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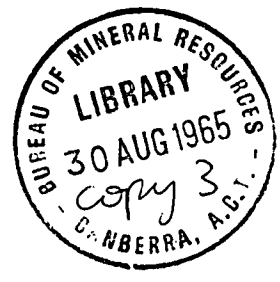
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COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT
BUREAU OF MINERAL RESOURCES
GEOLOGY AND GEOPHYSICS

RECORDS:

1965/110



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OUTCROP SAMPLES BOUGAINVILLE ISLAND T.P.N.G.

by

G.R.J. Terpstra

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SUMMARY

Lower Miocene and Middle to Lower Miocene faunas have been observed in samples from outcropping limestone at Bougainville Island.

INTRODUCTION

Sixteen samples collected by Mr J.E. Speight (C.S.I.R.O.) from outcrops at Bougainville Island have been examined by the Bureau of Mineral Resources for microfossils.

Details of the results of the examination are given below.

Observations

No. 104-1 Coral limestone

The sample contains Algae, Echinoid spines, Coral fragments, and Quinqueloculina sp. The age of the sample is inconclusive.

No. 107-1 Coral limestone

The sample contains fragments of Coral, Molluscs, and Operculina sp. The age of the sample is inconclusive.

No. 155-1 Algal limestone

Lepidocyclina (Nephrolepidina) sp.; Miogypsina sp.; Sorites sp.; Operculina sp.; Amphistegina sp.; Quinqueloculina sp.; Dentalina sp.; Globigerina sp. and Algae. The age of the sample is Lower-Middle Miocene.

No. 156-1 limestone

The sample contains Borelis sp., Quinqueloculina sp. Globigerina sp. Linderina sp. Operculina sp. and Algae. The age of it is Lower-Middle Miocene.

No. 156-2

This sample has been examined petrologically and appears to be an andesite. Some 20% of the minerals have been altered into calcite and chloride.

No. 156-3 limestone. The sample contains Austrotrillina sp. Borelis sp. Lepidocyclina sp., Quinqueloculina sp. Sorites sp., Echinoid spines and Coral. Its age is Lower-Middle Miocene.

No. 156-4

This sample has been examined petrologically and appears to be an andesite. Considerable alteration of minerals into calcite and chlorite has taken place.

No. 195-1 limestone

The sample contains Lepidocyclina (Eulepidina) sp.; Spiroclypeus sp.
Lepidocyclina (Nephrolepidina) sp. Miogypsinoides sp., Algae and
 Coral. Its age is Lower Miocene.

No. 195-2 limestone

The sample contains Miogypsinoides sp., Heterostegina sp.
Lepidocyclina (Nephrolepidina) sp. Algae and Coral. Its age is
 Lower Miocene.

No. 196-1 limestone

The sample contains Lepidocyclina (Nephrolepidina) sp. Textularia sp.
 Algae and Coral. Its age is Lower-Middle Miocene.

No. 196-2 limestone

The sample contains Lepidocyclina (Nephrolepidina) sp., Algae and
 Coral. The age is Lower-Middle Miocene.

No. 196-3 limestone

The sample contains Lepidocyclina (Nephrolepidina) sp., and Coral.
 Its age is Lower-Middle Miocene.

No. 297-1-4 calcareous sandstone. Unfossiliferous.

