State geological map of the Russian Federation. Scale 1 : 1 000 000
Geological map
P-55 (Susuman)

L E G E N D

Stratigraphic scale

Eon	Era	Period / Subperiod	Epoch (superse-ction)	Age (section, link)	Horizon
PHANEROZOIC	CENOZOIC	QUATERNARY	HOLOCENE		Olevsky
			PLEISTOCENE – NEOPLEISTOCENE – LATE		Khetakagchan
					Kubalakh
					Yuglersky
					Vecherninsky
			NEOPLEISTOCENE – MIDDLE		
			NEOPLEISTOCENE – EARLY		Poludensky
					Bilichan
			EOPLEISTOCENE		
		NEOGENE	PLIOCENE		Kutuyakh
					Begunovsky
			MIOCENE		Khapchan
					Silgensky
					Ildikilyakh
		PALEOGEN	OLIGOCENE		
			EOCENE		
			PALEOCENE		
	MESOZOIC	CRETACEOUS	LATE	MAASTRICHTIAN	
				CAMPANIAN	
				SANTONIAN	
				CONIACIAN	
				TURONIAN	
				CENOMANIAN	
			EARLY	ALBIAN	
				APTIAN	Kanyonsky
					Eleken
				BARREMIAN	
				HAUTERIVIAN	Gytgytkon
				VALANGINIAN	Perevalninsky
				BERRIASIAN	Elgakchan
		JURASSIC	LATE	TITHONIAN	Vukvaam
				KIMMERIDGIAN	Vukvaam
			LATE	KIMMERIDGIAN	Vukvaam
				OXFORDIAN	Nenkan
			MIDDLE	CALLOVIAN	Nenkan
				BATHONIAN	Moskalsky
				BAJOCIAN	Tatyngychan
					Merenginsky
				AALENIAN	Yaschan
			EARLY	TOARCIAN	Startinsky
				PLIENSBACHIAN	Naledninsky
					Tapsky
				SINEMURIAN	Listvennichny
				HETTENGIAN	Kaliansky
		TRIASSIC	LATE	RHAETIAN	Finishsky
				NORIAN	Burgagchan
					Nenkalsky
					Kilganinsky
					Vizualninsky
					Kedonsky
				CARNIAN	Zhilninsky
			MIDDLE	LADINIAN	Verhozyryansky
					Nyakuchan
				ANISIAN	Kular
			EARLY	OLENEKIAN	Olenek
				INDUAN	Lekeyersky
	PALEOZOIC	PERMIAN	TATARIAN	VYATKIAN	Khivachsky
				SEVERODVINSKIAN	Gizhiginsky
			BIARMIAN	URZHUMIAN	Bocharsky
				KAZANIAN	Olynsky
					Russko-Omolonsky
			CISURALIAN	UFIMIAN	Halalinsky
				KUNGURIAN	Koargychansky
				ARTINSKIAN	Ogonersky
				SAKMARIAN	
				ASSELIAN	Orochsky
		CARBONIFEROUS	LATE	GZHELIAN	Uchenneisky
				KASIMOVIAN	Icheveemsky
			MIDDLE	MOSCOVIAN	Gorninsky
				BASHKIRIAN	Osokinsky
			EARLY	SERPUKHOVIAN	Magarsky superhorizon
				VISEAN	Neruinsky superhorizon
				TOURNAISIAN	Kamenkovsky
		DEVONIAN	LATE	FAMENNIAN	Uochatsky
				FRASNIAN	Kotokhbalykhtakhsky
			MIDDLE	GIVETIAN	Sarynsky
					Talvegsky
				EIFELIAN	Khachiskinsky
			EARLY	EMSIAN	Sakhinsky
					Izveskovokariersky
				PRAGHIAN	Nelichensky
					Sagyrsky
				LOCKHOVIAN	Nelyudimsky
		SILURIAN – LATE	PRIDOLIAN		Mirnensky
			LUDLOW	LUDFORDIAN	Bisonsky
				GORSTIAN	
		SILURIAN – EARLY	WENLOCK	HOMERIAN	Sandugan
				SHEINWOODIAN	
			LLANDOVERIAN	TELYCHIAN	Anikin
				AERONIAN	Chalmak
				RHUDDANIAN	
		ORDOVICIAN	LATE	HIRNANTIAN	Tirekhtyakh
				KATIAN	Padunsky
				SANDBIAN	Kharkindzha
			MIDDLE	DARRIVILIAN	Lachugsky
					Elgenchagsky
				DAPINIAN	Khitinsky
			EARLY	FLOIAN	
				TREMADOCIAN	Inaniensky
		CAMBRIAN	LATE	BATYRBAIAN	
				AKSAYAN	
				SAKSKIAN	
				AYUSOKKANIAN	
			MIDDLE		
			EARLY		
		VENDIAN			
PROTEROSOIC	LATE	RIPHEAN	LATE		

