HILARY ILANA PALEVSKY

Department of Earth and Environmental Sciences, Boston College
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EDUCATION:

Ph.D. Oceanography, University of Washington, June 2016
Graduate Certificate in Climate Science, June 2014

M.S. Oceanography, University of Washington, March 2012

B.A. Geology, *Summa cum laude*, Amherst College, May 2007

Williams-Mystic Maritime Studies Program, Mystic, CT, Fall 2005

PROFESSIONAL APPOINTMENTS:

Assistant Professor, Boston College, Dept. of Earth and Environmental Sciences, July 2019 – present

Guest Investigator, Woods Hole Oceanographic Institution, July 2018 – present

Lecturer, Wellesley College, Dept. of Geosciences, July 2018 – June 2019

Postdoctoral Scholar, Woods Hole Oceanographic Institution, Sept. 2016 – June 2018
Advisers: Dr. David P. Nicholson and Dr. Scott C. Doney

Postdoctoral Researcher, Univ. of Washington School of Oceanography, June – Aug. 2016
Adviser: Dr. Paul D. Quay

Graduate Research Assistant, Univ. of Washington School of Oceanography, June 2010 – June 2016
Advisers: Dr. Paul D. Quay and Dr. E. Virginia Armbrust

GRANTS AND FELLOWSHIPS:

CURRENT FUNDING:

Microsoft AI for Earth Azure Compute Grant: "Analyzing model simulations of climate change impacts on the ocean's biological carbon pump." Collaborative with Steve Walker (BC undergraduate thesis student). Start date: February 5, 2021. $5,000 in Azure compute credits.

U.S. Army Engineer Research and Development Center (ERDC) Grant: "Sediment transport and water quality in watersheds and coastlines of the United States." Collaborative with Ethan Baxter (lead PI), John Ebel, Noah Snyder, Mark Behn, Xingchen Wang, and Gail Kineke (all at BC). Start date: September 29, 2020. $6,195,549 (total to all PIs).

NSF Grant: OCE#2034002 "Collaborative Research: OOI Biogeochemical Sensor Data workshop. " Collaborative with Sophie Clayton (ODU, lead PI) and Heather Benway (WHOI). Start date: August 1, 2020. $10,302 (BC portion).

NSF Grant: OCE#1947970 "Collaborative Research: Gases in the Overturning and Horizontal circulation of the Subpolar North Atlantic Program (GOHSNAP)." Collaborative with Jaime Palter (URI, lead PI) and David Nicholson (WHOI). Start date: February 15, 2020. $190,919 (BC portion).

NSF Grant: OCE#1946072 "Collaborative Research: The Annual Cycle of the Biological Carbon Pump in the Subpolar North Atlantic." Collaborative with David Nicholson (WHOI, lead PI). Start date: March 1, 2018. $116,857 (BC/Wellesley portion).

PREVIOUS FUNDING:

Woods Hole Oceanographic Institution (WHOI) Postdoctoral Scholarship, Sept. 2016 – Mar. 2018.

National Science Foundation Graduate Research Fellowship (NSF GRFP), 2010 – 2015

National Defense Science and Engineering Graduate Fellowship (NDSEG), 2010 – 2013

Achievement Rewards for College Scientists (ARCS) Fellowship, Sept. 2010 – May 2014. $22,500.

Univ. of Washington Program on Climate Change Fellowship (awarded but not used), April 2010.

Thomas J. Watson Fellowship, June 2007 – July 2008. $28,000.

