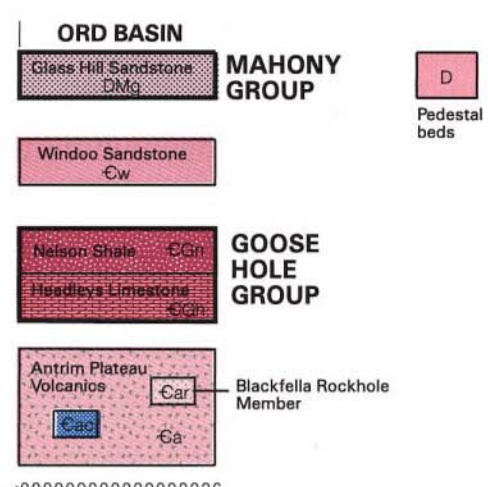
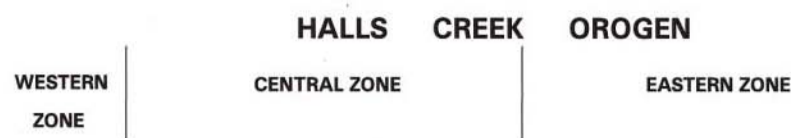
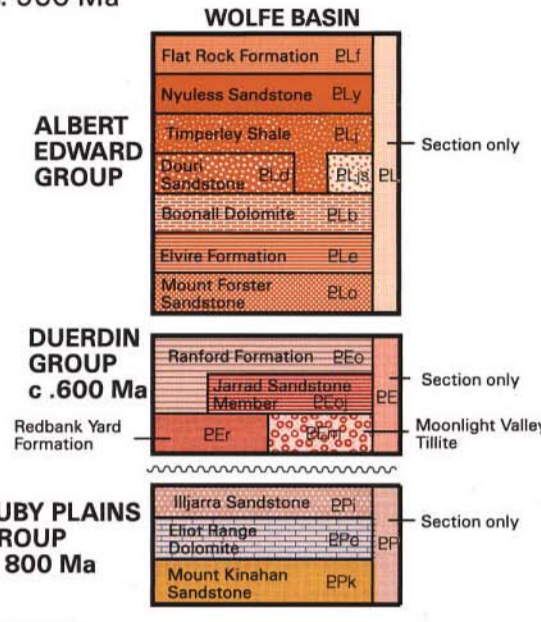


MAIN PHASE OF ALICE SPRINGS OROGENY c. 300 Ma



Qa	Alluvial sand, silt, gravel and clay in channels and on flood plains	QUATERNARY
Czb	Grey clay and silt forming black soil plains	MIOCENE TO QUATERNARY
Czba	Black soil plains with scattered exposures of Ca	
Czbs	Black soil plains with scattered exposures of Ts	
Czc	Sand, silt, gravel and clay, mainly colluvial, forming fans and scree slopes	
Czcv	Sand, silt and clay, alluvial and colluvial, forming dissected low-lying terrain	
Cze	Rubbly veneer on bedrock: residual and colluvial	TERTIARY (pre MIOCENE)
Czp	Landslip breccia	
Czs	Sand and silt, mainly aeolian and sheet-wash deposits	
Czo	Bleached and mottled zone of lateritic weathering profile on pre-Cainozoic bedrock	
Czz	Silcrete	
Czk	Calcrete; minor chalcedony	
Czl	Ferricrete and ferruginous pisolitic gravel (laterite) cappings	

