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Collaborative Research: FACET: Quantifying the Topographic Response to Tectonic Processes in Southern Taiwan

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DATA MANAGEMENT PLAN

This document describes our policy for production, storage, and distribution of data and computer code produced through the proposed work.

I. DATA PRODUCED

The proposed project will generate both unique scientific data and code. Data will include OSL ages, cosmogenic nuclide concentrations, channel morphology, DEM analysis, and structural data. Code development will include new developments to an existing code on the CSDMS server.

II. DATA FORMATS

All data will be stored and archived in ASCII format. Additionally, data will be stored in spreadsheets for rapid accessibility and sharing. Code will be developed using Matlab and Python.

III. DATA ACCESS AND SHARING

OSL: In addition to publishing data in manuscripts and supplemental materials of the project publications, all published data will be available via the USGS National Geochronological database (<http://mrddata.usgs.gov/geochronology/geochron.html>) and EarthScope website (<http://www.earthscope.org/>). All OSL information and such as field notes, photos and spreadsheets will also be stored in the Scholarly Data Archive at Indiana University.

Cosmogenic nuclide data: Cosmogenic radionuclide sample collection information will be retained as field notes, photos and spreadsheets in the Scholarly Data Archive at Indiana University. A portion of all analyzed samples will be kept in storage at IU. We plan to continue publishing new results in a timely manner, with data published in associated data tables in peer-reviewed journals, as is our standard procedure. We will also make data available at Earth Chem (<http://www.earthchem.org>) once the Terrestrial Cosmogenic Nuclide archive is developed (in progress).

Code: All code developments will be contributed to the Community Surface Dynamics Modeling System repository (<http://csdms.colorado.edu/wiki/>) and stored in the Scholarly Data Archive at Indiana University.

Field observations, DEM analysis, and structural data: All observations will be stored in ASCII formation and in spreadsheets when appropriate. The data will be included in published manuscripts either as tables or supplementary data. Additionally, this data will be stored in perpetuity in the Scholarly Data Archive at Indiana University.

IV. POLICIES FOR RE-USE AND RE-DISTRIBUTION

All published data and code will be available for re-use and re-distribution, including modification by other users, provided that references to appropriate publications are made.

V. DATA STORAGE AND BACKUP: IU'S SCHOLARLY DATABASE ARCHIVE

Perpetual archives of all data produced during this project will be stored on Indiana University's Scholarly Database Archive, a 42PB high performance, distributed storage facility with back-ups located on at least two campuses across the state for disaster recovery. See: <https://kb.iu.edu/d/aiyi> for more information.