

DR. JACLYN CLEMENT KINNEY

CONTACT INFO

Naval Postgraduate School
Department of Oceanography
833 Dyer Road
Monterey, CA 93943 USA

Cell: 831.601.4935
Office: 831.656.3226
Email: jlcllemen@nps.edu
Website: <http://faculty.nps.edu/jlcllemen>

EDUCATION

- 2011 Ph.D. Physical Oceanography, Naval Postgraduate School
Dissertation title: The Bering Sea: Communication with the Western Subarctic Gyre, mesoscale activity, shelf-basin exchange and the flow through Bering Strait
- 2005 M.S. Physical Oceanography, Naval Postgraduate School
Thesis title: Ocean circulation and exchanges through the Bering Sea: 1979-2001 model results
- 2002 M.S. Ecology and Evolutionary Biology, Concentration in Biological Oceanography, University of Tennessee, Knoxville
Thesis title: Using a Geographical Information System approach to assess sea ice impacts on a productive benthic system in the northern Bering Sea
- 2000 B.S. Biology (*summa cum laude*), University of Tennessee, Knoxville

POSITIONS HELD

- 2021 – Research Associate Professor, Naval Postgraduate School
2011 – 2021 Research Assistant Professor, Naval Postgraduate School
2002 – 2011 Research Associate, Naval Postgraduate School
2000 – 2002 Research Assistant, University of Tennessee

PROFESSIONAL ACTIVITIES AND ASSOCIATIONS

- 2024 – Editor-in-Chief of the American Geophysical Union’s Earth and Space Science Open Archive
- 2024 – Coupled Model Intercomparison Project version 7 (CMIP7) Earth System Author Team
- 2024 – Alaska Harmful Algal Bloom Network
- 2024 Panelist for the Interagency Arctic Research Policy Committee (IARPC) Modelers and Marine Ecosystems Communities of Practice webinar entitled “Biases in the Arctic Marine Carbon Cycle”
- 2023 – Co-lead for the Biophysical Land-Sea Interactions Science Area of the HiLAT-RASM project
- 2022 – Organizing committee member for the Consortium for the Advancement of Marine Arctic Science workshop series
- 2022 Session co-convenor at the American Geophysical Union Fall Meeting
- 2020 – Monterey Area Research Institutions’ Network for Education (MARINE) liaison for Naval Postgraduate School

- 2020 – 2024 Editor for the American Geophysical Union’s Earth and Space Science Open Archive
- 2020 – 2023 Faculty Council Representative at Naval Postgraduate School
- 2012 “Foundations of Teaching and Learning” course for instructors at Naval Postgraduate School
- 2012 “Roundtable Book Seminar” for instructors at Naval Postgraduate School
- 2011 Session co-convener at the Arctic Science Summit Week, Seoul, Korea
- 2002 – American Geophysical Union member

TEACHING

- 2012 – 2014, 2025 Descriptive Physical Oceanography, Naval Postgraduate School
- 2009 – 2013, 2019 – 2025 Polar Oceanography and Meteorology, contributing lecturer, Naval Postgraduate School

ADVISING

- Advisor for students at the Naval Postgraduate School
 - Advisor for Lauren Dulle (2024-present)
 - Advisor for Casey Burgener (2022-2023)
 - 2nd reader for Michael Becker (2020-2021)
 - Co-advisor for James Scianna (2012-2013)

MEDIA

- 2024 American Geophysical Union interview and article: Clement Kinney, J. (2024), Introducing the new Editor-in-Chief of the ESS Open Archive, Eos,105, <https://doi.org/10.1029/2024EO245022>.
- 2022 Naval Postgraduate School Office of Communications interview and article: <https://nps.edu/-/nps-researchers-explore-the-impact-of-sea-ice-change-in-bering-sea>
- 2021 Naval Postgraduate School Office of Communications interview and article: <https://nps.edu/-/nps-led-research-reveals-greater-abundance-of-life-under-arctic-ice-than-previously-thought>
- 2020 American Geophysical Union Eos Research Spotlight interview and article: <https://eos.org/research-spotlights/most-of-the-arctics-microscopic-algae-are-chilling-under-ice>
- 2012 “Inside NPS” interview by Alan Richmond for the television program which was broadcast on the Pentagon Channel