KING LEOPOLD OROGENY c. 560 Ma

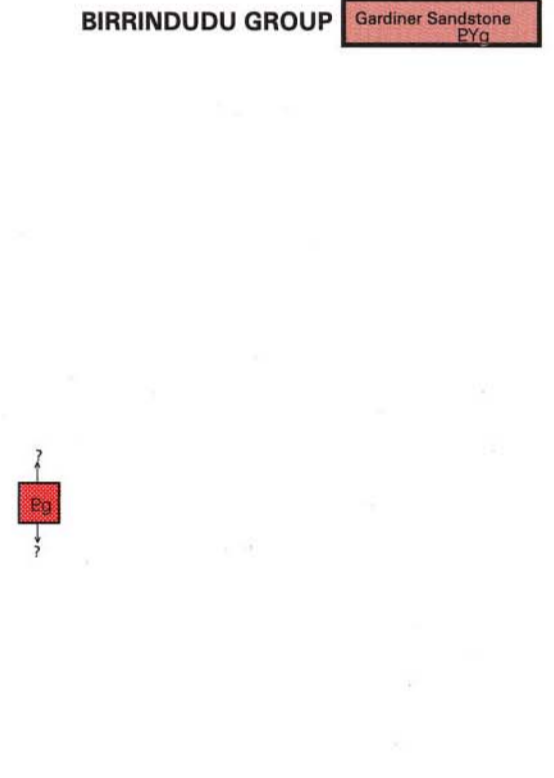
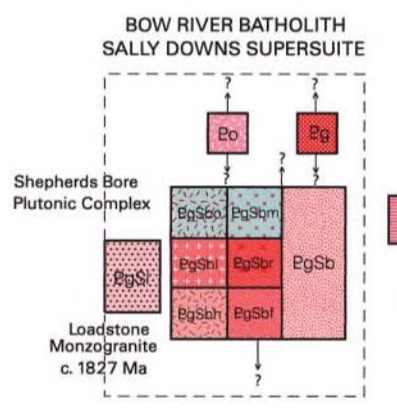
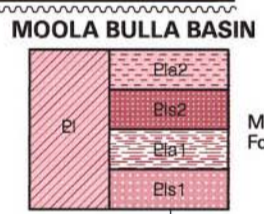
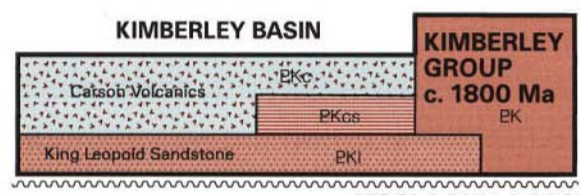


DMg	Quartz sandstone, minor conglomerate	DEVONIAN
D	Quartz sandstone, pebbly sandstone, conglomerate	
Cw	Quartz sandstone; minor mudstone, dolomite, stromatolitic chert	CAMBRIAN
CGn	Purple siltstone; minor sandstone, limestone	
CGh	Grey limestone, massive to laminated; minor nodular chert	
Ca	Amygdaloidal basalt; minor basaltic sandstone, limestone, chert	
Car	Basalt fragments in matrix of potassium feldspar	
Cac	Chert, commonly brecciated; stromatolitic	

YAMPI OROGENY c. 1200 Ma

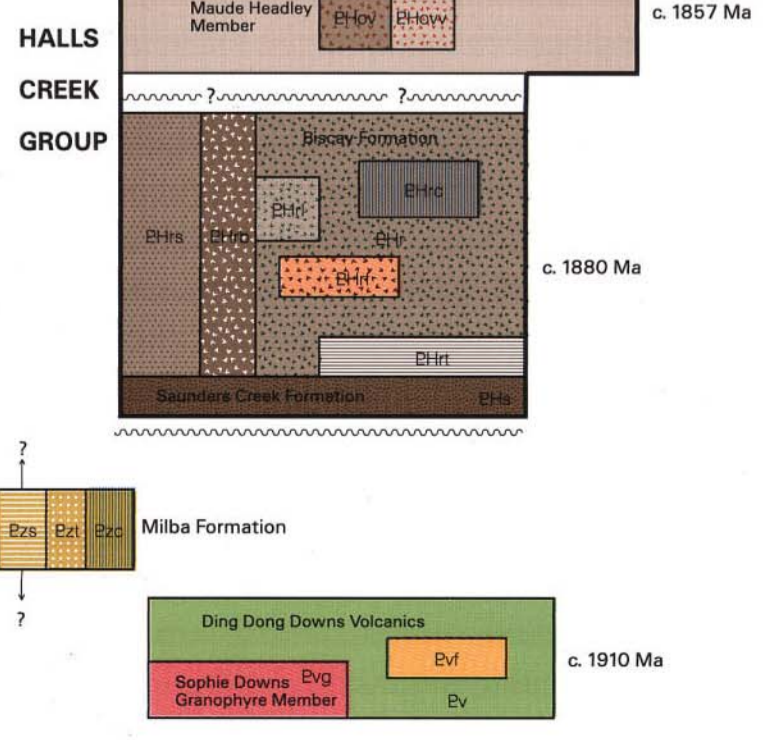
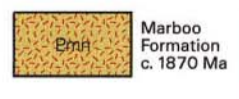


