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PREPARED IN COLLABORATION WITH
RUSSIAN ACADEMY OF SCIENCES
MONGOLIAN ACADEMY OF SCIENCES
JILIN UNIVERSITY
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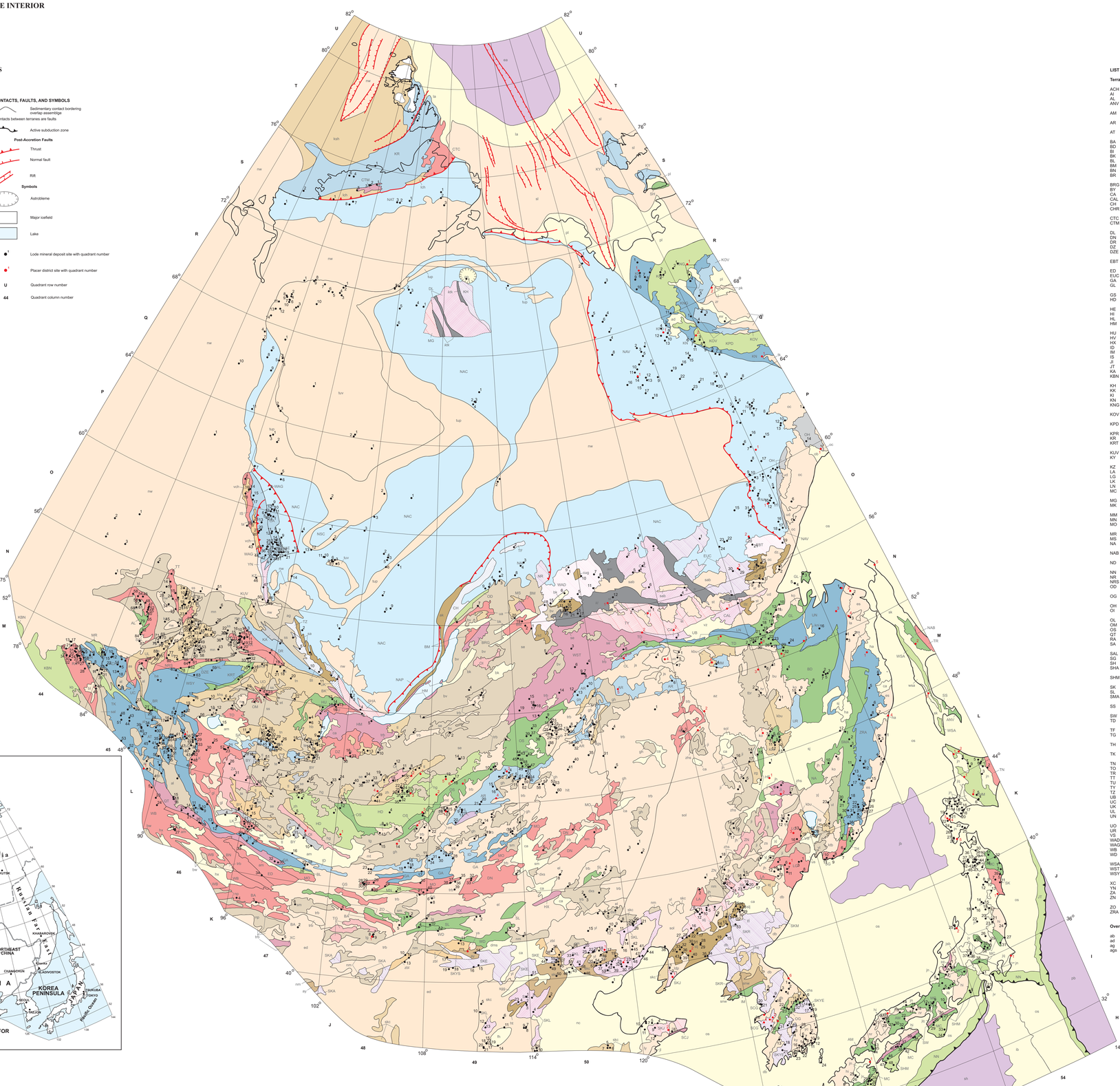
GEOLOGICAL SURVEY OF JAPAN/AIST

REFER TO EXPLANATORY PAMPHLET FOR SUMMARY TABLES OF LODE DEPOSITS, PLACER DISTRICTS, AND METALLOGENIC BELTS



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

OVERLAP AND STITCH ASSEMBLAGES

(Assemblages shown by lighter hues according to age; for overlap assemblages less long age again, 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

