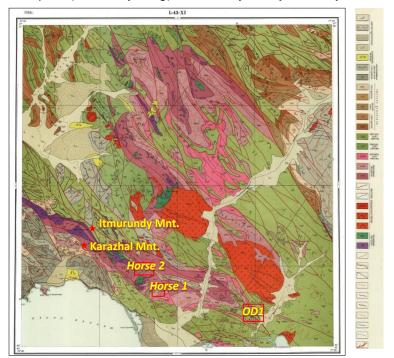
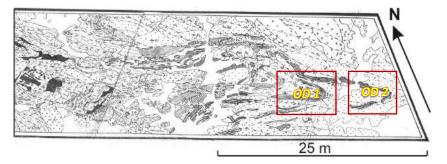
Field trip to the Itmurundy accretionary complex in northern Balkhash area, central Kazakhstan



Itmurundy accretionary complex is cropped out at the north of the Balkhash Lake. Three formations are traditionally defined in the accretionary complex (older to young): Itmurundy, Kazyk and Tyuretai.





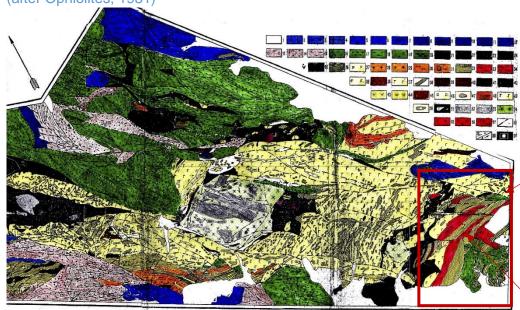
The following localities of Lower Paleozoic OPS units were investigated and sampled:

- «Horse 1»
- «Horse 2»
- «Overturned duplex 1(OD1)»
- «Overturned duplex 2 (OD2)»

Detailed study of the brittle-ductile deformations: folds, mullion-structures, horse-type, duplex-structures, faults, was carried out to produce structural-tectonic sketch-maps.

The Kazyk and Tyuretai formations outcrops were investigated: volcanic rocks (basalts, ultramafic rocks) were sampled for geochemical analysis and sedimentary rocks (cherts, mudstones, sandstones) for micropaleotological studies and U-Pb zircon dating. Detailed study of the ductile deformations was done.

















Kazyk Formation ribbon cherts





Breccia in basalts in the area between «Horse 1» and «Horse 2» localities





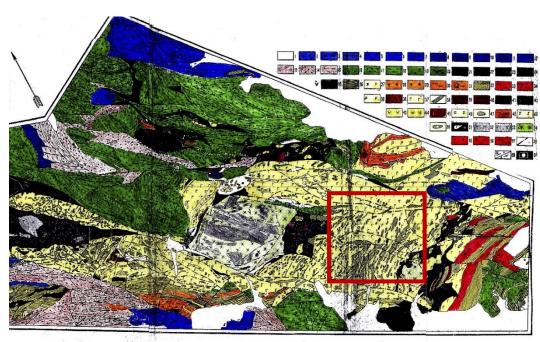




Detailed study of ductile deformations in the ribbon and laminated cherts (folds, nanoduplex structures etc.) from the Tyuretai Formation







