QUATERNARY REMOVED GEOLOGICAL MAP

(KYRGYZ RANGE AND CHU BASIN) KYRGYZSTAN
Scale 1 : 200 000

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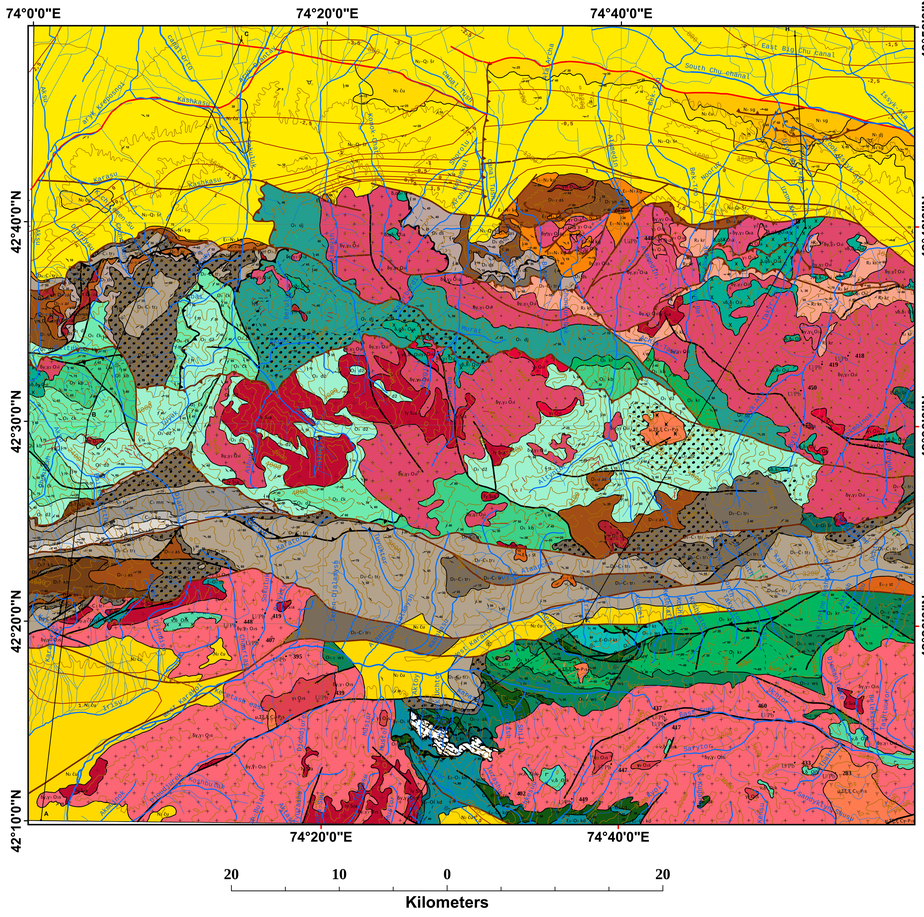

Source: N.B. Baeva, 1999; S.A. Chekina et al., 1975, 1983; A.A. Cherepanov,1963; V.V. Galanin et al. 1982; V.A. Grishchenko, 1965; F.N. Judakhin et al., 1968; S.E. Khristov, 1986; T.D. L 'yanov, 1997; V.G. Morozov, 1986; A.D. Pavlenkin et al., 1973; V.I. Rubtsov, 1988; I.L. Zakharov, 1981, 1992 & present researches

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Edited by J-P. Burg

- Quaternary faults
- Neotectonic faults
- Neotectonic thrusts
- Paleozoic faults
- Paleozoic thrusts
- Minor Boundary
- Basement isodepth lines (km)

- Conglomerate
- Gabbro
- Gabbro-diorite
- Monzonite
- Nepheline syenite
- Diorite
- Granodiorite
- Granite
- Leucocratic granite
- Granite porphyry

- Orientation of bedding planes
- Orientation of foliation planes
- Orientation of overturned planes
- Algae
- Flora
- Invertebrate
- Vertebrate
- Vertebrate (probable location)

- U/Pb age
- Cross Section
- Rivers
- Small rivers
- Tributaries
- Altitude-400

Legend

- Sharpyldak Formation, Late Pliocene - Eearly Pleistocene (N-Q $_{1}$šr). Grey conglomerates, gritstones, sandstones
- Chu Formation, Eearly Pliocene (N $_{2}$ču). Motley mudstone, and grey sandstones, gritstones
- Saryagach Formation, Late Miocene (N $_{2}$sg). Sandstones, motley siltstones
- Djel'dysu Formation, Miocene (N $_{1}$dj). Mudstone, silts, sandstones
- Kyrgyz Redstone Formation, Paleocene-Miocene (E $_{1}$-N $_{1}$kg). Limestones, clay, sandstones and conglomerates
- Suluterek Formation, Paleocene-Eocene (E $_{1-2}$st). Limestones, marls, clay with conglomerate beds

