Metadata Report

Project Name: Topographic Data Set: Klamath River, California 2018

Summary: This 2018 Klamath River data set was a multi-agency collaboration to collect pre-dam removal topography and imagery across the rivers 260-mile corridor. Airborne topo-bathymetric LiDAR, boat based multi-beam sonar, and aerial imagery was collected from the mouth at estuary to the head waters near Klamath Lake in Oregon. This comprehensive baseline data set will help inform the scientific and restoration community to more thoroughly understand the effects of dam removal, quantitatively measure sediment transport evolution, and to help monitor the biological and physical response of a new free flowing Klamath River.

Personnel

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Data Citation:

- Yurok Tribe (2020). Topographic Data Set: Klamath River, California 2018. Distributed by OpenTopography. https://doi.org/10.5069/G9DN436N

Products

- Date of dataset collection: 02/11/2018 – 10/07/2018
- Coordinate system of datasets: UTM 10N (EPSG: 6339) with NAVD88 vertical datum (EPSG: 5703), California State Plane Coordinates (EPSG: 6416) with NAVD88 vertical datum in feet (EPSG:6360)
- Spatial resolution: 1 meter DTM/DSM rasters, 15 cm Orthophotos

Misc Notes:

- The “bulk download” section contains a folder, “shapefiles”, which will contain index files for the tiling scheme. There are two different tiling

schemes for this dataset. The data was originally delivered in a USGS tiling scheme. The shapefile, USGS_Klamath_River_Tile_Index.shp, will correspond to these tile indices. The following datasets are available in this USGS tiling scheme:
    - Lidar files in LAZ format
    - Digital Surface Model (DSM) rasters
    - NIR and Green channel Intensity rasters
    - Hydro-flattened Bare Earth rasters
- The data was also tiled into 29 River Reach Indices (REACH System). The shapefile, Klamath_DEM_Index.shp, will correspond to these tile indices. The following data has been made available in the REACH tiling scheme:
    - Digital Terrain Model (DTM) rasters
    - Orthophotos
- There is a Mr. Sid-formatted orthophoto that is a mosaic of the entire study area. This file is available in the bulk download section under “imagery”.
- Contours of the study area are available as an ESRI geodatabase in the bulk download section.
- Breaklines for the Klamath are available in the bulk download section under “shapefiles”: USGS_Klamath_River_Hydroflattening_Breaklines.shp