SOLID GEOLOGY SOUTH AUSTRALIA

Neoproterozoic to Ordovician Time Slice

Compiled by W.M. Cowley, B.Sc.(Hons),
with contributions from the Geological Survey Branch.

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The compiler wishes to acknowledge the efforts of those who prepared major map datasets incorporated into the Solid Geology of South Australia interpretation:

- Kanmantoo Province (Peta Abbot) – 1997
- North, west and south Gawler Craton (1994-1997) – combined and extended, with revised versions produced by Martin Fairclough, and Michael Schwarz (2003, 2004)
- Curnamona Province (1996 and 2000), revised version by Andy Burtt and Peter Betts in 2003
- Warburton Basin [eastern part] (Rod Boucher – Linex, for Petroleum Group) - 2002
- Musgrave Province (Leigh Rankin – GeoInterp) - 2002
- Officer Basin (Leigh Rankin – GeoInterp, for Petroleum Group) - 2003
- Northern Murray Basin basement (Adrian Fabris) - 2003
- Australian Crustal Elements dataset (R.D. Shaw and others, Geoscience Australia) - 1996

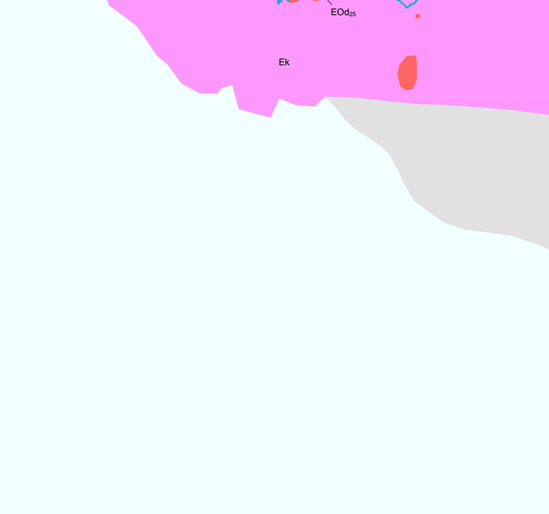
This series of maps is derived from the Solid Geology of South Australia digital dataset:

Cowley, WM (Compiler), 2005. Solid Geology of South Australia. South Australia. Department of Primary Industries and Resources. Mineral Exploration Data Package, 15:
http://www.pir.sa.gov.au/minerals/data/geoscientific_gid_datasets/south_australian_solid_geology

The digital data are also viewable and downloadable from SARIG:
https://info.pir.sa.gov.au/geoserver/sarig/frameSet.jsp

Explanations of significant revised geological interpretations, together with the background to the dataset, are available in 'Solid geology of South Australia: peeling away the cover', in MESA Journal 43:
http://www.pir.sa.gov.au/minerals/publications/mesa_journals/mesa_journal_-_43

GEOLOGICAL PROVINCES



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SCALE 1 : 2 000 000

Kilometres 40 0 40 80 120 160 200 Kilometres

PROJECTION: LAMBERT CONFORMAL CONIC; DATUM: GDA94

FEBRUARY 2008

Warburton Basin
- PONDRINIE BASALT: Trachytic basalt, some with olivine, some amygdaloidal [O-ip]
- INNAMINCKA FORMATION: Deltaic red-bed shale, siltstone and sandstone [O-i]
- DULLINGARI GROUP: Slope to basinal shale, siltstone, lime mudstone; minor sandstone and pebbly sandstone at top [EOu]
- JENA BASALT: Within-plate amygdaloidal basalt, hyaloclastite, porphyritic and trachytic basalt [E-j]
- DIAMOND BOG DOLOMITE: Vuggy dolomite; KALLADEINA FORMATION: shelf limestone, dolomite, siltstone, shale and sandstone; PANDO FORMATION: glauconitic sandstone [EO4]
- MOORACOOCHIE VOLCANICS: Volcaniclastics, porphyritic trachyte, dacite; 517±9Ma

