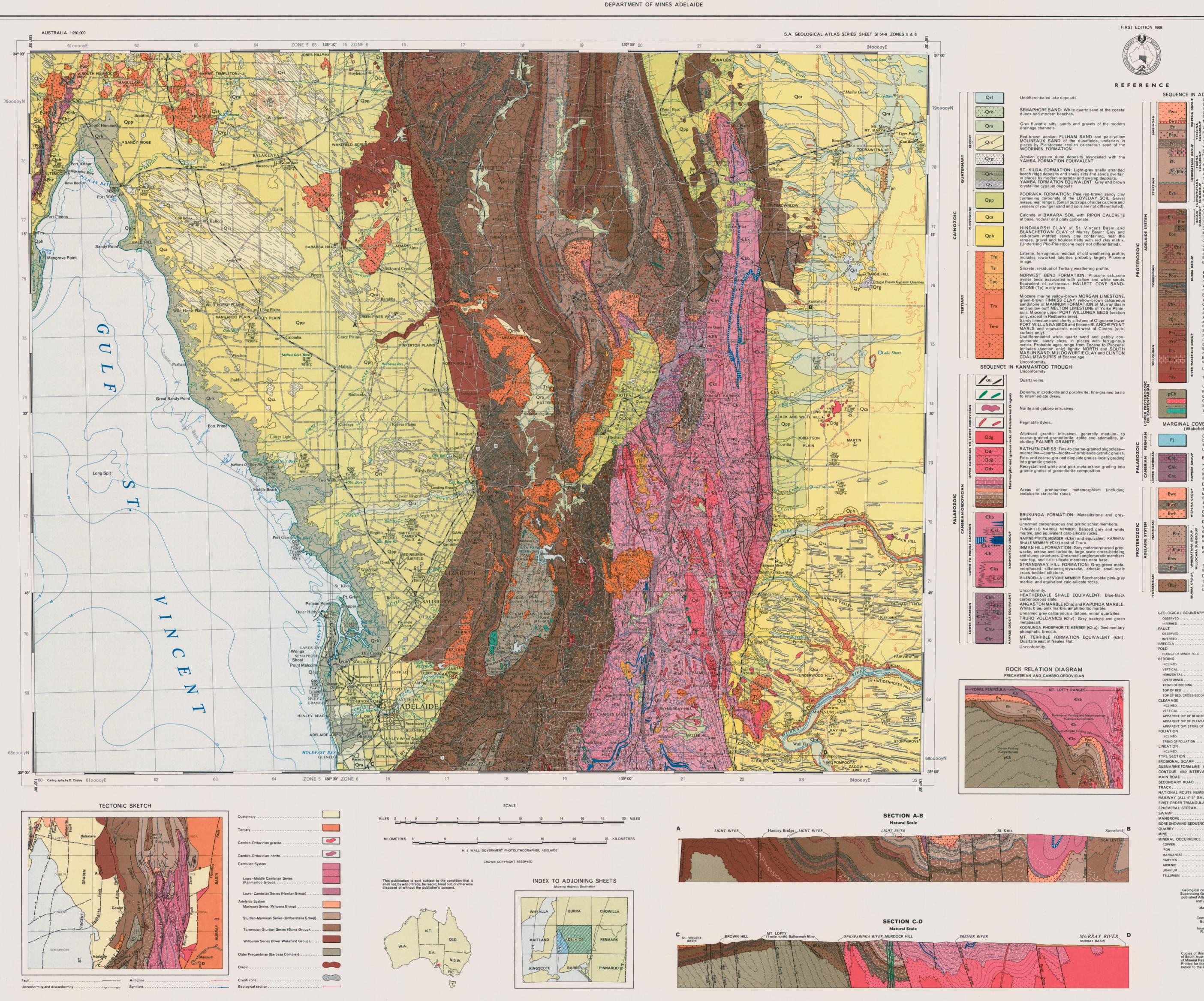
## ADELAIDE

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA



SEQUENCE IN ADELAIDE GEOSYNCLINE

Unconformity.
ULUPA SILTSTONE: Green laminated siltstone, minor unnamed quartzite and sandstone, probably equivalents of SEACLIFF SANDSTONE MEMBER and A.B.C. RANGE QUARTZITE.
NUCCALEENA FORMATION: White and buff dolomite.
Unnamed siltstone and quartzite.
PEPUARTA TILLITE: Massive boulder tillite, gritty quartzites, feldspathic sandstone, arkose and siltstones with minor sandstones.
BRIGHTON LIMESTONE: Banded grey-green siltstones with minor sandstones.
BRIGHTON LIMESTONE EQUIVALENT: Grey and blue

TAPLEY HILL FORMATION: Laminated grey and green silts tone.

SEUDUNDA ARKOSE MEMBER: Fine-grained grey silty arkose.

