



# Kyrgyzstan



The cosmic charm of heavenly mountains



# Kyrgyzstan



## Paleozoic geodynamics of the Central Tien Shan sector



### Geology

Kyrgyzstan is located on the southern edge of the Paleozoic continent Laurasia. The accretionary wedge of this area formed in Paleo-Tethyan basins, from subduction of oceanic crust under island arcs and then subsequent Paleozoic collision.

The accretionary process was accompanied by thrust development, multi-stage deformation and high pressure metamorphism.

Tour participants will acquire knowledge of structural features, metamorphic processes, and the sedimentological and geochronological aspects of the Paleozoic accretionary wedge.

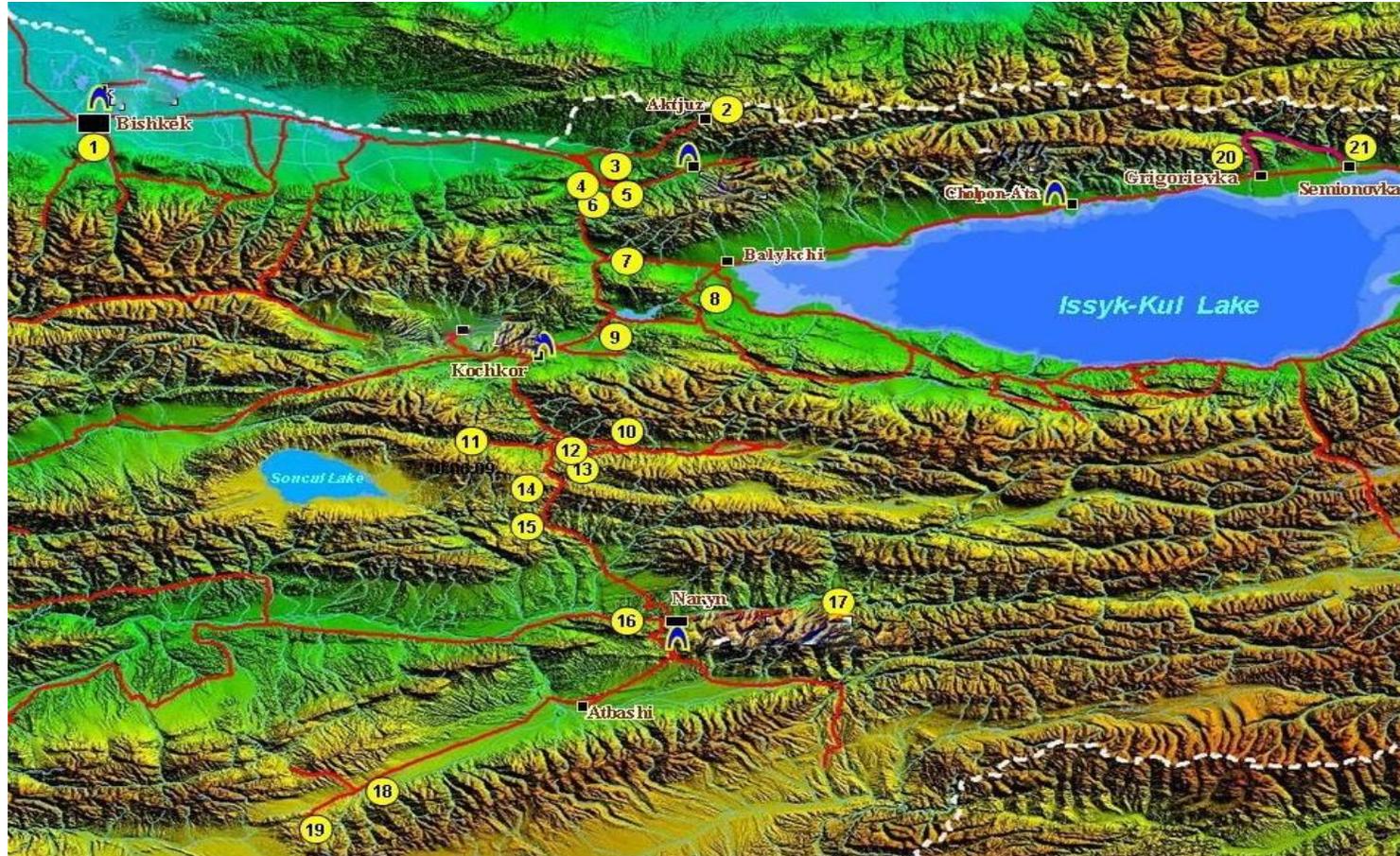
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# Kyrgyzstan