Undifferentiated Neoproterozoic rocks

Undifferentiated Proterozoic rocks

Moorilyanna Graben, Levenger Graben
- MOORILYANNA FORMATION, LEVENGER FORMATION: Pebble conglomerate, arkose, quartzite, minor siltstone and dolomite

Officer Basin, Boorthanna Trough, Amadeus Basin
- KULYONG VOLCANICS: Basalt
- OBSERVATORY HILL FORMATION, ARCOEILLINNA SANDSTONE, APAMURRA FORMATION, TRAINOR HILL SANDSTONE, WIRRILDAR BEDS, equivalents in Amadeus Basin: Mostly non-marine sandstone, siltstone and claystone; minor dolomite, limestone, chert and conglomerate
- RELIEF SANDSTONE, OULDBURRA FORMATION, COOTANOORINA FORMATION: Aeolian, fluvial and evaporitic to tidal sandstone to mudstone; marine limestone and dolomite
- *PETERMANN OROGENY: ~550Ma*
- PUNKERRI SANDSTONE, UNGOOLYA AND LAKE MAURICE GROUPS, RODDA BEDS, WRIGHT HILL BEDS: Dominantly marine shale, siltstone, sandstone and limestone
- WANTAPELLA VOLCANICS: Basalt
- CHAMBERS BLUFF TILLITE: Diamictite, quartzite
- ALINYA FORMATION, PINDYIN SANDSTONE: Fluvial to shallow marine sandstone, minor shale; tidal to sabkha siltstone, shale, sandstone with anhydrite
- Altered, porphyritic or vesicular basalt; porphyritic syenite-trachyte (?highly altered mafic volcanic rock) may be equivalent

Adelaide Geosyncline, Stuart Shelf, Arrowie Basin, Polda Trough, Stansbury Basin
- *DELAMERIAN OROGENY: ~515-470Ma*
- BILLY CREEK FORMATION, WIRREALPA LIMESTONE, LAKE FROME GROUP, YARRAWURTA SHALE: Shallow marine to terrestrial redbeds, peritidal to marine limestone; tuff 523±2Ma [EO13]
- RAMSAY LIMESTONE, YURUGA FORMATION: Shallow marine to terrestrial redbeds, peritidal to marine limestone [EO11]
- KANGAROO ISLAND GROUP: Shallow marine mudstone, sandstone and conglomerate [Ea]
- URATANNA FORMATION, HAWKER GROUP, ANDAMOOKA LIMESTONE: Marine shelf to basinal carbonate, minor basal sandstone and tuff: 564±61 - 526±4Ma [EO12]
- WINULTA FORMATION, KULPARA FORMATION, PARARA LIMESTONE: Marine shelf to basinal carbonate, minor basal sandstone [EO10]
- TRURO VOLCANICS: Mafic to intermediate volcanic rocks [Eo6]
- NORMANVILLE GROUP: Marine shelf to basinal carbonate, minor basal sandstone and tuff: 522±2Ma [En]
- WILPENA GROUP: Dominantly marine shale, siltstone, sandstone (metazoan fossils) and limestone; deltaic sandstone
- UMBERATANA GROUP: Marine siltstone and sandstone; oolitic, sandy and stromatolitic limestone; overlain and underlain by glaciomarine successions of diamictite, sandstone and siltstone with local aeolian sandstone, conglomerate and ironstone
- BURRA GROUP: Marine shale and siltstone; deltaic sandstone; lagoonal and lacustrine stromatolitic dolomite and sedimentary magnesite; fluviodeltaic sandstone and conglomerate
- BOUCAUT VOLCANICS: Felsic to mafic volcanic rocks: 777±7Ma
- KILROO FORMATION: Claystone, siltstone, sandstone, halite, basalt [N-k]
- Diapiric carbonate-cemented breccia [Ncs]
- ROOK TUFF, OODLA WIRRA VOLCANICS: Felsic volcanic rocks: 802±10Ma [Nk6]
- CALLANNA GROUP: Evaporitic clastics and carbonate rocks; fluvial sandstone and conglomerate [Nc]
- Mafic volcanic rocks, including WOOLTANA VOLCANICS, BEDA VOLCANICS [Na1]
- GAIRDNER DOLERITE: Dolerite dykes: 827±6Ma. Shown paler where concealed below younger units [N-g]

