

Metadata Report

Dataset Name

Structure from Motion data along the sSAF, Salt Creek, CA 2021

Overview Description

This high-resolution topography dataset of the southernmost San Andreas Fault (sSAF) includes a point cloud, digital surface model (DSM) and orthomosaic that cover an area of approximately 338,000 square meters along the main strand of the sSAF at Salt Creek, near the northeastern shoreline of the modern-day Salton Sea. The purpose of this dataset was to provide high-resolution imagery to examine tectonically offset geomorphic features to gather estimates for slip distribution for a study conducted along ~80 km of the sSAF.

Data Products

- Point Cloud, Raster

Data Products

- Structure from Motion / Photogrammetry

Horizontal Coordinates

- WGS 84 / UTM zone 11N

Horizontal EPSG Code

- 32611

Dataset Keywords

- southernmost San Andreas Fault, tectonic geomorphology, neotectonics, geomorphology, earthquake geology, slip distribution, structure from motion

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Funding Support

- Agency: other
- Other Agency Name: USGS – NEHRP
- Award / Grant Number: G21AP10005

Other Information

- Survey Date: Start Date 11/21/21 (Flight #1); End Date 12/28/21 (Flight #2)
- Area (m²): 338,000 (approx.)
- Point Density: unknown
- Raster Resolution: 9.14 mm/pix to 1.83 cm/pix

Project Roles & Data Contributors

- Contributors/Authors: Buckley, W.C. and Rockwell, T.K. (2022)
- Role: Contributor
- Organization: San Diego State University