

# Hilde Oliver

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Updated 2025-03-10

## EDUCATION

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2019            **Ph.D.**, Marine Sciences, University of Georgia  
2014            **B.S.**, *magna cum laude*, Mathematics, University of South Carolina

## PROFESSIONAL EXPERIENCE

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2021 —            **Assistant Scientist**, Department of Applied Ocean Physics and Engineering  
Woods Hole Oceanographic Institution  
2019 — 2021       **Postdoctoral Scholar**, Department of Applied Ocean Physics and Engineering  
Woods Hole Oceanographic Institution  
2014 — 2019       **Research Assistant**, Department of Marine Sciences  
University of Georgia

## RESEARCH INTERESTS

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Physical-biological interactions. Polar, subpolar, and coastal physical oceanography and biogeochemistry. Environmental controls on Phaeocystis, diatoms, and coccolithophores. Coupled physical-biogeochemical numerical modeling. Trace metal cycling.

## HONORS AND AWARDS

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2024            L&O Letters Early Career Publication Honor  
2019 — 2021       WHOI Weston Howland Jr. Postdoctoral Scholar Award  
2019            UGA Marine Sciences Departmental Graduate Research Award  
2019            AGU Outstanding Student Presentation Award  
2015 — 2019       NSF Graduate Research Fellowship  
2014            Antarctica Service Medal  
2014 — 2019       UGA Presidential Graduate Fellowship  
2013, 2014       Jeong S. Yang Award for Excellence in Undergraduate Mathematics  
2013            Phi Beta Kappa

## REFEREED JOURNAL PUBLICATIONS (Underline indicates postdoctoral advisee)

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- [23] Silver, A., **Oliver, H.**, Gawarkiewicz, G., Fratantoni, P., & Salois, S. L. (2024). Forecasting and Seasonal Variability of a Significant Faunal Boundary: The Foot of the Shelfbreak Front in the Northern Middle Atlantic Bight. *ICES Journal of Marine Science*, fsae156, <https://doi.org/10.1093/icesjms/fsae156>
- [22] **Oliver, H.**, Krumhardt, K. M., McGillicuddy, D. J., Mitchell, C., & Balch, W. M. (2024). Mechanisms regulating coccolithophore dynamics in the Great Calcite Belt in the Southern Ocean in the Community Earth System Model. *Journal of Geophysical Research: Oceans*, 129, e2024JC021371. <https://doi.org/10.1029/2024JC021371>

