

GEOLOGY REVIEWS

Series Editors: **B.S. Sokolov**, Institute of Paleontology and **M.A. Semikhatov**, Institute of Geology, USSR Academy of Sciences, Moscow

Geology Reviews includes contributions on Precambrian and Cambrian geology and paleontology, paleoecology, the evolution of the biosphere, the geological history of the earth's climate and the geochemistry of sedimentary processes. Some of the reviews will be prepared specially for the series, while others will be adapted from published Russian-language material.

Volume 1 Part 1 GENERAL PROBLEMS OF PROTEROZOIC STRATIGRAPHY IN THE USSR

By **Mikhail A. Semikhatov**, Institute of Geology, USSR Academy of Sciences, Moscow

"The work is authoritative. No one could have treated this material better ... embodies Soviet geological thinking at its recent best."

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Providing a comprehensive overview of recent Soviet work in this field, the author describes the chronostratigraphic concept of the Precambrian and details the official stratigraphic scale of the Proterozoic in the USSR. The methods applied to substantiate its boundaries are discussed and special attention is directed to the use of biostratigraphic methods in the stratigraphy of the Proterozoic.

A comprehensive summary is given of the distribution of stromatolites and organic-walled and silicified microfossils in key regions of northern Eurasia and elsewhere. Also covered is the biostratigraphic potential of these groups in various areas of the Proterozoic.

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Section I : General Concepts of the Subdivision of the USSR Precambrian and its Scales

From Lithostratigraphy to Chronostratigraphy in the USSR Proterozoic: The First Steps • Chronostratigraphy Versus Chronometry • The Present Stratigraphic Scale of the USSR Precambrian • The Geochronometric Provision of the USSR Proterozoic Stratigraphic Scale • Current Views on Improving the USSR Precambrian Stratigraphic Scale

Section II : The Biostratigraphic Method as Applied to the USSR Proterozoic

Stromatolites: Classification and Stratigraphic Importance • Microfossils as Applied to the Subdivision and Correlation of the USSR Proterozoic: Organic-Walled and Silicified Microfossils

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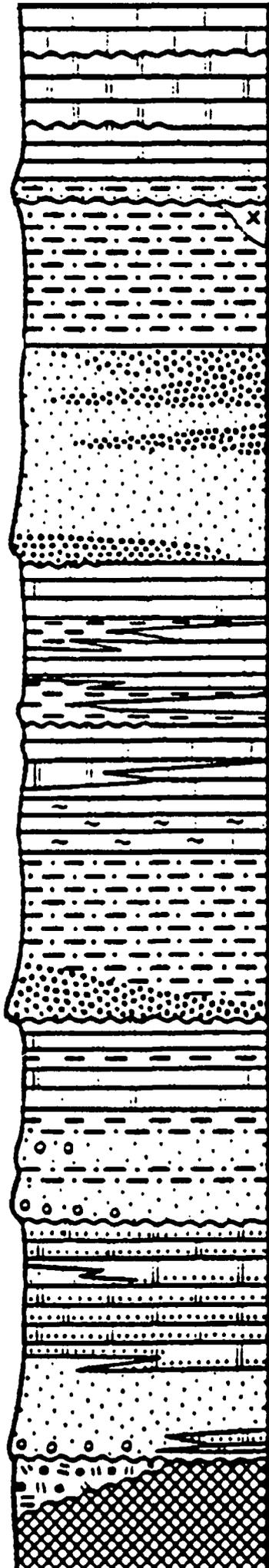
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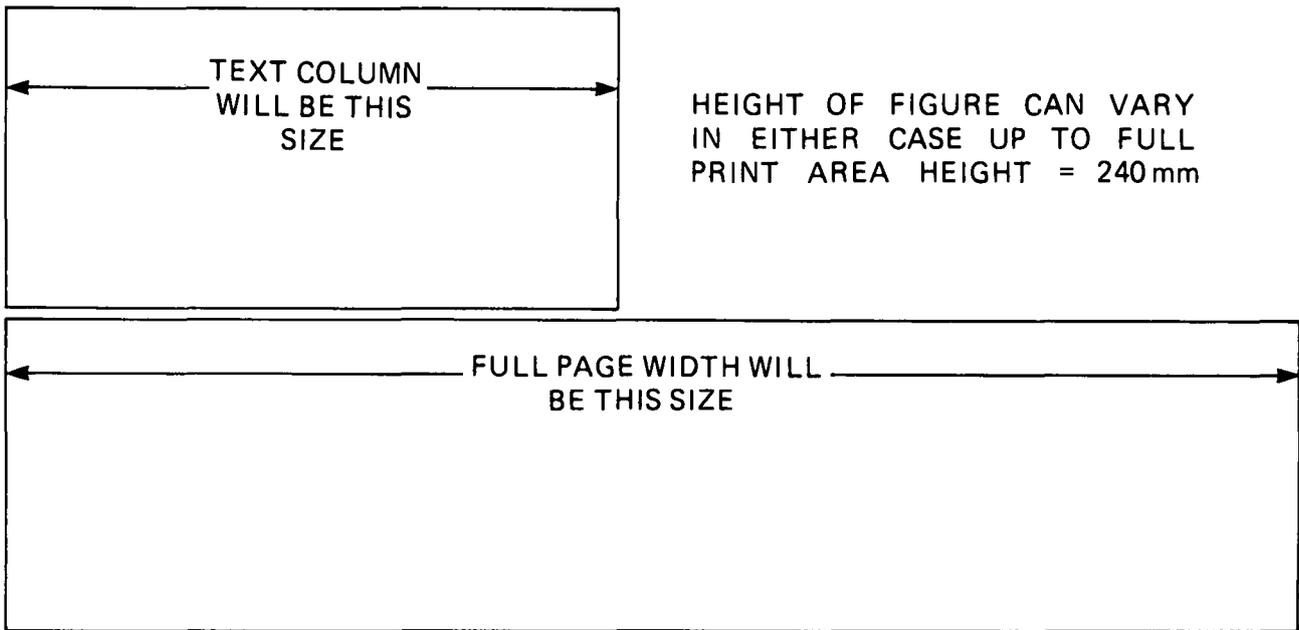