Legend units

Age	Unit / index	Description
	NORTHEASTERN OKHOTSK SFcA [2] – Tauisk-Yamsky SFcZ [2.1] – Chelomdzha SR [2.1.1]	
Holocene	$\alpha Q_H ol$	Alluvial deposits – pebble beds with sand, clay and ice, silty clay with sand, sand and sandy loam mixed with small pebble and gravel (up to 10 m); proluvial deposits (p) – rock debris with inclusions of lumps, gruss and loam, mixed with sand and pebble (up to 10 m)
Late Neopleistocene–Holocene	α,pQ_{III-H}	Alluvial and proluvial deposits – pebble beds with rock debris, sand, gruss, gravel, loam (up to 10 m); deluvial and proluvial deposits (d,p) – rock debris, lumpy rock, cobble roundstone, grusss, sandy loam, loam (up to 20 m)
Late Neopleistocene	αQ_{III}	Alluvium of terraces above floodplain of small rivers – pebble beds with boulders, sand, sandy loam, loam (up to 20 m)
Khetakagchan	$\alpha Q_{III}ht$	Alluvial deposits – pebble beds with boulders, sand often mixed with pebble and gravel, loam, sandy loam (up to 15 m)
Kubalakh	$\alpha Q_{III}kb$	Alluvial deposits – pebble beds with gravel, boulders, sand, sandy loam, loam; silt and clay lenses, (up to 60 m);); lacustrine-alluvial deposits (lα) – sand, pebble beds, gravel rock, sandy loam (up to 7 m)
Yuglersky	$fQ_{III}jg$	Glaciofluvial deposits – pebble beds, gravel rock, sand, sandy loam lenses (up to 35 m); glaciofluvial and glacial deposits (f,g) – pebble beds, cobble roundstone, sand, rock debris, gravel rock, loam, sandy loam, lumpy rock (up to 40 m)
Early Neopleistocene	αQ_I	Alluvial deposits of high terraces above floodplain – sand, clay, sandy loam, loams, pebble beds with gravel rock and gruss (up to 260 m)
Miocene	N_1	Conglomerate, pebble beds, sand, clay with coalified lignite lenses (over 180 m)
	NORTHWESTRN OKHOTSK SFcA [3] – Ulbeya SFcZ [3.1]	
Late Neopleistocene–Holocene	αQ_{III-H}	Alluvial deposits – pebble beds, gravel rock, sand, loam, clay, peat lenses (up to 15 m); deluvial and proluvial deposits (d,p) – rock debris, lumpy rock, cobble roundstone, gruss, sandy loam, loam (up to 20 m)
Khetakagchan	$fQ_{III}ht$	Glaciofluvial deposits – pebble beds, cobble roundstone, rock debris, sand, gravel rock, sandy loam (up to 15 m)
Yuglersky	$gQ_{III}jg$	Glacial deposits – lumpy cobble roundstone, pebble beds, sand, loam (up to 100 m); glaciofluvial deposits (f) – pebble beds, gravel rock, sand; sandy loam lenses (up to 35 m)
	ARKAGALA SFA [9]	
Cretaceous–Paleogene	$K_2–₽sju$	Sarga-Yuryakhsky Fm. Conglomerate, sandstone, siltstone (250–800 m)
Late Cretaceous	K_2dl	Dolginsky Fm. Conglomerate, sandstone, siltstone with coal lenses and thin layers (250–360 m)
Late Cretaceous	$\varepsilon\gamma K_2bl$, $q\mu K_2bl$, $q\xi K_2bl$	Bilikansky monzonite-syenite plutonic complex. Moderately alkaline granite, granosyenite (γξ); quartz monzonite, monzonite (μ), monzodiorite (μδ), syenite (ξ). Dykes of quartz syenite, monzonite-porphyry (μπ)
Late Cretaceous	K_2ar, $\tau\beta K_2ar$, $\tau\alpha K_2ar$	Arkagalinsky trachyandesite volcanic complex. Arkagalinsky Fm. Sandstone, siltstone, conglomerate, coal seams, tuffs of trachyriolite, trachidacite, nappes of rhyolite, dacite, trachybasalt (360–560 m). Subvolcanic formations. Trachybasalt; trachyandese
	MAIN KOLYMA PLUTONIC BELT [6]	
Late Cretaceous	νK_2vk	Verkhnyaya Kolyma monzogabbro-trachydolerite-lamprophyric group of complexes of hypabyssal small intrusions. Gabbro, moderately alkaline gabbro (εν), trachybasalts and trachydolerite (τβ) dykes
Late Cretaceous	γK_2ui, $\gamma\delta\pi K_2ui$	Uaza-insky granite plutonic complex. Granite, granodiorite (γδ). Granodiorite-porphyry, leucogranite-porphyry (lγπ) dykes
Early Cretaceous	$\alpha\zeta K_1sl$	Sylgybystakhsky andesite-dacite hypabyssal complex. Andesidacite dykes