- [21] Zhu, Y., Selden, C. R., McGillicuddy, D. J., Chappell, P. D., Zhang, W. G., Meyer, M. G., Crider, K., **Oliver, H.**, & Clayton, S. (2024). Contrasting Nitrogen and Nitrifier Dynamics in the Euphotic Zone across the Mid-Atlantic Bight Shelfbreak Front. *Limnology & Oceanography*, 69, 2406-2421. <https://doi.org/10.1002/lno.12678>
- [20] Gifford, I., Gangopadhyay, A., Andres, M., **Oliver, H.**, Gawarkiewicz, G., & Silver, A. (2024). The Synchronicity between the Gulf Stream Path and the Region of Maximum Wind Stress Curl. *Scientific Reports*, 14, 18479. <https://doi.org/10.1038/s41598-024-68461-0>
- [19] Palevsky H. I., Clayton S., Benway H., & 36 others inc. **Oliver, H.** (2024). A model for community-driven development of best practices: the Ocean Observatories Initiative Biogeochemical Sensor Data Best Practices and User Guide. *Frontiers in Marine Science* (Perspective Article), 11, 1358591. <https://doi.org/10.3389/fmars.2024.1358591>
- [18] Castelao, R. M, **Oliver, H.**, & Medeiros, P. M. (2023). Satellite-derived Lagrangian transport pathways in the Labrador Sea. *Remote Sensing*, 15(23), 5545. <https://doi.org/10.3390/rs15235545>
- [17] **Oliver, H.**, McGillicuddy, D. J., Krumhardt, K. M., Long, M. C., Bates, N. R., Bowler, B. C., Drapeau, D. T., & Balch, W. M. (2023). Environmental drivers of coccolithophore growth in the Pacific sector of the Southern Ocean. *Global Biogeochemical Cycles*, 37(11), e2023GB007751. <https://doi.org/10.1029/2023GB007751>
- [16] Hirzel, A. J., Alatalo, P., **Oliver, H.**, Petitpas, C. M., Turner, J. T., Zhang, W. G., & McGillicuddy, D. J. (2023). High Resolution Analysis of Plankton Distributions at the Middle Atlantic Bight Shelf-Break Front. *Continental Shelf Research*, 267, 105113. <https://doi.org/10.1016/j.csr.2023.105113>
- [15] **Oliver, H.**, Slater, D., Carroll, D., Wood, M., Morlighem, M., Hopwood, M. J. (2023). Greenland subglacial discharge as a driver of hotspots of increasing coastal chlorophyll since the early 2000s. *Geophysical Research Letters*, 50(10), e2022GL102689. <https://doi.org/10.1029/2022GL102689>
- [14] Zhang, W. G., Alatalo, P., Crockford, E.T., Hirzel, A. J., Meyer, M. G., **Oliver, H.**, Peacock, E., Petitpas, C. M., Sandwith, Z., Smith, W. O., Sosik, H. M., Stanley, R. H. R., Stevens, B. L. F., Turner, J. T., & McGillicuddy, D. J. (2023). Cross-shelf Exchange Associated with a Shelf-Water Streamer at the Mid-Atlantic Bight Shelf Edge. *Progress in Oceanography*, 210, 102931. <https://doi.org/10.1016/j.pocean.2022.102931>
- [13] Slater, D. A., Carroll, D., **Oliver, H.**, Hopwood, M. J., Straneo, F., Wood, M., Willis, J. K., & Morlighem, M. (2022). Characteristic depths, fluxes, and timescales for Greenland's tidewater glacier fjords from subglacial discharge-driven upwelling during summer. *Geophysical Research Letters*, 49(10), e2021GL097081. <https://doi.org/10.1029/2021GL097081>
- [12] **Oliver, H.**, Zhang, W. G., Archibald, K. M., Hirzel, A. J., Smith, W. O., Sosik, H. M., Stanley, R. H. R., & McGillicuddy, D. J. (2022). Ephemeral surface chlorophyll enhancement at the New England shelf break driven by Ekman restratification. *Journal of Geophysical Research: Oceans*, 127(1), e2021JC017715. <https://doi.org/10.1029/2021JC017715>
- [11] **Oliver, H.**, Zhang, W. G., Smith, W. O., Alatalo, P., Chappell, P. D., Hirzel, A. J., Selden, C. R., Sosik, H. M., Stanley, R. H. R., Zhu, Y., & McGillicuddy, D. J. (2021). Diatom Hotspots Driven by Western Boundary Current Instability. *Geophysical Research Letters*, 48(11), e2020GL091943. <https://doi.org/10.1029/2020GL091943> **Eos highlight.**
- [10] Smith, W. O., Zhang, W. G., Hirzel, A., Stanley, R. H. R., Meyer, M., Sosik, H. M., Alatalo, P., **Oliver, H.**, Sandwith, Z., Crockford, T., Peacock, E., Mehta, A., & McGillicuddy, D. J. (2021). A regional, early spring bloom of *Phaeocystis pouchetii* on the New England continental shelf. A Regional, Early Spring Bloom of *Phaeocystis pouchetii* on the New England Continental Shelf. *Journal of Geophysical Research: Oceans*, 126(2), 2020JC016856. <https://doi.org/10.1029/2020JC016856>
- [9] **Oliver, H.**, Castelao, R. M., Wang, C., & Yager, P. L. (2020). Meltwater-Enhanced Nutrient Export from Greenland's Glacial Fjords: A Sensitivity Analysis. *Journal of Geophysical Research: Oceans*, 125(7), 1–18. <https://doi.org/10.1029/2020JC016185>
- [8] Castelao, R. M., Luo, H., **Oliver, H.**, Rennermalm, Å. K., Tedesco, M., Bracco, A., Yager, P. L., Mote, T. L., & Medeiros, P. M. (2019), Controls on the transport of meltwater from the southern Greenland ice sheet in the Labrador Sea. *Journal of Geophysical Research: Oceans*, 124, 3551–3560. <https://doi.org/10.1029/2019JC015159>