AWARDS AND HONORS:

Professor of the Year, Awarded by students of the Department of Earth and Environmental Sciences at Boston College, May 2021

American Geophysical Union 2017 Editor's Citation for Excellence in Refereeing – Global Biogeochemical Cycles

Mary Landsteiner Scholar Award, "For excellence in research at the intersection of interdisciplinary ocean science with advanced computing", Univ. Washington School of Oceanography, April 2016

Univ. Washington College of the Environment Travel Award, Feb. 2016

Best Student Poster Award, SOLAS Summer School, Sept. 2013

Outstanding Student Presentation Award, TOS/ASLO/AGU Ocean Sciences Meeting, Feb. 2012

Phi Beta Kappa, Amherst College, April 2007

Walter F. Pond Prize, Amherst College Geology Department, April 2007

Belt-Brophy Prize, Amherst College Geology Department, April 2006

PEER-REVIEWED PUBLICATIONS:

[17] Henson, S. A., C. Laufkötter, S. Leung, S. L. C. Giering, **H. I. Palevsky**, & E. L. Cavan (2022). Uncertain response of ocean biological carbon export in a changing world, *Nature Geoscience*, 15(4), 248-254, https://doi.org/10.1038/s41561-022-00927-0.

[16] Clayton, S., **H. I. Palevsky**, L. Thompson, and P. D. Quay (2021), Synoptic mesoscale variability in biological productivity and chlorophyll in the Kuroshio Extension region, *Journal of Geophysical Research: Oceans*, 126, e2021JC017782. https://doi.org/10.1029/2021JC017782.

[15] **Palevsky, H. I.** and S. C. Doney (2021). Sensitivity of 21st century ocean carbon export flux projections to the choice of export depth horizon, *Global Biogeochemical Cycles,* https://doi.org/10.1029/2020GB006790.

[14] Quay, P. D., S. Emerson, and **H. I. Palevsky** (2020). Regional Pattern of the Ocean's Biological Pump Based on Geochemical Observations. *Geophysical Research Letters*, 47, https://doi.org/10.1029/2020GL088098.

[13] Greengrove, C., C. S. Lichtenwalner, **H. I. Palevsky**, A. Pfeiffer-Herbert, S. Severmann, D. Soule, S. Murphy, L. M. Smith, and K. Yarincik (2020). Using Authentic Data from NSF's Ocean Observatories Initiative in Undergraduate Teaching: An Invitation. *Oceanography*, 33(1): 62-73, https://doi.org/10.5670/oceanog.2020.103.

[12] Todd, R. E. et. al. (2019); **H. I. Palevsky** in alphabetical listing of 72 authors). Global perspectives on observing ocean boundary current systems. *Frontiers in Marine Science*, 6, 423, https://doi: 10.3389/fmars.2019.00423.

[11] Fuchsman, C. A., **H. I. Palevsky**, B. Widner, M. Duffy, M. C. G. Carlson, J. A. Neibauer, M. R. Mulholland, R. G. Keil, A. H. Devol, and G. Rocap (2019). Cyanobacteria and cyanophage contributions to carbon and nitrogen cycling in an oligotrophic oxygen-deficient zone. *The ISME Journal*, https://doi.org/10.1038/s41396-019-0452-6.

[10] Fassbender, A. J., K. Rodgers, **H. I. Palevsky,** and C. L. Sabine (2018). Seasonal asymmetry in the evolution of surface ocean pCO_2 and pH thermodynamic drivers and the influence on sea-air CO_2 flux. *Global Biogeochemical Cycles*, 32, https://doi: 10.1029/2017GB005855.

[9] **Palevsky, H. I.** and S. C. Doney (2018). How choice of depth horizon influences the estimated spatial patterns and global magnitude of ocean carbon export flux. *Geophysical Research Letters*, 45, https://doi.org/10.1029/2017GL076498.

[8] **Palevsky, H. I.** and D. P. Nicholson (2018). The North Atlantic biological pump: Insights from the Ocean Observatories Initiative Irminger Sea Array. *Oceanography*, 31(1): 42-49, https://doi.org/10.5670/oceanog.2018.108.

[7] Fassbender, A. J., **H. I. Palevsky,** T. R. Martz, A. E. Ingalls, M. Gledhill, S. E. Fawcett, J. Brandes, L. Aluwihare, and the participants of COME ABOARD and DISCO XXV (2017). Perspectives on Chemical Oceanography in the 21st Century: Participants of the COME ABOARD Meeting examine aspects of the field in the context of 40 years of DISCO, *Marine Chemistry*, 196, 181-190, https://doi.org/10.1016/j.marchem.2017.09.002.

