

Almaty range front fault, Akterek site 2

Target: Fault scarp of the E-W striking, S-dipping, reverse Almaty range front fault, Kazakhstan

Purpose: Measuring the offset of river terraces and alluvial fans

Uploader:

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Survey date: 2016-06-29

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, six ground control points measured with RTK DGPS

SfM software: AgiSoft Photoscan Professional

of photos: 2,626

of tie points: 74,398

Dense cloud: 27,632,371 points

DEM size: 6,477 x 7,296 pixels

DEM extent: 634,926 m²

DEM elevation: 867-1003 m asl

DEM Resolution: 0.168 m/pixel

EPSG: 4326 (WGS84 cartographic)

DEM filetype: GeoTIFF

Source files: The original source images are available upon request from Christoph Grützner

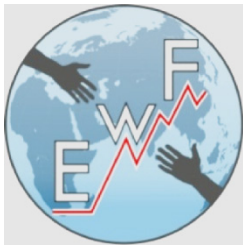
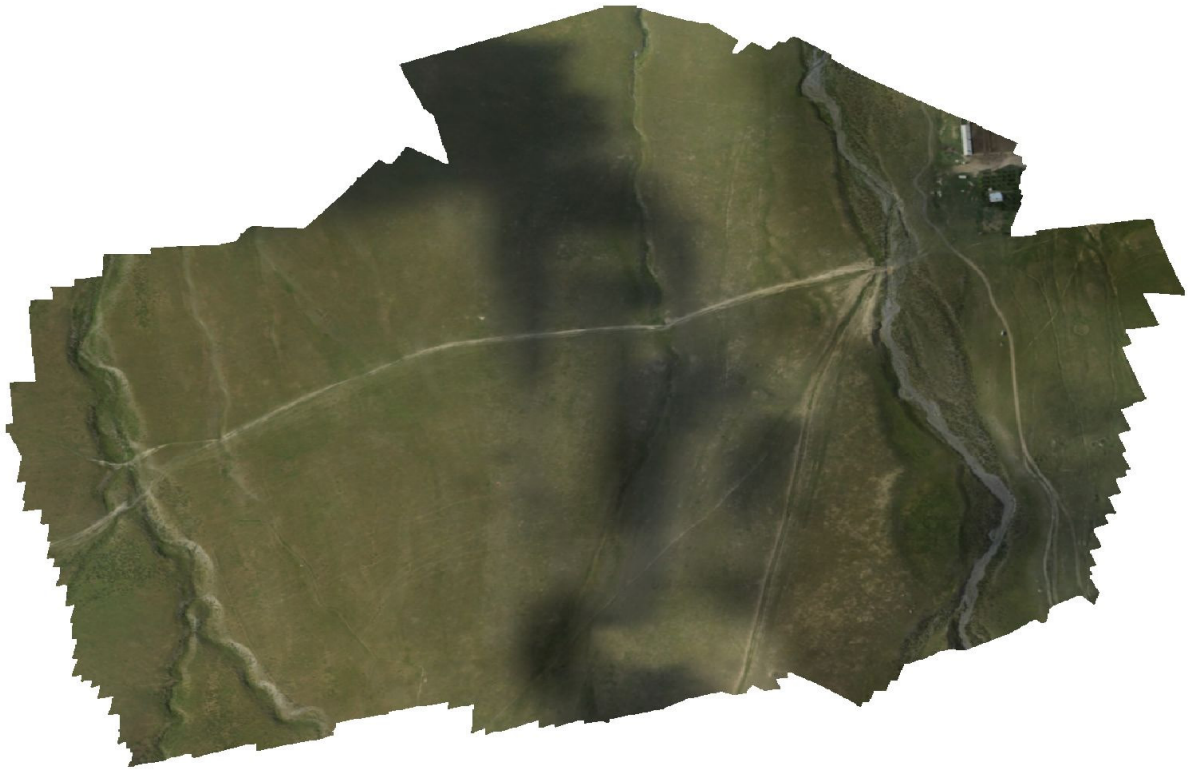
Ground Control Points:

4	akt-rover3	75.61482824	43.2272958	924.0157
5	akt-rover3	75.61372408	43.22683757	926.3917
6	akt-rover3	75.61265048	43.22773508	904.983
7	akt-rover3	75.61374699	43.22682302	925.2762
8	akt-rover3	75.61352802	43.22780292	910.9706
9	akt-rover3	75.61343632	43.22865399	901.3473

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Reference: Grützner, C., Walker, R. T., Abdrakhmatov, K. E., Mukambaev, A., Elliott, A. J., & Elliott, J. R. (2017). Active tectonics around Almaty and along the Zailisky Alatau range front, *Tectonics*, doi:10.1002/2017TC004657.

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2017TC004657>



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