- [7] **Oliver H.**, St-Laurent, P., Sherrell, R. M., & Yager, P. L. (2019). Modeling iron and light controls on the summer *Phaeocystis antarctica* bloom in the Amundsen Sea Polynya. *Global Biogeochemical Cycles*, 33, 570-596. <https://doi.org/10.1029/2018GB006168>
- [6] St-Laurent, P., Yager, P. L., Sherrell, R. M., **Oliver, H.**, Dinniman, M. S., & Stammerjohn, S. E. (2019). Modeling the Seasonal Cycle of Iron and Carbon Fluxes in the Amundsen Sea Polynya, Antarctica. *Journal of Geophysical Research: Oceans*, 124(3), 1544–1565. <https://doi.org/10.1029/2018JC014773>
- [5] Rognstad, R. L., Wethey, D. S., **Oliver, H.**, & Hilbish, T. J. (2018). Connectivity modeling and graph theory analysis predict recolonization in transient populations. *Journal of Marine Systems*, 183, 13–22. <https://doi.org/10.1016/j.jmarsys.2018.03.002>
- [4] **Oliver, H.**, Luo, H., Castelao, R. M., van Dijken, G. L., Mattingly, K. S., Rosen, J. J., Mote, T. L., Arrigo, K. R., Rennermalm, Å. K., Tedesco M., & Yager, P. L. (2018). Exploring the Potential Impact of Greenland Meltwater on Stratification, Photosynthetically Active Radiation, and Primary Production in the Labrador Sea. *Journal of Geophysical Research: Oceans*, 2570–2591. <https://doi.org/10.1002/2018JC013802>
- [3] Arrigo, K. R., van Dijken, G. L., Castelao, R. M., Luo, H., Rennermalm, Å. K., Tedesco, M., Mote, T. L., **Oliver H.**, & Yager, P. L. (2017). Melting glaciers stimulate large summer phytoplankton blooms in southwest Greenland waters. *Geophysical Research Letters*, 44, 6278–6285. <https://doi.org/10.1002/2017GL073583>
- [2] **Oliver, H.**, Rognstad, R., & Wethey, D. (2015). Using meteorological reanalysis data for multi-decadal hindcasts of larval connectivity in the coastal ocean. *Marine Ecology Progress Series*, 530, 47–62. <https://doi.org/10.3354/meps11300>
- [1] Deiterding, R., Glowinski, R., **Oliver, H.**, & Poole, S. (2013). A Reliable Split-Step Fourier Method for the Propagation Equation of Ultra-Fast Pulses in Single-Mode Optical Fibers. *Journal of Lightwave Technology*, 31(12), 2008–2017. <https://doi.org/10.1109/JLT.2013.2262654>

#### Submitted/In Revision

- [6] Herbert, L.C., St-Laurent, P, **Oliver, H.**, Steffen, J., Cohen, C., Fitzsimmons, J., Wellner, J., Yager, P.L., & Sherrell, R.M. (In revision). Benthic iron fluxes from decaying algal matter on the seafloor fuel an Antarctic ecosystem.
- [5] **Oliver, H.**, Turner, J. S., Castagna, A., Houskeeper, H., & Dierssen, H. (In revision). High Antarctic coastal productivity in polynyas revealed by considering remote sensing ice-adjacency effects.
- [4] Balch, W. M., McGillicuddy, D. J., Bates, N. R., Morton P. L., Drapeau D., Bowler, B., Pinkham, S., Enright, M., Garley, R., & **Oliver, H.** (In revision). On the biogeochemical, bio-optical, and physical variability of the Southern Ocean (Pacific sector) along 150°W and its impact on the Great Calcite Belt.
- [3] Stanley, R. H. R., Kronberg, Z., Sosik, H. M., Baldwin L., O'Hern, N., Cahill K., Crockford, E. T., **Oliver, H.**, Peacock, E. E., Sandwith, Z. O., Zhang, W. G., Zheng, B., & McGillicuddy, D. J. (Submitted). Localized and episodic enhancement of net community production and phytoplankton carbon in spring and summer at the Northeastern US shelfbreak front.
- [2] Huang, X, Gu, Y., **Oliver, H.**, Carroll D., Juul-Pedersen, T., Meire L., & Hopwood, M. J. (Submitted). Insights into the influence of the Greenland Ice Sheet on oceanic macronutrient dynamics from a century of historical data 1929-2022.
- [1] Hopwood, M. J., Schiøtt, S., & **Oliver, H.** (Submitted). Damming tidewater glaciers to mitigate sea level rise: A damning strategy for fisheries?