Kanmantoo Province; basement to Murray Basin
- Post-Delamerian basalt and dolerite
- BRITISH EMPIRE GRANITE, MUDNAWATANA TONALITE: Late/post-Delamerian felsic intrusive rocks: 442±6 - 427±133Ma
- *DELAMERIAN OROGENY: ~515-470Ma*
- Late/post-Delamerian mafic-ultramafic intrusive rocks, including BLACK HILL NORITE: 497±10 - 482±20Ma [EOdz6]
- Late/post-Delamerian felsic intrusive rocks, including MURRAY BRIDGE GRANITE, MANNUM GRANITE, TARATAP GRANITE: 497±10 - 471±12Ma [EOdz5]
- Syn-Delamerian mafic intrusive rocks
- BUNGADILLINA MONZONITE: Pre/syn-Delamerian felsic intrusive rocks: 527±27Ma [EOdb]
- Pre/syn-Delamerian felsic intrusive rocks, inlcuding RATHJEN GNEISS, ENCOUNTER BAY GRANITE, PALMER GRANITE: 564±57 - 486±6Ma [EOdz4]
- Possible volcanic rocks; intercalated with Kanmantoo Group metasediments [Ek4]
- Mafic volcanic rocks; intercalated with Kanmantoo Group metasediments [Ek3]
- KANMANTOO GROUP: Metasandstone, phyllite, schist, gneiss [Ek]
- Felsic-intermediate volcanic rocks, including TEAL FLAT VOLCANICS, MARNE RIVER VOLCANICS: 521±4 - 478±23Ma; intercalated with Normanville and/or Kanmantoo Group metasediments [Eo5]
- Mafic volcanic rocks, including TRURO VOLCANICS: intercalated with Normanville and/or Kanmantoo Group metasediments [Eo6]
- NORMANVILLE GROUP: Marine shelf to basinal carbonate, minor basal sandstone and tuff: 522±2Ma
- Undifferentiated Cambro-Ordovician metasediments, including Kanmantoo Group?
- Undifferentiated Neoproterozoic sediments
- Undifferentiated Neoproterozoic to Cambrian metasediments
- Undifferentiated Neoproterozoic to Cambrian metasediments, Neoproterozoic-Ordovician volcanic and mafic intrusive rocks