## Paleozoic geodynamics of the Central Tien Shan



### Sites to visit, schedules and prices

The group will visit in 8 working days, 21 key geological sites representing the overall structures and terrane rocks. The sites are located along a N-S profile, encompassing the whole picture of the crust's structure in the Northern, Middle, and Southern Tien Shan. Transportation by 4WD minibus. The prices range from 1,250 to 4,800 USD per person, including meals, lodging and transportation. Extra activities can be included in the program on request including horse riding, mountain trout fishing, and visits to historical and ethnic sites.

To enquire about this tour please contact us by e-mail or Skype. A more detailed tour description will be provided on request.

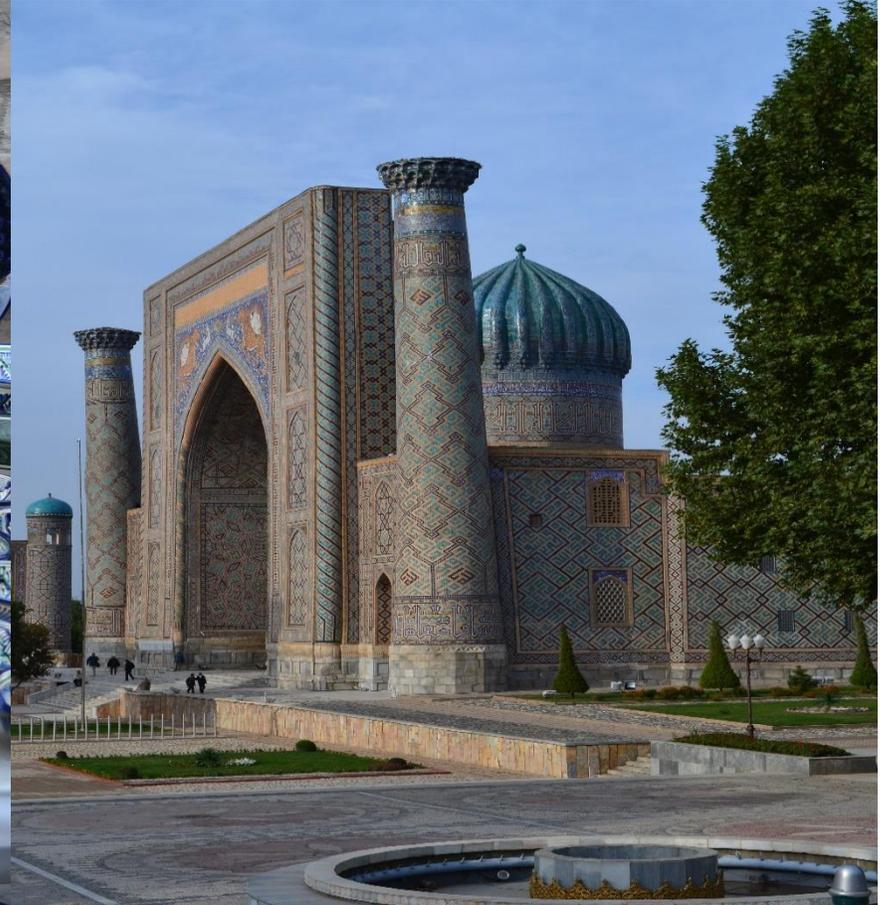
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# Uzbekistan