#### OTHER PUBLICATIONS

Palevsky, H.I., Clayton, S., & 23 others inc. **Oliver, H.** (2022) OOI Biogeochemical Sensor Data: Best Practices & User Guide, Version 1.1.1. [GOOS ENDORSED PRACTICE]. Ocean Observatories Initiative, Biogeochemical Sensor Data Working Group, 134pp. <http://https://doi.org/10.25607/OBP-1865.2>

**Oliver, H.** (2019). Physical controls on light and nutrients in coastal regions receiving large fluxes of glacial meltwater. Doctoral Dissertation, University of Georgia.

Clarke, A., Peck, L. S. & **Oliver, H.** (2019), Polar Ecosystems, in *Encyclopedia of Ocean Sciences (Third Edition)*, edited by J. K. Cochran, H. J. Bokuniewicz, and P. L. Yager, pp. 771–777, Academic Press, Oxford.

#### INVITED SEMINARS

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- 2025 Southern University of Science and Technology, Shenzhen, Guangdong, China  
"What drives ephemeral surface chlorophyll enhancements at the New England shelf break?"
- 2024 University of South Florida College of Marine Science  
"Environmental drivers of coccolithophore growth in the Pacific sector of the Southern Ocean."
- 2022 Rutgers University Department of Marine and Coastal Sciences  
"Subsurface diatom hotspots in the Middle Atlantic Bight Slope Sea driven by Gulf Stream Intrusions."
- 2022 UConn Department of Marine Sciences  
"Subsurface diatom hotspots driven by Gulf Stream meandering."
- 2021 UMass Dartmouth School for Marine Science & Technology (SMAST)  
"Subsurface Diatom Hotspots in the Middle-Atlantic Bight Slope Sea Driven by Gulf Stream Meandering."
- 2021 WHOI Department of Applied Ocean Physics & Engineering  
"Diatom Hotspots Driven by Western Boundary Current Instability."
- 2019 UGA Department of Marine Sciences  
Guest lecture on primary productivity, Marine Biology
- 2019 UGA Department of Marine Sciences  
Guest lecture on Antarctic Ecosystems (Virtual), Intro. to the Marine Environment
- 2019 UGA Department of Marine Sciences  
Guest lecture on Low frequency variability, Migrations in the Sea
- 2018 UGA Department of Marine Sciences  
Guest lecture on Trace metals in the sea, Chemical and Biological Oceanography
- 2018 UGA Department of Marine Sciences  
Guest lecture on El Niño, Introduction to the Marine Environment

#### PROFESSIONAL ACTIVITIES

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- 2025 Xiamen Symposium on Marine Environmental Sciences (XMAS) session co-convener: "The biogeochemistry of trace metals in a changing ocean"
- 2024 AGU Fall Meeting session co-convener: "The Birth, Life, and Death of Icebergs: Sentinels of Change"
- 2024 NSF OOI Community Workshop: Pioneer MAB Array. Plenary speaker.
- 2023 OCB Scoping Workshop: Building a Cost-effective Coastal Biogeochemical Observing Network in Collaboration with the Commercial Fishing Community
- 2021—2022 Ocean Observatories Initiative BGC Sensor Working Group
- 2022 Ocean Sciences Meeting session co-convener "Shelf-break frontal dynamics: integrating biological, biogeochemical and physical observations for a holistic view of ecosystem function"
- 2021 Ocean Observatories Initiative Innovations Lab, Phase II
- 2016—2017 Southeastern Biogeochemistry Symposium (SBS) graduate student steering committee

## MENTORING AND SUPERVISION

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### Students

Jan Śliwiński (2023—2024, Göteborgs Universitet Master in Marine Science, coadvised with Bastien Queste)

### Postdocs

Jackie Veatch (2024—, NSF OCE Postdoctoral Research Fellow, coadvised with Dennis McGillicuddy)

Adrienne Silver (2023—2024, WHOI Postdoctoral Investigator, coadvised with Glen Gawarkiewicz)

### Technicians

Finn Wimberly (2024—, WHOI Engineering Assistant II)

Phoebe Oehmig (2021, WHOI Engineering Assistant III)

