

# Metadata Report

*Note: This is a suggested template for descriptive metadata for datasets uploaded to the OpenTopography Community Dataspace. Information below is optional, but please fill in fields as appropriate. The goal of this document is to enable data reuse, so please provide as much information as possible.*

## Project Name :

*“Survey of the Tentek River, the Dzhungarian Fault, Kazakhstan, July 2019”*

## Summary

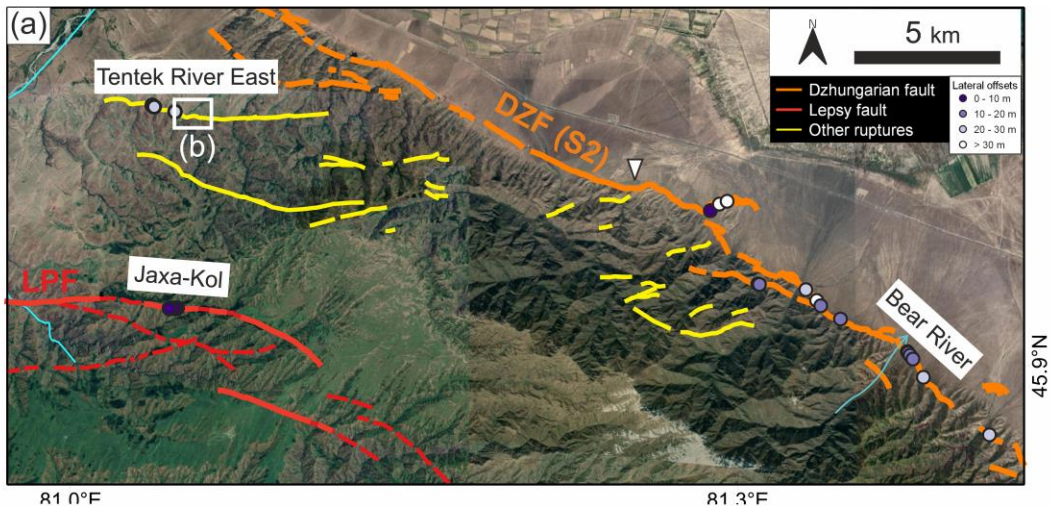
This point cloud data is derived from drone (DJI Phantom 4) photos by Agisoft Photoscan Professional software. It captured a fault scarp possible triggered by the Dzhungarian Fault in the north of the Dzhungarian Alatau, Kazakhstan.

## Personnel

- PI(s): Richard Walker
- Field staff: Richard Walker, Kanatbek Abrakhmatov, Roberta Wilkinson
- Additional team members: Chia-Hsin (Wendy) Tsai, Aidyn Makambayev

## Site Information

- Site description: East of the Tentek River
- Site objective: A ~10-m-high fault scarp
- Site location (GPS cords and/or map): 45.979°N, 81.051°E (The area of rectangle (b) in the map below.)



- Site conditions: Good
- Date/time spent at each site: 22<sup>nd</sup> July 2019

### Survey Results

- Equipment used: DJI Phantom 4
- GPS solutions: Ground control points measured with RTK DGPS
- Errors: 10 cm

Alignments:

Accuracy: Medium

Generic preselection: No

Reference preselection: Yes

Key point limit: 30,000

Tie point limit: 1,000

Adaptive camera model fitting: Yes

Matching time: 2 hours 1 minutes

Alignment time: 4 minutes 1 seconds

- Collection methods

## Products

- Date of dataset collection: 22<sup>nd</sup> July 2019
- Coordinate system of datasets: WGS 84
- Spatial resolution: 2.37 cm/pix
- Horizontal Accuracy
- Vertical Accuracy
- Data formats: .laz
- Data processing methods: Agisoft PhotoScan Professional (metashape)

## Misc Notes

GCPs:

Id	Lon.	Lat.	Elevation
TRA2	81.05068	45.98043	805.1319
TRA3	81.04902	45.97963	842.4408
TRA4	81.05062	45.97894	801.1275
TRA5	81.05158	45.97961	778.8727
TRA6	81.05371	45.97933	762.825
TRA7	81.05225	45.97859	778.1151