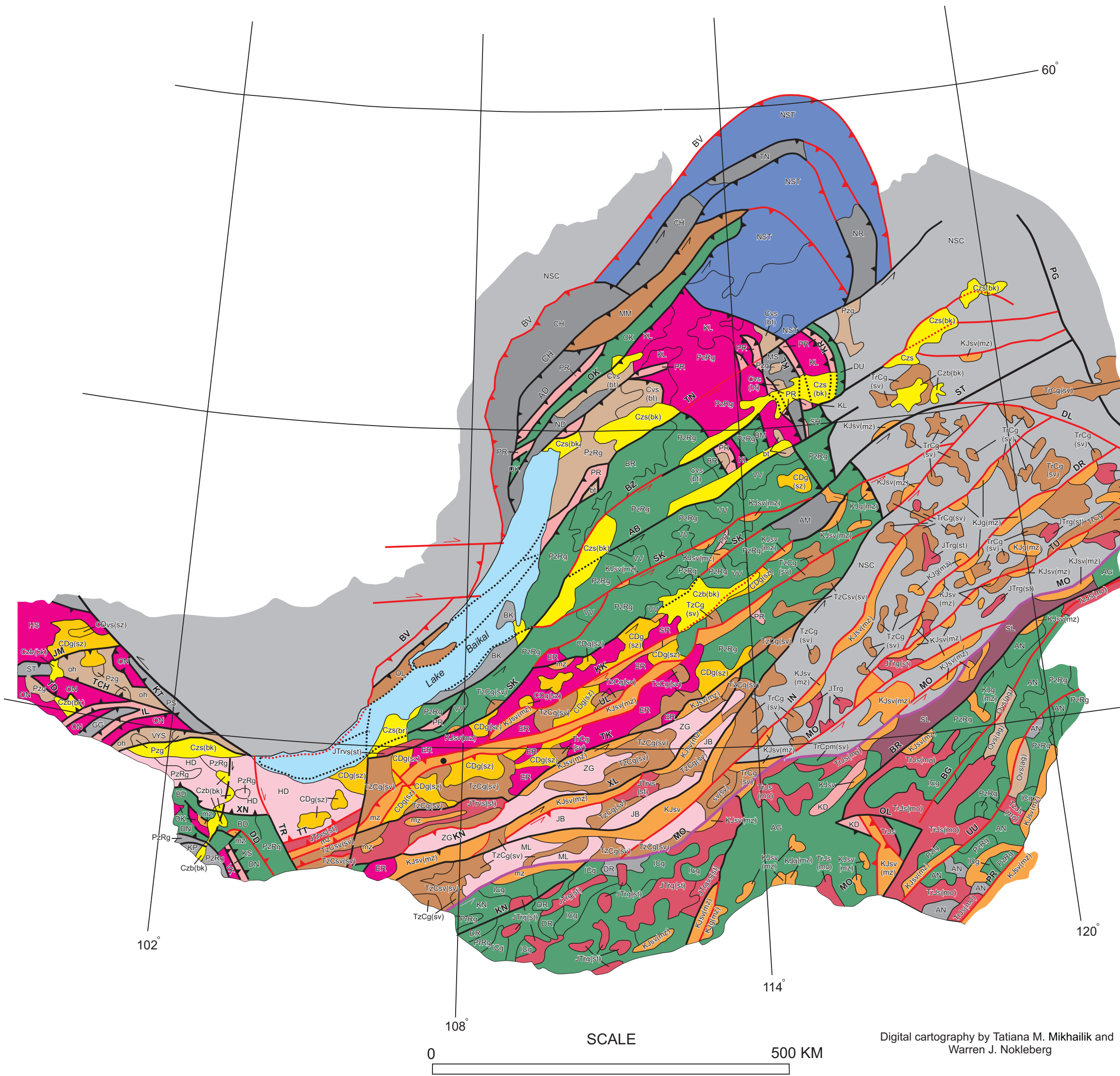


EXPLANATION



Vendian, Cambrian, Mesozoic and Cenozoic Overlap Sedimentary Assemblages and Basinal Deposits

Czs Sedimentary rocks (Late Cenozoic)
TrJs Sedimentary rocks (Late Triassic and Middle Jurassic)
Ve Sedimentary rocks (Vendian and Cambrian)

Cenozoic, Mesozoic and Paleozoic Volcanic Sedimentary Assemblages and Basinal Deposits

Czb Basalt (Late Cenozoic)
KJvs Volcanic and sedimentary rocks (Late Jurassic and Early Cretaceous)
JTrvs Volcanic and sedimentary rocks (Late Triassic and Middle Jurassic)
TrCvs Volcanic and sedimentary rocks (Middle Carboniferous and Early Triassic)
Cdvs Volcano and sedimentary rocks (Devonian and Early Carboniferous)