ELf	Greywacke, lithic sandstone, siltstone, mudstone; minor conglomerate, calcareous beds	NEOPROTEROZOIC
ELy	Quartz sandstone, lithic sandstone	
ELj	Grey-green shale and siltstone: micaceous, locally calcareous	
ELjs	Quartz sandstone, calcareous sandstone, siltstone	
ELd	Lithic sandstone, micaceous siltstone, shale; minor dolomitic beds	
ELb	Dolomitic mudstone and sandstone; minor limestone	
ELe	Maroon and grey siltstone, partly calcareous; minor thin beds of quartz sandstone	
ELo	Quartz sandstone; minor conglomerate	
EEo	Purple, maroon and grey siltstone, shale, mudstone and greywacke	
EEj	Lithic sandstone, greywacke	
EEr	Sandstone, conglomerate	MESOPROTEROZOIC
EErn	Tillite, commonly capped by thinly bedded to laminated dolomite; minor finely laminated mudstone (varves?)	
EPI	Lithic sandstone; minor siltstone and dolomite	
EPE	Dolomitic mudstone, siltstone and sandstone; minor dolomitic breccia and black chert; stromatolitic	
Epk	Quartz sandstone; minor conglomerate	



EYg	Quartz sandstone	MESOPROTEROZOIC
EK	Sandstone, siltstone; commonly highly strained	
EKc	Epidotic and chloritic amygdaloidal basalt; minor lithic sandstone and siltstone, dolerite (sills)	
EKcs	Lithic sandstone; minor basalt	
EKI	Quartz sandstone, lithic sandstone; minor conglomerate	
EI	Lithic sandstone, mudstone; minor conglomerate	
EIa2	Mudstone, lithic quartz sandstone	
EIs2	Lithic sandstone, granule to pebble conglomerate	
EIa1	Mudstone, lithic sandstone	
EIs1	Lithic sandstone, granule to pebble conglomerate; minor mudstone and cobble conglomerate at base	
Eo	Undivided gabbroic rocks	PALAEOPROTEROZOIC
Eg	Undivided granitic rocks	
EgSb	Porphyritic and non-porphyritic biotite monzogranite and syenogranite; minor granodiorite, tonalite and leucogranite; metasedimentary xenoliths and mafic enclaves common	
EgSbc	Gabbro, quartz gabbro, dolerite, leucogabbro; locally abundant granitic veins	
EgSbm	Complex mixture of gabbroic and subordinate granitic rocks	
EgSbl	Leucocratic biotite granite with high gamma-ray spectrometric signature	
EgSbr	Porphyritic biotite granite with high gamma-ray spectrometric signature	
EgSbr	Complex mixture of granitic, gabbroic, and hornfelsic (Koongie Park Formation) rocks	
EgSbf	Complex mixture of granitic and subordinate gabbroic rocks +/- minor metasedimentary hornfels (Koongie Park Formation)	
EgSl	Weakly porphyritic biotite monzogranite and syenogranite	
Eara	Leucogabbro, gabbro; minor anorthosite	
Eeh	Metasedimentary and minor metavolcanic hornfels, locally migmatitic	PALAEOPROTEROZOIC
Ee	Undivided metamorphosed (low to high-grade) sedimentary and volcanic rocks, including turbidites, calcareous rocks and chert; commonly schistose	
Eek	Metamorphosed calcareous sedimentary rocks, including marble and calc-silicates; minor chert	
Eec	Metamorphosed chert, banded and locally, iron-rich	
Eeb	Metamorphosed basaltic volcanic and volcanoclastic rocks	
Eef	Metamorphosed felsic volcanic, subvolcanic and volcanoclastic rocks	
Eeo	Metamorphosed shale, impure calcareous rocks, chert and ironstone	
Edw	Metadolerite, amphibolite	
