Alichur shear zone: orthogneiss, protomylonite–mylonite

9913C1: Alichur orthogneiss; SGR in quartz segregation vein; quartz ribbon grains; oblique grain-shape fabric

9914B1: Two-mica orthogneiss: conjugate shear zones; quartz SGR; white-mica recrystallization

9914B1: Two-mica, igarnet orthogneiss: quartz SGR; plagioclase with deformation bands and fractures; garnet fractured and chloritized; white-mica recrystallization

9914C1: Alichur orthogneiss: quartz SGR; late normal-sense fractures; biotite recrystallization

9914C1: Alichur orthogneiss: quartz SGR and oblique grain-shape fabric; biotite recrystallization

9914C1: Alichur orthogneiss: quartz SGR and oblique grain-shape, detail

Alichur shear zone: orthogneiss, protomylonite–mylonite

9914D2: Alichur orthogneiss: quartz SGR; conjugate shear zones; myrmikite in plagioclase growing in shortening direction

9915A1: Two-mica orthogneiss; SGR in quartz, oblique grain-shape fabric; antithetic gliding in white mica; late disolution seams; white-mica recrystallization

9915A1: Two-mica orthogneiss; SGR in quartz, oblique grain-shape fabric, detail

9915A1: Two-mica orthogneiss; SGR in quartz, detail

J3626B1: Biotite orthogneiss; weakly deformed; quartz with undulatory extinction

J3625A1: Biotite orthogneiss, protomylonite; myrmikite formation normal to the shortening direction

Alichur shear zone: orthogneiss, protomylonite–mylonite

9915A2: Two-mica orthogneiss: quartz SGR, plagioclase σ-clasts with intra-grain fractures and saussuritization; biotite and white-mica recrystallization

9915A2: Two-mica orthogneiss: quartz SGR; extensional crenulation cleavage; local ultramylonite layers with reaction softening plagioclase to mica

9915A2: Two-mica orthogneiss: quartz SGR; quartz grain-shape fabric; white-mica with fractures and boudins, recrystallization along its rims

9918B1: Two-mica orthogneiss: quartz SGR; plagioclase shows fracturing and dissolution; Ramsay-type shear zones in quartz layers

J3704A2b: Biotite orthogneiss mylonite; fractures in feldspar; mica recrystallization along their rims; quartz ribbon grains and BLG and SGR in quartz

J3710A1: Biotite orthogneiss protomylonite; mica recrystallization along rims; feldspar fractures; quartz shows SGR

Alichur shear zone: orthogneiss

J3711A1: Biotite orthogneiss, protomylonite; feldspar fractures; mica shows recrystallization; feldspar fractures; quartz exhibits SGR

J4705A3: Two-mica orthogneiss

J4707B1 (fluid-inclusion sample): Biotite orthogneiss mylonite; Biotite to Chlorite retrogression; feldspar fractures; marginal recrystallization in white mica; transgranular fractures in quartz and feldspar (arrows)

J4707G1: Orthogneiss mylonite: SGR in quartz; deformation lamellae and fractures in quartz

J4708B1: Biotite orthogneiss mylonite developing into chlorite breccia; biotite to chlorite retrogression; quartz ribbons and SGR; feldspar deformation twins, undulatory extinction and fractures

J4711B1a: Biotite orthogneiss mylonite; SGR in quartz; recrystallization in white mica; fractures and undulatory extinction in feldspar

Alichur shear zone: orthogneiss

J3617B1: Chlorite breccia mylonite (Biotite orthogneiss protolith); quartz shows SGR; feldspar shows undulatory extinction and fractures

Alichur shear zone: ultramylonite

9914D1: Two-mica ultramylonite; σ-clasts; feldspar to mica reaction softening

Alichur shear zone: ultramylonite

9913D3: Two-mica ultramylonite; quartz σ-clasts; feldspar to mica reaction softening

9913D3: Two-mica ultramylonite: SGR in quartz, quartz oblique grain-shape fabric; myrmikite in plagioclase; σ-tails on backward-rotated clast in a stable position

9913D3: Two-mica ultramylonite: S-C stair-stepping clast imbrication; feldspar to mica reaction softening

J4708B2b: Ultramylonite; SGR in quartz; white mica recrystallization; feldspar shows undulatory extinction and fractures

Alichur shear zone: ultramylonite

J3624A1: Dark mylonitic slate (Wakhan Fm.); quartz shows BLG and pinning on fine-grained graphite

Alichur shear zone: (ultra)cataclasite

9918C2: Two-mica ultracataclasite: late normal faults

Alichur shear zone: ultramylonite–(ultra)cataclasite

9918C1: Alichur orthomylonite to ultracataclasite: SBR in quartz layers; late sericite-filled normal faults

9918C1: Alichur orthomylonite to ultracataclasite: SGR in quartz fragments

9918C2:Two-mica orthomylonite to ultracataclasite: SGR in quartz; layers; quartz grainshape fabric; plagioclase fractured; biotite recrystallization

9918C2: Two-mica orthomylonite to ultracataclasite: SGR in quartz; layers

Eastern South Pamir shear zone

9911B1: Orthogneiss: quartz SGR to incipient GBM; transgranular fractures in quartz; recrystallization pinning on mica

J4709A1a: protomylonite to mylonite; quartz shows SGR

J4614A1 (fluid-inclusion sample): SGR to beginning GBM in quartz

J4615B1a: Chlorite breccia protomylonite (Biotite orthogneiss protolith); feldspar has deformation twins and fractures; SGR in quartz

J4615D1 (fluid-inclusion sample): fibrolite around porphyroclast; felspar shows recrystallization along fractures

J4621C2: Leucogranite mylonite; BLG and SGR in quartz; Ramsay-type shear zone