FUNDED PROPOSALS

(Award is processing) Harmful Algal Blooms in the Pacific Arctic: Modeling the Past and Predicting the Future

- Sponsor: National Science Foundation (Arctic Natural Science)
- Role: PI
- Dates: 05/01/25 – 04/30/28
- Funding amount: \$1,345,211.00

Advancing Arctic Regional Modeling and Prediction Capability

Sponsor: Office of Naval Research
 Role: Co-PI
 Dates: 06/29/24 – 12/31/24
 Funding Amount: \$220,055.55
 Arctic-Refined and Eddy-Resolving E3SM Ocean and Sea Ice Model to Advance Understanding of Oceanic Forcing of Sea Ice
 Sponsor: Department of Energy
 Role: Co-PI
 Dates: 03/13/24 – 08/31/26
 Funding Amount: \$631,363.58
 HiLAT-RASM Phase III: Drivers and Impacts of Polar Amplification: A Unifying Approach to Improving Projections of High-Latitude Earth Systems Change
 Sponsor: Department of Energy (Regional and Global Model Analysis)
 Role: Co-PI
 Dates: 10/01/22 – 09/30/25
 Funding Amount: \$1,418,999.96
 Understanding Arctic Marine Biogeochemical Response to Climate Change for Seasonal to Decadal Prediction Using Regional and Global Climate Models
 Sponsor: National Science Foundation (Arctic System Science)
 Role: Co-PI
 Dates: 10/01/14 – 12/01/20
 Funding amount: \$901,021.00

AWARDS AND HONORS

Top 10% of most downloaded AGU journal articles (Clement Kinney et al. 2020)
 International Arctic Science Committee Travel Grant, 2011
 International Arctic Science Committee Travel Grant, 2010
 State of the Arctic Student Travel Scholarship, 2010
 International Polar Year Oslo Stipend Award, 2010
 International Arctic Research Center Summer School on the Modeling of Arctic Climate Scholarship, 2008
 Arctic System Science Student Travel Award, 2002

PUBLICATIONS

Clement Kinney, J., C. Burgener, Y. Lee, W. Maslowski, R. Osinski, A. Craig (2025) On the sensitivity of the Pacific Arctic sea ice and ocean to the flow through Bering Strait, *Journal of Geophysical Oceans*, in prep.
 Gaffey, C. B., K.E. Frey, J. Rogan, L. Estes, L.W. Cooper, J. **Clement Kinney**, J.M. Grebmeier (2025) Drivers of fall phytoplankton blooms in the northern Bering and Chukchi seas, *Journal of Geophysical Research: Oceans*, in review.
 Weijer, W., M. Veneziani, J. **Clement Kinney**, W. Maslowski, J. Zhang, M. Steele (2024) Advancing Marine Arctic Science Through Facilitating International Collaborations, *Bulletin of the American Meteorological Society*, <https://doi.org/10.1029/2022JC019000>
Clement Kinney, J., M. Frants, W. Maslowski, R. Osinski, N. Jeffery, M. Jin, Y. J. Lee (2023) Evaluation of Under Sea-ice Phytoplankton Blooms in the Fully-Coupled,