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
- Lode mineral deposit site with quadrant number
- Placer district site with quadrant number
- U Quadrant row number
- 44 Quadrant column number

GENERALIZED GEOGRAPHIC MAP FOR NORTHEAST ASIA

LIST OF MAP UNITS

Terranes

- ACH Anui-Chuya terrane (Continental margin turbidite) (Early to Late Paleozoic)
- AI Amil terrane (Accretionary wedge, type A) (Vendian and Cambrian)
- AL Alambai terrane (Accretionary wedge, type B) (Vendian and Early Cambrian)
- ANV Aniva terrane (Accretionary wedge, type B) (Middle Triassic through early Late Cretaceous)
- AM Akiyoshi-Maizuru terrane (Accretionary wedge, type B) (Carboniferous and Permian)
- AR Argunsky terrane (Passive continental margin) (Paleoproterozoic through late Paleozoic)
- AT Altai terrane (Continental margin turbidite) (Precambrian and Cambrian through Devonian)
- BA Beilianshan-Alashbogd terrane (Island arc) (Devonian through Carboniferous)
- BD Badzhal terrane (Accretionary wedge, type B) (Permian through Jurassic)
- BI Birusa terrane (Paragneiss) (Paleoproterozoic to Neoproterozoic)
- BK Belaya-Kitoy terrane (Metamorphic) (Archean?)
- BL Bayanleg terrane (Accretionary wedge, type B) (Ordovician to Devonian)
- BM Baikal-Muya terrane (Island arc) (Neoproterozoic)
- BN Baoran terrane (Island arc) (Devonian through Early Carboniferous)
- BR Baratal terrane (Accretionary wedge, type B) (Late Neoproterozoic through Early Cambrian)
- BRG Barguzin terrane (Metamorphic) (Late Neoproterozoic)
- BY Bayanay terrane (Cratonal) (Neoproterozoic and older)
- CA Central Angara terrane (Passive continental margin) (Neoproterozoic)
- CAL Central Aldan supterterane (Granulite-orthogneiss)
- CH Chuja terrane (Paragneiss) (Late Archean through Neoproterozoic)
- CHR Charyish terrane (Continental margin turbidite) (Cambrian through Devonian) (Northwestern Gorny Altai)
- CTC Central Taimyr supterterane - Chelyuskin terrane (Island arc) (Neoproterozoic)
- CTM Central Taimyr supterterane - Mamont terrane (Metamorphic) (Mesoproterozoic and Neoproterozoic)
- DL Daldyn terrane (Granulite-orthogneiss) (Middle Archean)
- DN Dongujimqin-Nuhetdavaa terrane (Island arc) (Cambrian through Middle Devonian)
- DR Derba terrane (Passive continental margin) (Late Neoproterozoic)
- DZ Dzhida terrane (Island arc) (Late Neoproterozoic and Early Cambrian)
- DZE Dzhebash terrane (Accretionary wedge, type A) (Late Neoproterozoic and Early Cambrian)
- EBT East Aldan supterterane - Batomga composite terrane (Granite-greenstone) (Late Archean)
- ED Edrey terrane (Island arc) (Devonian and Early Carboniferous)
- EUC East Aldan supterterane - Uchur terrane (granulite-paragneiss) (Paleoproterozoic)
- GA Gov Altaian terrane (Continental-margin turbidite) (Cambrian through Devonian)
- GL Galam terrane (Accretionary wedge, type B) (Cambrian through Early Carboniferous)
- GS Gurvansayhan terrane (Island arc) (Silurian through Early Carboniferous)
- HD Hangay-Dauria terrane (Accretionary wedge, type A) (Silurian through Late Carboniferous)
- HE Heilongjiang terrane (Accretionary wedge, type B) (Ordovician and Silurian)
- HI Hida terrane (Metamorphic) (Jurassic)
- HL Herlen terrane (Oceanic) (Late Neoproterozoic through Early Cambrian)
- HM Hamar-Davaa terrane (Metamorphic) (Paleoproterozoic through Early Cambrian) (Mongolia and Transbaikal)
- HU Hug terrane (Accretionary wedge, type B) (Neoproterozoic)
- HV Hovd terrane (Continental-margin turbidite) (Neoproterozoic through Silurian)