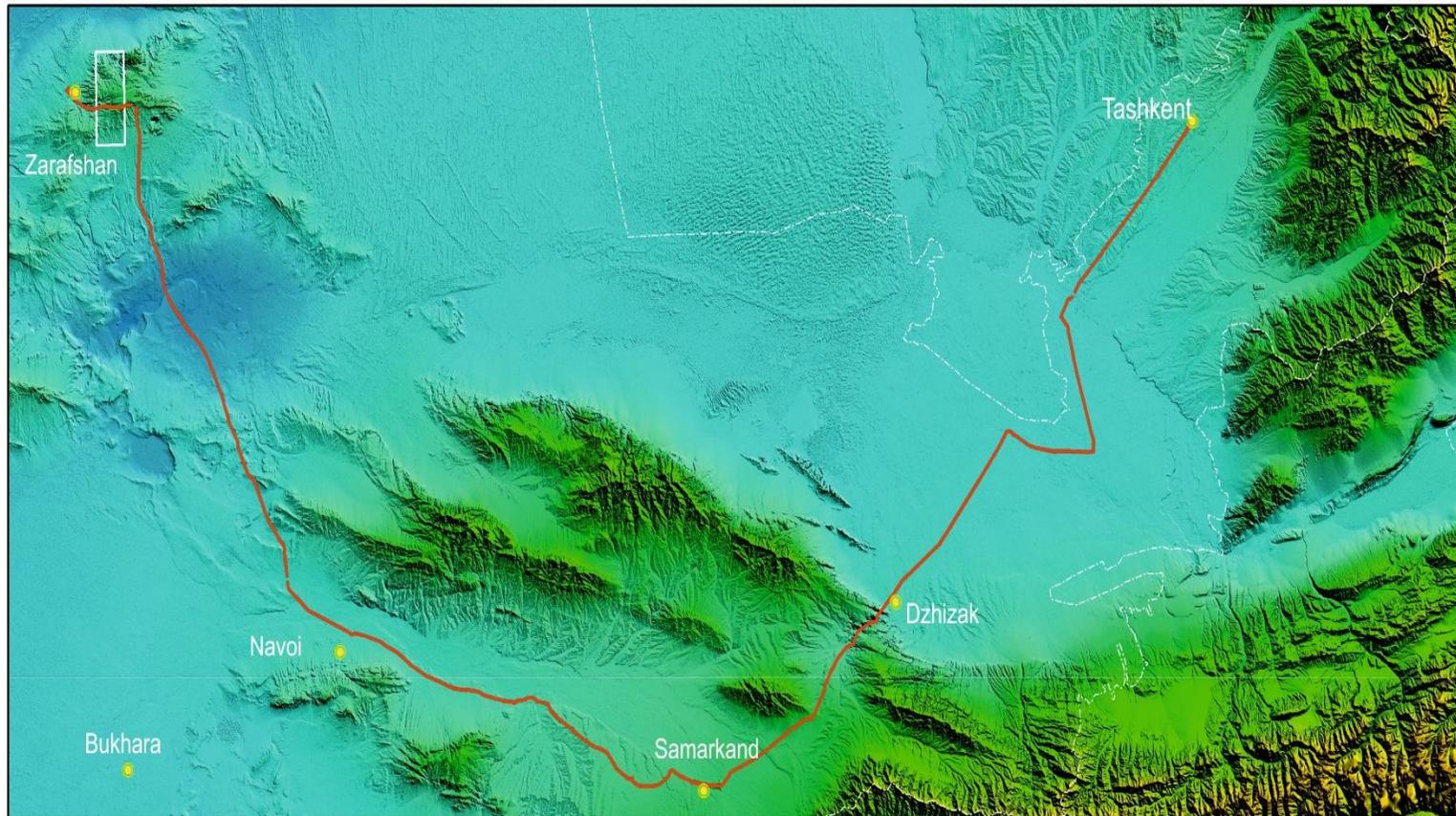
Life along the blue river banks



# Uzbekistan



## Paleozoic geodynamics of the Western Tien Shan



### Geology

The Central Kyzyl Kum is part of a late Paleozoic platform, where folded basement composed of sedimentary, metamorphic and igneous rocks formed from the late Proterozoic to the late Paleozoic Era.

The basement rocks of the Tien Shan orogeny were uplifted through faulting of the platform sediments. These formed isolated hills of up to 1000 m elevation. The largest of them, Mount Tamdytau, is an important mining area, hosting the large gold deposit, Muruntau.

