

Metadata Report

Project Name *Survey of a subtle scarp at Chon Kemin, Kyrgyzstan, July 2019*

Summary *This point cloud data is derived from drone (DJI Phantom 4) photos by Agisoft PhotoScan Professional software. The location is north of the Chon Kemin Valley. The survey is for investigating a subtle thrust scarp on a fan surface directly south of a prominent uphill-facing scarp.*

Personnel

- PI(s) *Richard Walker*
- Field staff *Roberta Wilkinson, John Elliott, Ruth Amey, Austin Elliott, Chia-Hsin (Wendy) Tsai, Sultan Baikulov*
- Additional team members

Site Information

- Site description: The site is north of the Chon Kemin Valley.
- Site objective: The objective was to show the possible thrust scarp cutting fan surface directly south of a prominent uphill-facing scarp.
- Site location (GPS cords and/or map): 42.87 N, 76.60E
- Site conditions
- Date/time spent at each site

Survey Results

- Equipment used DJI Phantom 4
- GPS solutions : Ground control points measured by RTK GPS
- Errors
- Alignments
- Collection methods

Products

- Date of dataset collection: 4th July 2019
- Coordinate system of datasets: WGS 84 UTM 43N
- Spatial resolution: 2.41 cm/pix ortho, 4.83 cm/pix DEM
- Horizontal Accuracy
- Vertical Accuracy
- Data formats: TIF, LAZ
- Data processing methods: Agisoft PhotoScan Professional (metashape)

Misc Notes

Label	X error (cm)	Y error (cm)	Z error (cm)	Total (cm)	Image (pix)
CHF2	-6.24831	-2.749	1.73621	7.04364	0.278 (10)
CHF3	1.8103	2.28528	-8.55048	9.03385	0.182 (10)
CHF4	4.99302	-5.38271	3.9992	8.36047	0.075 (10)
CHF5	3.08843	9.17282	2.24769	9.93635	0.152 (13)
CHF6	-0.0912132	0.248723	-1.24383	1.27173	0.187 (17)
Total	3.91907	5.01907	4.44338	7.76491	0.185

Table 4. Control points.

X - Easting, Y - Northing, Z - Altitude.