

# Metadata Report

## Project Name

*"Survey of the Rygayty River, 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 the laterally-offset channels by the Dzhungarian Fault in the east of the Rygayty River at the range front of the Dzhungarian Alatau, Kazakhstan.

## Personnel

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

## Site Information

- Site description: South East of the Rygayty River
- Site objective: Offset channels
- Site location (GPS cords and/or map):



- Site conditions: Good
- Date/time spent at each site: 07/20/2019

### Survey Results

- Equipment used: DJI Phantom 4
- GPS solutions: Ground control points measured with RTK DGPS
- Errors: 49 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: 3 hours 45 minutes

Alignment time: 15 minutes 41 seconds

- Collection methods

## Products

- Date of dataset collection: 07/20/2019
- Coordinate system of datasets: WGS 84 / UTM zone 44N
- Spatial resolution: 2.19 cm/pix
- Horizontal Accuracy
- Vertical Accuracy
- Data formats: .laz/ .tif
- Data processing methods: Agisoft PhotoScan Professional (metashape)

## Misc Notes

GCPs:

Id	Lon.	Lat.	Elevation (m)
DZC2	81.89732	45.67598	761.1123
DZC3	81.89688	45.67506	780.3344
DZC4	81.89828	45.67485	778.4347
DZC5	81.90178	45.67318	772.1726
DZC6	81.90211	45.67243	778.2541
DZC7	81.90254	45.67295	767.6048
DZC8	81.91016	45.6687	793.8407
DZC9	81.91068	45.66804	795.117
DZCA	81.91127	45.66831	791.9097