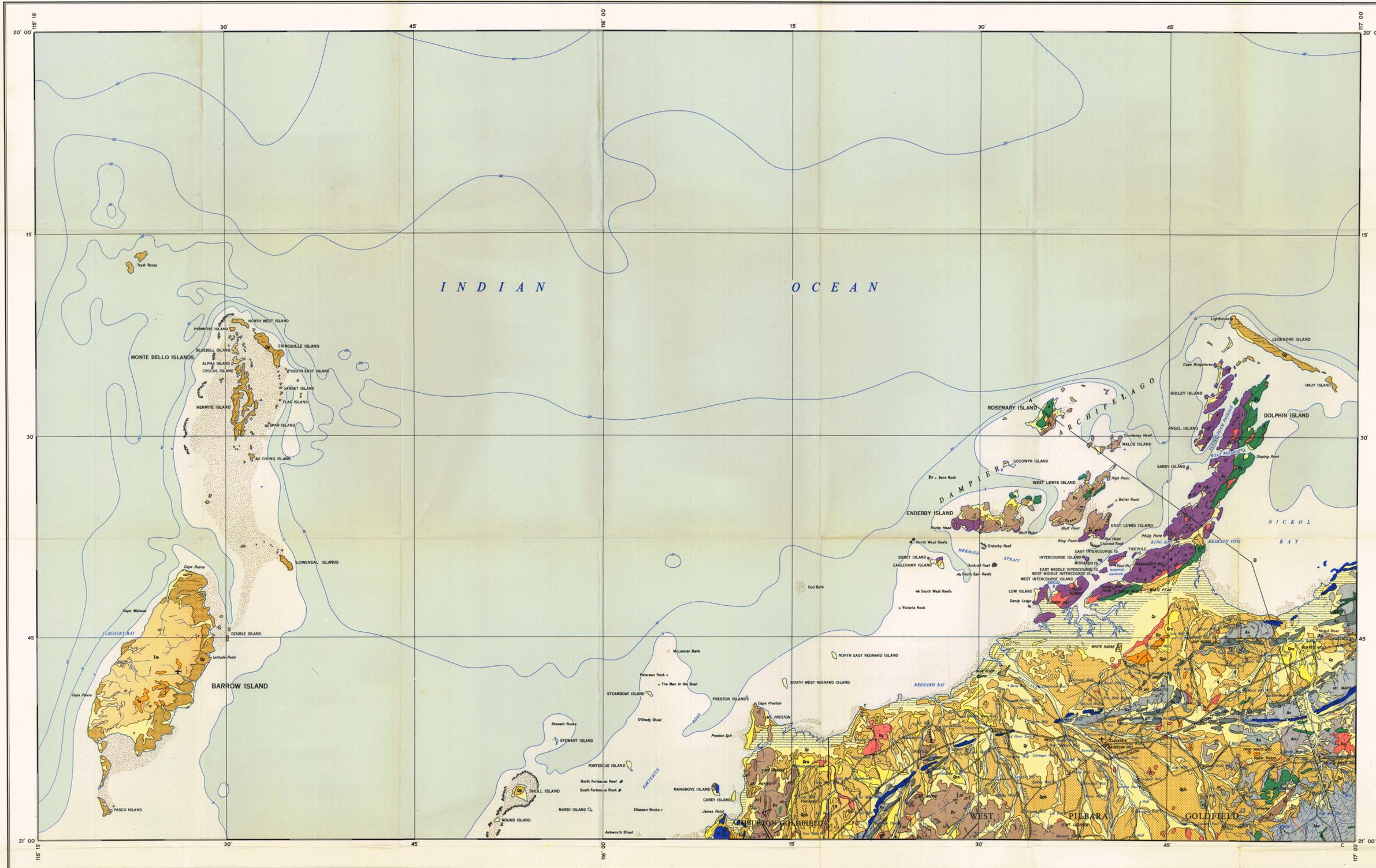


DAMPIER AND BARROW ISLAND

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

AUSTRALIA 1 : 250,000 GEOLOGICAL SERIES

SHEET SF 50-2 AND PART OF SHEET SF 50-1



REFERENCE

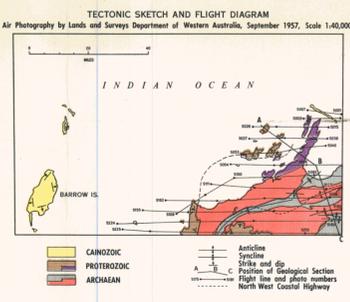
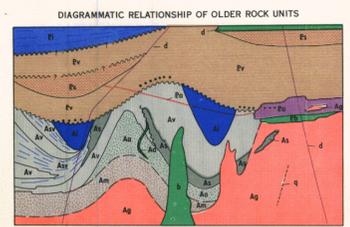
RECENT	Gr	Alluvium and coastal deposits of hills, dune deposits, downwash and sheet-flood deposits, beach and oceanic sands. Dissected deposits; dune sand; downwash gravels; silt along old drainage lines containing <i>Acrida</i> sp.
QUATERNARY	Qp1	Gravel or sand, fossiliferous gravels and oolitic sands, probably contains products of desiccation of underlying units.
	Qp2	Dune limestone, lime-cemented dune sand. Correlated with COASTAL LIMESTONE.
PLISTOCENE	Qp	Coloraceous conglomerate, lime-cemented beach conglomerate. Correlated with COASTAL LIMESTONE.
	Qp	Kinked, coloraceous sheet-deposit and local accumulations over bedrock. Clay-red and mottled clay with some loam and sheet sunkur. Forms high level plain.
	T	Laterite, ferruginous bedrock and valley-fill (with replaced wood fragments). Lateritic gravels.
LOWER MIOCENE	Tm	Grey silty, siliceous cappings overlying kankarized granitic rocks.
	Tm	TRELLIA LIMESTONE, hard, poorly bedded, sandy, fossiliferous crystalline marine limestone.
UPPER EOCENE	Te	GIRALIA CALCARENITE, medium to hard, brown to yellow, ferruginous sandy fossiliferous marine limestone.
	Te	Banded iron formation, jaspilite, hematite, chert and shale with red shales and siltstone. Correlated with BROCKMAN IRON FORMATION.
PROTEROZOIC	Pt	MOUNT JOPE BASALT, massive, amygdaloidal scoriaceous and vesicular basic and intermediate lavas, locally with columnar jointing, interbedded granitic rocks and basal arkoses.
	Pt	Tuffaceous clastic rocks, coarse-grained to fine-grained red and green sandstones, siltstone and shale with a high proportion of volcanic material.
ARCHAEOZOIC	Ar	Iron formation and shale, interbedded jaspilite, chert, hematite and shaly red and purple shale and siltstone; manganese stones. Correlated with GOODE CREEK FORMATION.
	Ar	Basic volcanic rocks, tough, blue, fine-grained basic rocks, siltstone, shaly limestones; thin beds of chert, shales and siltstone with calcareous and ferruginous beds, quartz-epidiotite schist.
ARCHAEOZOIC	Ar	Volcanic and clastic rocks, recrystallized epidiotite basic volcanic rocks, with interbedded blue chert, siliceous shale and siltstone and acid volcanic rocks.
	Ar	Amphibole schist with chert, dolomite and clastic sedimentary rocks, hornblende, actinolite and muscovite quartz-mica schist, quartzite, ferruginous shale, dolomite, chert with ferruginous bands, pines, fuchsite and green (nickeliferous) dolomite beds, thin beds of blue chert. Conglomerate and coarse-grained feldspathic sandstone above local unconformity.