- HX Hutaguul-Xilinhot terrane (Metamorphic) (Paleoproterozoic and Neoproterozoic)
- ID Idermeg terrane (Passive continental margin) (Proterozoic and Cambrian)
- IM Imjingang terrane (Accretionary wedge, type B) (Devonian)
- IS Isakov terrane (Island arc) (Neoproterozoic)
- JI Jiamusi terrane (Metamorphic) (Neoproterozoic and older and Early Cambrian)
- JT Japan trench terrane (Accretionary wedge, type A) (late Tertiary and Quaternary)
- KA Kan terrane (Cratonal) (Paleoproterozoic)
- KBN Kabarga terrane (Accretionary wedge, type A) (Neoproterozoic and early Paleozoic)
- KH Khaydurkin terrane (Granulite-paragneiss) (Paleoproterozoic)
- KK Kizir-Kazir terrane (Island arc) (Cambrian) (Southwestern Eastern Sayan)
- KI Kansin terrane (Island arc) (Late Neoproterozoic and Early Cambrian)
- KN Kular-Nera terrane (Continental margin turbidite) (Permian through Early Jurassic)
- KNG Nagorzitha terrane of Kolyma-Omolon superterrane (Continental margin) (Carboniferous through Late Triassic)
- KOV Omulevka miogeoclinal terrane of Kolyma-Omolon supertemrane (Passive continental margin) (late Neoproterozoic through Triassic)
- KPD Polouynyi-Debin terrane of Kolyma-Omolon superterrane (Accretionary wedge, type A) (Jurassic)
- KPR Kyushu-Palau terrane (Island arc) (Paleocene)
- KR Kara terrane (Continental margin turbidite) (Late Neoproterozoic)
- KRT Kurtushiba terrane (Accretionary wedge, type B) (Late Neoproterozoic and Early Cambrian)
- KUV Kuvai terrane (Accretionary wedge, type A) (Neoproterozoic)
- KY Kotelnyi miogeoclinal terrane (Passive continental margin) (Late Neoproterozoic through Late Triassic)
- KZ Kuzeev terrane (Granulite-orthogneiss) (Paleoproterozoic)
- LA Laoling terrane (Island arc) (Late Ordovician through Silurian)
- LG Laoyeling-Grodekov supertemrane (Island arc) (Late Carboniferous and Permian)
- LK Lake terrane (Island arc) (Late Neoproterozoic and Cambrian)
- LN Lan terrane (Continental margin turbidite) (Devonian through Triassic)
- MC Mino Tamba Chichibu terrane (Accretionary wedge, type B) (Permian through Early Cretaceous)
- MG Magan terrane (Tonalite-trondhjemite-gneiss) (Paleoproterozoic)
- MK Malokhingansk terrane (Accretionary wedge, type B) (Neoproterozoic and Cambrian)
- MM Mamyn terrane (Passive continental margin) (Archean?)
- MN Mandan terrane (Accretionary wedge, type A) (Devonian)
- MO Mandalovoo-Onor terrane (Island arc) (Middle Ordovician through Early Carboniferous)
- MR Maralikha terrane (Accretionary wedge, type A) (Middle Devonian or older)
- MS Muya terrane (Metamorphic) (Late Archean? and Paleoproterozoic?)
- NA Nadanhada terrane (Accretionary wedge, type B) (Middle Triassic through Middle Jurassic)
- NAB Nabilsky terrane (Accretionary wedge, type B) (Late Triassic through Early Cretaceous)
- ND Nora-Sukhotin-Duobaoshan terrane (Island arc) (Neoproterozoic through Early Carboniferous)
- NN Nankai terrane (Accretionary wedge, type A) (Miocene through Quaternary)
- NR Nechera terrane (Granulite-paragneiss) (Archean? and Proterozoic)
- NRS North Sayan terrane (Island arc) (Neoproterozoic and Early Cambrian)
- OD Olokit-Delgurun terrane (Accretionary wedge, type A) (Paleoproterozoic through Neoproterozoic)
- OG Ogchelon terrane (Accretionary wedge, type B) (Late Paleozoic through Early Mesozoic)
- OH Okhotsk terrane (Cratonal) (Archean through Jurassic)
- OI Orhon-Itatsky terrane (Continental margin arc) (Late Neoproterozoic through Silurian)
- OL Oldoy terrane (Passive continental margin) (Silurian through Early Carboniferous)
- OM Ondum terrane (Island arc) (Late Neoproterozoic through Ordovician)
