U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COLLABORATION WITH
RUSSIAN ACADEMY OF SCIENCES
MONGOLIAN ACADEMY OF SCIENCES
JILIN UNIVERSITY
KOREAN INSTITUTE OF GEOSCIENCE AND MINERALS
GEOLOGICAL SURVEY OF JAPAN/AIST

OPEN-FILE REPORT 03-204
SHEET 2 OF 4

REFER TO EXPLANATORY PAMPHLETS FOR SUMMARY TABLES OF LODE DEPOSITS, PLACER DISTRICTS, AND METALLOGENIC BELTS.
REFER TO SHEET 1 FOR LIST OF MAP UNITS.

CONTACTS, FAULTS, AND SYMBOLS

Sedimentary contact bordering overlap assemblage

All contacts between terranes are faults

Active subduction zone

Post-Accretion Faults

Thrust

Normal fault

Rift

Symbols

Astrobleme

Major icefield

Lake

ED — Metallogenic belt

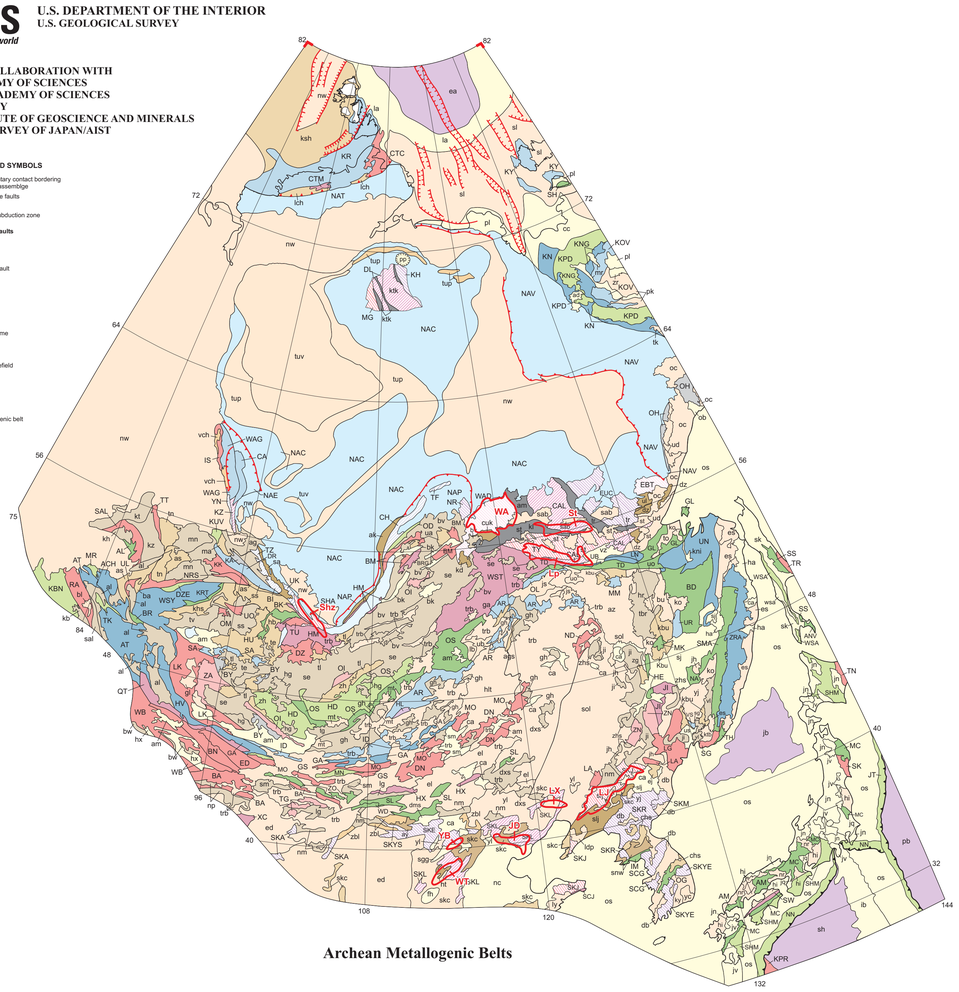
EXPLANATION

TERRANES IN LATE PRECAMBRIAN AND PHANEROZOIC OROGENIC BELTS

