



## DEPARTMENT OF GEOSCIENCES JUNIOR PAPERS (Class of '21) FALL 2019-2020

Amy Amatya "Mermaid Float Course Prediction Using Historic Argo

Trajectory Data"

F. Simons

**Galen Cadley** "How to Optimize the Operation of the S.C.R.A.P.

Composter by Assessing the Current Gaseous Conditions

Within"

X. Zhang

Diana Chao "Bathymetric Analysis of the South China Sea"

F. Simons

Casey Hawkins Conrad "Rancho Canales, Mexico as a Case Study for Evidence

Of Global Mercury Fallout and Associated Climate Change

From Deccan Volcanism"

G. Keller

**Stacey Edmonsond** "From the Diurnal Carbon Engine to Marine Diagenesis:

What Factors Control the Isotopic Composition and

Mineralogy of Periplatform Carbonate Around the Bahamas?"

A. Maloof

Nina Grant "Sea Surface Temperature Variability as a Predictor of

Indian Monsoon Activity"

G. Vecchi

**Grace Kortum** "Variability of Oxygen in the Equatorial Pacific:

Observations from Biogeochemical Profiling Floats"

L. Resplandy

Margaret Jackson Lynch "Assemblage-Specific Analysis of the Diatom-Bound δ<sup>15</sup>N

Record in the Atlantic Sector of the Southern Ocean"

D. Sigman

Emma McMahon "Arctic and Antarctic Sea Ice Responses to Large Volcanic

Eruptions of the Twentieth Century"

G. Vecchi

**Levy Nathan** "Ammonium, Nitrate and Nitrite Distribution in the Water

Column of the Chesapeake Bay"

B. Ward





## **DEPARTMENT OF GEOSCIENCES JUNIOR PAPERS (Class of '21)** FALL 2019-2020

William Ueberroth "Earthquake Clusters in California"

A. Rubin

"Tracing Past Arctic Ocean Nitrogen Cycling from Nitrogen Isotopes in Foraminifera" Ona M. Underwood

D. Sigman

John (Wesley) Wiggins

"Nitrogen Isotopic Composition of Shark Tooth Enameloid Before and After the Cretaceous-Paleogene

Mass Extinction"

D. Sigman

**Tyrone Zhang** 

"The Exploration of Low Clouds and Surface Temperature in Relationship to Cloud Feedbacks"

S. Fueglistaler





## DEPARTMENT OF GEOSCIENCES JUNIOR PAPERS (Class of '20) SPRING 2019-2020