[6] Fassbender, A.J., C. L. Sabine, and **H. I. Palevsky** (2017), Non-uniform ocean acidification and attenuation of the ocean carbon sink, *Geophysical Research Letters,* 44, doi:10.1002/2017GL074389.

[5] **Palevsky, H. I.** and P. D. Quay (2017), Influence of the biological pump on ocean carbon uptake over the annual cycle across the North Pacific Ocean, *Global Biogeochemical Cycles*, 31, doi:10.1002/2016GB005527.

[4] **Palevsky, H. I.**, P. D. Quay, and D. P. Nicholson (2016), Discrepant estimates of primary and export production from satellite algorithms, a biogeochemical model, and geochemical tracer measurements in the North Pacific Ocean, *Geophysical Research Letters*, 43, doi:10.1002/2016GL070226.

[3] **Palevsky, H. I.**, P. D. Quay, D. E. Lockwood, and D. P. Nicholson (2016), The annual cycle of gross primary production, net community production and export efficiency across the North Pacific Ocean, *Global Biogeochemical Cycles*, 30, doi: 10.1002/2015GB005318.

[2] **Palevsky, H. I.,** F. Ribalet, J. E. Swalwell, C. E. Cosca, E. D. Cokelet, R. A. Feely, E. V. Armbrust, P. D. Quay (2013) The influence of net community production and phytoplankton community structure on CO_2 uptake in the Gulf of Alaska. *Global Biogeochemical Cycles*, 27, 664-676, doi:10.1002/gbc.20058.

[1] Gezelius, S. S., T. J. Hegland**, H. I. Palevsky**, J. Raakjær, (2008) "The Politics of Implementation in Resource Conservation: Comparing the EU/Denmark and Norway," in S.S. Gezelius, J. Raakjær (eds.), *Making Fisheries Management Work,* 207-229, Springer Science+Business Media B.V.

ADDITIONAL PUBLICATIONS:

Atamanchuk, D., J. Palter, **H. I. Palevsky**, I. Le Bras, J. Koelling, and D. Nicholson. 2021. Linking oxygen and carbon uptake with the meridional overturning circulation using a transport mooring array. p. 9 in *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards.* E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, A Supplement to *Oceanography* 34(4), https://doi.org/10.5670/oceanog.2021.supplement.02-03.

Palevsky, H. I. Using OOI data to teach data analysis and scientific computing skills in upper-level courses, in "Data Labs in the Classroom: Teaching Tips from the Community" on the OOI Data Lab

Blog, Oct. 2021. <https://datalab.marine.rutgers.edu/2021/10/using-ooi-data-to-teach-data-analysis-and-scientific-computing-skills-in-upper-level-courses>

Palevsky, H. I. "The biological carbon pump: A new view from the OOI" in Ocean Observatories Initiative Facility Board. 2021. Ocean Observatories Initiative (OOI) Science Plan: Exciting Science Opportunities using OOI Data. <https://ooifb.org/reports/ooi-science-plan>

INVITED TALKS

University of Maryland Center for Environmental Science, Horn Point Laboratory Seminar, May 2022

Boston University, Biogeoscience Seminar Series, April 2022

Boston College, Department of Earth and Environmental Sciences Seminar Series, November 2021

National Science Foundation Frontiers of Ocean Sciences Symposium (via Zoom), June 2021

University of South Carolina School of the Earth, Ocean, and Environment (via Zoom), Feb. 2021

Queens College School of Earth and Environmental Sciences Colloquium (via Zoom), Dec. 2020

Radcliffe Institute for Advanced Study at Harvard "Next in Water" Program (via Zoom), Oct. 2020

Ocean Carbon and Biogeochemistry Program Summer Webinar Series (via Zoom), July 2020

National Science Foundation Frontiers of Ocean Sciences Symposium (via Zoom), June 2020

University of Connecticut, Marine Sciences Seminar, November 2019

Caltech, Environmental Science and Engineering Seminar, October 2019

Carleton College, Geology Department Seminar, February 2019

Harvard University, Earth and Planetary Sciences/Environmental Sciences and Engineering Joint Colloquium Series, March 2018

