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### III Preliminary Report of Geology of the Yamato Mountains

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### III やまと山脈地質調査報告 (予報)

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#### 要 旨

やまと山脈は、A~G (仮称) の7つの山塊よりなり、一種の弧状構造を示している。これらの山塊は、片麻岩類、深成岩類、変基性岩及びペグ

マタイトによって構成されるが、今回の調査旅行で採集された資料の整理分析によつて、将来より詳しい結果が明らかにされるであろう。

The Yamato Mountains is mainly composed of seven massifs which we have temporarily named Mt. A, B, C, D, E, F and G from south to north. These massifs, showing a kind of mountain arc, consist of various gneisses, plutonics, metabasite and pegmatite which are involved in a plutonic complex. These metamorphics and plutonics have a somewhat strong foliation which strikes N. 0-20 E. and dips about 20-50 degrees to east. It is especially interesting that a few low angle thrust faults which worked from east to west were found at massif D.

The rock species of each massif are as follows:

- Mt. A charnockitic gneiss, diorite, biotite diorite
- „ B metabasite, augengneiss (partially rapakivi), granite-gneiss, granite, pegmatite
- „ C plagioclase porphyritic diorite, granite, pegmatite
- „ D metabasite, biotite-quartz diorite, granite-gneiss, pegmatite
- „ E, F granite-gneiss
- „ G injection gneiss

Further laboratory investigations on the samples collected during this journey will be carried on.

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