Proposal Title
Re-evaluating fault geometry, fault activity and slip rate on the Mission Creek-Mill Creek faults from Coachella Valley through the San Gorgonio Pass

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Data Collection Summary:
| Collection Dates, # Flights: | 1 flight on March 18, 2017 (DOY 077) |
| Aircraft, Equipment:          | Piper PA-31-350 Navajo Chieftain (N640WA), Optech Titan (14SEN340) |
| Flight Plan Parameters:       | Flying Height: 1000 m AGL (nominal), Swath Width: 932 m, Overlap: >50%, Line Spacing: 400 m |
| Equipment Parameters:         | PRF: 75 kHz per channel (3 channels), Scan Frequency: 32 Hz, Scan Angle: ± 25° |
| Collected Area:               | 40 Km square, approx. ~5.2 shots per square meter |

GNSS Reference Station Summary:
| BRAN    | N 33 49 24.62776 W 116 31 48.76609 | 102.386(m) Ellipsoid (NCALM) |
| P577    | N 34 18 16.56506 W 117 19 8.03974  | 1000.279(m) Ellipsoid (UNAVCO PBO) |
| P598    | N 34 11 32.84877 W 116 42 36.91291 | 2747.210(m) Ellipsoid (UNAVCO PBO) |
| P607    | N 33 44 27.73007 W 115 49 14.30229 | 959.481(m) Ellipsoid (UNAVCO PBO) |
| P612    | N 34 11 14.56167 W 117 18 55.81287 | 532.447(m) Ellipsoid (UNAVCO PBO) |
| P613    | N 34 11 46.26913 W 117 2 59.81598  | 2355.895(m) Ellipsoid (UNAVCO PBO) |
| BEMT    | N 34 0 1.90866 W 115 59 53.43937  | 1374.409(m) Ellipsoid (UNAVCO PBO) |

Data Processing Summary:
| Projection / Units:          | UTM Zone 11N / meters |
| Point Cloud Tiles:           | 1000-m x 1000-m tiles in LAS format (Version 1.2), classified as ground or non-ground returns |
| Bare-Earth Elevation Model:  | ESRI FLT format @ 1.0 m resolution from classified ground points CH01 (1550 nm) and CH02 (1064 nm) and CH03 (532 nm) |
| Bare-Earth Hillshade:        | ESRI-created raster @ 1.0 m resolution |
| First Surface Elevation Model: | ESRI FLT format @ 1.0 m resolution from first returns only (all 3 channels) |
| First Surface Hillshade:     | ESRI-created raster @ 1.0 m resolution |

A detailed summary of the equipment and processing techniques used by NCALM is included in the Data Collection & Processing Summary.
Area of Interest:

Location of survey polygon (in red) and GNSS reference stations (yellow push pin markers)

The requested survey area consisted of one polygon located in northwest of Palm Springs, CA. The polygon enclosed approximately 40 km².