

Metadata Report

Project Name

“Survey of the pull-apart basin, the Dzhungarian Fault, Kazakhstan, July 2019”

Summary

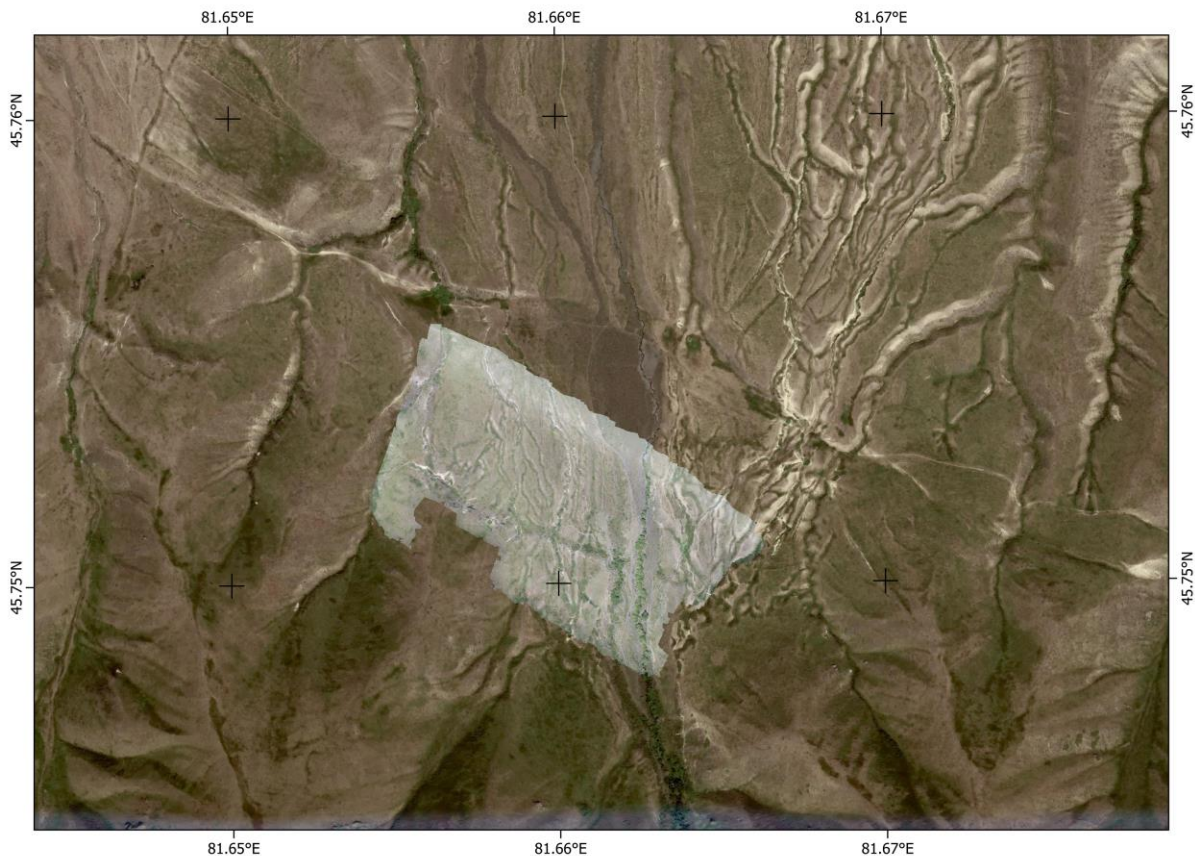
This point cloud, DEM and orthophotography data are derived from drone (DJI Phantom 4) photos by Agisoft Photoscan Professional software. It captured one of the scarps of a pull-apart basin triggered by the Dzhungarian Fault inside the Dzhungarian Alatau, Kazakhstan.

Personnel

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

Site Information

- Site description: ~ 20 km southeast of the Zhamanty River
- Site objective: One of the scarps of a pull-apart basin
- Site location (GPS cords and/or map)



- Site conditions: Good
- Date/time spent at each site: 07/18/2019

Survey Results

- Equipment used: DJI Phantom 4
- GPS solutions: Ground control points measured with RTK DGPS
- Errors: 7.5 cm
- Alignments:
 - Accuracy: Low
 - Generic preselection: No
 - Reference preselection: Yes
 - Key point limit: 30,000
 - Tie point limit: 1,000
 - Adaptive camera model fitting: Yes
 - Matching time 17 minutes: 18 seconds
 - Alignment time 1 minutes: 9 seconds

- Collection methods

Products

- Date of dataset collection: 07/18/2019
- Coordinate system of datasets: WGS 84 / UTM zone 44N
- Spatial resolution: 2.55/pix
- Horizontal Accuracy
- Vertical Accuracy
- Data formats: .laz/.tif
- Data processing methods: Agisoft PhotoScan Professional (metashape)

Misc Notes

GCPs:

Id	Latitude	Longitude	Elevation
DZA3	81.66116	45.75128	1086.707
DZA4	81.6604	45.75122	1091.697
DZA5	81.65977	45.75132	1091.775
DZA6	81.65973	45.7504	1117.102
DZA8	81.66227	45.75086	1095.446
DZA9	81.66216	45.74992	1113.715
DZAA	81.66118	45.75031	1113.42