3755

815

NOT FOR MICROFILMING

5 cm

ROCK DISTRIBUTION MAP OF TASMANIA

10 5 0 5 10 15 20 25 30 35 40 KILOMETRES

5 0 5 10 15 20 MILES

SMITHTON
WYNYARD
BURNIE
PENGUIN
ULVERSTONE
DEVONPORT
Natone
FORTH NUCLEUS
Eugenana
HOUSETOP GRANITE
DIAL RANGE TROUGH
VALENTINES PEAK
TOSSEY
MOUNT ROLAND TROUGH
LAUNCESTON
BADGER HEAD REGION
GEORGETOWN
TERTIARY
BEACONSFIELD
TAMAR TROUGH
SCOTTSDALE
BLUE TIER BATHOLITH
SCOTTSDALE BATHOLITH
Mathinna
Scamander
BEN LOMOND
Stories Creek
Rossarden
BICHENO
FREYCINET PENINSULA
MARIA ISLAND
O'CONNORS PEAK
REGION
ROCKY CAPE
Arthur River
ARTHUR LINEAMENT
HEAZLEWOOD RIVER COMPLEX
MT CLEVELAND
MT BISCHOFF
MEREDITH GRANITE
Savage River
MT DONALDSON
Pieman River
Huskisson River
Whyte River
MT LINDSAY
Renison Bell
ROSEBERY
Tullah
MT FARRELL
MT JUKES
MT HALL
MT READ
GRANITE TOR
TYENNAN NUCLEUS
HEEMSKIRK GRANITE
DUNDAS
ZEEHAN
DUNDAS TROUGH
MT TYNDALL
MT LYELL
MT OWEN
QUEENSTOWN
STRAHAN
SORELL PENINSULA
MACQUARIE HARBOUR
Birthday Bay
Birch Inlet
PT. HIBBS
Spero River
Gordon River
Franklin River
Derwent River
Adamsfield
Elliott Bay
PORT DAVEY
Huon River
HUONVILLE
CYGNET
DOVER
D'ENTRECASTEAUX CHANNEL
BRUNY ISLAND
TASMAN PENINSULA
STORM BAY
HOBART

REFERENCE

HOLOCENE – LATE CARBONIFEROUS

WESTERN TASMANIA

Unconformity attributed to Tabberabberan Orogeny.

LOWER DEVONIAN – SILURIAN / ORDOVICIAN: Eldon Group and correlates. Sandstone – mudstone sequences. Junee Group and correlates. Lower sequences of siliceous conglomerate and sandstone. (e.g. Owen Conglomerate); upper sequences of Gordon Limestone.

Unconformity in north and parts of west attributed to Cambrian movements. Conformity in other localities.

CAMBRIAN: Fossiliferous and unfossiliferous sedimentary sequences (solid black); dominantly acid – intermediate volcanic rocks (dark grey); dominantly basic – intermediate volcanic rocks (+ pattern).

Usually unconformity attributed to Penguin Orogeny

PRECAMBRIAN: Dolomite. Comparatively unmetamorphosed sandstone – mudstone sequences.

Metamorphic rocks of dominantly pelitic sequences, orthoquartzitic sequences and amphibolite.

EASTERN TASMANIA

LOWER DEVONIAN – TREMADOCIAN – CAMBRIAN: Mathinna Beds of micaceous quartzwacke turbidite sequence.

IGNEOUS ROCKS

LOWER CARBONIFEROUS – UPPER DEVONIAN: Dominantly adamellite. Dominantly granodiorite. Hypersthene adamellite porphyry

CAMBRIAN: Granite. Coarser grained basic rocks. Serpentine and associated rocks. Dominantly basic – intermediate volcanic rocks. Dominantly acid – intermediate volcanic rocks.

PRECAMBRIAN: Dolerite.

Trace of hinge–line of plunging anticline, syncline resulting from post–Penguin deformation (black on white or white on black)

NOTE : PLACE NAMES USED IN TEXT ARE SHOWN

BASED ON 1 : 250,000 GEOLOGICAL MAP SHEETS – DEPARTMENT OF MINES

E.Williams, M.Solomon and G.R.Green. In press. The Geological Setting of Metalliferous Ore Deposits in Tasmania. *In* Geology of Australian Ore Deposits. *Australas. Inst. Min. Metall.*

FIG 1. (CORRECTED)