Late Jurassic	$\varepsilon l\gamma J_3ng$	Negayakhsky complex of moderately alkaline granite. Moderately alkaline leukogranite
Late Jurassic	$l\gamma J_3k$, γJ_3s, $\gamma\pi J_3k$	Kolyma granite plutonic complex. Leucogranite, granite (γ). Granite-porphyry dykes. Siberdyksky granodiorite-granite plutonic complex. Granite, granodiorite (γδ)
Late Jurassic	δJ_3tk, γJ_3tk, $\gamma\pi J_3tk$	Tas-Kystabyt granodiorite-granite plutonic complex. Diorite, quartz diorite (qδ); granite, granodiorite (γδ), leucogranite (lγ). Granite-porphyry, granodiorite-porphyry (γδπ) dykes
Late Jurassic	δJ_3b, $\gamma\delta J_3b$, $\delta\pi J_3b$, $\gamma\pi J_3b$	Basuguninsky diorite-granodiorite plutonic complex. Diorite, quartz diorite (qδ); granodiorite, granite-porphyry (γπ), granodiorite-porphyry (γδπ), granites (γ). Dykes of diorite porphyrites; granite-porphyry, granodiorite-porphyry (γδπ)
Late Jurassic	νJ_3sh	Sokhatinsky wehrlite-gabbro plutonic complex. Gabbro
	UYANDINO-YASACHNENSKY SFA [5] – Mus-Taryn SFZ [5.1]	
Late Jurassic	$\zeta J_3u\check{c}$	Ulakhan-Chistaisky group of andesite-rhyolite volcanic complexes. Subvolcanic formations. Dacite
Middle–Late Jurassic	$J_{2-3}ks$	Kuranakh-Salinsky Fm. Rhyolite and its tuff, sandstone, tuff sandstone, siltstone, tuff siltstone (500–550 m)
	UYANDINO-YASACHNENSKY SFA [5] – Darpir SFZ [5.2]	
Paleogene	$\varepsilon\nu P_2om$, $\tau\beta P_2om$	Omulevka teschenite-trachydolerite-lamprophyric hypabyssal complex. Stocks of moderately alkaline gabbro. Dykes of trachydolerite and olivine gabbro (ν)
Early Cretaceous	βK_1ng	Volcanic series of the Nemichansky Ridge. Subvolcanic formations. Basalt and dolerite dykes
Late Jurassic	$J_3u\check{c}$, $\alpha J_3u\check{c}$, $\lambda J_3u\check{c}$, $\gamma\pi J_3u\check{c}$	Ulakhan-Chistaisky group of andesite-rhyolite volcanic complexes. Undifferentiated stratified formations: rhyolite, rhyodacite, dacite, their tuff, andesite, andesidacite and their tuff, tuff sandstones, tuff siltstone, conglomerate (1000–1200 m). Subvolcanic formations. Andesite; rhyolite, granite porphyry (γπ), dacite (ζ). Granite porphyry, rhyolite (λ) dykes
Late Jurassic	J_3vr_2	Verinsky Fm. Upper subformation. Rhyolite and rhyodacite lava, sometimes basalt covers, less often siltstone and tuff sandstone packages (500–600 m)
Late Jurassic	γJ_3kn	Canyonsky granite plutonic complex. Granites
Late Jurassic	J_3vr_1	Verinsky Fm. Lower subformation. Andesite, andesibasalt, andesidacite, basalt lava, andesite, tuff siltstone, siltstone and sandstone tuff (400–600 m)
Middle–Late Jurassic	$J_{2-3}ts$	Taskan Fm. Sandstone, siltstone, mudstone, conglomerate (320–1000 m)
	INYALI-DEBIN-SUGOI SFA [11] – Nera-Berelekh SFZ [11.1]	
Late Jurassic	$\nu\pi J_3nb$, $\gamma\delta\pi J_3nb$	Nera-Bokhapchinsky hypabyssal gabbro-porphyrite–diorite–porphyrite–granite porphyry complex. Dykes of gabbro-porphyrite, diorite-porphyrite (δπ), quartz diorite-porphyrite (qδπ); granodiorite-porphyry, granite-porphyry (γπ)
Middle–Late Jurassic	$J_{2-3}hj$	Khara-Yuryakhsky Group. Sandstone, siltstone, mudstone, often in rhythmic intercalation, tuff sandstone and conglomerate interlayers and lenses (500–1500 m)
Middle Jurassic	J_2ar_2	Artyksky Group. Upper subgroups. Sandstone (predominant), siltstone, clayey and sandy-clayey shale, conglomerate and gritstone interlayers (700–1300 m)
Early–Middle Jurassic	$J_{1-2}ar_1$	Artyksky Group. Lower subgroups. Siltstone, mudstone, sandstone (often in rhythmic intercalation), lower layers of ash tuff and siliceous mudstone (900–2600 m)
Early Jurassic	J_1br	Burustakhsky Group. Mudstone, siliceous mudstone, tuff mudstone, interlayers of tuffosilicite, tuff gritstone, sandstone (500–1200 m)
	INYALI-DEBIN-SUGOI SFA [11] – Debin-Sumunsky SFZ [11.2]	
