

# Geologic Development of the Outer kitakami Belt

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# 1988 Fiscal Year Final Research Report Summary

## Geologic Development of the Outer kitakami Belt

Research Project

### Project/Area Number

62540580

### Research Category

Grant-in-Aid for General Scientific Research (C)

### Allocation Type

Single-year Grants

### Research Field

地質学一般

### Research Institution

Kanazawa University

### Principal Investigator

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### Project Period (FY)

1987 - 1988

### Keywords

Geologic Development of the Outer Kitakami Belt / Iwaizumi belt / 田老帯

### Research Abstract

The studies on the geologic development of the Pre-Miyakoan (Lower Cretaceous) Mesozoic to Paleozoic formations distributed in the "Outer Kitakami Belt," northeastern margin of the Kitakami Massif, Northeast Japan were made with special reference to the relationship between chert/limestone - green rocks and clastic sediments. The results are summarized as follows:

1. Detailed geological maps and geological sections of the western half ( Lwaizumi belt ) and the eastern half ( Taro belt ) of the Outer Kitakami Belt were investigated and the rock-stratigraphy, geologic structure and geologic age were interpreted. The Outer Kitakami Belt is characterized by the irregular mixture of exotic blocks of ocean-derived chert, limestone and green rocks of Permian to Triassic? age and land-derived clastic sediments of Jurassic? age. The same features were observed in the northern extension (Shiriyazaki district) of the Outer Kitakami Belt.
2. Nappe structures of limestone/chert of the Akka Formation ( Triassic ) were recognized in the southern margin of the western half ( Lwaizumi belt ) in large scale suggesting, tectonically, the complex rock-bodies of green rocks - limestone/chert ( Sawayamagawa Formation - Akka Formation) were exotic blocks or sheets.
3. Some features of "melange" were recognized in the strata of the Takayashiki Formation ( Jurassic?) in the western half ( Lwaizumi belt)). So these strata are presumably emplaced in a trench, where land-derived clastic sediments and ocean-derived chert and limestone which covers the seamount constituents can encountered and mixed together.
4. The location and mode of occurrences of the Taro fault-line which divides the Outer Kitakami Belt into the Lwaizumi and Taro belts were traced in detail.

5. A synthetic interpretation was made on the geologic development of the Outer Kitakami Belt, on the basis of the results above-mentioned and other works adopting the "accretion tectonics", instead of the previous "geosynclinal-orogenic theory".▲ Less

## Research Products (4 results)

All Other

All Publications (4 results)

[Publications] 杉本幹博: 金沢大学教育学部紀要(自然科学編). 39号. (1990)



[Publications] 杉本幹博: 金沢大学教育学部紀要(自然科学編). 40号. (1991)



[Publications] SUGIMOTO, Mikihiro: "Geologic Structure of the Southern margin of the Akka Limestone, Northern Kitakami Massif, Northeast Japan." Bull. Fac. Education ( Natural Science ), Kanazawa Univ.No.39. (1990)



[Publications] SUGIMOTO, Mikihiro: "Mode of Occurrence of the Northern part of the Taro Fault, Northern Kitakami Massif, Northeast Japan." Bull. Fac. Education ( Natural Science ), Kanazawa Univ.No.40. (1991)



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