## OCEANOGRAPHIC FIELDWORK (6 CRUISES, 218 DAYS AT SEA)

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2024	R/V Maria S. Merian, 37 days, southeast Greenland shelf and fjords CTD/Physical Oceanography Team Lead Project: POLAR BEAST
2022	R/V Nathaniel B. Palmer, 63 days, Amundsen Sea/Dotson and Getz Ice Shelves Pigment and nutrient sampling; ASD, IFCB, miniFIRe, PicoLiF operations Project: Accelerating Thwaites Ecosystem Impacts for the Southern Ocean (ARTEMIS)
2020—2021	R/V Roger Revelle, 60 days, Pacific Sector of the Southern Ocean Video Plankton Recorder operations Project: Biogeochemical and Physical Conditioning of Sub-Antarctic Mode Water
2019	R/V Thomas G. Thompson, 13 days, New England Shelfbreak CTD profiling and real-time data analysis Project: Shelfbreak Productivity Interdisciplinary Research Operation at the Pioneer Array (SPIROPA)
2019	R/V Ronald H. Brown, 13 days, New England Shelfbreak CTD profiling and real-time data analysis Project: Shelfbreak Productivity Interdisciplinary Research Operation at the Pioneer Array (SPIROPA)
2014	R/V Nathaniel B. Palmer, 32 days, West Antarctic Peninsula Pigments, nutrients, and microscopy Project: Adaptive Responses of Phaeocystis populations in Antarctic ecosystems (Phantastic II)

### *Cruises Provided Onshore Remote Sensing Support*

2024	GEOTRACES SIO, R/V Sonne, 53 days, South Indian Ocean
2023—2024	U.S. GEOTRACES GP17-ANT, R/V Nathaniel B. Palmer, 61 days, Amundsen Sea

## WHOI INTERNAL SERVICE

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2023—	Scientific Staff Executive Committee (SciSEC), Co-chair 2024—present
2019—2022	Women's Committee
2022	AOPE Seminar Co-Coordinator