- OS Oorsaky terrane (Accretionary wedge, type B) (Neoproterozoic? or Silurian?)
- QT Qinghe-Tsel terrane (Metamorphic) (Mesoproterozoic and Neoproterozoic)
- RA Rudny Altai terrane (Island arc) (Late Silurian through Early Carboniferous)
- SA Sanglien terrane (Passive continental margin) (Paleoproterozoic or Neoproterozoic)
- SAL Salair terrane (Island arc) (Early Cambrian through Early Ordovician)
- SG Sergeevka terrane (Island arc) (Cambrian? and Ordovician?)
- SH Shalaurov terrane (Accretionary wedge, type B) (Permian and Triassic)
- SHA Shabagy terrane (Tonalite-trondhjemite gneiss) (Archean through Paleoproterozoic)
- SHM Shimanto terrane (Accretionary wedge, type A) (Early Cretaceous through Miocene)
- SK South Kitakami terrane (Island arc) (Silurian through Cretaceous)
- SL Solon terrane (Accretionary wedge, type B) (Late Carboniferous through Permian)
- SMA Samarkina terrane (Accretionary wedge, type B) (Late Permian through Middle Jurassic)
- SS Sosunay-Langeri terrane (Accretionary wedge, type B) (Jurassic through Paleogene)
- SW Sambagawa terrane (Metamorphic) (Cretaceous)
- TD Tukuringra-Dzhagdy terrane (Accretionary wedge, type B) (Silurian through Permian)
- TF Tonod terrane (Greenschist) (Paleoproterozoic)
- TG Tsagaan Ulul-Guereshan Terrane (Continental margin arc) (Paleoproterozoic through Permian)
- TH Taukha terrane (Accretionary wedge, type B) (Late Jurassic through Early Cretaceous)
- TK Terekta terrane (Accretionary wedge, type A) (Late Neoproterozoic through Early Cambrian)
- TN Tokoro-Nemuro terrane (Island arc) (Late Cretaceous through Paleogene)
- TO Tannuola subterrane (Island arc) (Cambrian and older?)
- TR Terpeniy terrane (Island arc) (Late Cretaceous)
- TT Tetlaes-Kitat terrane (Island-arc) (Neoproterozoic through Devonian)
- TU Tunka terrane (Island arc) (Ordovician? and Silurian?)
- TY Tyvda terrane (Tonalite-trondhjemite-gneiss) (Archean and Paleoproterozoic)
- TZ Tumanshet terrane (Paragneiss) (Proterozoic)
- UB Uriya-Bom terrane (Continental margin turbidite) (Late Triassic and Early Jurassic)
- UC Ulus-Cherga terrane (Island arc) (Cambrian)
- UK Unk-Iya terrane (Greenschist) (Proterozoic)
- UL Ulmen-Lebed terrane (Island arc) (Cambrian through Ordovician)
- UN Ultan terrane (Continental margin turbidite) (Late Triassic through Middle Jurassic)
- UO Ulugo terrane (Island arc) (Early Cambrian)
- UR Urmi terrane (Passive continental margin) (Archean through Middle Triassic)
- VS Voznesenka terrane (Passive continental margin) (Cambrian through Permian)
- WAD West Aldan terrane (Granite-greenstone) (Archean)
- WAG West Angara terrane (Passive continental margin) (Neoproterozoic)
- WB Waizunger-Baaran terrane (Island arc) (Ordovician through Permian)
- WD Wundurmiao terrane (Accretionary wedge, type B) (Mesoproterozoic through Middle Ordovician)
- WSA West Sakhalin terrane (Accretionary wedge, type A) (Cretaceous)
- WST West Stanovoy terrane (Metamorphic) (Archean through Mesoproterozoic)
- WSY West Sayan terrane (Continental margin turbidite) (Late Neoproterozoic through Devonian)
- XC Xichangjing terrane (Metamorphic) (Proterozoic)
- YN Yenisey terrane (Paragneiss) (Paleoproterozoic?)
- ZA Zavhan terrane (Continental margin arc) (Late Neoproterozoic)
- ZN Zhangguangcailing superterrane (Continental margin arc) (Neoproterozoic through Devonian)
- ZO Zoolen terrane (Accretionary wedge, type B) (Ordovician?) and Devonian)
- ZRA Zhuravlevyk-Amur River terrane (Continental margin turbidite) (Late Jurassic and Early Cretaceous)

