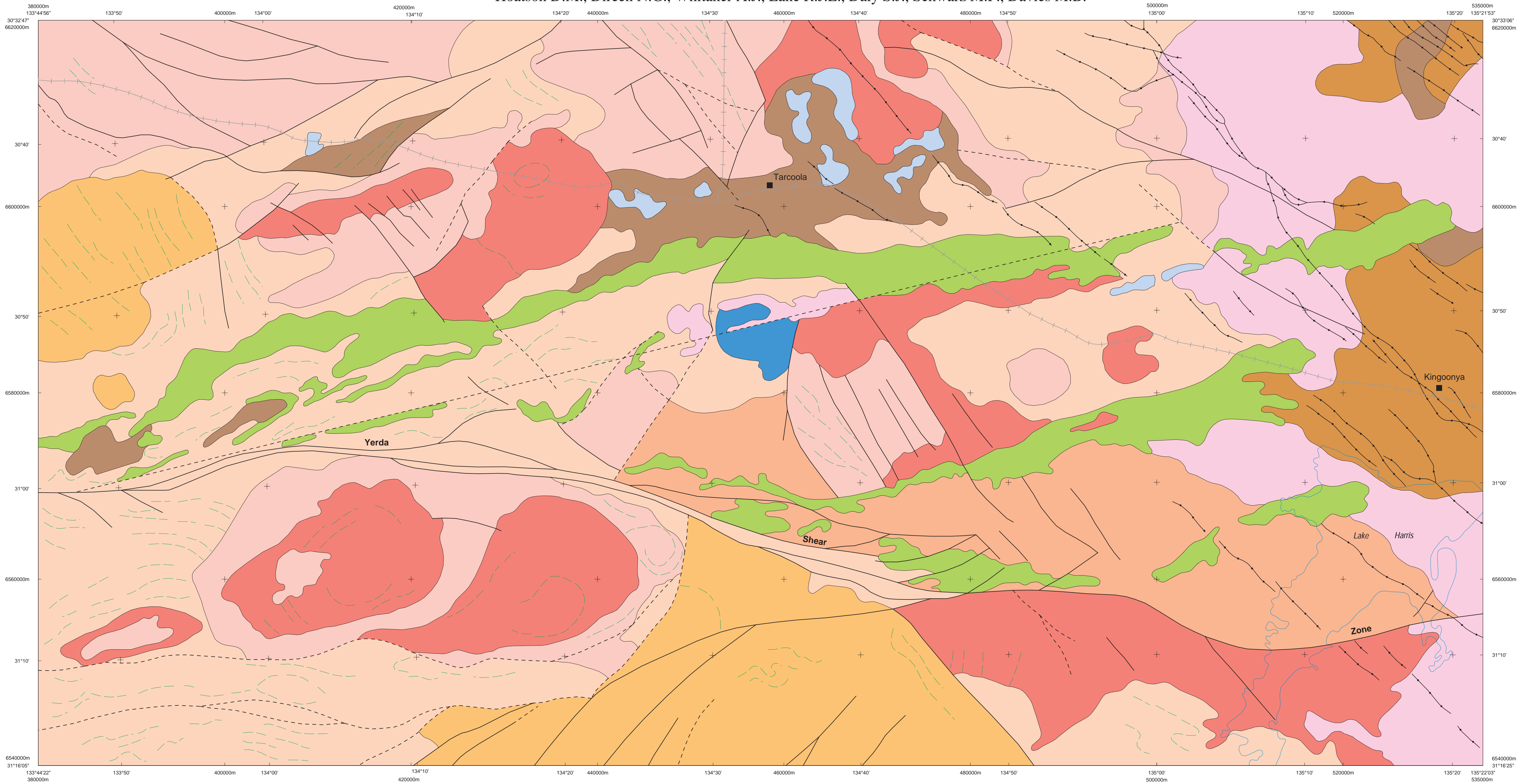
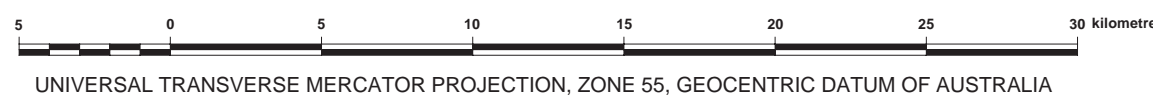