The rocks were formed through early and late stage accretionary processes during the subduction of Turkestan oceanic crust. Accretion was followed by thrust development, multi-stage deformation and high pressure metamorphism. The Tamdytau area is the first clear evidence of Early Paleozoic accretions in the south Tien Shan.

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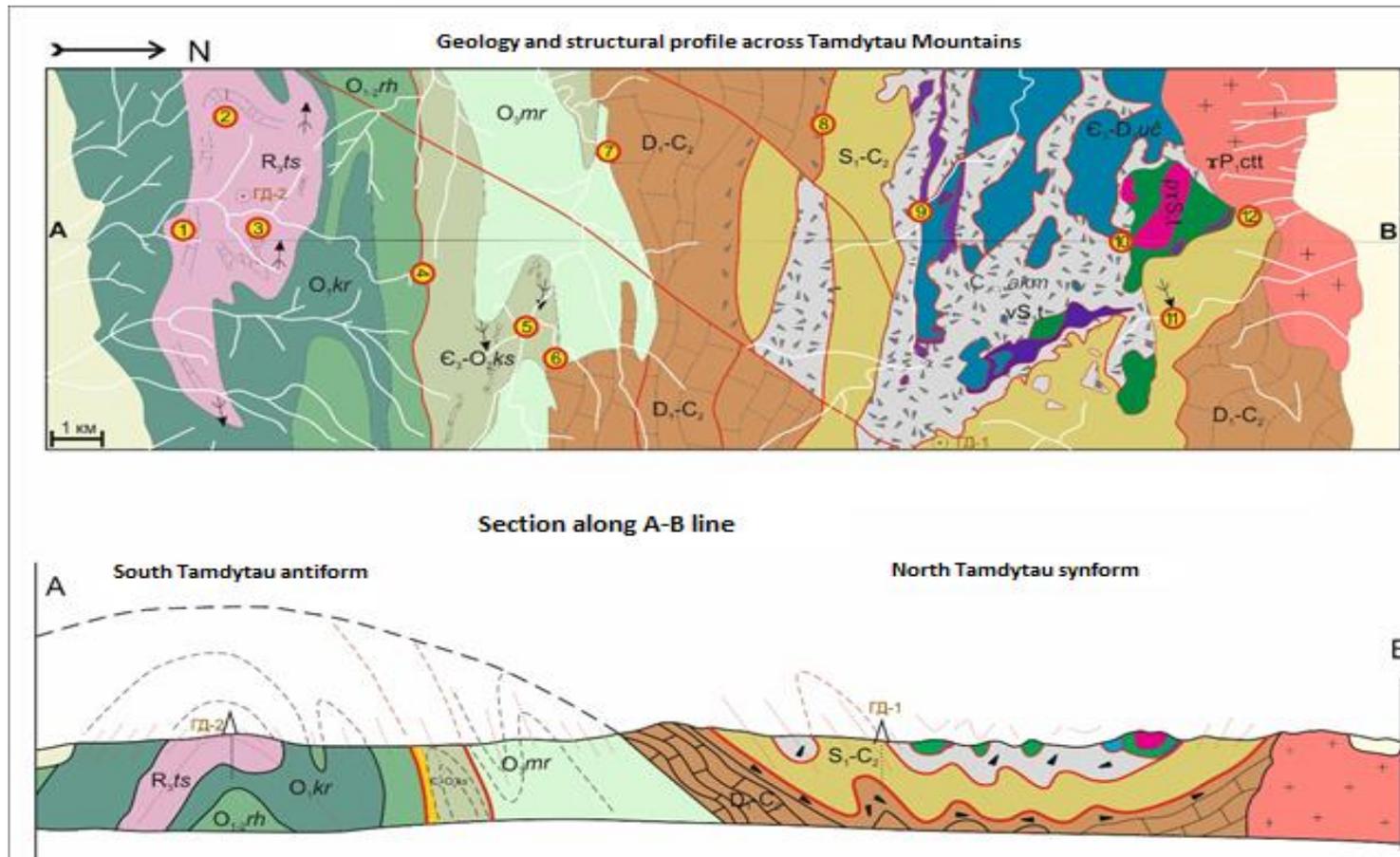
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# Uzbekistan