Musgrave Province
- *PETERMANN OROGENY: ~550Ma*
- Demagnetised zones and non-magnetic mylonite along shear zones and faults
- ALCURRA DOLERITE AND AMATA DOLERITE: Post-Musgravian mafic dykes; variably magnetic, including reversely magnetised
- Post-Musgravian mafic dykes; mostly reversely magnetised; may be as young as Neoproterozoic [MNs]
- Post-Musgravian mafic sills and plugs; mostly reversely magnetised; may be as young as Neoproterozoic [MN4]
- ANGATJA GRANITE: Massive granite; weakly magnetic; ~1070Ma
- GILES COMPLEX: ~1080-1050Ma
- Massive anorthosite; non-magnetic to weakly magnetic [Mg10]
- Layered ultramafic and mafic sills with contrasting magnetic character [Mg9]
- Massive to weakly layered mafic to ultramafic rocks, commonly basal to layered sills; non-magnetic to weakly magnetic [Mg8]
- *MUSGRAVIAN OROGENY: 1225+/-6 - 1186+/-10Ma*
- PITJANTJATJARA SUPERSUITE: ~1200-1175Ma
- Granitoid plutons and phases of larger plutons, non-magnetic to moderately magnetic [Mp13]
- Granitoid plutons, massive to internally zoned, including intrusive charnockite; strongly magnetic [Mp12]
- BIRKSGATE COMPLEX: Felsic granulite protoliths 1565±17; 1526±8; 1422±8, 1441±11; 1354±20; 1305±8Ma
- Strongly sheared, altered or granite-intruded gneiss or granulite adjacent to major shear zones; non-magnetic to weakly magnetic [Mr26]
- Demagnetised or altered gneiss or granulite adjacent to major structures or Giles Complex intrusives; non-magnetic to weakly magnetic [Mr25]
- Massive gneiss and granulite, mainly meta-igneous; may include charnockite/migmatite alteration of layered granulite; weakly to moderately magnetic; includes WATARU GNEISS [Mr24]
- Layered gneiss and granulite, mainly metasedimentary [Mr23]
- Geophysically-delineated extensions of Musgrave Province under cover
- Inferred Palaeoproterozoic-early Mesoproterozoic protolith/basement to Mulga Park Subdomain
- Inferred Palaeoproterozoic-early Mesoproterozoic protolith/basement to Fregon Subdomain
- OLIA GNEISS; Inheritance, 1993+29, 1710+40Ma; early metamorphism 1607±14; granite 1502±14Ma; late metamorphism ~1400Ma?
- Altered, sheared, demagnetised gneiss adjacent to major shear zones; weakly magnetic [L-o4]
- Layered gneiss; moderately to strongly magnetic [L-o3]
- Massive or poorly-banded gneiss; moderately magnetic [L-o2]

Beadell Province
- ?Post-Musgravian mafic dykes; mostly reversely magnetised; may be as young as Neoproterozoic
- ?PITJANTJATJARA SUPERSUITE: Elliptical non-magnetic to weakly magnetic intrusive bodies, some with magnetic rims, and N-trending folded linear magnetic bodies; ~1200-1175Ma?

Coompana Block
- ?Post-Musgravian mafic dykes; mostly reversely magnetised; may be as young as Neoproterozoic
- ?GILES COMPLEX equivalent: Gabbro and reversely magnetised bodies possibly mafic or ultramafic; 1078-1073Ma?

Curnamona Province
- ?PANDURRA FORMATION: Sandstone, siltstone and shale, Bumbarlow 1, age unknown

Cariewerloo Basin
- PANDURRA FORMATION: Redbed sandstone, minor siltstone; 1424±51Ma (max, Rb-Sr)

Coompana Block
- Largely unknown basement; includes foliated granite in Mallabie 1: 1470Ma, metamorphism 1185-1159Ma (K-Ar)