Plutonic Rocks

K Jg Granitoid rocks (Late Jurassic and Early Cretaceous)
J Trg Granitoid rocks (Late Triassic and Middle Jurassic)
TrCg Granitoid rocks (Late Carboniferous and Early Triassic)
TrCpm Minor plutonic rocks (Late Carboniferous and Early Triassic)
ICg Granitoid rocks (Late Carboniferous)
CDg Granitoid rocks (Devonian and Early Carboniferous)
Pzg Granitoid rocks (Paleozoic)
PzRg Granitoid rocks (Late Riphean and Paleozoic)

Overlap sedimentary, Volcanic and Sedimentary Assemblages, Basinal Deposits and Igneous Arcs (Paleozoic)

ag Argun-Gazimur sedimentary basin (Vendian and Ordovician) (Eastern Transbaikalia)
bk Baikalsk sedimentary basin (Late Cenozoic) (Transbaikalia)
bt Biramin-Talioj sedimentary basin (Vendian and Cambrian) (Northern Transbaikalia)
mo Mongol-Okhotsk sedimentary basin (Late Triassic and Middle Jurassic) (Eastern Transbaikalia)
mz Mongol-Transbaikalian sedimentary and volcanic-plutonic belt (Late Jurassic and Early Cretaceous) (Southern Transbaikalia)
oh Okin-Khubsugul sedimentary basin (Vendian and Cambrian) (Eastern Sayan)
st Sayan-Stanovoy sedimentary-volcanic-plutonic belt (Late Triassic and Middle Jurassic) (Southern Transbaikalia)
sv Selenga-Vitim sedimentary-volcanic-plutonic belt (Middle Carboniferous and Early Triassic) (Southern Transbaikalia)
sz Sayan-Transbaikalian sedimentary and volcanic-plutonic belt (Devonian and Early Carboniferous) (Eastern Sayan, Central and Northern Transbaikalia)

Northern Asian Craton and Craton Margin (southern part of Eastern Siberia)

NSC Northern Asian Craton (Archean and Early Proterozoic) (southern part of the Northern Asian craton)
NST Margin of Northern Asian Craton (Paton nappe-fold belt) (Riphean) (Between the Northern Asian Craton and accreted terranes, northeast of Irkutsk region)

Tectonostratigraphic Terranes (arranged alphabetically by map symbol; interpreted tectonic environment and region in parentheses)

AG Agin terrane (turbidite basin) (Southeastern Transbaikalia)
AM Amalat terrane (cratonal) (Central Transbaikalia)
AN Argun terrane (turbidite basin) (Southeastern Transbaikalia)
BD Bitudzhidinn terrane (turbidite terrane) (south of Lake Baikal)
BK Baikalsk terrane (cratonal) (east of Lake Baikal)
BM Bambui terrane (turbidite basin) (Northern Transbaikalia)
BR Barguzin terrane (turbidite basin) (Northern Transbaikalia)
CH Chui terrane (cratonal) (north of Lake Baikal)
DN Dzhalinda terrane (turbidite basin) (south of Lake Baikal)
DR Daur terrane (turbidite basin) (Southern Transbaikalia)
DU Delum-Uran terrane (turbidite basin) (Northern Transbaikalia)
ER Eravna terrane (island arc) (Central Transbaikalia)
GG Garga terrane (cratonal) (Eastern Sayan)
HD Khamsara Daban terrane (cratonal) (south of Lake Baikal)
HS Khamsara terrane (island arc) (Eastern Sayan)
IL Ilchir terrane (oceanic crust) (Eastern Sayan)
IB Jablonoviy terrane (cratonal) (Southern Transbaikalia)
KD Kulindin terrane (oceanic crust) (Southeastern Transbaikalia)
KL Kilyan terrane (island arc) (Northern Transbaikalia)
KN Kunaley terrane (turbidite basin) (Southern Transbaikalia)
KP Kupchin terrane (cratonal) (south of Lake Baikal)
KS Khasurta terrane (oceanic crust) (south of Lake Baikal)
ML Malkhan terrane (cratonal) (Southern Transbaikalia)
MM Mama terrane (metamorphic) (north of Lake Baikal)
MS Muya terrane (craton) (Northern Transbaikalia)
ND Nerundukan terrane (craton) north of Lake Baikal
NR Nechera terrane (cratonal) (Northern Transbaikalia)
OK Olokit terrane (turbidite terrane) (north of Lake Baikal)
OL Olkhon terrane (metamorphic) (west of Lake Baikal)
ON Oka terrane (island arc) (Eastern Sayan)
PR Param terrane (oceanic crust) Northern Transbaikalia
PS Proterosayn terrane (craton) (Eastern Sayan)
SH Shaman terrane (turbidite basin) Northern Transbaikalia
SL Shilka terrane accretionary wedge - predominantly oceanic rocks (Southeastern Transbaikalia)
ST Shutkhula terrane (cratonal) (Northern Transbaikalia)
TN Tanad terrane (cratonal) (Northern Transbaikalia)
VK Verkhnekhasurta terrane (island arc) (south of Lake Baikal)
VV Verknevitim terrane (turbidite basin) (Central Transbaikalia)
ZG Zagan terrane (cratonal) (Southern Transbaikalia)

Geological Map Symbols, Contacts, and Faults

Depositional or intrusive contact along margin of overlap assemblage or stitching pluton. Accretionary fault between terranes where not reactivated along post-accretionary fault or where not partly covered by overlap assemblage..