## Paleozoic geodynamics of the Western Tien Shan



## Sites to visit, schedules and prices

Geological tours of the Kyzylkum desert (mountains Tamdytau and vicinity) of the Paleozoic accretionary wedge (formed in the Silurian and Middle Carboniferous). The accretionary wedge was formed in the equatorial region between the Kipchak island arc and Alay-Tarim micro-continent (Turkestan paleo ocean). Tour participants will visit 12 sites representing the key geological structures of Tamdytau mountains over 10 working days. The sites are located along a North South profile, displaying the whole geology of the Tamdytau structure. In addition, the tour includes a one-day visit to one of the big gold deposits (Muruntau, Daugyztau or Kokpatas).

Tour prices are up to 4,800 USD per person, including meals, lodging and transportation. Extra activities can be included in the program on request including city tours of Tashkent, Samarkand, Bukhara.

To enquire about this tour please contact us by e-mail or Skype. A more detailed tour description will be provided on request.

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# Kazakhstan

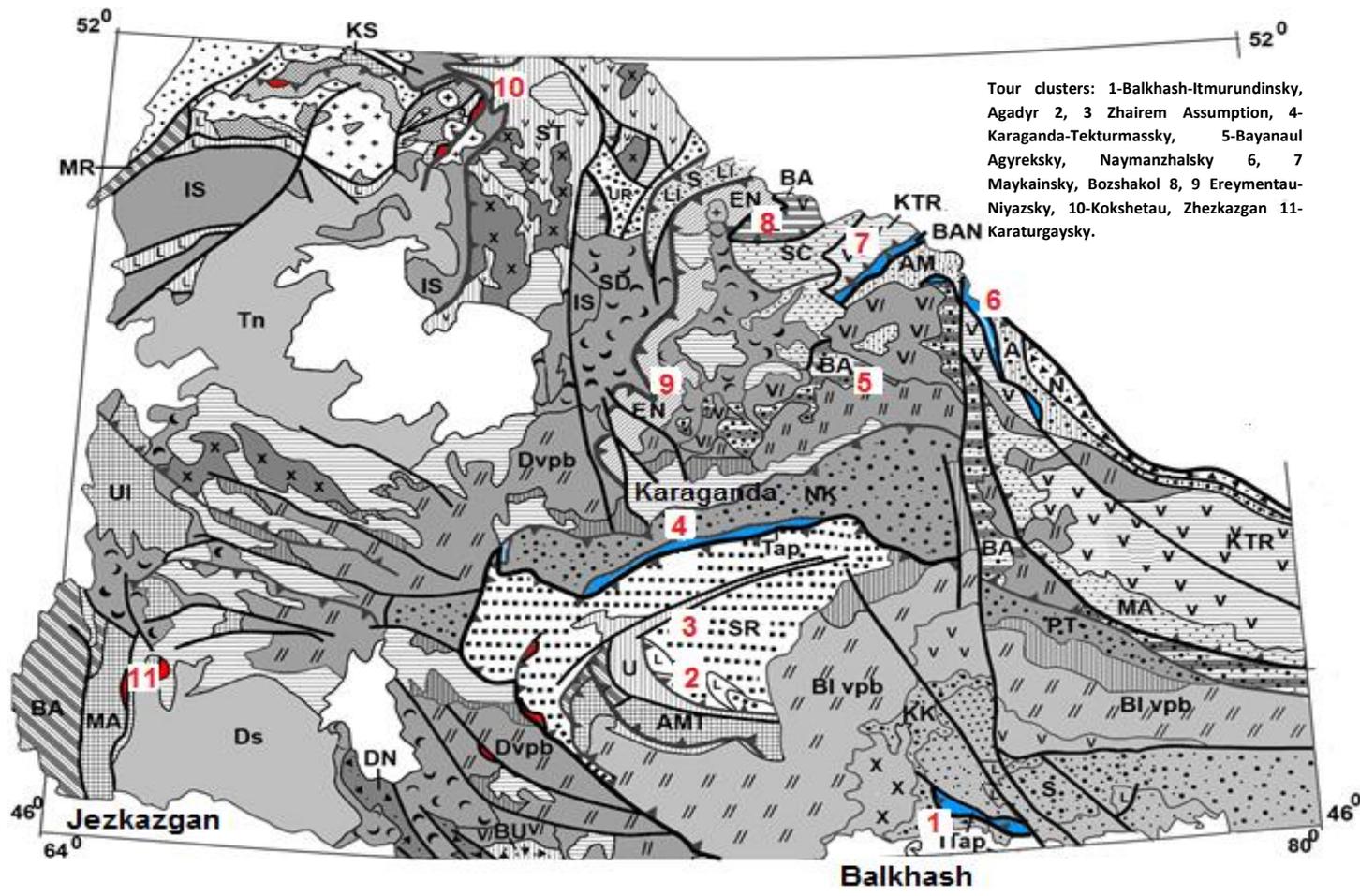
Endless vast of forests, steppes and lakes