Gawler Province
- SPILSBY SUITE: Adamellite to granodiorite; 1510±12Ma
- Granite, aplite; Lagoon Hill 1533±6Ma
- *KARARAN OROGENY PHASE 3: ~1565-1540Ma; includes Coober Pedy ridge 1565±8Ma; PB2 ~1550Ma; Nundroo 2 1543±9Ma*
- MUNJEELA GRANITE: S-type granite, ~1565Ma
- OORLANO METASOMATITE: Alkali feldspar, iron-rich, carbonate and calcsilicate metasomatite; 1586±5Ma
- HILTABA SUITE: Granite to adamellite, lesser quartz monzodiorite. Quartz monzonite and granodiorite; 1613±19 - 1575±7Ma; inheritance (Tickera) ~1750Ma
- Mafic to felsic plugs, including CURRAMULKA GABBRONORITE: 1583±5Ma
- GAWLER RANGE VOLCANICS: Undifferentiated mafic to felsic volcanic rocks [Ma]
- GAWLER RANGE VOLCANICS (Upper): Dacite and rhyodacite; 1592±3Ma [Ma10]
- GAWLER RANGE VOLCANICS (Lower): Mafic lower Gawler Range Volcanics, Olympic Domain [Ma11]
- GAWLER RANGE VOLCANICS (Lower): Dacite to rhyolite, andesite, basalt; 1597±8 - 1589±16Ma; inheritance, Cultana ~1670Ma [Ma9]
- CORUNNA CONGLOMERATE, BLUE RANGE BEDS: Sandstone, conglomerate, siltstone, breccia; includes tuff 1587+15Ma
- Nooloyeana Domain: geophysically-delineated extensions of Gawler Craton under cover, based on new interpretation
- Fisher Domain: quiet magnetic zone, low gravity signature, some intrabasement magnetic sources: Late Kararan/Musgravian granitoid-dominated?
- Hughes Domain: unknown basement, poor geophysical response
- ST PETER SUITE: granite to diorite, dolerite, amphibolite: 1620±4Ma; ST FRANCIS SUITE: leucogranite and leucoporphyry
- NUYTS VOLCANICS: Rhyodacite to rhyolite; 1631±3 - 1627±2Ma
- *KARARAN OROGENY PHASE 2: ~1650Ma; includes Moondrah Gneiss, Coldea 2, metamorphism 1653±8Ma*
- *KARARAN OROGENY PHASE 1: ~1690-1670Ma; includes Moondrah Gneiss, Coldea 2, metamorphism 1690±9Ma*
- TUNKILLIA SUITE: Comagmatic felsic and mafic granitoid rocks, 1680+/-5 - 1679+/-12 Ma
- MUCKANIPPIE SUITE: Anorthosite, gabbro, diorite; uncertain age
- TARCOOLA FORMATION: Quartzite, shale, conglomerate and minor tuff: 1656±7Ma; LABYRINTH FORMATION:sandstone, conglomerate, chert, rhyolite: 1723±10Ma; EBA FORMATION: quartzite, siltstone, shale, minor basalt
- ENGENINA ADAMELLITE, SYMONS GRANITE; equivalents of TUNKILLIA SUITE: Deformed gabbro to granite of the Kararan Orogeny and earlier transitional Kimban-Kararan events; includes 1730±10Ma gabbro in Colona 43, Engenina Adamellite 1691±25Ma, foliated granites at Wynbring 1685 - 1669±10Ma, Lake Ifould 1672±17Ma and Barton south ~1675Ma. Symons Granite 1690±10Ma and granite at Little Pinbong 1670±17Ma
- KIMBAN OROGENY: ~1730-1692Ma
- MOODY SUITE: Granite to granodiorite; 1702±10 - 1692±10Ma
- Unnamed; formerly LINCOLN COMPLEX in part: Undifferentiated granitoid intrusive rocks of Kimban Orogeny; includes MIDDLECAMP GRANITE: 1731+/-7Ma; PAXTON GRANITE: ~1715Ma
- *TRANSITIONAL KIMBAN-KARARAN EVENTS: Mount Woods Domain; metamorphism 1736±14; gabbro, Colona 43 1730±10Ma*
- MCGREGOR VOLCANICS: Rhyolite, dacite, andesite and basalt: ~1740Ma; MOONABIE FORMATION: Volcaniclastic sandstone and siltstone [Lm]