Late Jurassic	J_3ml	Molidzhaksky Fm. Mudstone, siltstone (700–900 m)
	BAKHAPCHA-VILIGINSKY SFA [16] – Yana-Khetagchansky SFZ [16.2]	
Late Triassic	T_3bk	Burkotsky Group. Siltstone, shale, with layers and members of tuffite and tuff of andesite, ash tuff, tuff sandstone (300–1000 m)
Late Triassic	T_3md	Mandychensky Group. Mudstone, clayey and sandy-clayey shale, siltstone, in the upper part, sandstone (200–1300 m)
Middle–Late Triassic	$T_{2-3}ko_2$	Kolyma-Okhotsk Group. Upper subgroups. Siltstone and shale, at the top, members of silty and fine-grained sandstone, gritstone and conglomerates lenses (1500–2900 m)
Early Triassic	T_1ko_1	Kolyma-Okhotsk Group. Lower subgroups. Clayey, silty-clayey shale, mudstone, siltstone and clayey siltstones, interlayers of sandstone; clayey, clay-carbonate, phosphate-clay nodules (700–1900 m)
	BAKHAPCHA-VILIGINSKY SFA [16] – Tenkinsky SFZ [16.3]	
Middle–Late Triassic	$T_{2-3}ob$	Obratninsky Fm. Sandstone, siltstone, shale (2300–2500 m)
Middle Triassic	T_2is	Iskrinsky rock sequence. Sandstone, siltstone, mudstone, clayey and clayey-silt shale (1100 м)
Early Triassic	T_1bl ?	Baltinsky rock sequence. Shale, mudstone, numerous nodule, at the top, thin sandstone layers (2300–2500 m)
	BAKHAPCHA-VILIGINSKY SFA [16] – Ayan-Yuryakh SFZ [16.4]	
Middle–Late Triassic	$T_{2-3}oh$	Okhotnichy rock sequence. Silty sandstone, sandy and clayey siltstone (800 m)
Early Triassic	T_1tr	Thrussky rock sequence. Siltstone shale and siltstone; calcareous sandstone seams (600 m)
	SELENNYAKH-OMULEVKA SFA [15] – Taskan SFZ [15.1]	
Late Triassic	T_3sr ?	Serditinsky rock sequence. Sandy mudstone, siltstone, calcareous sandstone (500 m)
Middle Triassic	T_2nz	Neznaikinsky rock sequence. Shale, siltstone, limestone lenses, siliceous and phosphate-clayey nodules (400 m)
	BAKHAPCHA-VILIGINSKY SFA [16] – Titansky SFZ [16.5]	
Late Permian	P_3kl	Kulinsky Fm. Sandstone, calcareous sandstone, siltstone, mudstone, gritstone, conglomerate (500–1000 m)
Late Permian	P_3tt	Titansky Fm. Flyschoid intercalation of siltstone, mudstone, tuffite interlayers (2000 m)
Late Permian	P_3at	Atkansky Fm. Diamictite, siltstone, sandstone, tuff, gritstone, conglomerate (350–1100 m)
Middle Permian	P_2fr ?	Forelsky rock sequence. Silty mudstone with intercalations of siltstone, sandstone, sometimes turbidite (over 1500 m)
	BAKHAPCHA-VILIGINSKY SFA [16] – Khurensky SFZ [16.6]	
Late Permian	P_3dr	Druzhbinsky Fm. Sandstone, siltstone, mudstone (500 m)
Middle Permian	P_2hr	Khurensky Fm. Sandstone, siltstone, tuff siltstone, intermediate tuff, basalt lava (1200–1300 m)
Middle Permian	P_2bg ?	Beglinsky Fm. Mudstone, siltstone, sulfide nodules (1000 m)
	BAKHAPCHA-VILIGINSKY SFA [16] – Ayan-Yuryakh SFZ [16.4]	
Late Permian	P_3st	Staratelsky Fm. Mudstone; siltstone, mudstone, sandstone interlayers (800–1400 m)
Late Permian	P_3om	Omchaksky Fm. Siltstone, mudstone, sandstone, tuff and gritstone interlayers (1100–2400 m)
Early–Middle Permian	$P_{1-2}pn$	Pionersky Fm. Carbonaceous-clayey siltstone, carbonaceous mudstone, fine-grained sandstones and calcareous mudstone interlayers (2200–2850 m)
Early Permian	P_1rd ?	Rodionovsky Fm. Carbonaceous mudstone, siltstone, landslide breccias, in the upper part, flyschoid intercalation of mudstone, siltstone, sandstone (850 m)
	SELENNYAKH-OMULEVKA SFA [15] – Taskan SFZ [15.1]	
Late Permian	P_3rg	Rogachevsky Fm. Mudstone, siltstone (300–400 m)
Carboniferous–Permian	$\beta C_1–P_2t$	Taskan dolerite-gabbrodolerite hypabyssal complex. Dykes, sills, stocks of dolerite, gabbrodolerite (νβ)
Early–Middle Permian	$P_{1-2}vs_2$	Veselinsky Group, upper subgroups. Limestone, sandstone, mudstone (320–500 m)
Carboniferous–Permian	$C_1–P_1vs_1$	Veselinsky Group, lower subgroups. Siliceous siltstone and mudstone, phtanite, tuffite, tuff siltstone, calcareous siltstone (350–700 m)