# Kazakhstan

## Geology and geodynamics of the Central Kazakhstan ophiolites



### Geology

The ophiolite complex of Kazakhstan is an important element of the Central Asian Orogenic Belt. A study of the composition of rocks and minerals shows that the Paleozoic ophiolites of Central Kazakhstan were formed in different geodynamic settings ; continental rifting and oceanic rifting within back-arc and foreland basins and within the volcanic arc basement. Paleomagnetic studies show that Kazakhstan's Paleozoic island arcs were formed at considerable distances from each other. The mafic-ultramafic ophiolite complexes are sources of chromite, nickel sulfide, iron, and gold-platinum-palladium ore.

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# Kazakhstan



## Geology and geodynamics of the Central Kazakhstan ophiolites



### Sites to visit, schedules and prices

The tour offers over 10 excursions lasting from 4 to 12 days each. Participants will obtain field experience in recognizing geological complexes, and understanding of where and how paleo-oceans originate and end. In addition they will learn what geological complexes mark the convergence zone of tectonic plates and the the formation of accretionary prisms during subduction. Participants will have the opportunity to collect interesting minerals and touch the Earth's upper paleo-mantle.

Extra activities can be included in the program on request including camel riding, fishing, and visits to historical and cultural sites.

The cost of the tour per person depends on the availability of sites. For example, part (11) the Zhezkazgan-Karaturgayskoy excursion, costs around 10,000 USD and Part (4), the Karaganda Tekturmasskoy excursion costs around 600 USD for six working days.

To enquire about this tour please contact us by e-mail or Skype. A more detailed tour description will be provided on request.