- WALLAROO GROUP: Undifferentiated metasediments and felsic and mafic metavolcanic rocks; 1765±27 - 1741±7Ma [Lx]
- WEETULTA FORMATION: Felsic metavolcanic rocks: 1765±27 - 1741±7Ma [Lxe]
- WANDEARAH FORMATION: Chemical and clastic metasediments [Lxw]
- INVESTIGATOR GRANITE GNEISS: Granitic gneiss to porphyritic granite; 1762+/-11Ma
- PRICE METASEDIMENTS: Iron-rich metapelite, partly tuffaceous: 1767±17Ma
- PEAKE METAMORPHICS, including TIDNAMURKUNA VOLCANICS: Quartzitic and pelitic paragneiss, basalt and rhyolite; 1780±12Ma. Includes metavolcanic gneiss at Spring Hill; 1746±6Ma [Le]
- Magnetic orthoamphibolite and metabasalt [Leb2]
- MYOLA VOLCANICS: Rhyolite to rhyodacite; 1791±4Ma; BROADVIEW SCHIST: Schist, quartzite, amphibolite
- WIRRIECURRIE GRANITE: Granite, adamellite, granodiorite; 1793±8Ma
- *NEILL EVENT: Metamorphism, Corny Point 1845±6Ma*
- DONINGTON SUITE: Gneissic gabbronorite, charnockite and alkali-feldspar granite and mafic dykes; 1853±4 - 1850±7Ma
- Nawa Domain (including Middle Bore Ridge): undifferentiated Precambrian granite, granite gneiss and orthogneiss
- Nawa Domain (including Yoolperlunna and Ammaroodinna Inliers): schist and granitic gneiss; granite 1738±17Ma. Arrimaroodinna Inlier metamorphism ~1104, 1050, 973Ma (?Musgravian)
- Nawa Domain (including Nawa and Mabel Creek Ridges): undifferentiated metasediments; PB2 metamorphism ~1550Ma [Ls3]
- Nawa Domain (including Nawa and Mabel Creek Ridges): iron formation [Ls3]
- MOONDRAH GNEISS; Granulite-grade iron-rich aluminous metasediments; precursor of unknown age. Coldea 2: inheritance 2426±6Ma
- WILGENA HILL JASPILITE: Iron formation and minor metasediments, unknown age
- CORNY POINT PARAGNEISS: Migmatitic paragneiss; precursor possibly Hutchison Group equivalent
- MOUNT WOODS COMPLEX: Granulite-grade paragneiss, often iron-rich, felsic granulite; precursor of unknown age. Coober Pedy Ridge metamorphism 1565±8Ma and inheritance ~1750Ma
- Iron formation in Mount Woods, Coober Pedy and Olympic Domains [Ls7]
- BOSANQUET VOLCANICS: Rhyodacite and calcsilicate rock; 1859±11Ma [Lhb]
- UPPER and LOWER MIDDLEBACK JASPILITE: Iron formation [Li1]
- ?HUTCHISON GROUP: Metasediments [?Lh]
- HUTCHISON GROUP: Quartzitic, pelitic and calcsilicate metasediments [Lh]
- *MILTALIE EVENT: ~2000Ma*
- MILTALIE GNEISS: Migmatised granodioritic gneiss; 2003±18 - 1997±11Ma
- *SLEAFORDIAN OROGENY: 2479±9Ma - 2430±6Ma*
- DUTTON SUITE: Granite and granodiorite; 2517±14 - 2459±15Ma [ALd]
- GLENLOTH GRANITE: Gneissic granite to granodiorite; 2499±11 - 2435±17Ma [ALmg]
- SLEAFORD COMPLEX: Paragneiss, granitic orthogneiss, iron formation, mafic granulite; inheritance to 3150Ma; includes WANGARY GNEISS: ?igneous protolith 2679±9Ma [ALs]
- MULGATHING COMPLEX: Paragneiss, granitic orthogneiss, iron formation, mafic granulite [ALm]
- HALL BAY VOLCANICS: Felsic metavolcanic rocks and metasediments; 2520±7Ma [ALsh]
- KYCHERING FORMATION, LAKE HARRIS KOMATIITE: Harris Greenstone Belt: felsic volcanic rocks, metasediments; komatiite: ~2520Ma [ALm7]
- MULGATHING COMPLEX: Rhyodacite, andesite and minor basalt, DP1: 2553±9Ma [ALm1]