	SELENNYAKH-OMULEVKA SFA [15] – Taskan SFZ [15.1]	
Late Devonian–Early Carboniferous	$D_3–C_1uv$	Ustuvalnensky Group. Calcareous and siliceous siltstone, sandstone and mudstone, interlayers of silty limestone, at the top, intercalation of organogenic-detrital limestone with siliceous siltstone and mudstone (800–1900 m)
Middle–Late Devonian	$D_{2-3}gg$	Gagievsky Group. Clayey, organogenic, sometimes sandy limestone, dolomite, marl and sedimentary breccias, at the base, conglomerate (500–1300 m)
Early Devonian	D_1ir	Iris Group. Rifogenic, pelitomorphic limestone, less often dolomite, calcareous shale, siltstone, clay limestone (1000–1800 m)
Silurian	Spr	Parallelnensky Group. Undifferentiated deposits. Intercalation of marbled limestone and dolomite, marl, carbonaceous calcareous shale, sandstone, siltstone (1300–1800 m)
Silurian	$S_{1-2}pr_2$	Parallelnensky Group. Upper subgroups. Intercalation of marbled limestone and dolomite, marl, sandstone, siltstone, carbonate conglomerate breccias, in the upper part, red calcareous sandstone, siltstone, marl (800–2100 m)
Early Silurian	S_1pr_1	Parallelnensky Group. Lower subgroups. Intercalation of carbonaceous calcareous shale, sandstone, siltstone and clayey limestone, rarely massive organogenic clastic limestone (180–350 m)
Late Ordovician	O_3om	Omulevka Group. Undifferentiated deposits. Limestone sandstone and siltstone, limestone, dolomite, carbonaceous calcareous shale and siltstone, in the roof, marl (550 m)
Late Ordovician	O_3om_2	Omulevka Group. Upper subgroups. Pelitomorphic and bioherm limestone, calcareous sandstone and siltstone, dolomite, interlayers of calcareous shale and siltstone, in the roof, marl (500–800 m)
Late Ordovician	O_3om_1	Omulevka Group. Lower subgroups. Carbonaceous clayey and calcareous shale, clayey limestone, calcareous siltstone and sandstone, marl (300–500 m)
Middle–Late Ordovician	$O_{2-3}js_2$	Yasachnensky Group. Upper subgroups. Limestone, dolomite, marl, less often calcareous shale and siltstone (800–2100 m)
Early–Middle Ordovician	$O_{1-2}js_1$	Yasachnensky Group. Lower subgroups. Clayey graptolitic shale, mudstone, siltstone, clayey, silty, and sandy limestone (1200–2400 m)
Cambrian–Ordovician	$Є_3–O_1el$?	Elekchensky Group. Limestone, calcareous sandstone and siltstone, carbonaceous clayey and calcareous shale, clayey limestone, conglomerate (over 700 m)
Late Riphean	$g\gamma\delta RF_3u$	Uochatsky migmatite-granite plutonic complex. Gneiss-granodiorite, granite; migmatite zones
Late Riphean	RF_3hb	Khoboisky rock sequence. Metasandstone, metamudstone, metabasalt, metaandesibasalt, acid tuff (over 1150 m)
	SELENNYAKH-OMULEVKA SFA [15] – Yasachnensky SFZ [15.2] – Elgenchak SR [15.2.1]	
Late Devonian	D_3sm	Seimchansky Fm. Limestone (over 300 m)
Early Silurian	$S_1\check{c}l$	Chalmaksky Fm. Siltstone, sandstone, limestone (300–400 m)
Late Ordovician	O_3tr	Tirekhtyakh Fm. Limestone, calcareous shale, sandstone, siltstone interlayers (250 m)
Late Ordovician	O_3pd	Padunsky Fm. Limestone, siltstone, calcareous shale (300–400 m)
Late Ordovician	O_3kn	Canyonsky Fm. Limestone, dolomite, calcareous shale and siltstone (550–600 m)
Late Ordovician	O_3sn	Sonsky Fm. Limestone, dolomite (1300–1400 м)
Middle Ordovician	$O_2l\check{c}$	Lachugsky Fm. Limestone, dolomite, marl (700 m)
Middle Ordovician	O_2el	Elgenchak Fm. Clayey, sandy, siltstone limestone, less often dolomite, marl, siltstone (600 m)
	SELENNYAKH-OMULEVKA SFA [15] – Yasachnensky SFZ [15.2] – Iryudiysky SR [15.2.2]	
Late Ordovician	$O_3ir÷dm$	Integrated Iryudiysky Fm., Lukavinsky and the Domeritovy rock sequences. Limestone, calcareous shale, domerite, sandstone (750 m)

