Monday, May 3, 2021

09:30 – 09:45 Diana Chao
Modeling Past and Future Extreme Weather Correlations Across North America

M. Oppenheimer / Y. Zhang

09:45 – 10:00 Casey Conrad
Bowling Green as the Achilles Heel: An Updated Analysis of New York City's Subway System in Response to Predicted Sea Level Rise

M. Oppenheimer / G. Vecchi

10:00 – 10:15 Wesley Wiggins
Sea-Level Rise on the Eastern Shore of Maryland: Vulnerability, Adaptation, and Environmental Justice

M. Oppenheimer / A. Rubin

10:15 – 10:30 Grace Kortum
The Role of Weather in Driving Multidecadal Shifts in the Distribution of Tropical Cyclone Tracks

G. Vecchi / M. Oppenheimer

10:30 – 10:45 Emma McMahon
The Response of the Urban Heat Island to El Niño-Southern Oscillation

G. Vecchi / Elie Bou-Zeid

10:45 – 11:00 Nina Grant
Effects of Solar Geoengineering on Indian Monsoon Precipitation Patterns

G. Vecchi / L. Horowitz

11:00 – 11:15 Margaret Lynch
Glacial/Interglacial Changes in Diatom-Bound $\delta^{15}$N in the Atlantic Sector of the Antarctic Zone

D. Sigman / S. Myneni

11:15 – 11:30 Ona Underwood
Tracing Southern Ocean Nitrate Consumption from Nitrogen Isotopes in Foraminifera Over the Past 1.5 Million Years

D. Sigman / J. Higgins

-------------------------LUNCH BREAK-------------------------

Monday, May 3, 2021

01:00 – 01:15 Stacey Edmonson
Were Shallow Carbonate Geochemistry and Production Different During the Last Interglacial Period?

A. Maloof / J. Higgins

01:15 – 01:30 Levy Nathan
A Dive into the Chesapeake Bay: An Investigation of the Parameters Shaping Nitrous Oxide Distribution

B. Ward / X. Zhang

01:30 – 01:45 William Uebbrroth
Environmental Controls on $\text{N}_2\text{O}$ Concentration and Emissions in Global Estuaries

B. Ward / D. Sigman

01:45 – 02:00 Amy Amatya
Receiver Function Analysis of the Mantle Transition Zone Beneath Cape Verde

F. Simons / A. Rubin

02:00 – 02:15 Tyrone Zhang
Evaluating Forecasting Methods for Precipitation Using Weather Data Collected on Top of Guyot Hall

F. Simons / A. Rubin

DEPARTMENT OF GEOSCIENCES
SENIOR THESIS INDEPENDENT WORK ORAL PRESENTATION SCHEDULE

May 3, 2021