1981/22. Distribution of major granitoid bodies in the Blue Tier Quadrangle.

M.P. McClenaghan
P.R. Williams

Abstract

Granitoid rocks in the Blue Tier 1:50 000 Quadrangle fall into fourteen distinct classes distinguishable by their physical and chemical characteristics. Map distribution patterns show the complex nature of alkali feldspar granite and adamellite relationships in the Blue Tier area and point to the multiplicity of intrusion events in the Blue Tier batholith.

INTRODUCTION

Recently completed geological mapping of the Blue Tier 1:50 000 Quadrangle has led to a revision of the method of subdivision of granitoid rocks in the Blue Tier area. These new criteria are evident from the following legend. The provisional geological map presents the rock distribution of major granitoids in the area only, and ignores several minor granite types and intrusions, the divisions of the Cainozoic deposits and the structural geology of the quadrangle. The purpose of this provisional publication is to make available the revised terminology for granitoids and the detailed rock distribution, in an area of potential economic interest.

LEGEND

Q — Quaternary and Tertiary deposits, consisting of alluvium and marsh deposits, beach sand, mobile dune sand and older alluvium. The Tertiary deposits are sand, gravel, granule conglomerate, silcrete and ferricrete.

Sdsm — Contact metamorphosed quartz-wacke and mudstone sequences. Mathinna Beds.

IGNEOUS ROCKS

Tb — Tertiary alkali-olivine basalt.

Jdl — Jurassic dolerite.

DCdl — Probably Devonian deuterically altered dolerite dykes.

Devonian Granitoid Rocks

Dbage — Fine- to medium-grained biotite and white-mica bearing alkali-feldspar granite. Equigranular varieties.

Dbagm — Fine- to medium-grained alkali-feldspar granite with large pale-brown mica aggregates. Pegmatitic patches frequent.

Dbape — Porphyritic to equigranular fine-grained greisenised adamellite with small feldspar phenocrysts (<15 mm) and larger than average quartz grains in porphyritic varieties. Muscovite dominant over biotite in equigranular varieties.

Medium- to coarse-grained biotite, minor muscovite adamellite varieties:

Dbapc with K-feldspar phenocrysts of approximately 25 mm mean size.

Dbapm with K-feldspar phenocrysts (<25 mm mean size), plagioclase phenocrysts and quartz phenocrysts in medium-grained matrix.

Dbaec Equigranular.

Fine-grained biotite-muscovite adamellite varieties:

Dbaf Equigranular.

Dbapf with small plagioclase (<15 mm) and quartz phenocrysts.

Coarse- to very coarse-grained biotite adamellite varieties:

Dbasc with very abundant K-feldspar phenocrysts (>30 mm mean size) or with seriate texture.

Dbacg containing garnet.

Granodiorite bodies.

Dbg Medium- to coarse-grained biotite hornblende granodiorite.

Dbb Medium- to coarse-grained biotite granodiorite.

Minor granitic intrusions:

Dba Aplite

Dbqfp Quartz-feldspar porphyry.

[5 May 1981]

BLUE TIER 1:50,000
(Provisional)

1:50000

SHEET 33 (8215 N)

3/3

DISTRIBUTION OF MAJOR GRANITOIDS

- Q
- Sdsm
- Tb
- Jdl
- DCdl
- Dbage / Dbagm
- Dbape
- Dbapc / Dbapm / Dbaec / Dbaf / Dbapf
- Dbasc / Dbacg
- Dbg / Dbb
- Dba / Dbqfp

Geology by
M P McClenaghan and P R Williams

for explanation see
Unpublished Report 1981/22

5 cm

TASMANIA DEPARTMENT OF MINES

CONTOUR INTERVAL 20 METRES