Overlap Assemblages

- ab Abinsk plateau basalt (Early and Middle Triassic)
- ad Adycha intermountain sedimentary basin (Miocene and Pliocene)
- ag Agul (Rybinsk) molasse basin (Middle Devonian to Early Carboniferous)
- ags Argun sedimentary basin (Early Paleozoic)
- ak Akitkan volcanic-plutonic belt (Paleoproterozoic)
- al Altai volcanic-plutonic belt (Devonian and Early Carboniferous)
- am Altai-Mongolia intermontane basin (Paleogene, Neogene, and Quaternary)
- as Altai-Sayan back-arc basin (Vendian and Cambrian)
- ay Alashan-Yinshan plutonic belt (Proterozoic)
- az Amur-Zeya sedimentary basin (Late Jurassic to Quaternary)
- ba Biya sedimentary basin (Cambrian and Ordovician)
- bk Baikal sedimentary-volcanic rift belt (Oligocene through Quaternary)
- bl Belokurikha plutonic belt (Late Permian through Early Jurassic) (Altai, Mongolia, China)
- bu Bureya sedimentary basin (Early Jurassic to Early Cretaceous)
- bv Barguzin-Vitim granitoid belt (Late Carboniferous)
- bw Beilianshan-Waizunger sedimentary basin (Carboniferous through Permian)
- ca Central Asian plateau basalt belt (Neogene and Quaternary)
- cc Chokhchur-Chekurdakh granite belt (Cretaceous)
- cha Choiun sedimentary basin (Cambrian and Ordovician)
- cuk Udokan basin of Chara-Uchur rift system (Paleoproterozoic)
- cug Uguy basin of Chara-Uchur rift system (Paleoproterozoic)
- db Daebou granite belt (Jurassic)
- dms Damaoqi sedimentary basin (Cenozoic)
- dxs Daxingalling sedimentary overlap assemblage (Carboniferous through Permian)
- dz Dzugdzur anorthositic belt (Paleoproterozoic)
- ea Eurasia oceanic basin (Cenozoic)
- ed Erdusi sedimentary basin (Triassic through Cretaceous)
- ej East Jilin plutonic belt (Silurian)
- ef Erlian sedimentary basin (Late Jurassic through Quaternary)
- es East Sikhote-Alin volcanic-plutonic belt (Late Cretaceous through Miocene)
- et East Tuva back-arc basin (Late Neoproterozoic and Cambrian)
- fh Fenhe sedimentary basin (Cenozoic)
- ga Gaizinur sedimentary basin (Late Neoproterozoic through Early Ordovician)
- gh Gobi-Khankaisk-Daxingaling volcanic-plutonic belt (Permian)
- gl Great Lakes sedimentary basin (Jurassic and Cretaceous)
- ha Hasan-Amurian volcanic-plutonic belt (Paleocene to Early Miocene)
- hb Huxigol-Bokson sedimentary overlap assemblage (Late Neoproterozoic through Middle Cambrian)
- hg Hangay plutonic belt (Late Carboniferous and Early Permian)
- hy Hirashima granitic plutonic belt (Cretaceous and Paleogene)
- hll Hailar-Tamsag sedimentary basin (Late Jurassic and Cretaceous)
- hr Khanrisk granitic assemblage (Triassic)
- ht Hutuo rift basin (Paleoproterozoic)
- hx Hexizoulang sedimentary basin (Jurassic through Cenozoic)
- ib Izu-Bonin volcanic belt (Miocene through Quaternary)
- ij Japan basin (Neogene-Quaternary)
- jh Jihei volcanic belt (Permian and Mesozoic)
- jl Jilhe plutonic belt (Permian)
- jls Jiaoliao-Liaoxi-East Shandong volcanic-plutonic belt (Late Jurassic and Cretaceous)
- jn Japan Cenozoic sedimentary basin (Paleogene and Neogene)
- jq Japan Cenozoic sedimentary basin (Quaternary)
- js Jasong volcanic belt (Jurassic)
- jsb Japan sedimentary basin (Mesozoic)
- jy Jiayin volcanic belt (Quaternary)
- kb Kalba-Narym plutonic belt (Late Carboniferous through Early Triassic)
- kbs Khanka-Bureya granitic belt (Ordovician and Silurian)
- kd Kodar granitic belt (Paleoproterozoic)
- kh Khmelev back-arc basin (Devonian and Carboniferous)
- kha Khemchik-Sistigkhem basin (Middle Cambrian through Silurian)
- kni Konino-Nimelen sedimentary basin (Neogene and Quaternary)
- ko Khingan-Okhotsk volcanic-plutonic belt (Cretaceous)
- kah Kara Sea shelf sedimentary basin (Cambrian through Permian)
- kt Kolyvan-Tom back-arc basin (Devonian to Permian)
- kb Khungan-Tatib granitic belt (Middle Cretaceous)
- ky Kyongsang sedimentary basin (Early Cretaceous)
- kz Kuznetsk orogenic basin (Devonian to Early Triassic)
- la Laptev Sea continental slope (Late Cretaceous through Oligocene)
- lb Lower Borzja fore-arc basin (Early Carboniferous through Early Triassic)
- lch Lenivaya-Chelyuskin sedimentary basin (Vendian through Carboniferous)
- ldp Liaodong plutonic belt (Triassic)
- lg Lugyngol volcanic-sedimentary basin (Permian)
- ly Layang volcanic -sedimentary basin (Cretaceous)
- ma Mana sedimentary basin (Late Neoproterozoic through Middle Cambrian)
- mb Main granite belt (Late Jurassic)
- mn Minusa molasse basin (Middle Devonian through Early Permian)
