

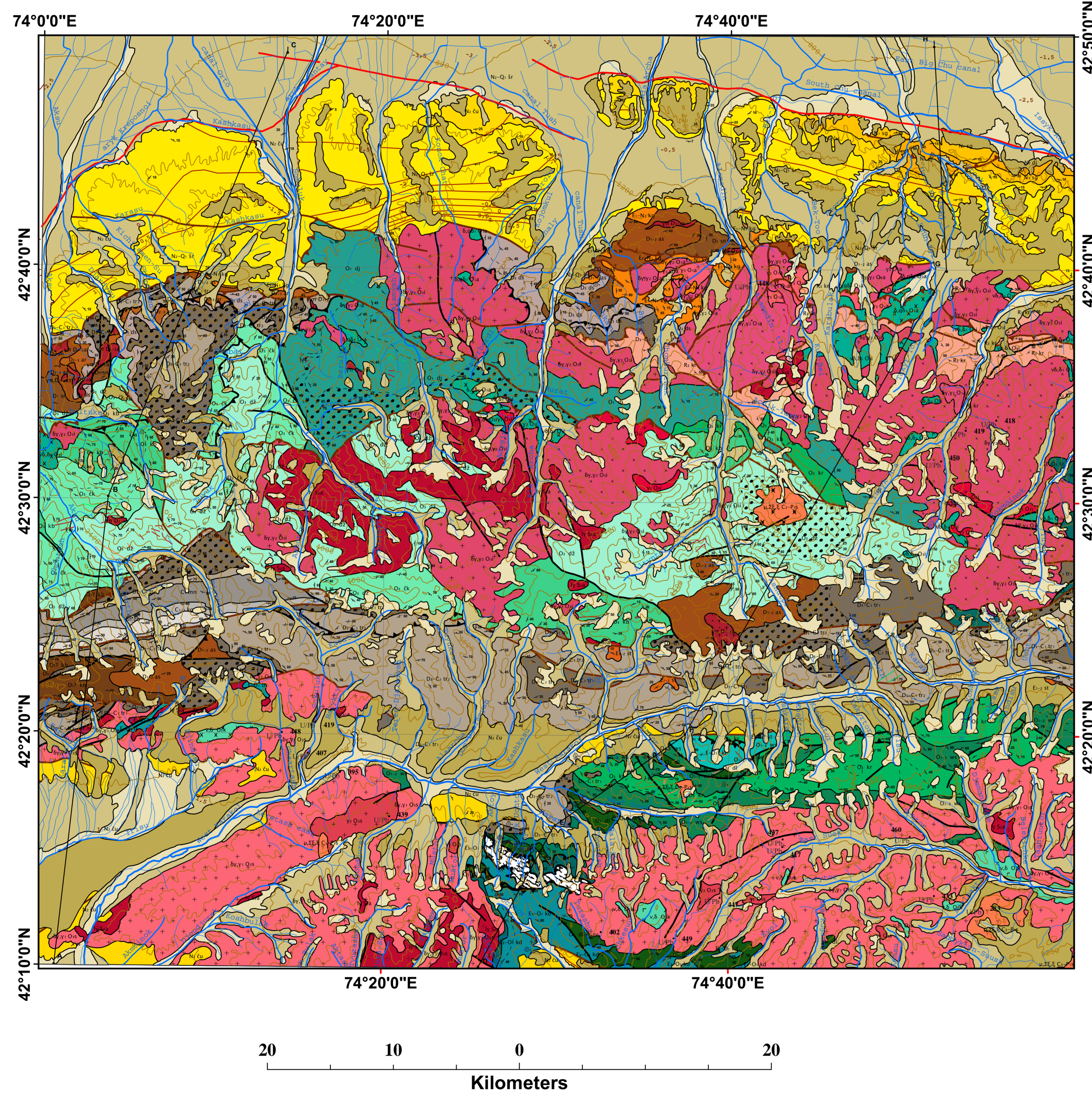
GEOLOGICAL MAP

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

SNF, Project No 7KSPJ065518
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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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|------------------------------|-------------------|---------------------|----------------------------------|---------------|
| Quaternary faults | Conglomerate | Diorite | Orientation of bedding planes | U/Pb age |
| Neotectonic faults | Gabbro | Granodiorite | Orientation of foliation planes | Cross Section |
| Neotectonic thrusts | Gabbro-diorite | Granite | Orientation of overturned planes | Rivers |
| Paleozoic faults | Monzonite | Leucocratic granite | Algae | Small rivers |
| Paleozoic thrusts | Nepheline syenite | Granite porphyry | Flora | Tributaries |
| Minor Boundary | | | Invertebrate | Altitude-400 |
| Basement isodepth lines (km) | | | Vertebrate | |
| | | | Vertebrate (probable location) | |