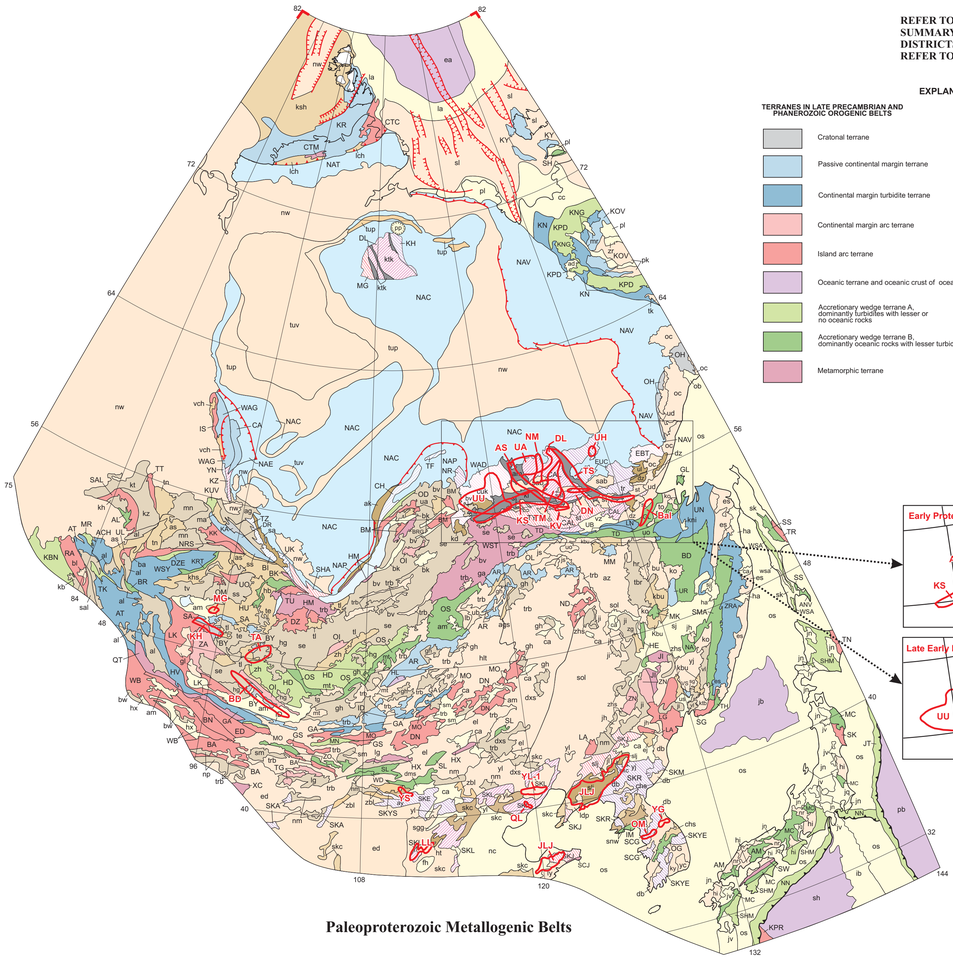
- Cratonal terrane
- Passive continental margin terrane
- Continental margin turbidite terrane
- Continental margin arc terrane
- Island arc terrane
- Oceanic terrane and oceanic crust of oceans
- Accretionary wedge terrane A, dominantly turbidites with lesser or no oceanic rocks
- Accretionary wedge terrane B, dominantly oceanic rocks with lesser turbidites
- Metamorphic terrane

TERRANES IN EARLY PRECAMBRIAN CRYSTALLINE BASEMENT OF CRATONS AND CRATONS WITH MIOGEOCLINAL OVERLAP

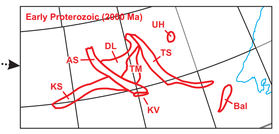
- Granite-greenstone terrane
- Tonalite-trondhjemite-gneiss terrane
- Granulite-orthogneiss terrane
- Granulite-paragneiss terrane
- Paragneiss terrane
- Greenschist terrane
- Craton with miogeoclinal overlap and craton margin
- Major melange zone