National Center for Atmospheric Research, Climate and Global Dynamics Laboratory, Oceanography Seminar, March 2018

Williams College, Geosciences Seminar, February 2018

University of Massachusetts – Dartmouth, Estuarine and Ocean Sciences Seminar, November 2017

Lamont-Doherty Earth Observatory, Biology and Paleoenvironment Seminar, March 2017

Wellesley College, Geosciences Seminar, February 2017

University of New Hampshire, Earth Sciences Department Seminar, February 2017

Colby College, Geology Department Seminar, February 2017

Oberlin College, Geology Department Seminar, January 2017

Woods Hole Oceanographic Institution, Marine Chemistry and Geochemistry Seminar, January 2017

University of Victoria, Earth and Ocean Sciences Department Seminar, October 2016

TEACHING EXPERIENCE:

Boston College, Department of Earth and Environmental Sciences

Crisis and Storytelling in the Age of Climate Change (EESC 1720/ENGL 1733), Fall 2021
Environmental Data Exploration and Analysis (EESC 4464/6664), Spring 2020, 2021, and 2022
Oceanography (EESC 1157), Fall 2020
Marine Biogeochemistry (EESC 5540), Fall 2020

Wellesley College, Department of Geosciences
The Dynamic Earth (GEOS 102), Fall 2018, Spring 2019
Oceanography (GEOS 208), Fall 2018
Earth System Data Science (GEOS 215), Spring 2019

Woods Hole Diversity Committee Partnership Education Program
Chemical Oceanography course module, July 2017

The Evergreen State College
General Chemistry II with Laboratory, July – Sept. 2014

Guest Instructor
Water Pollution, Harvard T. H. Chan School of Public Health, April 2021 and April 2022
Understanding & Protecting Our Oceans in the Wake of Climate Change (BIOL170601/ ENVS107501), Boston College, March 2021
Oceans in the Global Carbon Cycle, Sea Education Association, Feb. 2019 and Feb. 2020
Case Studies and Thesis Design, The Evergreen State College, Oct. 2015
The Earth System and Climate (ESS 201), Univ. of WA, May 2015
General Chemistry (Chemistry 161), North Seattle College, Nov. 2014
Climate Change Impacts on Marine Ecosystems (ENVIR 330), Univ. of WA, May 2014
Our Changing Oceans: Science and Policy, The Evergreen State College, Feb. 2014
Seminar on Current Research in Climate Change (OCEAN 475), Univ. of WA, Oct. 2013
Pick Colloquium on Fisheries, Amherst College, Feb. 2009

Teaching Assistant, Univ. of Washington School of Oceanography
Senior Thesis Capstone Sequence (OCEAN 443, 444, 445), Sept. 2012 – June 2013
Principles of Oceanography (OCEAN 200), Mar. – June 2012

Marine Science Shipboard Educator
Schooner Quinnipiack, Mar. – Oct. 2009
Schooner SoundWaters, Aug. – Nov. 2008

MENTORSHIP:

Boston College
- Dr. Kristen Fogaren, Postdoctoral Research Fellow, Sept. 2020 – present
- Jake Supino, PhD student, Aug. 2021 – present
- Meg Yoder, PhD student, Aug. 2020 – present
- Jose Cuevas, MS student, Aug. 2020 – present
- Stevie Walker, '21 (senior thesis student), Aug. 2020 – present
- *Committee member:* Danielle LeBlanc (PhD), Kasey Cannon (PhD), Fengyao Li (PhD), Kameko Landry (MS '22), Drew Gorin (MS '20), Sarah Jonathan (MS '20)

Wellesley College
- Claire Hayhow '21, Summer 2019
- Thanda Newkirk '21, Summer 2019
- Lucy Wanzer, '19 (senior thesis student), Jan. 2018 – May 2019
- Emma Jackman '19, Summer 2018
- Sarah Smith-Tripp, '19, Jan. – Feb. 2018

Woods Hole Oceanographic Institution
- Kanieka Neal (U. Maryland-Eastern Shore '18), Summer 2017