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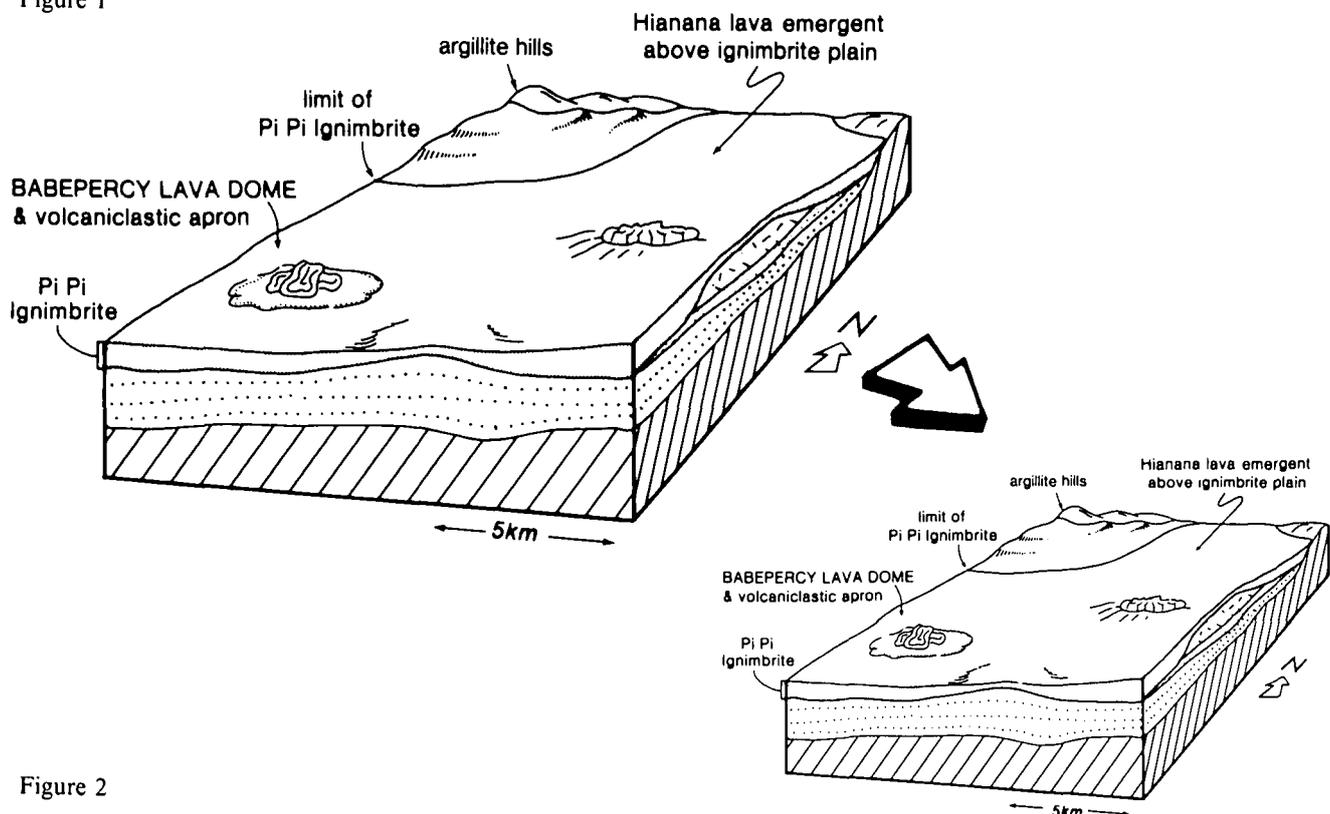


Figure 2

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