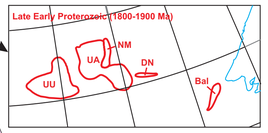


Archean Metallogenic Belts



Paleoproterozoic Metallogenic Belts

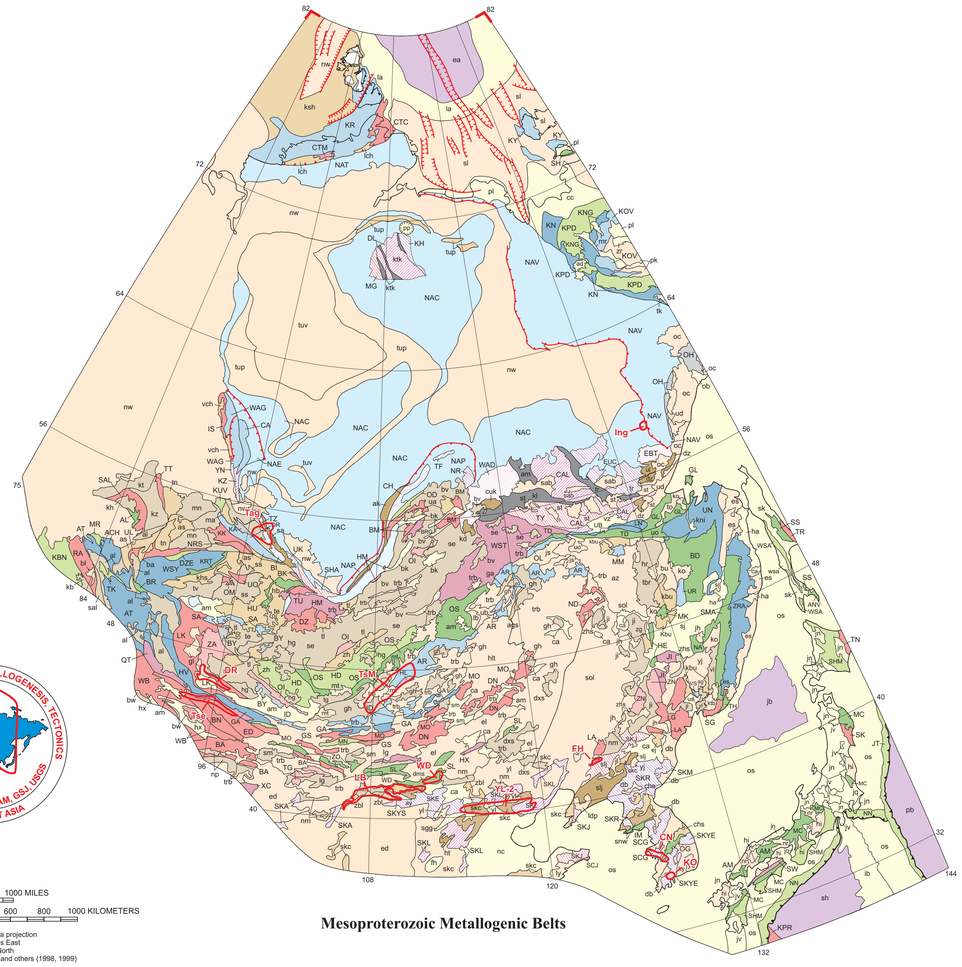




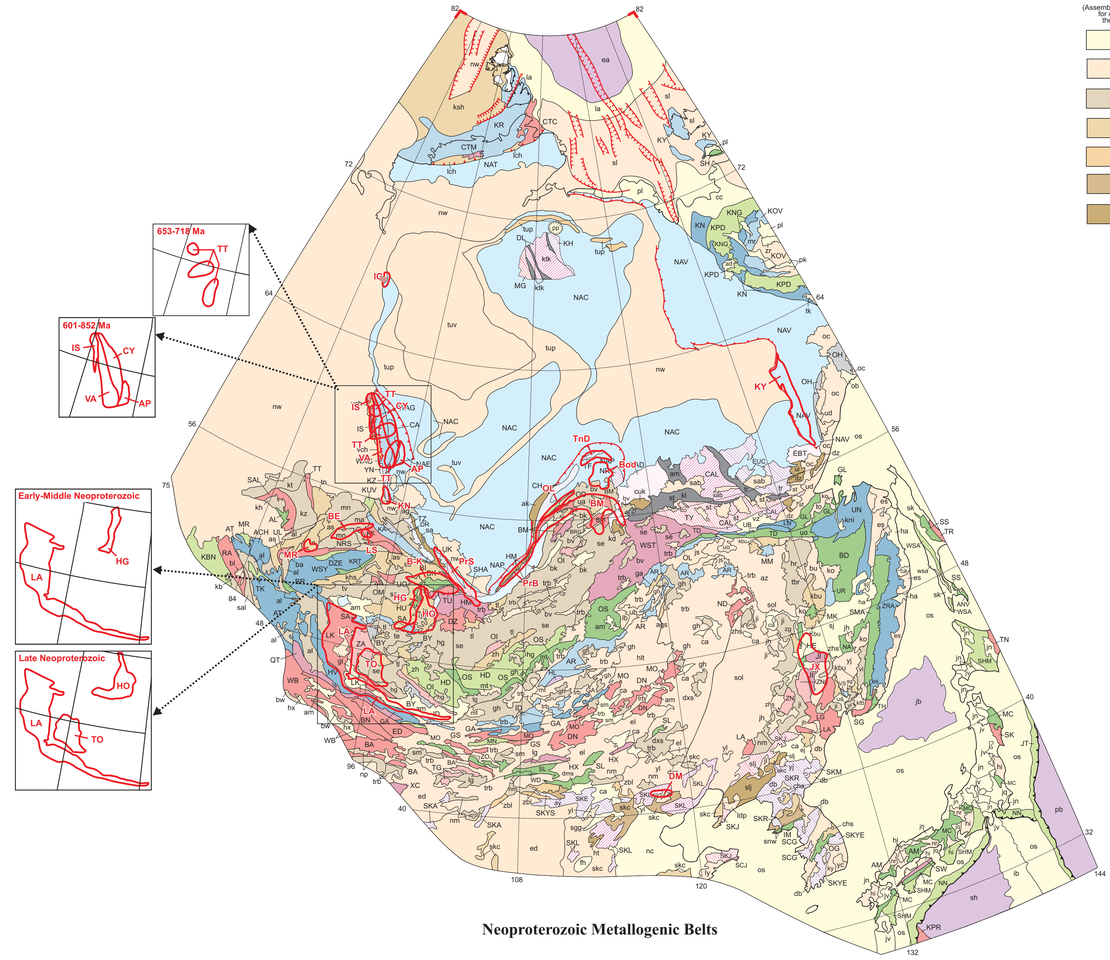
OVERLAP AND STITCH ASSEMBLAGES

(Assemblages shown by lighter hues according to age; for overlap assemblages with long age span, the color of the oldest major unit is shown.

- Cenozoic
- Mesozoic (Triassic, Jurassic, and Cretaceous)
- Middle and Late Paleozoic (Devonian through Permian)
- Late Neoproterozoic and Early Paleozoic (Vendian through Silurian)
- Neoproterozoic through Riphean
- Mesoproterozoic
- Paleoproterozoic



Mesoproterozoic Metallogenic Belts



Neoproterozoic Metallogenic Belts

SCALE : 1:15,000,000

0 500 1000 MILES

0 200 400 600 800 1000 KILOMETERS

Lambert Azimuthal equal-area projection
Central longitude 110 degrees East
Central latitude 60 degrees North
Geographic base from Miller and others (1998, 1999)

PRELIMINARY METALLOGENIC BELT AND MINERAL DEPOSIT MAPS FOR NORTHEAST ASIA: SHEET 2 - ARCHEAN THROUGH NEOPROTEROZOIC METALLOGENIC BELTS

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Geologic base map is generalized version of Northeast Asia Geodynamics Map (Parfenov, and others, 2003).

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