- mr Morna rift sedimentary basin (Miocene and Pliocene)
- mt Mongol-Transbaikal volcanic-plutonic belt (Late Triassic through Early Cretaceous)
- nm North marginal plutonic belt of North China Platform (Carboniferous and Permian)
- np North Tarim plutonic belt (Permian)
- nr Nishi rhyolite volcanic belt (Cretaceous)
- nw Northern, Eastern, and Western Siberia sedimentary basins (Mesozoic and Cenozoic)
- ob Okhota sedimentary basin (Late Eocene through Miocene)
- oc Okhotsk-Chukotka volcanic-plutonic belt (late Early Cretaceous, Late Cretaceous, and Paleocene)
- os Offshore sedimentary assemblages (Mainly Cenozoic)
- pb Pacific Ocean basin (Cretaceous through Cenozoic)
- pk Post-amalgamation assemblages of the Kolyma-Omolon superterrane - UyandinaYasachnaya volcanic belt and IlinTas back arc basin (Late Jurassic)
- pl Primorsk lowland and Laptev sea shelf sedimentary basin (Pliocene through Holocene
- pp Popigay astroblem (Late Eocene)
- sa Sayan collisional granitic belt (Paleoproterozoic?)
- sab South Aldan sedimentary basin (Jurassic)
- sal South Altai back-arc basin (Middle Devonian through Early Carboniferous)
- se Selenga sedimentary-volcanic plutonic belt (Permian through Jurassic)
- sg Sinegorsk volcanic-plutonic assemblage (Devonian and Mississippian)
- sgg Shangganlin sedimentary basin (Cenozoic)
- sj Sanjiang sedimentary basin and Yishu graben (Mesozoic and Cenozoic)
- sh Shikoku back arc basin (Neogene and Quaternary)
- sk South Sakhalin sedimentary basin (Cenozoic)
- sac Sino-Korea platform sedimentary cover (Proterozoic through Triassic)
- sl Sedimentary basin of Laptev Sea shelf (Early Cretaceous through Cenozoic)
- sij East Shandong-East Liaoning-East Jilin rift basin (Paleoproterozoic)
- sm South Mongolian volcanic-plutonic belt (Middle Carboniferous through Late Triassic)
- snw Sangwon sedimentary basin (Proterozoic)
- sol Songliao sedimentary basin (Jurassic through Cenozoic)
- ss South Siberian volcanic-plutonic belt (Early Devonian)
- st Stanovoy granite belt (Jurassic and Early Cretaceous)
- ta Tatarka-Ayakhta collisional granitic belt (Neoproterozoic)
- tbr Tyrma-Burensk granitic assemblage (Permian)
- tg Tamrigol sedimentary basin (Permian)
- te Tes volcanic-plutonic belt (Devonian through Late Triassic?)
- tk Tak-Kystabyt magmatic belt (Jurassic)
- tl Talmen plutonic belt (Middle Cambrian through Early Ordovician)
- tn Tannuola plutonic belt (Cambrian and Ordovician)
- to Toron sedimentary basin (Late Triassic through Early Cretaceous)
- tr Taraka collisional granitic belt (Paleoproterozoic)
- trb Trans-Baikalian-Daxinganling sedimentary-volcanic-plutonic belt (Middle Jurassic through Early Cretaceous)
- tup Tungus plateau basalt, sills, dikes, and intrusions (Permian and Triassic) - Plutonic-ich part
- tuv Tungus plateau basalt, sills, dikes, and intrusions (Permian and Triassic) - Volcanic-ich part
- tv Tuva molasse basin (Middle Devonian through Late Carboniferous)
- ua Upper Angara carbonate sedimentary basin (Late Neoproterozoic through Middle Cambrian)
- ub Ussuri-Bureya molasse basin (Early Jurassic)
- ud Uda volcanic-plutonic belt (Late Jurassic and Early Cretaceous)
- uf Ulkan plutonic belt (Paleoproterozoic)
- uo Umlekam-Ogodzhin volcanic-plutonic belt (Cretaceous)
- us Ussuri sedimentary assemblage (Early Cretaceous through Quaternary)
- vch Vorogovka-Chapa basin (Late Neoproterozoic through Cambrian?)
- vl Vladivostok sedimentary and magmatic assemblage (Permian)
- vz Verkhnezeya sedimentary basin (Cenozoic)
- wsa West Sakhalin sedimentary basin (Paleocene through Quaternary)
- xa Xinjiang Altai plutonic belt (Silurian)
- yc Yang-ti sedimentary basin (Late Cretaceous)
- yj Yanji-Jixi-Raohe overlap sedimentary assemblage (Mesozoic and Cenozoic)
- yl Yanliao volcanic-sedimentary basin and plutonic belt (Jurassic through Cretaceous)
- yrs Yinshan volcanic-sedimentary basin (Jurassic through Cretaceous)
- zbf Zhangbei-Bayan Obo-Langshan metasedimentary and metavolcanic rock unit (Paleoproterozoic and Mesoproterozoic)
- zg Zhangguangcailing plutonic belt (Early Silurian through Late Ordovician)
- zh Zag-Haraa turbidite basin (Middle Cambrian through Early Ordovician)
- zha Zhangguangcailing sedimentary overlap assemblage (Paleozoic)
- zr Zyryanka sedimentary basin (Late Jurassic through Cenozoic)
- za Zhangguangcailiang sedimentary overlap assemblage (Mesozoic)