# Geophysical Interpretation Harris Greenstone Belt, Gawler Craton, South Australia

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SCALE 1:250 000



**NEOPROTEROZOIC**

— Gairdner Dyke Swarm (7830 Ma): dolerite, basalt, gabbro

**MEZOPROTEROZOIC**

- Pandurra Formation (~1425 Ma): sandstone, siltstone, shale, conglomerate
- Hilltaba Suite Granite (~1590 Ma): granite, adamellite, granodiorite, syenite, quartz monzodiorite; zoned plutons, low to high magnetisation
- Hilltaba Suite Granite (~1590 Ma): granite, adamellite, granodiorite, syenite, quartz monzodiorite; massive plutons, high magnetisation
- Gawler Range Volcanics (~1590 Ma): dacite, rhyodacite, rhyolite, basalt, andesite, felsic pyroclastic rocks

**PALAEOPROTEROZOIC**

- Muckanippie Anorthosite Suite (~71630 Ma): anorthosite, gabbro, diorite
- Tarcoola Formation (~1650 Ma): siltstone, shale, quartzite, conglomerate, tuff, basalt
- Symons Granite (~1690 Ma), St Peter Suite (1630 Ma): granite, granodiorite, adamellite, gneiss
- Wilgena Hill Jaspilite (>1740 Ma): banded iron formation, chert, quartzite

**LATE ARCHAEOAN - EARLY PALAEOPROTEROZOIC**

- Glenloath Granite (~2500 Ma): gneissic granite, adamellite, granodiorite
- Harris Greenstone Sequence (~>2500 Ma): komatiite, komatiitic basalt, felsic volcanics, banded iron formation, metasediments
- Undifferentiated Archaean (Mulgathing Complex) to Proterozoic basement: granite, orthogneiss, paragneiss, amphibolite, metasediments

- Fault
- Fault, inferred
- Geological boundary
- Lake, non-perennial
- Trend-line
- Railway
- Township/homestead

The Harris Greenstone Belt in the central Gawler Craton of South Australia has potential for Archaean Ni-Cu-PGE sulphide and Archaean-Proterozoic lode-Au mineralising systems. This map is a preliminary interpretation of the Precambrian basement geology based on aeromagnetics, gravity, and diamond drilling. It highlights the extensive distribution of poorly exposed Archaean komatiites and associated rocks (green) that have a strike extent of at least 300 km. The regional pattern of linear komatiitic sequences associated with ovoid granitic plutons and province-wide shear systems, is very similar to the economically important Eastern Goldfields Province in the Yilgarn Craton, Western Australia.

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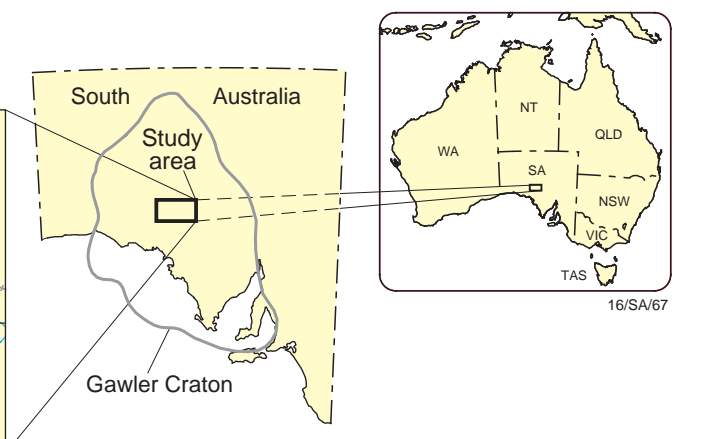
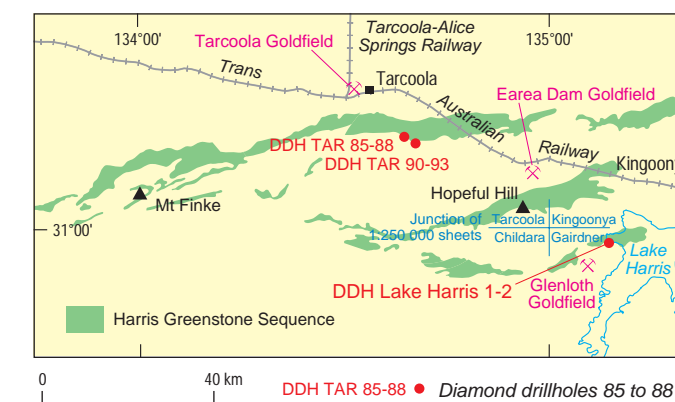
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