Volcanic rock composition

- Acid, mainly lava
- Intermediate, mainly lava
- Acid, mainly tuffs
- Basic, mainly lava
- Volcanogenic sedimentary rocks, undifferentiated
- Hornfels and hornfelsed rock
- Migmatite (only in section)

Disjunctive dislocations

Major
- Reliable faults outcropped on the mapped surface
- Inferred faults outcropped on the mapped surface
- Reliable faults hidden under overlying formations
- Reliable thrusts
- Reliable thrusts hidden under overlying formations

Subsidiary
- Reliable faults outcropped on the mapped surface
- Inferred faults outcropped on the mapped surface
- Reliable faults hidden under overlying formations
- Inferred faults hidden under overlying formations
- Reliable thrusts
- Reliable thrusts, hidden under overlying formations
- Reliable faults – limits of volcano-tectonic depression structures, outcropped on the mapped surface
- Reliable faults – limits of volcanic-dome structures outcropped on the mapped surface

Geological boundaries

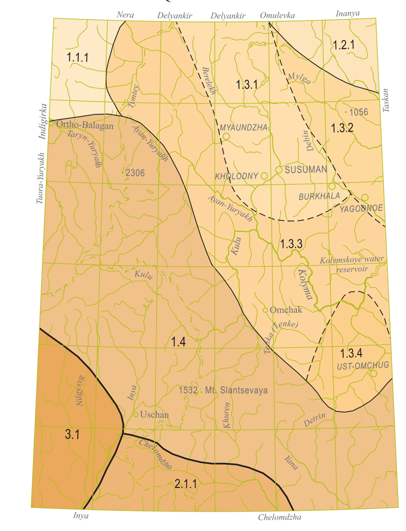
- Reliable, between formations of different age
- Inferred, between formations of different age
- Between coeval facially different formations
- Of unconformable occurrence of stratigraphic units, reliable
- Of unconformable occurrence of stratigraphic units, inferred
- Reference borehole and its list number
- 2110 Intersection points of the line of geological section A1–A3 and the reference geophysical profile 3-DV, picket numbers in km
- 2178 The intersection points of the lines of geological sections and the reference geological and geophysical profile 3-DV, station numbers in km

Sheet 3-3

MAPS OF STRUCTURAL-FACIAL AND STRUCTURAL-FORMATION ZONING

Scale 1 : 5 000 000

QUATERNARY



LEGEND

Verkhoyansk-Chukotka Structural-Facial Area (SFcA) – 1
East Verkhoyansk Structural-Facial Zone (SFcA) – 1.1
- 1.1.1 Elgi-Nera Stratigraphic Region (SR)