Mount Lofty Ranges Inliers
- *DELAMERIAN OROGENY: ~515-470Ma*
- *?OLARIAN OROGENY: ~1590Ma*
- BAROSSA COMPLEX: Paragneiss, calcsilicate and orthogneiss, metamorphism ~1590Ma and intrusive aplite 1587±22Ma

Curnamona Province
- *DELAMERIAN OROGENY: ~515-470Ma*
- *OLARIAN OROGENY: ~1620-1580Ma*
- PETERMORRA VOLCANICS: Dacite to rhyolite and volcaniclastic and epiclastic rocks: 1560±2Ma; PEPEGOONA PORPHYRY: Rhyolitic to rhyodacitic metavolcanic rock [M39]
- MT NEILL GRANITE: Porphyritic granite: 1569±14Ma; MOOLAWATANA SUITE: granite and adamellite: 1556±10 - 1557±6Ma [M38]
- FREELING HEIGHTS QUARTZITE, MT ADAMS QUARTZITE, YAGDLIN PHYLLITE: Quartzitic, pelitic and calcsilicate metasediments; volcanic rocks at Gunsight and Harts Creek: 1575±14 - 1576±2Ma
- Felsic volcanics of Benagerie Ridge: 1582±4Ma; feldspathic sandstone and mafic volcanics in Bumbarlow 1 may be equivalent
- BIMBOWRIE SUITE: Mafic intrusive equivalents of Bimbowrie Suite [M37]
- BIMBOWRIE SUITE: Mainly S-type monzogranite, quartz monzodiorite, granodiorite and sodic granitoids; 1616±9 - 1579±2Ma [M36]
- Geophysically-delineated extensions of Curnamona Province under cover, based on GA crustal elements
- Foliated granodiorite [?L26]
- POODLA HILL SUITE: Mainly I-type mafic granitoids: granodiorite and monzogranite; 1641±11 - 1629±12Ma [L26]
- LADY LOUISE SUITE: Amphibolite: 1685±4Ma
- RADIUM CREEK METAMORPHICS: Quartzitic, pelitic and calcsilicate metasediments; magnetic ?metasediments east of Mt Babbage and Mt Painter Inliers; age unknown, Willyama Supergroup equivalent
- STRATHEARN GROUP and equivalents (WILLYAMA SUPERGROUP): Psammopelite and pelite, locally graphitic; includes metasiltstone, Bumbarlow 1; 1693±3 - 1648±6Ma
- BROKEN HILL GROUP (WILLYAMA SUPERGROUP): Siliciclastic metasediments including calcsilicates, garnet- and gahnite-bearing rocks and calc-albites; ~1690Ma
- BASSO SUITE: A-type metagranitoids and felsic metavolcanic rocks; 1712±2 - 1699±10Ma [Lz]
- CURNAMONA GROUP and equivalents (WILLYAMA SUPERGROUP): Schistose, albitic and calcsilicate metasediments; ~1710Ma [L41]

Beadell Province
- Inferred Palaeo-Mesoproterozoic NNE-trending mobile belt (Albany-Fraser equivalent?: 1700-1280Ma?)

Arunta Block
- Mylonitic pegmatite, age unknown; (??1850-1700Ma)

Kersaint Province
- ?Delamerian granitic gneiss at Young Rocks intrudes unknown basement

Inferred pre-Neoproterozoic basement to Officer Basin, Adelaide Geosyncline, Warburton Basin, Murray Basin
- Crustal Element Thomson
- Crustal Element Bourke
- Crustal Element Wonominta
- Crustal Element Muloorina
- Crustal Element North Flinders
- Crustal Element Adelaide
- Crustal Element Kanmantoo Main
- Crustal Element Glenelg
- Crustal Element Kanmantoo Penola
- Crustal Element Kanmantoo SW

Fault, position accurate
Fault, position approximate
Fault, normal, ticks on younger rocks
Fault, normal, ticks on younger rocks, position approx.
Fault, reverse, triangles upthrown side
Fault, reverse, approximate, triangles upthrown side
Fault, wrench, dextral
Fault, wrench, dextral, approximate
Fault, wrench, sinistral, approximate

CULTURAL FEATURES
Localities
Primary Roads
Secondary Roads
Railways
State Border
Coastline
Perennial Watercourse
Waterbodies
Major Mineral Occurrence

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