

Dr. Peter Washam

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Research Interests

- glacier-ocean-atmosphere interactions
- observational coastal oceanography
- remote sensing of glaciers

Education

- 2014 - 2019 **Ph.D.** University of Delaware: *Physical Ocean Science and Engineering*
Newark, DE, USA
- 2012 - 2014 **M.S.** Florida International University: *Geoscience*
Miami, FL, USA
- 2007 - 2011 **B.S.** University of South Carolina: *Marine Science*
Columbia SC, USA

Professional Positions

- 2019 - current **Research Scientist**, Georgia Institute of Technology: *Earth and Atmospheric Sciences*
Atlanta, GA, USA

Publications

Washam, P., Nicholls, K.W., Münchow, A., and Padman, L. (2019). Summer surface melt thins Petermann Gletscher Ice Shelf by enhancing channelized basal melt. *Journal of Glaciology*, 65(252), 662–674, doi:10.1017/jog.2019.43.

Washam, P., Münchow, A., and Nicholls, K.W. (2018). A decade of ocean changes impacting the ice shelf of Petermann Gletscher, Greenland. *J. Phys. Oceanography*, 48:2477–2493, doi: 10.1175/jpo-d-17-0181.1

Münchow, A., Padman, L., **Washam, P.**, and Nicholls K.W. (2016). The ice shelf of Petermann Gletscher, North Greenland, and its connection to the Arctic and Atlantic oceans. *Oceanography*, 29(4):84–95, doi: 10.5670/oceanog.2016.101

Presentations

(* invited)

Washam, P., Nicholls, K.W., Münchow, A., and Padman, L.: Observations of Subglacial Runoff-Enhanced Melt beneath Petermann Gletscher Ice Shelf, Greenland, *EGU General Assembly*, **11946**, Vienna, Austria, Apr-2019.

Washam, P., Nicholls, K.W., Münchow, A., and Padman, L.: Heightened Summer Melting of Petermann Gletscher's ice shelf, Greenland, *AGU Fall Meeting*, **C11A-02**, Washington, DC, Dec-2018.

* **Washam, P.**, Nicholls, K.W., Münchow, A., and Padman, L.: Subglacial Runoff enhances basal melt beneath Petermann Gletscher's ice shelf, Greenland.

LDEO Seminar, Palisades, New York, Oct-2018,

Univ. South Carolina Seminar, Columbia, SC, Nov-2018.

Washam, P., Münchow, A., and Nicholls, K.W.: Dynamic Ice-Ocean Interactions beneath Petermann Gletscher's ice shelf, Greenland. ***Ocean Sciences Meeting***, **HE14B-2830**, Portland, Oregon, Feb-2018.

Münchow A., **Washam, P.**: Ice-Ocean-Glacier Interactions in Wostenholme Fjord, North-West Greenland in April 2017. ***Ocean Sciences Meeting***, **HE14B-2836**, Portland, Oregon, Feb-2018.

Münchow, A., **Washam, P.**, Padman, L., Nicholls, K.W.: Ocean Warming in Petermann Fjord North Greenland. ***Ocean Sciences Meeting***, **H14B-1417**, New Orleans, Louisiana, Feb-2016.

Field Work Experience

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| Fall 2017 | R/V Polarstern , PS109: Greenland ice sheet-ocean interaction
Tromsø, Norway - Bremerhaven, Germany
Responsibilities: CTD operations, mooring deployment and recovery, data processing and analysis |
| Spring 2017 | Acoustic Sensor Networks for Ice-Covered Seas
Thule, Greenland
Responsibilities: Sea ice drilling operations, CTD operations, under-ice mooring deployment and recovery, data processing and analysis |
| Fall 2016 | R/V Sikuliaq , Canada Basin Acoustic Propagation Experiment
Nome - Dutch Harbor, Alaska
Responsibilities: CTD operations, instrument preparation, mooring hardware preparation, mooring deployment |
| Summer 2015 | Petermann Gletscher Expedition
Petermann Gletscher, Greenland
Responsibilities: Ice shelf drilling operations, under-ice mooring deployment, sediment core collection, AWS set up, programming, deployment, and recovery of differential GPS units |
| Summer 2015 | I/B Oden , Petermann Gletscher Expedition
Petermann Gletscher, Greenland
Responsibilities: CTD operations, instrument preparation, data processing and analysis |
| Summer 2010 | R/V Point Sur , Summer Freshwater Runoff into the Gulf of Alaska
Dutch Harbor, Alaska
Responsibilities: CTD operations, mooring recovery |

Awards and Skills

- Academic Excellence Award for Florida International University M.S. Program in Geosciences
- University of South Carolina Outstanding Senior Award Nominee
- University of Delaware College of Earth, Ocean, and Environment Travel Award
- Eagle Scout
- Fluent in MATLAB, GMT, and shell scripting languages
- Developed original post processing script for RBR CTD operations

Outreach

- *Life on a Glacier*. Eastside Charter School, Wilmington, DE, USA. Nov-2015.