## PUBLISHED ABSTRACTS

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2024	<b>Oliver, H.</b> , Turner, J.S., Castagna, A., Houskeeper, H., & Dierssen, H. "Rethinking Antarctic Polynyas: Minimizing ocean color remote sensing adjacency effects along icy coasts." Poster Presentation, Ocean Optics Meeting, Las Palmas de Gran Canaria, Spain.
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- Oliver, H.**, Slater, D., Carroll, D., Wood, M., Morlighem, M., & Hopwood, M. J. "Biogeochemical impacts of subglacial discharge released from Greenland tidewater glaciers." Oral Presentation, Ocean Sciences Meeting, New Orleans, LA.
- Steffen, J., **Oliver, H.**, Herbert, L., Chinni, V., Wellner, J., Stammerjohn, S.E., Yager, P.L., Sherrell, R.M., & Fitzsimmons, J.N. "Iron isotope measurements of seawater in the Amundsen Sea reveal sources of iron in the coastal Southern Ocean." Ocean Sciences Meeting, New Orleans, LA.
- Chinni V., Herbert, L., Steffen, J., Jenness S.E., Bu, K., Fitzsimmons, J.N., Bundy, R.M., **Oliver, H.**, St-Laurent, P., Yager, P.L., & Sherrell, R.M. "Iron Sources in the Amundsen Sea: Insights from Soluble, Colloidal, Dissolved and Particulate Fractions." Ocean Sciences Meeting, New Orleans, LA.
- Herbert, L., St-Laurent, P., Steffen, J., **Oliver, H.**, Fitzsimmons, J.N., & Sherrell, R.M. "Variable benthic fluxes of iron to a coastal Antarctic ecosystem revealed by a coupled modeling-observational approach (Amundsen Sea, West Antarctica)." Ocean Sciences Meeting, New Orleans, LA.
- Zhang, W. G., Alatalo, P., Crockford, E.T., Hirzel, A. J., Meyer, M. G., **Oliver, H.**, Peacock, E., Petitpas, C. M., Sandwith, Z., Smith, W. O., Sosik, H. M., Stanley, R. H. R., Stevens, B. L. F., Turner, J. T., & McGillicuddy, D. J. "Cross-shelf exchange associated with a shelf-water streamer at the Mid-Atlantic Bight shelf edge." Ocean Sciences Meeting, New Orleans, LA.
- 2023 **Oliver, H.**, McGillicuddy, D. J., Krumhardt, K. M., Long, M. C., Bates, N. R., Bowler, B. C., Drapeau, D. T., & Balch, W. M. "Controls on coccolithophore growth in the Pacific sector of the Southern Ocean." Oral Presentation, ASLO 2023 Aquatic Sciences Meeting, Palma de Mallorca, Spain.
- 2022 **Oliver, H.**, Zhang, W. G., Archibald, K. M., Hirzel, A. J., Smith, W. O., Sosik, H. M., Stanley, R. H. R., & McGillicuddy, D. J. "Ekman restratification drives ephemeral surface chlorophyll enhancements at the New England shelf break." Oral presentation (presented by Dennis McGillicuddy), Ocean Sciences Meeting, Virtual.
- 2020 **Oliver, H.**, Zhang, W. G., Smith, W. O., Alatalo, P., Chappell, P. D., Hirzel, A., Packard, G., Poole, J., Selden, C. R., Sosik, H. M., Stanley, R. H. R., Zhu, Y., & McGillicuddy, D. J. "Western boundary current instability gives rise to extraordinary subsurface diatom blooms in the Middle Atlantic Bight slope sea." Poster presentation, Abstract #714713. American Geophysical Union, Annual Meeting, Virtual.
- Oliver, H.**, Castelao, R. M., Wang, C., Yager, P. L. "A sensitivity analysis to determine conditions necessary for meltwater-enhanced nutrient export from Greenland's glacial fjords." Oral presentation. Ocean Sciences Meeting, San Diego, CA.
- Yager, P.L., **Oliver, H.**, St-Laurent P., Sherrell, R.M., & SE Stammerjohn, S.E. "High-resolution ocean model illustrates how ice-ocean interactions impact the CO<sub>2</sub> uptake of an Antarctic coastal polynya." Ocean Sciences Meeting, San Diego, CA.
- 2018 **Oliver, H.**, St-Laurent, P., Sherrell, R. M., Yager, P. L. "Controls on summer phytoplankton blooms in a highly productive Antarctic coastal polynya." Oral presentation, Abstract #OS34B-06. American Geophysical Union, Annual Meeting, Washington D.C. **Outstanding Student Presentation Award winner, Ocean Sciences section.**
- Oliver, H.**, St-Laurent, P., Sherrell, R. M., Yager, P. L. "What controls the massive phytoplankton bloom in the Amundsen Sea Polynya?" Poster, Abstract #HE14B-2850. Ocean Sciences Meeting, Portland, OR.
- 2017 **Oliver, H.**, St-Laurent, P., Sherrell, R. M., Yager, P. L. "Modeling physical and biological controls on phytoplankton blooms in the Amundsen Sea Polynya." Poster. Goldschmidt Conference, Paris, France.
- 2016 **Oliver, H.**, Luo, H., Castelao, R. M., van Dijken, G., Mattingly, K., Rosen, J., Mote, T., Arrigo, K. R., Rennermalm, A., Tedesco, M., Yager, P. L. "Extreme surface melting of the Greenland Ice Sheet increases growth potential for light-limited phytoplankton in

the Labrador Sea.” Oral presentation. American Geophysical Union, Annual Meeting, San Francisco, CA.

**Oliver, H.**, Luo, H., Mattingly, K., Rosen, J., Yager, P. L. “Modeling the sensitivity of coastal ocean Primary Production to Extreme Melting of the Greenland Ice Sheet.” Poster. Ocean Sciences Meeting, New Orleans, LA.

2015 Yager, P. L., **Oliver, H.**, Sherrell, R., Stammerjohn, S., St-Laurent, P., Hofmann, E., Mote, T., Tedesco, M., Rennermalm, A. K., Castelao, R. M. “Ice sheet meltwater impacts on biological productivity in high-latitude coastal zones - observations and models for the west Antarctic and southwest Greenland.” Poster. AGU Fall Meeting, San Francisco, CA.

#### REVIEWER ACTIVITY

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**Refereed Journals:** Nature Climate Change, Frontiers in Marine Science, Geophysical Research Letters, Biogeosciences, Journal of Plankton Research, Journal of Geophysical Research: Oceans, Nature Geoscience, Journal of Advances in Modeling Earth Systems (JAMES), Communications Earth and Environment, Journal of Geophysical Research: Biogeosciences

**Funding Agencies:** National Science Foundation (NSF), The National Fund for Scientific and Technological Development (FONDECYT, Government of Chile)

#### PROFESSIONAL SOCIETIES

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2015 — present American Geophysical Union

2016 — present The Oceanography Society