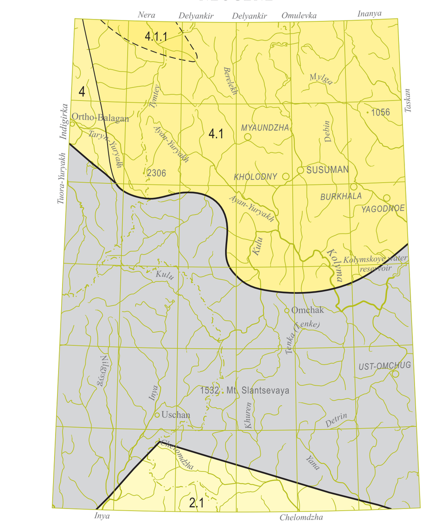
Kolyma-Indigirka SFcZ – 1.2
- 1.2.1 Moma-Selennyakh SR

Upper Kolyma SFcZ – 1.3
- 1.3.1 Berelekh SR
- 1.3.2 Taskan-Orutukan SR
- 1.3.3 Seymchan-Buyunda SR
- 1.3.4 Detrin SR
- 1.4 Okhotsk-Kolyma SFcZ

Northeastern Okhotsk SFcA – 2
Tauisk-Yamsky SFcZ – 2.1
- 2.1.1 Chelomdzha SR

Northwestrn Okhotsk SFcA – 3
- 3.1 Ulbeya SFcZ

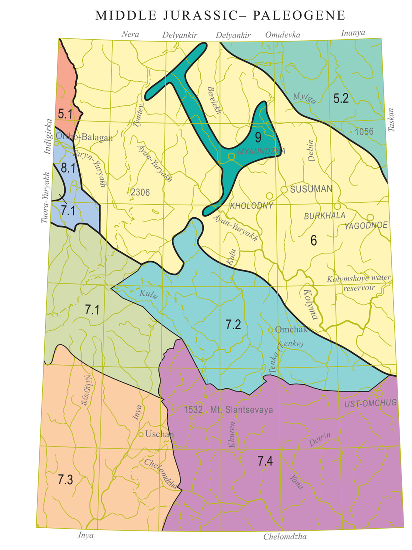
NEOGENE



LEGEND

Northeastern Okhotsk SFcA – 2
- 2.1 Tauisk-Yamsky SFcZ
- 4 Verkhoyansk-Kolyma SFcA
- 4.1 Yana-Kolyma SFcZ
- 4.1.1 Dzhelkan SR

MIDDLE JURASSIC– PALEOGENE



LEGEND

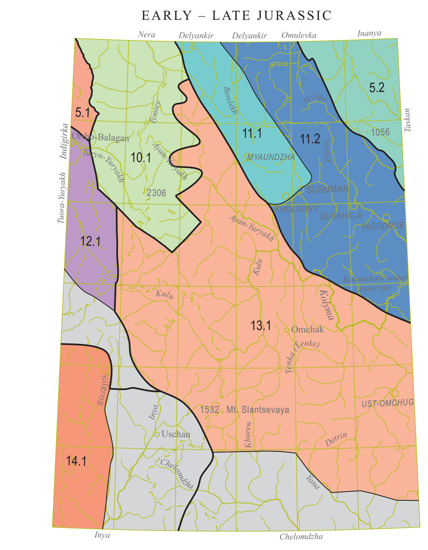
Uyandino-Yasachnensky Structural-Formational Area (SFA) – 5
- 5.1 Mus-Taryn Structural-Formational Zone (SFZ)
- 5.2 Darpir SFZ

Main Kolyma Plutonic Belt
- 6 Distribution areal of magmatic formations of the belt

North-east Magmatic Area (MA) – 8
- 8.1 Sarychevsky Magmatic Region (MR)

Okhotsk-Chukotka SFA - 7
- 7.1 Kuidusun SFZ
- 7.2 Neryuchi-Detrin SFZ
- 7.3 Central Okhotsk SFZ
- 7.4 Yana-Evensky SFZ
- 9 Arkagala SFA

