

Suusamyр Basin, Turabulak

Target: Fault scarp of a E-W striking, S-dipping reverse fault in the Suusamyр Basin in Kyrgyzstan

Purpose: Identifying paleo-earthquake ruptures, paleoseismological trenching

Uploader:

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Survey date: 2016-06-17

Survey method: Structure-from-Motion from UAV aerial images

UAV: DJI Phantom 2

Flight altitude: 60-80 m

Camera: Canon PowerShot SX230 HS

Positioning: built-in camera GPS, ground control points measured with RTK DGPS

SfM software: Agisoft Photoscan Professional

DEM size: 3,666 x 1646 pixels

DEM extent: 103,988 m²

DEM elevation: 2384 - 2405 m asl

DEM Resolution: 0.2 m/pixel

DEM EPSG: 32643

DEM filetype: GeoTIFF

Pointcloud # of points: 11,465,755

Pointcloud filetype: xyz

Funding: This research was run under the Earthquakes without Frontiers project, funded by NERC and ESRC (grant code: EwF_NE/J02001X/1_1), and within the Centre for Observation and Modelling of Earthquakes and Tectonics (COMET).

Reference: Ainscoe, E. A., Abdrakhmatov, K. E., Baikulov, S., Carr, A. S., Elliott, A. J., Grützner, C., Walker, R. T. (2019). Variability in surface rupture between successive earthquakes on the Suusamyр Fault, Kyrgyz Tien Shan: implications for palaeoseismology. [Geophysical Journal International](#) 216(1), 703-725.

