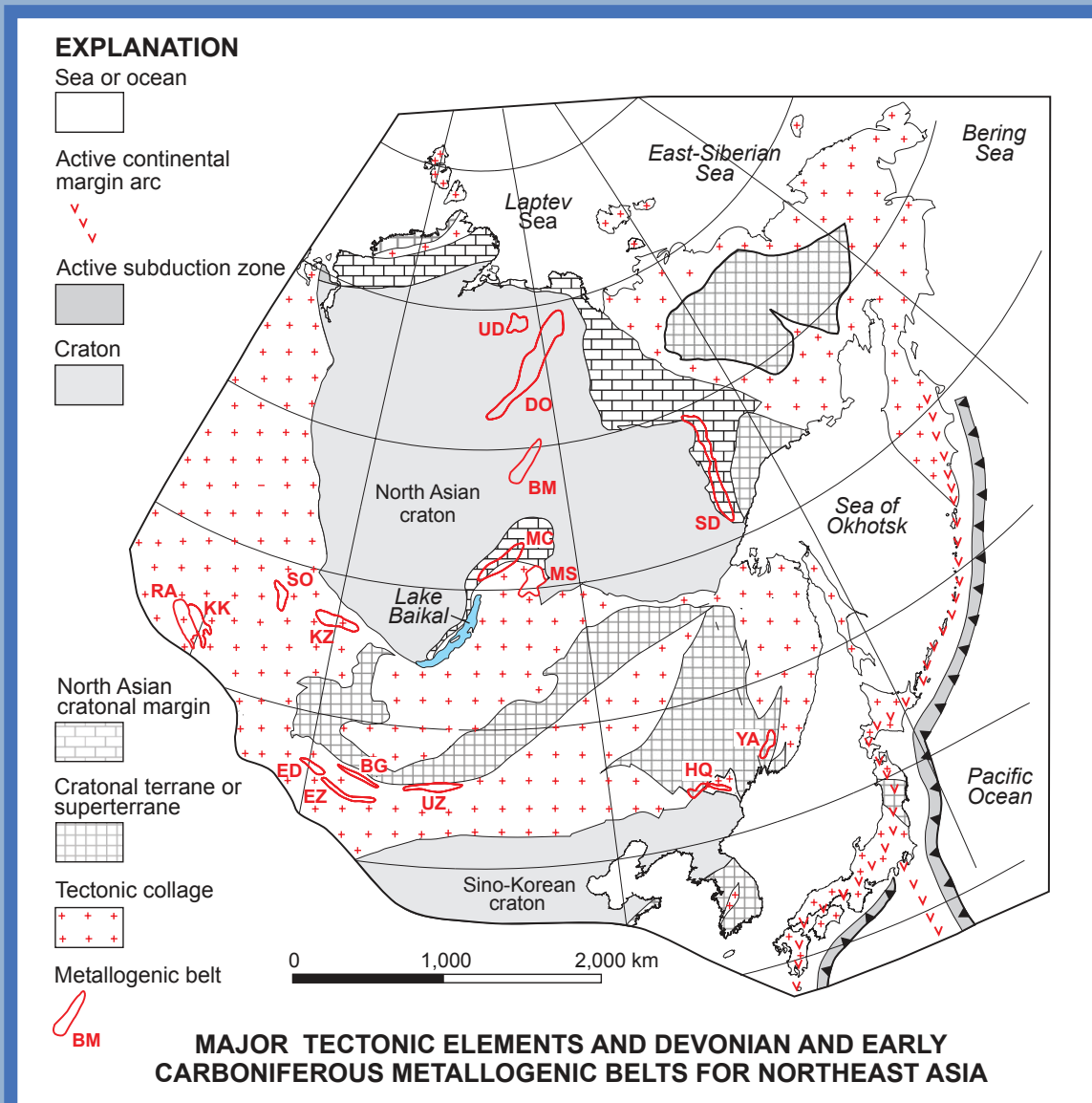


Prepared in collaboration with the Russian Academy of Sciences, Mongolian Academy of Sciences, Korean Institute of Geosciences and Mineral Resources, Geological Survey of Japan/AIST, and Jilin University

Metallogenesis and Tectonics of Northeast Asia



Professional Paper 1765

COVER:

Major present-day tectonic elements and Devonian and Early Carboniferous metallogenic belts for Northeast Asia. The major tectonic elements are (1) the North Asian and Sino-Korean cratons; (2) cratonal margin units overlapping the cratons; (3) a suite of cratonal terranes or superterranes derived from the North Asian and Sino-Korean cratons or from other cratons; (4) a tectonic collage of accreted cratonal, craton margin, island arc, and subduction zone terranes; (5) the active Izu-Bonin, Japan, and Kuril-Kamchatka continental margin volcanic arcs; and (6) two major and active subduction zones that occur outboard of the arcs and into which the Pacific Ocean plate is being thrust under the continental margin. The major metallogenic belts for the Devonian and Early Carboniferous formed in a variety of tectonic environments, including island arc volcanism, transpressive continental-margin arc volcanism, terrane accretion, transpressional faulting, rifting, and kimberlite pipe intrusion. Refer to chapter 6 for detailed information on Devonian and Early Carboniferous regional geology, metallogenic belts, and tectonics.

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Edited by Warren J. Nokleberg

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