



**DEPARTMENT OF GEOSCIENCES
JUNIOR PAPERS (Class of '19)
SPRING 2017-2018**

Elijah Ash

“Characterizing the Seismic Noise Spectrum of the Princeton University Seismometer”

J. Irving

Jack R.M. Burdick

“Determining a Method for Measuring Lead Isotopes as Tracers for Drinking Water Pollutants”

J. Higgins

Enrique M. del Castillo

“A Global Evaluation of the Critical Taper Model for Accretionary Wedge Geometries”

B. Schoene

Kyle J. Duffey

“Using AL-IN-Hornblende Geobarometry to Constrain Emplacement Models for the Mount Edgar Granitoid Complex in the East Pilbara Craton, Western Australia”

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Katherine L. DuRussel

“Merging Large Ensembles and Observed Ocean Color To Constrain Emergence Times for Anthropogenic Changes in Ocean Chlorophyll”

J. Sarmiento

Artemis Eyster

“Predicting Invasive Plant Abundance Using Remote Sensing in Princeton, NJ”

G. Vecchi

Angel S. Fan

“Spherical-Harmonic Analysis of the Jovian Gravity Field: Numerical Experiments”

F. Simons

Alexander I. Getraer

“Mapping a Centimeter Scale River Network from RGB Imagery Using a Fully Convolutional Neural Network”

A. Maloof

Benjamin Getraer

“Regional Forcing of Greenland Ice Loss 2002-2017”

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Emily C. Geyman

“How Do Carbonates Record Sea Level? The Bahamas as a Modern Analogue for Climate Records Preserved in Ancient Carbonates”

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FALL 2017-2018

Jake Martin

“On the Relation Between Seasonal Changes of Upper Ocean Mixing and Surface Carbon Fluxes in the Southern Ocean”
J. Sarmiento

LiQian (SiSi) Peng

“Towards a Statistical Baseline of the Frequency and Amplitude of Severe Droughts: Analysis of GPCP Observed And Unforced Model Run Precipitation Data”
S. Fueglistaler

Kimberly Peterson

“Contributions of Tropical Cyclones to New Zealand Precipitation”
G. Vecchi

James W. Tralie

“Tehuantepec Gap Induced Cyclogenesis Examined With a High Resolution Global Climate Model”
G. Vecchi

Keeley Walsh

“Seasonality of Iron Transport via Haida Eddies and Its Implications on Phytoplankton Growth in the Gulf of Alaska”
L. Resplandy