University of Washington School of Oceanography

- 11 undergraduate senior thesis students as course TA, 2012-2013 academic year
- Gregory Ikeda, '12, Feb. – Sept. 2013
- Mariela White (née Tuquero), '13, Jan. 2012 – Feb. 2013
- Veronica Tamsitt, '12, Summer 2010 and 2011

PROFESSIONAL SERVICE:

Reviewer for: *Progress in Oceanography*, *Geophysical Research Letters, Journal of Geophysical Research: Oceans*, *Global Biogeochemical Cycles*, *Limnology and Oceanography*, *Deep-Sea Research Part I*, *National Science Foundation (panelist and reviewer), National Defense Science and Engineering Graduate (NDSEG) fellowship program*

Ocean Observatories Initiative (OOI)

Biogeochemical Sensor Data Working Group, Co-Lead Organizer, May 2021 – present

- Convened a 25-person Working Group to develop a Best Practices and User Guide for OOI Biogeochemical Sensor Data and build a community of practice around potential scientific applications of these data
- Organized regular virtual Working Group meetings beginning with a 3-day kickoff workshop in July 2021
- Organized an in person workshop held June 16-18, 2022 in Woods Hole, MA
- Invited presentations at December 2021 OOI Facility Board Meeting and February 2022 OOI Facility Board Town Hall at the Ocean Sciences Meeting

Pioneer Array Relocation Focus Group, December 2021 – present

Boston College

Earth and Environmental Sciences Sedimentary Processes Search Committee, July 2021 – present
Earth and Environmental Sciences Diversity and Inclusion Committee, Sept. 2019 – July 2021
Courageous Conversations towards Racial Justice Facilitation Team, Sept. 2019 – present
Faculty Mentor, Spectrum Retreat for LGBTQ+ Students, Feb. 2020
Earth and Environmental Sciences Colloquium Organizer, 2019-2020 academic year

Society for Women in Marine Science

Advisory Committee, July 2018 – June 2019
Steering Committee, October 2016 – June 2018

Woods Hole Oceanographic Institution Postdoctoral Association

President, Oct. 2016 – Oct. 2017; At Large Member, Oct. 2017 – June 2018
Postdoc representative, Gender Equity Program Advisory Committee, Nov. 2016 – Dec. 2017

Gordon Research Seminar (GRS) in Chemical Oceanography

Co-Chair, July 2015 – July 2017, for GRS held July 22-23, 2017 in New London, NH

Graduate Climate Conference (GCC)

Carbon Cycle Session Chair, GCC8 (2014)
Fundraising Co-Chair, Organizing Committee, Abstract Committee, GCC6 (2012)

University of Washington

School of Oceanography Undergraduate Academic Affairs Committee, Sept. 2015 – June 2016
Program on Climate Change Graduate Student Seminar Co-Organizer, Mar. 2014 – June 2016
College of the Environment Curriculum Committee, June 2013 – June 2015
Program on Climate Change Graduate Student Representative, Sept. 2013 – Aug. 2014
School of Oceanography Graduate Student Representative, Oct. 2011 – July 2012

PROFESSIONAL DEVELOPMENT AND WORKSHOP PARTICIPATION:

EARTH AND ENVIRONMENTAL SCIENCES:

CMIP6 Hackathon, National Center for Atmospheric Research
Oct. 2019, Boulder, CO

Synthesis and intercomparison of ocean carbon uptake in CMIP6 models: Community workshop
Dec. 2018, Washington, D.C. – sponsored by the Ocean Carbon and Biogeochemistry program

OceanHackWeek, Data Science + Oceanography, University of Washington e-Science Institute
August 2018, Seattle, WA

Invited Visitor, National Center for Atmospheric Research, Climate and Global Dynamics Laboratory
March 2018, Boulder, CO

Dissertations Symposium in Chemical Oceanography (DISCO XXV)
Oct. 2016, Honolulu, HI

Surface Ocean-Lower Atmosphere Study (SOLAS) Summer School
Aug. – Sept. 2013, Xiamen, China