ARCHAEOZOIC	Ar	Amphibolites, massive and siliceous, altered dolomite, siltstone and basic volcanic rocks.
	Ar	Undifferentiated metamorphic rocks, massive, foliated and layered acid, basic and hybrid rocks associated with granite. A metamorphic, metasedimentary and intrusive complex with remnants of acid and basic igneous rocks, calcareous sedimentary rocks and amphibolites.

INTRUSIVE ROCKS

PROTEROZOIC	Pt	Dolerite dykes
ARCHAEOZOIC	Ar	Dolerite sills
ARCHAEOZOIC	Ar	Amphibole schist, acid rock with abundant quartzose xenoliths. Intrudes all Proterozoic units except dolerite dykes.
ARCHAEOZOIC	Ar	Granite, gneiss and pegmatite, coarse-grained acidic rocks ranging from strongly foliated and banded quartz-mica schist (containing, in places, remnants of basic rock, amphibolite, green chert and fuchsite schist) to massive intrusive hornblende granite and biotite granite with basic xenoliths.
ARCHAEOZOIC	Ar	Dolerite, altered, truncated at local unconformity and folded with Archaean.

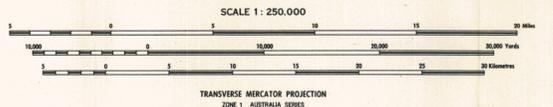
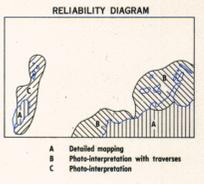
SYMBOLS

Geological boundary	Strike and dip of beds	Strike and dip of lavas
Strike and dip of sediments	Strike of vertical levels	Strike of lavas, dip unknown
Strike and dip of lavas from photo-interpretation	Strike and dip of lavas from photo-interpretation	Trend lines from photo-interpretation
Strike and dip of lavas from photo-interpretation	Joint pattern from photo-interpretation	Joint pattern from photo-interpretation
Strike and dip of foliation	Vertical foliation	Vertical foliation
Vertical foliation	Sand dunes	Sand dunes
Goldfield boundary	River or stream	River or stream
Highway	Pool	Pool
Landmark feature	Boat, well or waterhole	Boat, well or waterhole
Triangulation station, Major, Minor	Boat or well with windmill	Boat or well with windmill
High water cross	Sunk	Sunk
Fathom line	Dam	Dam
Geological section	Foreshore sand	Foreshore sand
	Landing ground	Landing ground



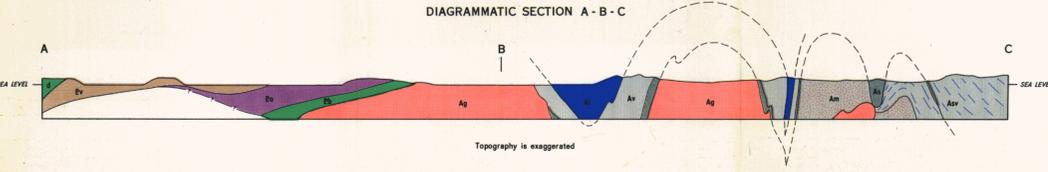
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Copies of this map may be obtained in Perth from the Geological Survey of Western Australia or the Bureau of Mineral Resources, Geology and Geophysics in Canberra, A.C.T.



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Geology by M. Kriewaldt, D. C. Horvitz, G. R. Ryan and W. M. Beck. Geology of Barrow Island by West Australian Petroleum Pty. Ltd.

TECTONIC SKETCH AND FLIGHT DIAGRAM
Air Photography by Lands and Surveys Department of Western Australia, September 1957, Scale 1:40,000

DAMPIER AND BARROW ISLAND
SHEET SF 50-2 AND PART OF SHEET SF 50-1

FIRST EDITION, 1964

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