- High-Resolution Regional Arctic System Model, *Journal of Geophysical Research: Oceans*, 128, e2022JC019000, <https://doi.org/10.1029/2022JC019000>.
- Lee, Y. J., Watts, M., W. Maslowski, J. **Clement Kinney**, R. Osinski (2023a) Assessment of the pan-Arctic accelerated rate of sea ice decline in CMIP6 historical simulations, *Journal of Climate*, 36(17), 6069–6089, <https://doi.org/10.1175/JCLI-D-21-0539.1>
- Lee, Y. J., W. Maslowski, J. Cassano, J. **Clement Kinney**, A. Craig, S. Kamal, R. Osinski, M. Seefeldt, J. Stroeve, H. Wang (2023b) Causes and Evolution of Winter Polynyas North of Greenland, *The Cryosphere*, 17, 233–253, <https://doi.org/10.5194/tc-17-233-2023>
- Clement Kinney**, J., W. Maslowski, R. Osinski, Y. J. Lee, C. Goethel, K. Frey, A. Craig (2022a) On the variability of the Bering Sea Cold Pool and implications for the biophysical environment. *PLoS ONE* 17(4), e0266180, <https://doi.org/10.1371/journal.pone.0266180>.
- Clement Kinney**, J., K. M. Assmann, W. Maslowski, G. Björk, M. Jakobsson, S. Jutterström, Y. J. Lee, R. Osinski, I. Semiletov, A. Ulfso, I. Wählström, L. G. Anderson (2022b) On the circulation, water mass distribution, and nutrient concentrations of the western Chukchi Sea. *Ocean Science*, 18, 29–49, <https://doi.org/10.5194/os-18-29-2022>.
- Gibson, G., S. M. Elliott, A. Piliouras, J. **Clement Kinney**, N. Jeffery (2022) Assessing the potential impact of river chemistry on Arctic coastal production, *Frontiers in Marine Science*, 9:738363, <https://doi.org/10.3389/fmars.2022.738363>
- Frey, K. E., J. **Clement Kinney**, L. V. Stock, R. Osinski (2022) Observations of Declining Primary Production in the Western Bering Strait, *Oceanography*, 35(2), <https://doi.org/10.5670/oceanog.2022.123>
- Dethloff K., W. Maslowski, S. Hendricks, Y. Lee, H. F. Goessling, T. Krumpfen, C. Haas, D. Handorf, R. Ricker, V. Bessonov, J. Cassano, J. **Clement Kinney**, R. Osinski, A. Rinke, J. Sokolova, A. Sommerfeld (2022) Arctic sea ice anomalies in the Barents Sea during the MOSAiC winter 2019/20, *The Cryosphere*, 16, 981–1005 <https://doi.org/10.5194/tc-16-981-2022>.
- Watts, M., W. Maslowski, Y. J. Lee, J. **Clement Kinney**, R. Osinski (2021) A Spatial Evaluation of Arctic Sea Ice and Regional Limitations in CMIP6 Historical Simulations, *Journal of Climate*, 34(15), 6399–6420, doi.org/10.1175/JCLI-D-20-0491.1.
- Clement Kinney**, J., W. Maslowski, R. Osinski, M. Jin, M. Frants, N. Jeffery, Y. Lee (2020) Hidden production: On the importance of pelagic phytoplankton blooms beneath Arctic sea ice. *Journal of Geophysical Research: Oceans*, 125(9), doi.org/10.1029/2020JC016211.
- Jayasinghe, A. S. Elliott, A. Piliouras, J. **Clement Kinney**, G. Gibson, N. Jeffery, F. Hoffman, J. Kumar, O. Wingenter (2020) Modeling Functional Organic Chemistry in Arctic Rivers: An Idealized Siberian System, *Atmosphere*, 11, 1090, [doi:10.3390/atmos11101090](https://doi.org/10.3390/atmos11101090).
- Citta, J. J., Lori T. Quakenbush, Okkonen S. R., Druckenmiller, M. L., Maslowski, W., **Clement Kinney**, J., George J. C., Brower H., Small, R. J., Ashjian, C. J., Harwood, L. A., Heide-Jørgensen, M. P. (2015) Ecological characteristics of core-use areas used by Bering–Chukchi–Beaufort (BCB) bowhead whales, 2006–