EARLY – LATE JURASSIC



LEGEND

Uyandino-Yasachnensky SFA – 5
- 5.1 Mus-Taryn SFZ
- 5.2 Darpir SFZ

Yana-Kolyma SFA – 10
- 10.1 Taryn SFZ

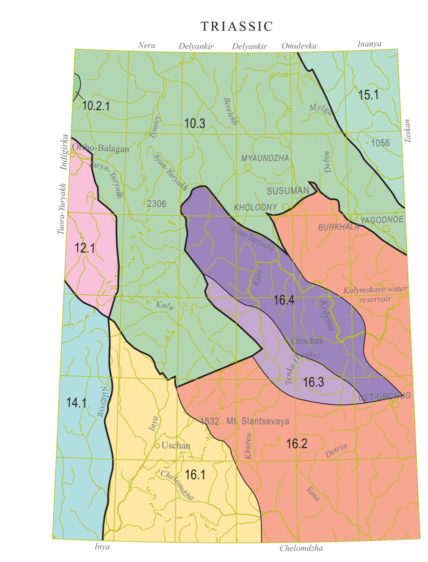
Inyali-Debin-Sugoi SFA – 11
- 11.1 Nera-Berelekh SFZ
- 11.2 Debin-Sumunsky SFZ

South Verkhoyansk SFA – 12
- 12.1 Kobyuminsky SFZ

Arman-Viliginsky SFA – 13
- 13.1 Yana-Khetagchansky SFZ

Okhotsk SFA – 14
- 14.1 Central Okhotsk SFZ

TRIASSIC



LEGEND

Yana-Kolyma SFA – 10
Yana-Adychansky SFZ – 10.2
- 10.2.1 Elginsky SR
- 10.3 Kulu-Berelekh SFZ

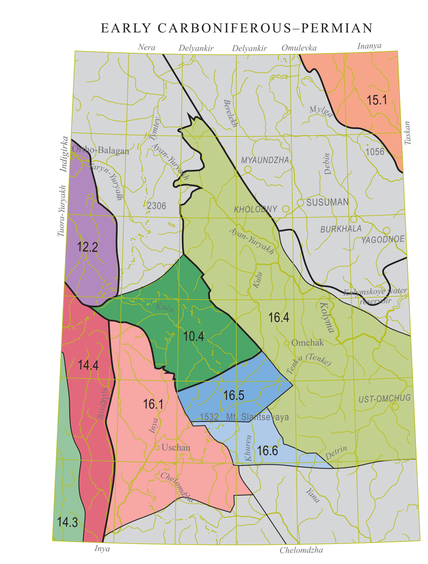
South Verkhoyansk SFA – 12
- 12.1 Kobyuminsky SFZ

Okhotsk SFA – 14
- 14.1 Central Okhotsk SFZ

Selennyakh-Omulevka SFA – 15
- 15.1 Taskan SFZ

Bakhapcha-Viliginsky SFA – 16
- 16.1 Insky SFZ
- 16.2 Yana-Khetagchan SFZ
- 16.3 Tenkinsky SFZ
- 16.4 Ayan-Yuryakh SFZ

EARLY CARBONIFEROUS–PERMIAN



LEGEND

Yana-Kolyma SFA – 10
- 10.4 Kulinsky SFZ

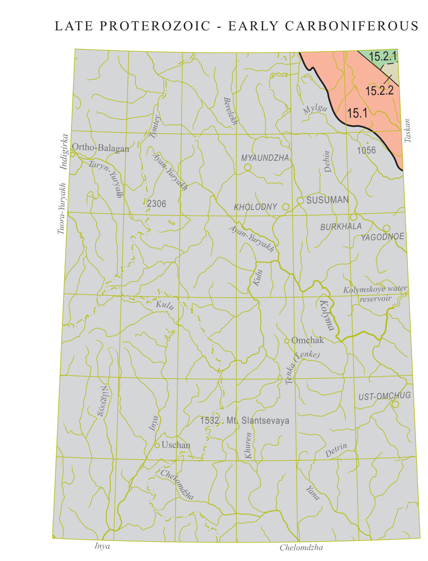
South Verkhoyansk SFA – 12
- 12.2 South Verkhoyansk SFZ

Okhotsk SFA – 14
- 14.3 Kukhtuy-Ulbeya SFZ
- 14.4 Nyutsky SFZ

Selennyakh-Omulevka SFA – 15
- 15.1 Taskan SFZ

Bakhapcha-Viliginsky SFA – 16
- 16.1 Inskaya SFZ
- 16.4 Ayan-Yuryakh SFZ
- 16.5 Titansky SFZ
- 16.6 Khurensky SFZ

LATE PROTEROZOIC - EARLY CARBONIFEROUS



LEGEND

Selennyakh-Omulevka SFA – 15
- 15.1 Taskan SFZ

Yasachnensky SFZ – 15.2
- 15.2.1 Elgenchak SR
- 15.2.2 Iryudiysky SR

Areas where formations of a given age are absent or not established

Boundaries
- Of structural-facial, structural-formational and magmatic areas, plutonic belts
- Of structural-facial, structural-formational zones and magmatic regions
- Stratigraphic regions

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