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COLORS, PATTERNS, SYMBOLS, FAULTS, AND CONTACTS

TERRANES IN LATE PRECAMBRIAN AND PLANEPROZOIC OROGENIC BELTS

- Cratonal terrane
- Passive continental margin terrane
- Continental margin turbidite terrane
- Continental margin arc terrane
- Island arc terrane
- Oceanic terrane, oceanic crust, and seamount
- 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 BASIN OF CRATONS, CRATONS WITH MIOGEOCLINAL OVERLAP, AND MAJOR MELANGE ZONES

- Granite-gneiss terrane
- Tonalite-trondhjemite-gabbro terrane
- Granulite-orthogneiss terrane
- Granulite-paragneiss terrane
- Plagiogneiss terrane
- Greenschist terrane
- Craton with miogeoclinal overlap and craton margin
- Major melange zone with minimum width of several kilometers

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

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

CONTACTS, FAULTS, AND SYMBOLS

Patterns for tectonic (geodynamic) environments of overlap and stitch assemblages (not-to-scale symbols)

Active continental margin and island arc (modern and ancient) and related assemblages

Volcanic-plutonic belts

- Calc-alkaline granite
- Alkaline and subalkaline granite

Orogenic belt assemblages

- Calc-alkaline and plumbic granite
- Alkaline and subalkaline granite
- REE and plumbic granite

Magmatic formations

- Volcano
- Ultramafic alkaline rock and carbonate
- Alkaline gabbro and syenite
- Alkaline and subalkaline granite
- Calc-alkaline granite
- REE and plumbic granite

Mafic dike

Kimberlite pipe

Metamorphic core complex (Cordillera type)

Blueschist

Eudolite

Transform-plate boundary-related assemblages

- Alkaline and subalkaline granite
- Alkaline mafic and granitic rock
- Calc-alkaline and plumbic granite

Terrane-bounding faults

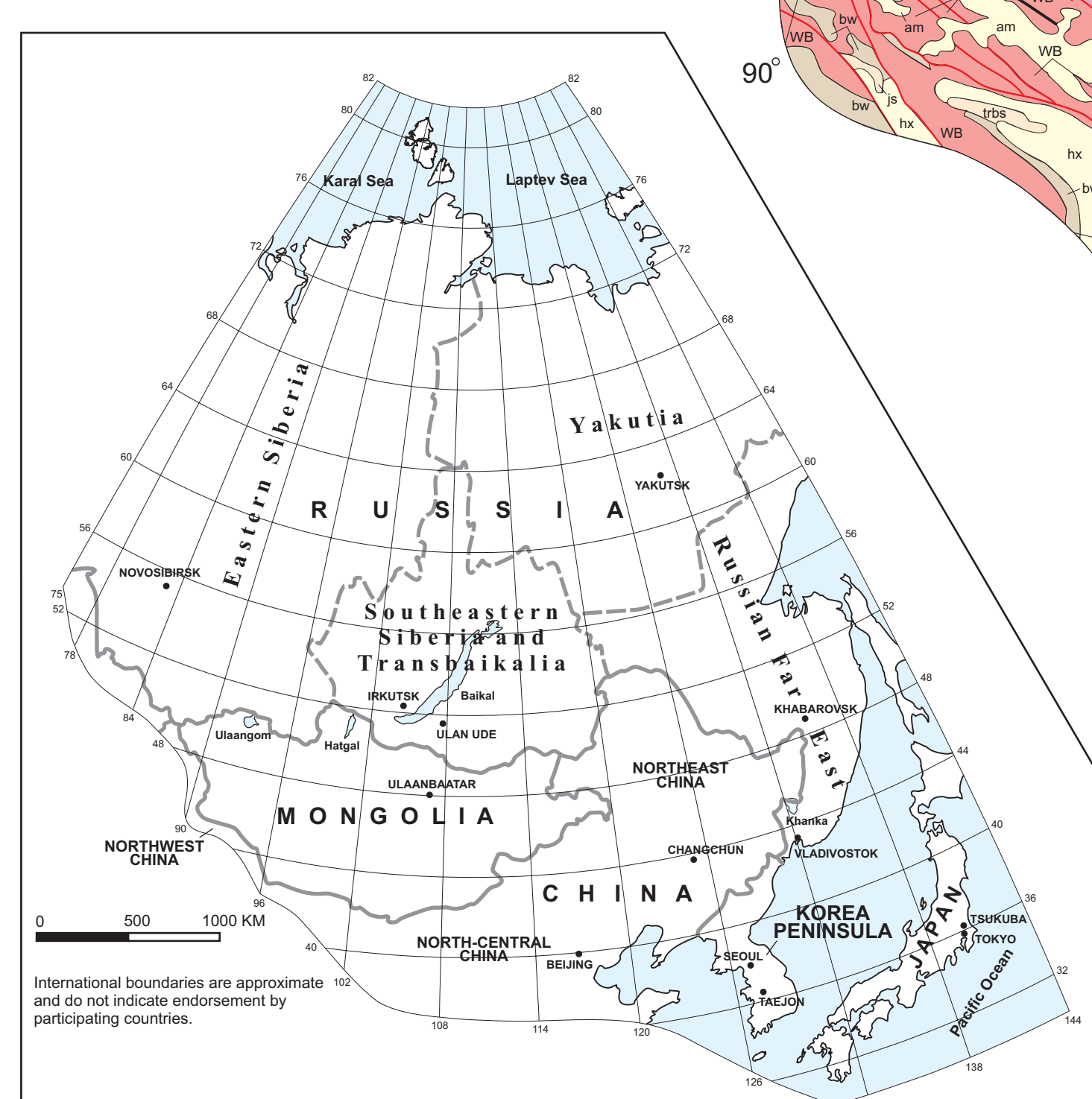
- Thrust
- Strike-slip fault
- Fault with unknown sense of displacement

Major post-accretion faults

- Thrust
- Frontal monocline
- Strike-slip fault
- Normal fault
- Fault with unknown sense of displacement
- Melange zone

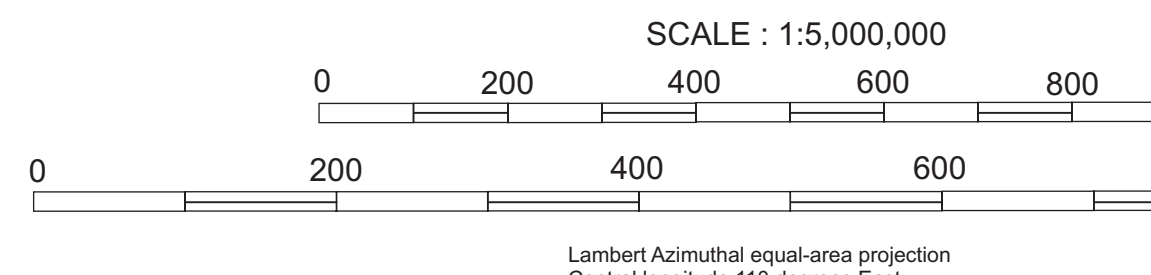
Other Symbols and Units

- Intuitive or stratigraphic boundary between sedimentary, volcanic, and plutonic units
- All contacts between terranes are faults.
- Contour line for bottom of major sedimentary basins (in km beneath surface)
- Boundary of major sedimentary basin
- Buried rift (alkalogen) and filling
- Asthenome
- Major ophiolite
- Major lake



Specific regions for the Northeast Asia Geodynamics Map was compiled by the following persons.

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PRELIMINARY NORTHEAST ASIA GEODYNAMICS MAP

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