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# Tajikistan

Living next to the blue sky



# Tajikistan

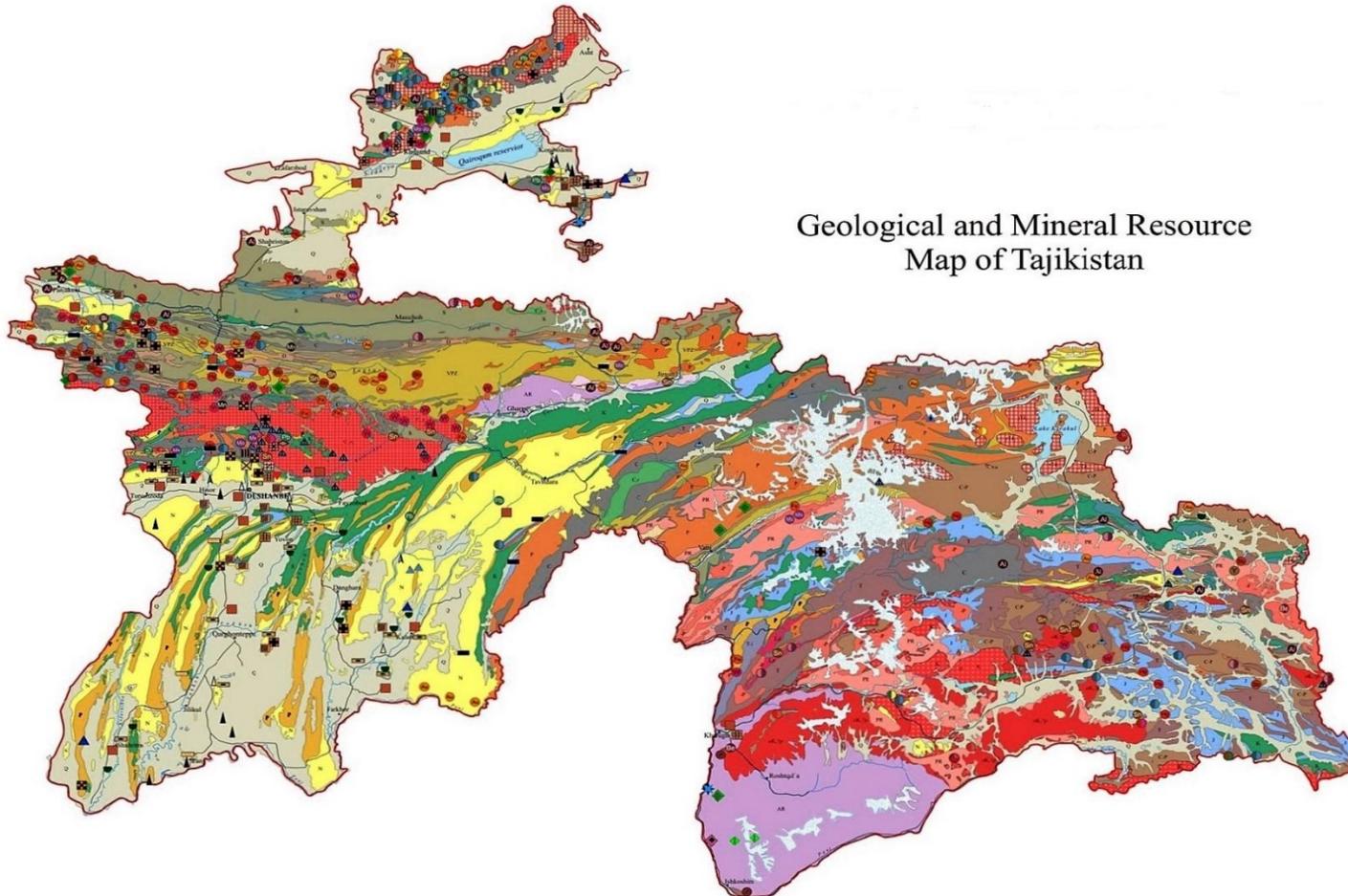
## Collisional processes and mineral resources



### Geology

The Indo-Asian collision has created a complex structure of the unique Pamir-Tien Shan orogeny. The polycyclic history of the orogeny over 3 billion years and associated processes has given rise to an abundance of minerals deposits: precious metals and stones, base metals, non-ferrous (Sb-Hg), rare metals (W, Sn, Ta-Nb, Li-Cs), platinum group metals, fluorite, barite, coal and others. Many of them have been mined such as the Zarafshan, Anzob and Adrasman deposits.

Excursions are not solely for the basis of tourism, but also to conduct scientific and business research. This results of which may be the basis for large investments in this enormous underexplored territory. It is speculated there are mineral resources of up to 50 K tonnes of silver and 7.4 million tonnes of  $B_2O_3$ .



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# Tajikistan

## Collisional processes and mineral resources



### Sites to visit, schedules and prices

The geological tours take place in Central Tajikistan (Fan Mountains) within the Paleozoic high pressure zone and the Pamirs, which consist mainly of Mesozoic-Tethys rocks. Excursions give the possibility to study the sedimentology, structural geology, magmatism and metamorphism of the rocks exposed to multi-stage deformational processes.

The tour consists of a guided group of 3–8 persons, for a 1–2 week period. Prices for excursions range from 2,000 to 8,000 USD per person, depending on the tour duration and travel distances to sites. Additional activities are available including archaeological excursions and mountaineering accompanied by highly qualified guides. Transportation is provided by minibuses or off-road vehicles.

To enquire about this tour please contact us by e-mail or Skype. A more detailed tour description will be provided on request.

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