EHo	Metamorphosed (low to medium-grade) turbiditic mudstone, siltstone, greywacke, quartz wacke, and arkose; generally schistose	
EHom	Metamorphosed (low to medium-grade) turbiditic mudstone, siltstone and greywacke, with many beds containing abundant secondary magnetite	
EHoq	Metamorphosed turbiditic quartz sandstone and minor mudstone, siltstone and greywacke	
EHob	Metamorphosed andesitic and trachytic volcanic, subvolcanic and volcanoclastic rocks; commonly abundant secondary carbonate; minor chert	
EHobv	Metamorphosed dome-forming trachytic volcanic and subvolcanic rocks	
EHow	Metamorphosed mafic to felsic trachytic volcanic and volcanoclastic rocks; abundant secondary carbonate; minor interlayered turbiditic mudstone and greywacke	
EHowv	Metamorphosed dome-forming trachytic volcanic rocks	
Emin	Schist containing quartz, muscovite, biotite, andalusite, and altered cordierite	PALAEOPROTEROZOIC
EHR	Metamorphosed (low to medium-grade) sedimentary rocks (commonly calcareous), basalt; minor metamorphosed felsic volcanic rocks and thin metadolerite sills; generally schistose	
EHRb	Metamorphosed basaltic volcanic and volcanoclastic rocks; minor pelitic interbeds, carbonate and chert lenses, thin metadolerite sills	
EHRs	Metamorphosed interbedded sandstone, siltstone and shale, calcareous in places; schistose	
EHRc	Metamorphosed calcareous rocks, commonly schistose or mylonitic	
EHRi	Metamorphosed thinly interbedded basaltic volcanic and volcanoclastic rocks, pelitic schist; minor carbonate lenses and thin metadolerite sills	
EHRf	Metamorphosed felsic volcanic and volcanoclastic rocks	
EHRt	Metamorphosed carbonaceous siltstone and sandstone, partly pyritic; phyllitic to schistose	
EHS	Metamorphosed (low to medium-grade) quartz sandstone, lithic sandstone and minor conglomerate, greywacke and siltstone	
Ez	Metamorphosed (low to medium-grade) calcareous and noncalcareous sedimentary rocks	
Ezs	Metamorphosed greywacke, siltstone and sandstone; minor calcareous rocks and chert	
Ezt	Metamorphosed lithic, feldspathic and quartz sandstone, greywacke, siltstone and mudstone; minor calcareous bands, chert and metabasalt	
Ezc	Pure and impure marble; minor chert	
Ev	Metamorphosed (low to medium-grade) amygdaloidal basalt, commonly epidotic; minor metamorphosed rhyolite, metasedimentary rocks and metadolerite	PALAEOPROTEROZOIC
Evf	Metamorphosed rhyolite; minor interlayered metamorphosed basalt, metasedimentary rocks and metadolerite sills	
Evg	Leucocratic porphyritic granophyre and subordinate leucogranite, massive to schistose; minor amphibolite and biotite schist	
Ab	Metamorphosed (high-grade) arkose, minor siltstone and calc-silicate rocks	ARCHAEAN

MAIN FOLDING EVENT OF HOOPER OROGENY c. 1865 Ma



Edw	Woodward Dolerite	> 1880 - 1847 Ma
EHoq	Olympio Formation	c. 1848 Ma
EHow	Butchers Gully Member	c. 1857 Ma
EHowv	Maude Headley Member	
EHRs	Biscay Formation	c. 1880 Ma
EHRb	Saunders Creek Formation	
Ez	Milba Formation	
Ez	Ding Dong Downs Volcanics	c. 1910 Ma
Evg	Sophie Downs Granophyre Member	
Ev	Browns Range Metamorphics	c. 2500 Ma