Sydney J.N. Baratta

University of Maine, Orono | 315-416-9088 | sydney.baratta@maine.edu

EDUCATION

M.S. Earth and Climate Sciences, *current*
University of Maine

B.S. Marine Science with Oceanography concentration *(magna cum laude)*, 2021
University of Maine

A.S. Mathematics and Science *(cum laude),* 2018
Onondaga Community College

RESEARCH EXPERIENCE

Quantifying the Impact of Rapidly Retreating Tidewater Glaciers on South Greenland Fjord Environments *current*

University of Maine, Orono, ME *Kristin Schild & Lee Karp-Boss*

- Quantified South Greenland fjord dynamics through combined *in situ* and remote sensing methods.

Ilulissat Fjord Surface Circulation Patterns Revealed Through Iceberg Trackers *current*

University of Maine, Orono, ME *Kristin Schild*

- Analyzed CTD/XCTD derived data and GPS-mounted icebergs to quantify fjord circulation in relation to Jakobshavn Glacier's dynamic behavior.

TerraSAR-X Sea Ice Feature Assessment 2023

U.S. Army CRREL *Zoe Courville*

- Used SAR imagery and in situ measurements to classify sea ice thicknesses in McMurdo Sound, Antarctica

Maine Midden Minders 2021-2022

University of Maine, Orono, ME *Alice Kelley*

- Aided in three field days measuring shell midden mounds around the Maine coast using structure from motion and GPS.

PUBLICATIONS

Baratta, S.J.N., Schild, K., Sutherland, D.A., (2023). Ilulissat Icefjord Upper-Layer Circulation Patterns Revealed Through GPS-Tracked Icebergs. *Manuscript in preparation.*

Baratta, S.J.N., Schild, K.M., Karp-Boss, L., Boss, E. Quantifying the Impact of Rapidly Retreating Tidewater Glaciers on South Greenland Fjord Environments. *Manuscript in preparation.*

FIELD EXPERIENCE

Six total weeks in South Greenland (June 2022, June/July 2023) as a part of the SAUNNA NRT Program, funded by NSF, through the University of Maine.

SCIENTIFIC TALKS

Borns Symposium, University of Maine, ME, 2023

SAUNNA NRT Graduate Student Panel, Anchorage, AK, 2023

GeoLunch, University of Maine, ME, 2022 & 2023