Cratons and Craton Margins

- NAC North Asian Craton (Archean through Mesozoic)
- NAE North Asian Craton Margin (Angara fold and thrust belt) (Late Neoproterozoic through Cambrian)
- NAP North Asian Craton Margin Patom-Baikal fold and thrust belt (Passive continental margin) (Mesoproterozoic and Neoproterozoic)
- NAV North Asian Craton Margin - Verkhoyansk fold and thrust belt (Passive continental margin) (Carboniferous through Middle Jurassic)
- NAT North Asian Craton Margin - South-Taimyr fold belt (Passive continental margin) (Ordovician through Triassic)
- SCG South China (Yangzi) Craton - Gyenggi terrane (Granulite-paragneiss) (Mesoproterozoic and Neoproterozoic and older)
- SCJ South China (Yangzi) Craton - Jilin-Liaonan Ultra-High Pressure terrane (Metamorphic) (Paleoproterozoic)
- SKA Sino-Korean Craton - Alashan terrane (Granulite-paragneiss) (Paleoproterozoic)
- SKE Sino-Korean Craton - Erdousi terrane (Granulite-paragneiss) (Archean)
- SKJ Sino-Korean Craton - Jilin-Liaoning-East Shandong terrane (Tonalite-trondhjemite-gneiss) (Archean)
- SKL Sino-Korean Craton - West Liaoning-Hebei-Shanxi terrane (Granulite-orthogneiss) (Archean)
- SKM Sino-Korean Craton - Machollyong terrane (Granulite-paragneiss) (Archean to Paleoproterozoic)
- SKR Sino-Korean Craton - Rangnim terrane (Granulite-paragneiss) (Archean)
- SKYE Sino-Korean Craton - Yeongnam terrane (Granulite-paragneiss) (Late Archean to Paleoproterozoic)
- SKYS Sino-Korean Craton - Yinshan terrane (Granite-greenstone) (Archean)

Major Melange Zones

- am Amga tectonic melange zone
- kf Kalar tectonic melange zone
- ktk Kotuykan tectonic melange zone
- tr Tyrkanda tectonic melange zone

MINERAL DEPOSIT LOCATION MAP FOR NORTHEAST ASIA

Compiled by Alexander A. Obolenskiy[2], Sergey M. Rodionov[1], Gunchin Dejidmaa[4], Ochir Gerel[13], Duk Hwan Hwang[5], Robert J. Miller[8], Warren J. Nokleberg[8], Masatsugu Ogasawara[7], Alexander P. Smelov[9], Hongquan Yan[11], and Zhan V. Seminskiy[10]