Faults Bounding Terranes

Thrust fault

Strike-slip fault

Faults concealed beneath younger deposits

Faults concealed beneath younger deposits

Major Post-Acretion Faults

Thrust fault

Strike-slip fault

Concealed fault

Concealed fault

Colors for Tectonic Environments

Craton

Craton margin

Cratonal

Island-arc

Oceanic

Accretionary wedge - predominantly oceanic rocks

Turbidite basin

Metamorphic

Metamorphic

Metamorphic

Metamorphic

Metamorphic

Metamorphic

Metamorphic

Metamorphic

Metamorphic

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Major Faults

AB Argoda-Bambuy strike-slip fault
AD Abchad strike-slip fault
BG Borzin-Dazimurov strike-slip fault
BV Baikalsk-Viluy strike-slip-thrust fault
BR Borzhovoch strike-slip fault
BZ Barguzinsky strike-slip fault
CH Chuy strike-slip fault
DD Dzhalinda thrust fault
DL Dzsheltulak strike-slip fault
DR Daur strike-slip fault
GS Major Sayn strike-slip fault
JM Zhombolok strike-slip fault
JN Zhujin thrust fault
IG Iche-Gol thrust fault
IL Ilchir thrust fault
IN Ingoda strike-slip fault
IT Icheta thrust fault
KK Kurba-Kalakansky strike-slip fault
KL Kilyan thrust fault
KN Kunaley strike-slip fault
KP Kupchin thrust fault
KR Karalon thrust fault
KT Kitoi thrust fault
MO Mongol-Okhotsk strike-slip fault
OK Olokit strike-slip fault
OL Olovyanin thrust fault
PG Prigilyuy strike-slip fault
PR Pogranichny strike-slip fault
SK Selenginsk-Kalar strike-slip fault
ST Stanovoy strike-slip fault
TCH Tissa-Shibilik thrust fault
TD Tissa-Dibin thrust fault
TK Tugny-Kondin strike-slip fault
TN Tompuda-Nerpin strike-slip fault
TO Tupka-Onon strike-slip fault
TR Torey strike-slip fault
TU Tungirsky strike-slip fault
UV Udin-Vitim strike-slip fault
UU Urulyuney-Urovsky strike-slip fault
XL Khilok strike-slip fault
XN Khangaral thrust

REFERENCES

This map is compiled from the following references.

Bulgatov, A.N., and Klimuk, V.S., 1998, Structural features of the Dzhalinda Zone, Caledonides: Geotectonics, no. 1. p. 45-55 (in Russian).
Bulgatov, A.N., Turunkhaev, V.I., 1996, Geodynamics of Central Asia in Late Mesozoic: Doklady Russian Academy of Sciences, v. 349, no. 6. p. 783-785 (in Russian).
Dobretsov, N.L., and Bulgatov, A.N., 1991, Geodynamic map of Transbaikalia (concepts of preparation and legend): Novosibirsk: United Institute of Geology, Geophysics and Mineralogy and the Buryat Geological Institute, Siberian Branch, Russian Academy of Sciences, no. 8. 51 p. (in Russian).
Fomin, I.N., Sizich, I.V., Cherednichenko, V.P., and Falkin, E.M. 1985, Transbaikalian tectonic complexes and their analogues in the adjacent regions: Tectonics of Siberia, v. 12: Nauka, Novosibirsk, p. 42-52 (in Russian).
Gordienko, I.V., 1997, Major terranes of the Transbaikalian region: Tectonic evolution of the East Asian continent. Short papers for the International Symposium, Seoul, Korea, p. 17-19.
Gordienko, I.V., 1987, Paleozoic magmatism and geodynamics of the Central Asian fold belt: Nauka, Moscow, 240 p. (in Russian).
Kuzmin, M.I., Gordienko, I.V., Almkhamedov, A.I., Antipin, V., Baynov, V.D., and Filimonov, A., 1995, Paleo-oceanic complexes: the Dzhalinda zone of Caledonides (Southwestern Transbaikalia): Russian Geology and Geophysics, v. 36, no. 1. p. 1-16.
Parfenov, L.M., Bulgatov, A.N., and Gordienko, I.V., 1995, Terranes and accretionary history of the Transbaikalian orogenic belts: International Geology Review, v. 37, no. 8. p. 73-751.

PRELIMINARY TERRANE AND OVERLAP ASSEMBLAGE MAP OF TRANSBAIKALIA AND EASTERN SAYAN REGION, SOUTHERN SIBERIA, RUSSIA

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