

# 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

Faulted late Quaternary geomorphic surfaces of the Kashihe Fault in the northern Tian Shan, NW China, September, 2017

## Summary

The Kashihe fault displaced the piedmont alluvial fans with vertical displacements of ~64-75 m. On the piedmont alluvial fans, several SSW-flowing channels with a maximum incision depth of ~50 m have been right-laterally offset across the fault. A right-lateral offset of ~115.8 m  $\pm$  8.3 m can be observed at this site.

## Personnel

- PI(s) :Chuanyong Wu, Xinnan Li, Jinrui Liu
- Field staff: Ying Ren
- Additional team members: Chuanyou Li, Zhuqi Zhang

## Site Information

- Site description: Faulted alluvial fans
- Site objective: Kashihe Fault
- Site location (GPS cords and/or map): 43°43'25", 83°35'00"
- Site conditions: Loess tableland covered by grass
- Date/time spent at each site: half a day

### Survey Results

- Equipment used: Small four-rotor unmanned drone and differential GPS
- GPS solutions: Differential measurement
- Errors: Horizontal error of 2 cm and vertical error of 4 cm.
- Alignments: Manual identification of the GCP targets
- Collection methods:

### Products

- Date of dataset collection: September, 2017
- Coordinate system of datasets: WGS 84
- Spatial resolution: <0.3 m/pixel
- Horizontal Accuracy:
- Vertical Accuracy:
- Data formats: Tiff
- Data processing methods: Structure-from-motion

### Misc Notes