UW Program on Climate Change Summer Institutes, Friday Harbor Labs, WA
Interactions between Terrestrial Ecosystems, Land Surface Processes and Climate, Sept. 2015
Climate Variability and Uncertainty, Sept. 2014
Response of Marine Ecosystems to Climate Forcing: Causes and Consequences, Sept. 2013
The Water Cycle in a Changing Climate, Sept. 2011
Climate Feedbacks, Sept. 2010

Indiana University Geology Field School in Environmental Geology
June – Aug. 2005, Tobacco Root Mountains, MT

TEACHING AND OUTREACH:

Complex Problems & Enduring Questions Course Design Workshop
Boston College Core Office, February – May 2021

Teaching for Inclusion and Social Justice Faculty Cohort
April 2020 – May 2021, Boston College Center for Teaching Excellence

Center for Ocean Leadership-Ocean Science Educators Retreat (COL-OSER)
Workshop on Retention of Women in Academic Ocean Sciences, Invited Participant
November 2020, online format due to COVID-19

On the Cutting Edge: Early Career Geoscience Faculty Workshop
July 2020, online format due to COVID-19

Ocean Observatories Initiative Data Lab Fellowship
January 2020 – May 2021

On the Cutting Edge: Preparing for an Academic Career in the Geosciences
June 2015, Madison, WI

An Introduction to Evidence-Based Undergraduate STEM Teaching (completed with distinction)
Sept. – Nov. 2014, offered online from Vanderbilt University

Teaching and Learning in Higher Education
Jan. – Mar. 2014, 2 credit course at the Univ. of Washington

COMPASS Science Communication Training Workshop
Oct. 2013, 1 credit course at the Univ. of Washington

Teaching Assistant Training
Sept. 2011, 2 credit course at the Univ. of Washington

OUTREACH:

Co-host for episode "Diatomaceous Breath" of YouTube educational video series "Every Rock Has a Story" with Ethan Baxter, September 2021

International Women's Day interview with OOI Community Engagement team for profile, March 2021

Williams-Mystic Alumni Panel: Careers in Academia, January 2021

Guest on a podcast episode created by the Ground Zero Radio/Art collective (a group of high school students in Washington): "Earth Focus: Climate Change and Ocean Acidification," June 2020

Climate science speaker for a post-show conversation about *The Last Catastrophist* by David Valdes, Fresh Ink Theater, Boston Center for the Arts, January 2020

Weston Observatory Public Colloquium Series lecture on "The Ocean's Role in Global Climate Change," Dec. 2019

Letters to a Pre-Scientist Pen Pal, Sept. 2012 – Feb. 2020

"Science Steps Out" presentation at the Woods Hole Public Library, April 2017

Falmouth Public Schools Science and Engineering Fair Judge, Mar. 2017

Ocean Inquiry Project, Volunteer Instructor, May 2011 – July 2016

Presentations (12) to high school classes on climate change and ocean acidification, 2013 – 2017

High school teacher trainings, Workshop leader, June 2014, Oct. 2014, and Oct. 2015

Amherst Pathways Mentor to an undergraduate Chemistry major, Jan. – June 2015

Central Sound Regional Science and Engineering Fair Mentor, Jan. – Mar. 2015

5th Grade Science Fair Mentor, John Stanford International School, Jan. – April 2014

C2S2 Climate Change Student Summit, Science Mentor, April 2012

Educurious Expert Mentor, Ecological Impacts of Climate Change (9th grade), Oct. – Dec. 2011

FIELD WORK:

Irminger Sea recovery/redeployment cruises for the Ocean Observatories Initiative
R/V Neil Armstrong, June 2018 (3 weeks) and August 2019 (4 weeks)

Kuroshio Extension student cruise in the Northwest Pacific Ocean (PIs S. Emerson and S. Riser)
R/V Melville, February-March 2013, 4 weeks

Vessel of opportunity cruises from Hong Kong to Long Beach, CA, USA
M/V OOCL Tokyo, May 2011 and January-February 2012, each 2 weeks
M/V OOCL Tianjin, July-August 2012, 2 weeks

