



PRINCETON UNIVERSITY
DEPARTMENT OF GEOSCIENCES
SENIOR THESIS (Class of '19)



- Elijah Ash** Journey to the Not-So-Center of the Earth: Possible Seismic Velocity Anomaly in the Outer-Core Tangent Cylinder
J. Irving / A. Rubin
- Jack R. M. Burdick** Attribution of U.S. Economic Losses Due to Tropical Cyclones
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- Enrique M. del Castillo** A Numerical and Field-Data Evaluation of the Critical Taper Model for Orogenic Wedge Stability
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- Kyle Duffey** Raman Spectroscopy of Near-Endmember Tourmalines Dravite and Magnesio-Foitite to 24 GPa
T. Duffy / B. Schoene
- Katherine L. DuRussel** Estimating Rates of Anaerobic Nitrite Oxidation in the Eastern Tropical North Pacific Oxygen Minimum Zone Through Incubation Experiments
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- Artemis Marion Eyster** Lianas, Arrested Succession, and Decreased Carbon Storage: Examining the Links Between Topography, Liana Density, and the Persistence of Low-Canopy Areas
G. Vecchi / S. Pacala (EEB)
- Angel Sarah Fan** The Effect of Geometries in Curved-Crease Origami Patterned Surfaces on the Acoustics of Spaces
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- Alexander Getraer** Tributary Slopes Record Regional Climate and Constrain Branching Angles in U.S. River Networks
A. Maloof / F. Simons
- Benjamin Getraer** Comparison of GRACE Derived Greenland Mass Wasting To Near Surface Temperature from MERRA-2 Reanalysis
L. Resplandy / F. Simons
- Emily C. Geyman** How Do Shallow Carbonates Record Sea Level and Seawater Chemistry?
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Jake Martin

An Extreme Value Analysis (EVA) of Extreme Sea-Level (ESL) Events in Hawaii to Evaluate the Hawaii Sea-Level Rise Vulnerability and Adaptation Report

M. Oppenheimer / L. Resplandy

Yaakov Garfin Mitchell

Prochlorococcus & The Secondary Chlorophyll Maximum In the East Tropical North Pacific Oxygen Deficient Zone

B. Ward / X. Zhang

LiQian (SiSi) Peng

Environmental Factors Influencing the Formation of Organobromines in Coastal Soils

S. Myneni / S. Fueglistaler

Kimberly Akemi Peterson

Contributions of Overshooting Convection Over the South Asian Monsoon Region to Stratospheric Water Vapor

S. Fueglistaler / G. Vecchi

James William Tralie

Seismological Analysis of the Mohorovičić and Mantle Discontinuities Below Cape Verde Using Receiver Functions

J. Irving / F. Simons

Keely M. Walsh

Primary Productivity in the Gulf of Alaska in a High-Resolution Global Climate Model

L. Resplandy / S. Fueglistaler