TINDELPINA SHALE MEMBER: Blue finely-laminated carbonaceous and pyritic shale.

APPILA TILLITE (STURT TILLITE and BOLLA BOLLANA FORMATION EQUIVALENT): Massive grey boulder tillite interbedded with sandstone, arkose and siltstone, and includes HANSBOROUGH TILLITE MEMBER.

Unconformity and disconformity.

Grey laminated sandy siltstone with sandstone dykes (MINTARO SHALE), ripple-marked feldspathic quartzite (GILBERT RANGE QUARTZITE) at top, gritty arkose (MITCHAM QUARTZITE) in type area at base.

SADDLEWORTH FORMATION: Green calcareous siltstone. Black carbonaceous BETHEL SHALE MEMBER at top in north of map area. Minor unnamed quartzites and calc-silicate members in eastern Mt. Lofty Ranges.

Dark AUBURN DOLOMITE (BEAUMONT DOLOMITE EQUIVALENT), in places with cherty blebs, minor dark slate and siltstone. Lenticular feldspathic WATERVALE SANDSTONE MEMBER (Pbv) in Auburn area, and upper

Flaggy feldspathic UNDALYA QUARTZITE (STONY-FELL QUARTZITE), includes unnamed siltstone members.

WOOLSHED FLAT SHALE: Grey laminated siltstone, minor quartzite member.

Black carbonaceous slatey BALHANNAH SHALE MEMBER. White and grey SKILLOGALEE DOLOMITE (including CASTAMBUL and MONTACUTE DOLOMITE MEMBERS and unnamed quartzite and siltstone members).

RHYNIE SANDSTONE (ALDGATE SANDSTONE): Feldspathic fine- to coarse-grained sandstone and arkose, local cross-bedding and heavy-mineral banding; minor conglomerate and dolomite members.

STRADBROOKE FORMATION: Laminated grey-green phyllite and schist, minor quartzite and dolomite.

INGOMAR QUARTZITE: Pale-brown fine- to coarse-grained feldspathic quartzite.

BOCONNOC FORMATION: Grey sandy phyllite, quartzite and dolomite.

BLYTH DOLOMITE BEDS: Grey and black dolomite, some black chert, minor quartzite.

Unnamed sandstone, phyllite and dolomite.

?Diapiric breccia, including dolomite.

Unconformity.

BAROSSA COMPLEX: Mica-quartz schist and granitic gneiss.

Granite.
Metaquartzite.
Albitized zones.

MARGINAL COVER OF GAWLER PLATFORM
(Wakefield I Mile Sheet Area)

CAPE JERVIS BEDS: ?Glacial deposits, quartzite boulders in clay matrix in South Hummocks area and subsurface.
Unconformity.

Blue-grey banded concretionary PARARA LIMESTONE.

KULPARA LIMESTONE: Grey, buff-weathering massive dolomite and dolomitic limestone.

MT. TERRIBLE FORMATION EQUIVALENT: Gritty arkose and minor dolomitic siltstone.

Disconformity.

TENT HILL FORMATION: White SIMMENS QUARTZITE MEMBER (Pwc); red and purple, slumped, silty CORRABERRA SANDSTONE MEMBER.

TREGOLANA SHALE MEMBER: Purple and red laminated

shale and siltstone.

Cream feldspathic cross-bedded WHYALLA SANDSTONE MEMBER (SEACLIFF SANDSTONE EQUIVALENT).

Disconformity.

WILMINGTON FORMATION (Phw): Red and green dolomitic siltstone, minor sandstone.

REYNELLA SILTSTONE MEMBER: Massive red gritty siltstone.

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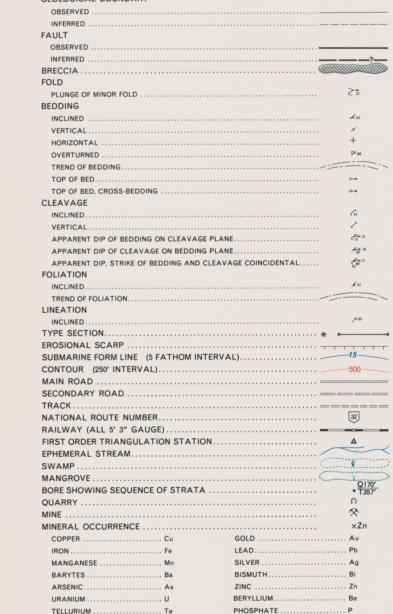
ETINA LIMESTONE MEMBER: Grey gritty algal dolomite and limestone.

PARTY ANGEPENA FORMATION EQUIVALENT: Grey-green

siltstone and dolomite.

Disconformity.

?RHYNIE SANDSTONE EQUIVALENT: Grey and pink feldspathic cross-bedded quartzite with heavy-mineral laminae and conglomerate bands.



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