LATE PALEOZOIC STRUCTURAL COMPLEX

- Sandyk Formation, Late Carboniferous - Eearly Permian (μ,Σξ,ξ C$_{3}$-P$_{1}$s). Monzonite, nepheline-syenite, syenite, quartz-syenite
- Djanbulak Formation, Middle Carboniferous (C $_{2}$db). Rhyolite tuffs, sandstones, limestones
- Kegaty Formation, Eearly – Middle Carboniferous (C $_{1-2}$kg). Limestones, andesitic tuffs, dacites, rhyolites, siltstones,
- Minteke Formation, Eearly Carboniferous (C $_{1}$mn). Motley dacitic tuffs, rhyolites, siltstones and limestones
- Torsu Formation, Late part, Late Devonian - Eearly Carboniferous (D$_{3}$-C$_{1}$ tr$_{1}$)$_{2}$Reddish siltstones and sandstones
- Torsu Formation, Eearly part, Late Devonian - Eearly Carboniferous (D$_{3}$-C$_{1}$ tr$_{1}$)$_{1}$Sandstones, gritstones, conglomerates
- Djardysu Formation, Late Devonian (D $_{3}$ds). Sandstones, siltstones and limestones
- Aral Formation, Middle - Late Devonian (D $_{2-3}$ar). Basalts, andesite-basalts and tuffs
- Aksu Formation, Eearly - Middle Devonian (D $_{1-2}$as). Rhyolites, dacitic lavas and tuffs
- Aksu Formation, intrusive phase, Early - Middle Devonian (γπ D$_{1-2}$a). Granitic and granodioritic porphyries
- Sugandy Formation, Eearly Devonian (D $_{1}$sn). Basalts, andesites and tuffs
- Kolbashy Formation, Eearly ? Devonian (D ?kb). Trachytes, leucite basalts, tuffs

LATE ORDOVICIAN – SILURIAN STRUCTURAL COMPLEX

- Alama Formation, Late Silurian (l γ S$_{2}$a). Leucocratic granite, granite porphyries
- Issykata Formation, phase 3, Late Ordovician (γ $_{3}$O$_{3}$j). Granites
- Issykata Formation, phase 2, Late Ordovician (δγ,γ$_{2}$O$_{3}$j). Granodiorites, granites
- Issykata Formation, phase 1, Late Ordovician (vδ,δ$_{1}$O$_{3}$j). Gabbro-diorites, diorites, quartz-diorites
- Suusamyr Formation, phase 2, Late Ordovician (γ $_{2}$O$_{3}$s). Granites
- Suusamyr Formation, phase 1, Late Ordovician (δγ,γ$_{1}$O$_{3}$s). Granodiorites, granites
- Djartash Formation, Late Ordovician (O $_{3}$dž). Limestones, sandstones and gritstones
- Chonkaindy Formation, Late Ordovician(O $_{3}$čk). Sandstones, siltstones and shales
- Karabalta Formation, Late Ordovician (O $_{3}$kb). Sandstones, siltstones and shales
- Karamoynok Formation, Late Ordovician (O $_{3}$kr). Conglomerates, sandstones
- Melange, Late Ordovician (m O $_{3}$). Serpentinites, blocks of gabbro, limestones, schists

EARLY – MIDDLE ORDOVICIAN STRUCTURAL COMPLEX

- Kazyk Formation, Middle Ordovician (v,δ O$_{2}$k). Gabbro, diorites
- Westsuek Formation, Eearly - Middle Ordovician (O $_{1-2}$ws). Sandstones, siltstones, andesitic and dacitic tuffs
- Aktoy Formation, Eearly - Middle Ordovician (O $_{1-2}$ak). Siltstones, cherts, andesitic and dacitic tuffs
- Dolon Formation, Eearly Ordovician (O $_{1}$dl). Olistostrome

CAMBRIAN – TREMADOCIAN STRUCTURAL COMPLEX

- Alamedin Formation, phase 3, Early Ordovician (γ$_{3}$O$_{1}$a). Granites
- Alamedin Formation, phase 2, Early Ordovician (δγ,γ$_{2}$ O$_{1}$a). Granodiorites, granites
- Alamedin Formation, phase 1, Early Ordovician (δ,qδ$_{1}$ O$_{1}$a). Diorites, quartz-diorites
- Djelamysh Formation, Eearly Ordovician (O $_{1}$dj). Conglomerates, gritstones, sandstones
- Karadjorgo Formation, Late Cambrian - Early Ordovician (Є$_{3}$–O$_{1}$ kd). Chery and green tuff siltstone, cherts, andesitic tuffs
- Shyrgyi Formation, Cambrian - Eearly Ordovician (ЄO $_{1}$šr). Andesites, tuffs
- Toraygyr Formation, Cambrian – Eearly Ordovician (Є-O $_{1}$tr). Limestones, dolomites, marbles, shales
- Kentor Formation, Cambrian – Eearly ? Ordovician (Є-O ?kt). Subalkaline basalts, tuffs, cherts
- Karakatty Formation, Cambrian (Єkr). Basalts, cherts

LATE PROTEROZOIC COMPLEX

- Karakorum Formation, Late Riphean (R $_{3}$kr). Aporhyolite and apodacite schists

DIKES

- Permian dike Formation (δπ,χ P). Lamprophyre
- Sandyk Formation, Late Carboniferous - Early Permian (ξπ C$_{3}$-P$_{1}$s). Syenite porphyries
- Aksu Formation, intrusive phase, Early - Middle Devonian (γπ D$_{1-2}$a). Granite porphyries, quartz porphyries
- Sugandy Formation, intrusive phase, Eearly Devonian (δπ D$_{1}$s). Diorite porphyrites
- Kolbashy Formation, intrusive phase, Early ? Devonian (μπ D$_{1}$?k). Monzonite porphyries