With compilations on specific regions by Sodov Ariunbileg[3], Gennandiy V. Biryul'kin[9], Jamba Byamba[18], Yury V. Davydov[9], Elimir G. Distanov[2], Dangindorjiin Dorjgotov[18], Gennadiy N. Gamyanin[9], Valeriy Yu. Fridovskiy[12], Nikolai A. Goryachev[17], Ayurzana Gotovsuren[16], Alexander I. Khanchuk[6], Anatoliy P. Kochnev[10], Alexei V. Kostin[9], Mikhail I. Kuzmin[14], Sergey A. Letunov[14], Jiliang Li[11], Xujun Li[11], Galina D. Malceva[10], V.D. Melnikov[9], Valeriy M. Nikitin[12], Leonid M. Parfenov[9], Nikolay V. Popov[2], Andrei V. Prokopiev[9], Vladimir Ratkin[6], Vladimir I. Shpikerman[17], Vitaly I. Sotnikov[3], Alexander V. Spiridonov[14], Valeriy V. Stogniy[12], Sadahisa Sudo[7], Fengyue Sun[11], Jiapeng Sun[11], Weizhi Sun[11], Valeriy M. Supletsov[9], Vladimir F. Timofeev[9], Oleg A. Tyan[9], Valeriy G. Vetluzhskikh[9], Koji Wakta[7], Aihua Xi[11], Yakov V. Yakovlev[9], Vladimir I. Zhizhin[12], Nikolay N. Zinchuk[19], and Lydia M. Zorina[14]

[1]Russian Academy of Sciences, Khabarovsk
[2]Russian Academy of Sciences, Novosibirsk
[3]Mongolian Academy of Sciences, Ulaanbaatar
[4]Mineral Resources Authority of Mongolia, Ulaanbaatar
[5]Korean Institute of Geology, Mining, and Maerials, Taejon
[6]Russian Academy of Sciences, Vladivostok
[7]Geological Survey of Japan/AIST, Tsukuba
[8]U.S. Geological Survey, Menlo Park
[9]Russian Academy of Sciences, Yakutsk
[10]Irkutsk State Technical University, Irkutsk
[11]Jilin University, Changchun
[12]Yakutian State University, Yakutsk
[13]Mongolian University of Science and Technology, Ulaanbaatar
[14]Russian Academy of Sciences, Irkutsk
[15]Russian Academy of Sciences, Blagoveschensk
[16]Ministry of Industry and Commerce, Mongolia
[17]Russian Academy of Sciences, Magadan
[18]Mongolian National University, Ulaanbaatar
[19]ALROSA Joint Company, Mirnyi

SCALE : 1:7,500,000

0 200 400 600 800 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)

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

Mineral deposits and placer districts numbered within quadrants bounded by 4 degrees of latitude and 6 degrees of longitude. Refer to companion summary tables of lode deposits and placer districts for additional information. Some deposits occur on islands too small to depict on map.

Specific regions for these maps were compiled by the following persons.

Region or Country	Contributors
Eastern Siberia	Elimir G. Distanov, Alexander A. Obolenskiy, Nikolay V. Popov, Vitaly I. Sotnikov
Transbaikalia	Anatoliy P. Kochnev, Mikhail I. Kuzmin, Sergey A. Letunov, Galina D. Malceva, Zhan V. Seminskiy, Alexander V. Spiridonov, Lydia M. Zorina[1]
Yakutia	Gennandiy V. BiryulKin, Yury V. Davydov, Valeriy Yu. Fridovskiy, Gennadiy N. Gamyanin, Alexei V. Kostin, Valeriy M. Nikitin, Leonid M. Parfenov, Andrei V. Prokopiev, Alexander P. Smelov, Valeriy V. Stogni :y, Valeriy M. Supletsov, Vladimir F. Timofeev, Oleg A. Tyan, Valeriy G. Vetluzhskikh, Yakov V. Yakovlev, Vladimir I. Zhizhin, Nikolay N. Zinchuk
Russia Far East	Alexander I. Khanchuk, Nikolai A. Goryachev, V.D. Melnikov, Vladimir Ratkin, Sergey M. Rodionov, Vladimir I. Shpikerman,
Mongolia	Sodov Ariunbileg, Jamba Byamba, Gunchin Dejidmaa, Dangindorjiin Dorjgotov, Ochir Gerel, Ayurzana Gotovsuren,
China	Jiliang Li, Xujun Li, Fengyue Sun, Aihua Xi, Qiusheng Zhang, Hongquan Yan
South Korea	Duk Hwan Hwang,
Japan	Masatsugu Ogasawara, Sadahisa Sudo, Koji Wakita