PRISM Puget Sound time series cruise
R/V Thomas G. Thompson, November 2010, 2 days

International Bottom Trawl Survey of the North Sea, Scottish Fisheries Research Services
FRV Scotia, February 2008, 1 week

Northern Shrimp Survey, Marine Research Institute of Iceland
R/V Bjarni Sæmundsson, July 2007, 2 weeks

The Hydrodynamics and Biogeochemistry of Bioluminescent Bays, Keck Geology Consortium
Vieques, Puerto Rico, June 2006, 2 weeks

Williams-Mystic Maritime Studies Program Offshore Field Seminar, Gulf of Maine
SSV Corwith Cramer, August – September 2005, 10 days

CONFERENCE PRESENTATIONS:

Palevsky, H. I., K. Fogaren, J. Supino, K. Fall, D. Perkey, L. Tedesco, Constraints on Salt Marsh Carbon Cycling from Autonomous Biogeochemical Measurements at the Seven Mile Island Innovation Laboratory in Coastal New Jersey. TOS/ASLO/AGU Ocean Sciences Meeting, Virtual, 28 February 2022. Oral presentation.

Palevsky, H. I., C. L. Greengrove, C. S. Lichtenwalner, A. Pfeiffer-Herbert, S. Severmann, D. C. Soule, S. Murphy, L. Smith, and K. Yarincik (2020), Using Authentic Data from NSF's Ocean Observatories Initiative in Undergraduate Teaching. TOS/ASLO/AGU Ocean Sciences Meeting, San Diego, CA, 16-21 February 2020. Oral presentation.

Palevsky, H. I., D. P. Nicholson, and L. Wanzer (2020), Annual Oxygen Budget for the Subpolar North Atlantic using Air-calibrated Glider and Mooring Data from the Ocean Observatories Initiative Irminger Sea Array. TOS/ASLO/AGU Ocean Sciences Meeting, San Diego, CA, 16-21 February 2020. Poster presentation.

Palevsky, H. I. and D. P. Nicholson (2020), Air-calibrated Glider and Mooring Oxygen Data from the OOI Irminger Sea Array: Invited presentation as part of the Ocean Observatories Initiative Facility Board Town Hall. TOS/ASLO/AGU Ocean Sciences Meeting, San Diego, CA, 16-21 February 2020. Oral presentation.

Palevsky, H. I. and S. C. Doney (2018), Sensitivity of ocean carbon export flux projections to the choice of export depth horizon. AGU Fall Meeting, Washington, D.C., 10-14 December 2018. Oral presentation.

Palevsky, H. I. (2018), The annual cycle of the biological carbon pump at the OOI Irminger Sea Array: Invited presentation as part of the Ocean Observatories Initiative Facility Board Town Hall. AGU Fall Meeting, Washington, D.C., 10-14 December 2018. Oral presentation.

Palevsky, H. I. and D. P. Nicholson (2018), Seasonal export, thermocline respiration, and winter ventilation in the subpolar North Atlantic. TOS/ASLO/AGU Ocean Sciences Meeting, Portland, OR, 12-16 February 2018. Oral presentation.

Palevsky, H. I. (2018), Biogeochemistry at the Ocean Observatories Initiative Irminger Sea Array: Invited presentation as part of the Ocean Observatories Initiative Facility Board Town Hall. TOS/ASLO/AGU Ocean Sciences Meeting, Portland, OR, 12-16 February 2018. Oral presentation.

Palevsky, H. I. and D. P. Nicholson (2017), The North Atlantic biological pump: Insights from the Ocean Observatories Initiative Irminger Sea Array. Irminger Sea Regional Science Workshop, Southampton, UK, November 8-9 2017. Oral presentation.

Palevsky, H. I., P. D. Quay, S. C. Doney, and C. Deutsch (2017), Influence of the biological pump on air-sea CO_2 flux depends on the magnitude and seasonal timing of physical processes. Ocean Carbon Hot Spots Workshop, Moss Landing, CA, September 25-26 2017. Poster

Palevsky, H. I. and S. C. Doney (2017), How choice of depth horizon influences estimated spatial patterns and global magnitude of ocean carbon export flux. Chemical Oceanography Gordon Research Conference, New London, NH, July 23-28 2017, and Ocean Carbon and Biogeochemistry Workshop, Woods Hole, MA, June 26-29 2017. Poster.