Legend

- Holocene deposits
- Middle Pleistocene deposits
- Upper Pleistocene deposits
- Sharpyldak Formation, Late Pliocene - Early Pleistocene (N-Q₁šr). Grey conglomerates, gritstones, sandstones
- Chu Formation, Early Pliocene (N₂čū). Motley mudstone, and grey sandstones, gritstones
- Saryagach Formation, Late Miocene (N₃şg). Sandstones, motley siltstones
- Djel'dysu Formation, Miocene (N₄đj). Mudstone, silts, sandstones
- Kyrgyz Redstone Formation, Paleocene-Miocene (E-N₁kg). Limestones, clay, sandstones and conglomerates
- Suluterek Formation, Paleocene-Eocene (E₁st). Limestones, marls, clay with conglomerate beds
- LATE PALEOZOIC STRUCTURAL COMPLEX**
- Sandyk Formation, Late Carboniferous - Early Permian (μ,Σξξ,ξ C₃-P₁s). Monzonite, nepheline-syenite, syenite, quartz-syenite
- Djanbulak Formation, Middle Carboniferous (C₂đb). Rhyolite tuffs, sandstones, limestones
- Kegaty Formation, Early - Middle Carboniferous (C₁kg). Limestones, andesitic tuffs, dacites, rhyolites, siltstones,
- Minteke Formation, Early Carboniferous (C₁mn). Motley dacitic tuffs, rhyolites, siltstones and limestones
- Torsu Formation, Late part, Late Devonian - Early Carboniferous (D-Ç₁tr)₂ Reddish siltstones and sandstones
- Torsu Formation, Early part, Late Devonian - Early Carboniferous (D-Ç₁tr)₁ Sandstones, gritstones, conglomerates
- Djardysu Formation, Late Devonian (D₂đs). Sandstones, siltstones and limestones
- Aral Formation, Middle - Late Devonian (D₂ar). Basalts, andesite-basalts and tuffs
- Aksu Formation, Early - Middle Devonian (D₁as). Rhyolites, dacitic lavas and tuffs
- Aksu Formation, intrusive phase, Early - Middle Devonian (γπ D₁₋₂a). Granitic and granodioritic porphyries
- Sugandy Formation, Early Devonian (D₁sn). Basalts, andesites and tuffs
- Kolbashy Formation, Early ? Devonian (D₁kb). Trachytes, leucite basalts, tuffs
- LATE ORDOVICIAN - SILURIAN STRUCTURAL COMPLEX**
- Alama Formation, Late Silurian (I₁γ S₂a). Leucocratic granite, granite porphyries
- Issykata Formation, phase 3, Late Ordovician (γ₃O₃đ). Granites
- Issykata Formation, phase 2, Late Ordovician (δγ,γ₂O₃đ). Granodiorites, granites
- Issykata Formation, phase 1, Late Ordovician (vδ,δ₁O₃đ). Gabbro-diorites, diorites, quartz-diorites
- Suusamyр Formation, phase 2, Late Ordovician (γ₂O₃đ). Granites
- Suusamyр Formation, phase 1, Late Ordovician (δγ,γ₁O₃đ). Granodiorites, granites
- Djartash Formation, Late Ordovician (O₃đž). Limestones, sandstones and gritstones
- Chonkaindy Formation, Late Ordovician (O₃čk). Sandstones, siltstones and shales
- Karabalta Formation, Late Ordovician (O₃kb). Sandstones, siltstones and shales
- Karamoynok Formation, Late Ordovician (O₃kr). Conglomerates, sandstones
- Melange, Late Ordovician (m O₃). Serpentinites, blocks of gabbro, limestones, schists
- EARLY - MIDDLE ORDOVICIAN STRUCTURAL COMPLEX**
- Kazyk Formation, Middle Ordovician (v,δ O₂k). Gabbro, diorites
- Westsuek Formation, Early - Middle Ordovician (O₁ws). Sandstones, siltstones, andesitic and dacitic tuffs
- Aktoy Formation, Early - Middle Ordovician (O₁ak). Siltstones, cherts, andesitic and dacitic tuffs
- Dolon Formation, Early Ordovician (O₁dl). Olistostrome
- CAMBRIAN - TREMADOCIAN STRUCTURAL COMPLEX**
- Alamedin Formation, phase 3, Early Ordovician (γ₃O₁a). Granites
- Alamedin Formation, phase 2, Early Ordovician (δγ,γ₂O₁a). Granodiorites, granites
- Alamedin Formation, phase 1, Early Ordovician (δ,qδ₁O₁a). Diorites, quartz-diorites
- Djelamysh Formation, Early Ordovician (O₁đj). Conglomerates, gritstones, sandstones
- Karadjorgo Formation, Late Cambrian - Early Ordovician (ε₃-O₁kd). Cherty and green tuff siltstone, cherts, andesitic tuffs
- Shyrgyi Formation, Cambrian - Early Ordovician (ε₂šr). Andesites, tuffs
- Toraygyr Formation, Cambrian - Early Ordovician (ε-O₁tr). Limestones, dolomites, marbles, shales
- Kentor Formation, Cambrian - Early ? Ordovician (ε-O₁?kt). Subalkaline basalts, tuffs, cherts
- Karakatty Formation, Cambrian (εkr). Basalts, cherts
- LATE PROTEROZOIC COMPLEX**
- Karakorum Formation, Late Riphean (R₁kr). Aporhyolite and apodacite schists
- DIKES**
- Permian dike Formation (δπ,χ P). Lamprophyre
- Sandyk Formation, Late Carboniferous - Early Permian (ξπ C₃-P₁s). Syenite porphyries
- Aksu Formation, intrusive phase, Early - Middle Devonian (γπ D₁₋₂a). Granite porphyries, quartz porphyries
- Sugandy Formation, intrusive phase, Early Devonian (δπ D₁s). Diorite porphyrites
- Kolbashy Formation, intrusive phase, Early ? Devonian (μπ D₁?k). Monzonite porphyries