

## INTRODUCTION TO THE GEOLOGICAL CHARACTERISTICS OF THE MAIN ISLANDS ALONG THE COAST OF SHANDONG PROVINCE

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### Abstract

The coastal zone of Shandong includes the Haizhou Bay, Jiaozhou Bay, Shidao Bay, Zhifu Bay and Laizhou Bay, with a total length of 1957.8 km. About 40 islands outcrop near the coastal zone. The main islands include Cheniushan Island, Zhaitan Island, Sushan Island, Hailu Island, Kongtang Island, Miao Island and Sang Island. The geological structures in these islands are complex and varied and intimately associated with the geological characteristics of the land. This paper provides relatively comprehensive geological information for the geological surveys of this region.

## 直管局组织全国区域地质志总结

### ——《中国区域地质概论》和《中国地质图》(1:500万)》

#### 编辑工作座谈会在京召开

为进一步提高我国区域地质研究程度,满足国民经济各部门、科研教学、国防建设的需要,促进国际交流,扩大我国地质界的影响,地矿部直管局于今年3月29日至4月1日在京召开《中国区域地质概论》和《中国地质图(1:500万)》编辑工作的座谈会。部分省局总工、副总工、技术顾问及各省区调队、地质队、水文公司、科研所的代表共48人出席会议,就其编辑工作的意义、任务要求、组织领导、时间安排等有关问题作了充分讨论。地质出版社表示大力支持,密切配合。

全面系统的反映我国区域地质特征的专著,最早是李四光教授1937年编著的《中国地质》,后来,程裕琪、王鸿桢、杨遵义三位教授于1984年也编著了《中国地质》。前者反映三十年代我国地质研究水平,后者主要反映七十年代的地质研究水平。进入八十年代后期的今天,地质科学发展迅速,我国1:100万区调已基本完成,1:20万区调已完成国土面积的68%,1:5万区调正广泛深入地开展,全国分省(区、市)地质志即将全面完成。会议认为,从理性的高度进行全国性总结,反映我国八十年代地质科学调查研究的水平,编制公开出版的《中国区域地质概论》和《中国地质图(1:500万)》,是完全必要的,这也是广大区调工作者三十多年来的愿望。

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Wulashan Group rocks in the northern part of the North China platform to discuss the process of transposition and its implication for regional deformation. Detailed structural mapping and special structural study of selected areas suggest that that transposition is a complex chemical and mechanical process and a combined effect of such processes as compressive strain or strong flattening, heterogeneous simple shear (flow) and metamorphic differentiation. As a result, a strongly transposed sequence and layering (i. e. pseudo-stratigraphic sequence in the metamorphic complexes are produced, which contains continuously intraformational disrupted and rotated segments. Thus in these areas, what are seen in plan and on steep mountain slopes are not a stratigraphic succession, but a tectonic pile or stack. The bedding information collected from small outcrops tells nothing of the gross distribution of stratigraphic horizons, direction of younging and stratigraphic thickness on a regional scale. To obtain this information it is necessary to make an integrated analysis of the data of the of the regional structures and carry out detailed mapping.

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会议一致推举部科技委副主任程裕琪教授为主编, 部分省局总工、副总工、技术顾问及部分从事区调工作多年的中年专家组成编委会, 在直管局领导下, 开展此项工作。会议决定, 1989 年底完成《中国地质图(1:500万)》的编制, 1990年底公开出版; 1990年底完成《中国区域地质概论》的编著, 1991年底公开出版。这项工作正逐步按计划实施。

(直管局地调处供稿)