Palevsky, H. I. and P. D. Quay (2016), Influence of the biological pump on carbon uptake over the annual cycle across the North Pacific Ocean. TOS/ASLO/AGU Ocean Sciences Meeting, New Orleans, LA, 21-26 February 2016. Oral presentation.

Palevsky, H. I., (2015) Ocean acidification data analysis in the chemistry classroom. American Association of Colleges and Universities STEM Conference, Seattle, WA, November 12-14 2015. Poster.

Palevsky, H. I., P. D. Quay, D. E. Lockwood, D. P. Nicholson (2015), Winter ventilation depth controls annual net community production and export efficiency across the North Pacific Ocean, Chemical Oceanography Gordon Research Seminar and Conference, Holderness, NH, July 25-31 2015. Poster.

Palevsky, H. I., P. D. Quay, D. E. Lockwood, D. P. Nicholson (2015), The annual cycle of gross primary production, net community production and export efficiency across the North Pacific Ocean, Ocean Carbon and Biogeochemistry Workshop, Woods Hole, MA, July 20-23 2015. Poster.

Palevsky, H. I., D.E. Lockwood, E. J. Armstrong, P. D. Quay (2014) Rates and efficiency of the North Pacific biological pump. Graduate Climate Conference, Pack Forest, WA, October 31 – November 2 2014. Poster.

Palevsky, H. I., D.E. Lockwood, E. J. Armstrong, P. D. Quay (2014) Gross primary production and net community production rates across the North Pacific from triple oxygen isotopes and oxygen/argon dissolved gas ratios. TOS/ASLO/AGU Ocean Sciences Meeting, Honolulu, HI, 23-28 February 2014. Oral presentation.

Palevsky, H.I., Armstrong, E.J., and Quay, P.D. (2012) Quantifying the biological pump: comparing in-situ and satellite-based observations. Graduate Climate Conference, Pack Forest, WA, 26-28 October 2012. Poster.

Palevsky, H.I., Ribalet, F., Cosca, C.E., Swalwell, J.E., Cokelet, E.D., Quay, P.D., Feely, R.A., and Armbrust, E.V. (2012) Explaining a narrow region of high CO_2 uptake in the Gulf of Alaska: The role of biological production and phytoplankton community structure. TOS/ASLO/AGU Ocean Sciences Meeting, Salt Lake City, UT, 20-24 February 2012. Abstract #10039. Poster.

Palevsky, H.I., Ribalet, F., Cosca, C.E., Swalwell, J.E., Cokelet, E.D., Quay, P.D., Feely, R.A., and Armbrust, E.V. (2011) Using biological productivity and phytoplankton community structure to understand oceanic CO_2 uptake: A case study from the Gulf of Alaska. Graduate Climate Conference, Woods Hole, MA, 28-30 October, 2011. Oral presentation.

Palevsky, H., Ribalet, F., Cosca, C.E., Quay, P., Armbrust, E.V., and Feely, R.A. (2010) Biological productivity, phytoplankton community structure and air-sea CO_2 flux in the surface waters of the Gulf of Alaska. American Geophysical Union Fall Meeting, San Francisco, CA, 13-17 December 2010. Abstract #OS51A-1271. Poster.

Palevsky, H.I., A.M. Martini, and Ku, T.C.W. (2007) The pore water chemistry, microbial processes, and trace metal mobility of bioluminescent bays. Geological Society of America Northeastern Meeting, Durham, NH, 12-14 March 2007. Abstract #117605. Poster.

PROFESSIONAL AFFILIATIONS:

The Oceanography Society (2015 – present)

National Association of Geoscience Teachers (2015 – present)

Earth Science Women's Network (2014 – present)

American Geophysical Union (2010 – present)

Sigma Xi (2007 – present)