

HUGH HARPER

huharper@ucsd.edu • hughaharper.github.io • 828-263-7329

EDUCATION

- Scripps Institution of Oceanography, UC San Diego** 2017 - Present
Ph.D. Earth Sciences (anticipated)
- University of Alaska Fairbanks** 2015 - 2017
M.S. Geophysics, Thesis: *Modeling the coseismic and postseismic deformation of the 2002 Mw7.9 Denali, AK earthquake*
- Appalachian State University** 2011 - 2015
B.S. Geology, Thesis: *3D mechanical modeling of the distribution of fault slip rates in the greater Los Angeles, CA region*

WORK EXPERIENCE

- Research Assistant, Scripps Institution of Oceanography** Aug 2017 - Present
Processing altimetry data from various satellites, assisting with regular campaign GPS surveys
- Research Assistant, University of Alaska Fairbanks** Aug 2015 - Aug 2017
Collected and processed continuous and campaign GPS in interior Alaska, assisted with seismograph deployment in Yukon Territory

TEACHING EXPERIENCE

- Introduction to Computing at IGPP** Fall 2021
Short course organizer/instructor
- SIO 236 – Remote Sensing** Spring 2020
Teaching Assistant

PROFESSIONAL AFFILIATIONS

- American Geophysical Union, 2014 - Present

GRANTS AND FELLOWSHIPS

- Wyer Fellowship, 2020-2021
- NASA FINESST, 2020-2023
- Scripps Fellowship, 2017-2018

OTHER SERVICE AND AFFILIATIONS

- SIO Computing Committee – Academic Year 2021-2022
- SIO Student Mentor – Academic Year 2020-2021
- GEBCO Bathymetric Compilation Group 2021

RECENT PUBLICATIONS

- D. T. Sandwell, J. A. Goff, J. Gevorgian, **H. Harper**, et al., (2021) Improved bathymetric prediction using geological information: SYN BATH, ESSOAr, doi:10.1002/essoar.10508279.1
- GEBCO Bathymetric Compilation Group 2021 (2021). The GEBCO_2021 Grid - a continuous terrain model of the global oceans and land. NERC EDS British Oceanographic Data Centre NOC. doi:10/gn6h
- **H. Harper**, B. Tozer, D. T. Sandwell, R. N. Hey, (2021) Marine vertical gravity gradients reveal the global distribution and tectonic significance of "seesaw" ridge propagation, JGR: Solid Earth
- A. B. Watts, B. Tozer, **H. Harper**, et al., (2020) Evaluation of shipboard and satellite-derived bathymetry and gravity data over seamounts in the northwest Pacific Ocean, JGR: Solid Earth
- D. T. Sandwell, **H. Harper**, B. Tozer et al., (2019) Gravity field recovery from geodetic altimeter missions, Advances in Space Research, <https://doi.org/10.1016/j.asr.2019.09.011>