The Itmurundy Formation pillow-basalts



The Itmurundy Formation siliceous mudstones



The Itmurundy Formation ribbon cherts









Basalts and altered cherts cropped in the quarry

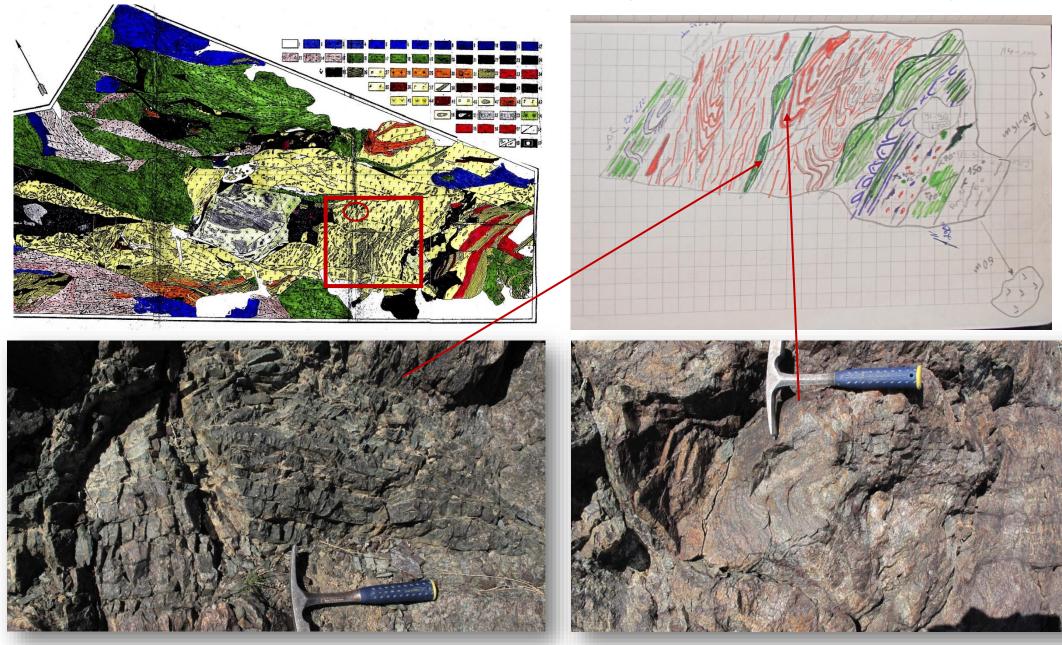


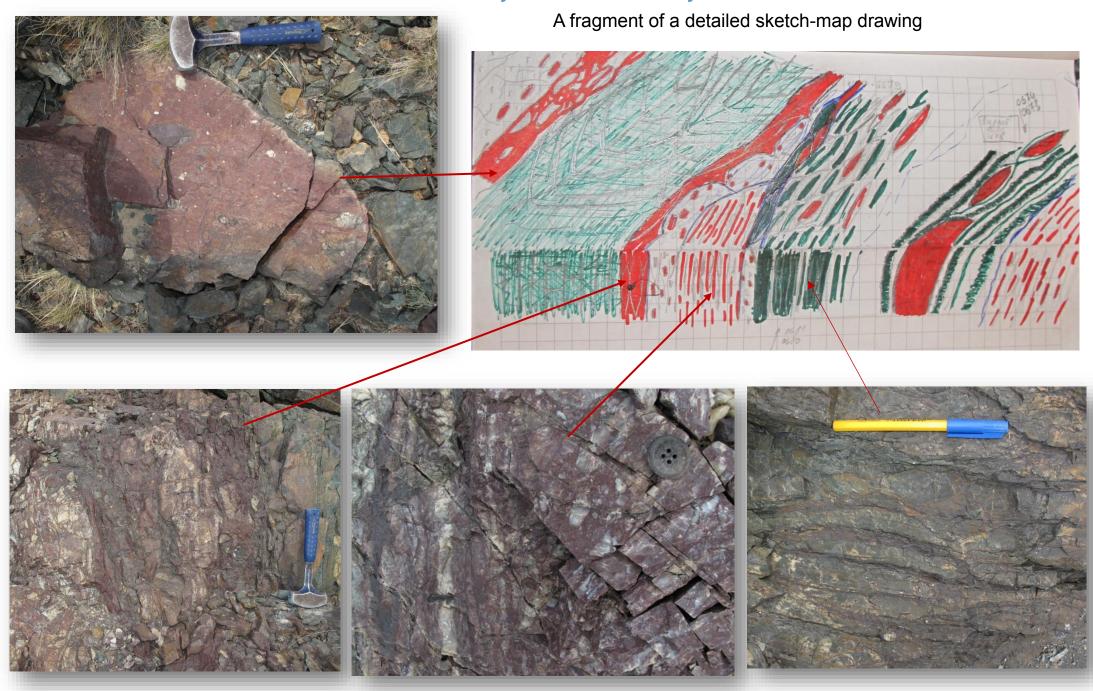


Chert and siliceous mudstone hills with basalts underneath (typical OPS example)

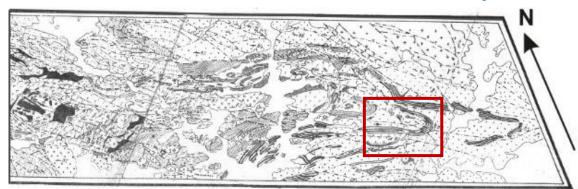


A fragment of a detailed sketch-map drawing

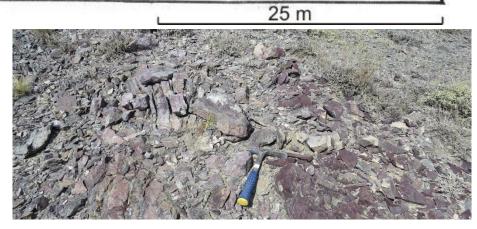




Detailed study of «OD 1» locality



Tyuretai (?) Formation cherts



Tyuretai (?) Formation cherts

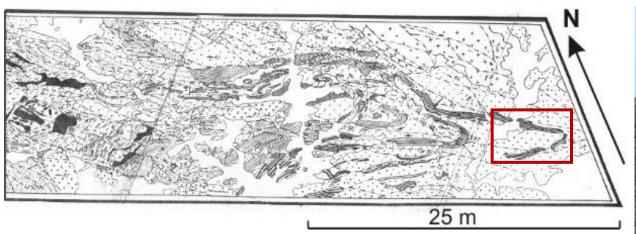


Sampling of sandstones for the U-Pb zircon dating





Detailed study of «OD 2» locality





Sampling of the Tyuretai (?) Formation sandstones for the U-Pb zircon dating



