Metadata Report

Project Name   *Surveys of Kura Frontal Thrust, Azerbaijan, 2022*

Summary *These data show two locations where the Kura Frontal Thrust of the Greater Caucasus Mountains has produced large folds in river terraces. These data were collected using a Phantom 4 Pro v2.0 with Teokit dGPS system. All heights are ellipsoidal.*

Personnel

- PI(s) *Ian Pierce, Sabina Kazimova, Neill Marshall, Ben Johnson*
- Field staff
- Additional team members

Site Information

- Site description *The sites are near Agsu, Azerbaijan and show folds in river terraces.*
- Site objective *The objective was to show the folding and displacement of the various strands of the Kura Frontal Thrust.*
- Site location (GPS cords and/or map) *40.56 N, 48.38E*
- Site conditions *Partly cloudy, fair weather*
- Date/time spent at each site *The eastern site was surveyed on April 25, 2022 and the western site was surveyed on May 6, 2022. Each survey took approximately 1 hour.*

Survey Results

- Equipment used *Emlid Reach RS2 as base station & single GCP. Phantom Pro v2.0 UAS with Teokit dGPS*
- GPS solutions *1 base station/GCP used*
- Errors *0.2 cm accuracy in PPP of base station, 5 cm accuracy of photo locations*
- Alignments *Spare & Dense clouds aligned using high setting.*
- Collection methods *Litchi autopilot at ~200 m above ground surface, 7.5 m/s UAS velocity, and 2s photo intervals*.

Products

- Date of dataset collection *April 25 & May 6 2022*
- Coordinate system of datasets WGS 84 *UTM Z39N*
- Spatial resolution *Western survey, 5 cm/pix ortho, 10 cm/pix DEM; eastern survey 3 cm/pix ortho, 6cm/pix DEM*.
- Horizontal Accuracy *0.2 m*
- Vertical Accuracy *0.2 m*
- Data formats *TIF, LAZ*
- Data processing methods *CSRS PPP processing of base location, TeoBox PPK processing of UAS locations, Agisoft Metashape processing of imagery & DEMs.*

Misc Notes

Elevations are Ellipsoidal