- 2012, Progress in Oceanography 136, 201-222, <http://doi.org/10.1016/j.pocean.2014.08.012>
- Clement Kinney**, J., W. Maslowski, Y. Aksenov, B. de Cuevas, J. Jakacki, A. Nguyen, R. Osinski, M. Steele, R. A. Woodgate, J. Zhang (2014) On the Flow Through Bering Strait: A Synthesis of Model Results and Observations, In: The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment, J. M. Grebmeier and W. Maslowski, eds.
- Deal, C.J., N. Steiner, J. Christian, J. **Clement Kinney**, K. Denman, S. Elliott, G. Gibson, M. Jin, D. Lavoie, S. Lee, W. Lee, W. Maslowski, J. Wang, E. Watanabe (2014) Progress and Challenges In Biogeochemical Modeling Of The Pacific Arctic Region, In: The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment, J. M. Grebmeier and W. Maslowski, eds.
- Frey, K, J. Maslanik, J. **Clement Kinney**, W. Maslowski (2014) Recent Variability in Sea Ice Cover, Age, and Thickness in the Pacific Arctic Region. In: The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment, J. M. Grebmeier and W. Maslowski, eds.
- Maslowski, W., J. **Clement Kinney**, S.R. Okkonen, R. Osinski, A.F. Roberts, W. Williams (2014) The Large Scale Ocean Circulation and Physical Processes Controlling Pacific-Arctic Interaction. In: The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment, J. M. Grebmeier and W. Maslowski, eds.
- Williams, B., E. Shroyer, J. **Clement Kinney** M. Itoh, W. Maslowski (2014) Shelf-break Exchange in the Bering, Chukchi and Beaufort Seas, In: The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment, J. M. Grebmeier and W. Maslowski, eds.
- Clement Kinney**, J. and W. Maslowski (2012) On the oceanic communication between the Western Subarctic Gyre and the deep Bering Sea, Deep Sea Research Part I Oceanographic Research Papers 66:11–25.
- Maslowski, W., J. **Clement Kinney**, M. Higgins, A. Roberts (2012) The Future of Arctic sea ice, Earth and Planetary Science Annual Review, 40(1):625-654
- Proshutinsky, A., Y. Aksenov, J. **Clement Kinney**, R. Gerdes, E. Golubeva, D. Holland, G. Holloway, A. Jahn, M. Johnson, E. Popova, M. Steele, and E. Watanabe (2011) Recent advances in Arctic ocean studies employing models from the Arctic Ocean Model Intercomparison Project. *Oceanography* 24(3):102–113, <http://dx.doi.org/10.5670/oceanog.2011.61>.
- Clement Kinney**, J., W. Maslowski, S. Okkonen (2009) On the processes controlling shelf-basin exchange and outer shelf dynamics in the Bering Sea. Deep-Sea Res. II, Vol. 56, 1351-1362, doi:10.1016/j.dsr2.2008.10.023.
- Okkonen, S. R., C. J. Ashjian, R. G. Campbell, W. Maslowski, J. **Clement Kinney**, R. Potter (2009) Intrusion of warm Bering/Chukchi waters onto the shelf in the western Beaufort Sea, Journal of Geophysical Research, 114, C00A11, doi:10.1029/2008JC004870.
- Clement Kinney**, J., W. Maslowski (2008) Results of recent Pacific-Arctic ice-ocean modeling studies at the Naval Postgraduate School, Chinese Journal of Polar Science, Vol. 19, No. 2, 230-236.

- Maslowski, W., J. **Clement Kinney**, D. C. Marble, J. Jakacki (2008) Towards eddy-resolving models of the Arctic Ocean. In: Ocean Modeling in an Eddying Regime, M. W. Hecht and H. Hasumi, eds. Geophysical Monograph Series, Volume 177, 350 pp.
- Maslowski, W., R. Roman, J. **Clement Kinney** (2008) Effects of mesoscale eddies on the flow of the Alaska Stream, *Journal of Geophysical Research*, 113, C07036.
- Moore, S.E., K.E. Wynne, J. **Clement Kinney**, J.M. Grebmeier (2007) Gray whale occurrence and forage southeast of Kodiak, Island, Alaska. *Marine Mammal Science*, 23(2): 419-428.
- Maslowski, W., J. **Clement Kinney**, J. Jakacki (2007) Towards Prediction of Environmental Arctic Change, *Computing in Science and Engineering*, Vol. 9, No. 6, 29-34.
- Rinke, A., W. Maslowski, K. Dethloff, J. **Clement** (2006) Influence of sea ice on the atmosphere: A study with an Arctic atmospheric regional climate model, *Journal of Geophysical Research*, 111, D16103, doi:10.1029/2005JD006957.
- Clement**, J. L., W. Maslowski, L. Cooper, J. Grebmeier, W. Walczowski (2005) Ocean circulation and exchanges through the northern Bering Sea - 1979-2001 model results. *Deep Sea Research II*, 52, 3509-3540, doi: 10.1016/j.dsr2.2005.09.010.
- Lehmann, M. F., D. M. Sigman, D. C. McCorkle, B. G. Brunelle, S. Hoffmann, M. Kienast, G. Cane, J. **Clement** (2005) Origin of the deep Bering Sea nitrate deficit: Constraints from the nitrogen and oxygen isotopic composition of water column nitrate and benthic nitrate fluxes, *Global Biogeochemical Cycles*, 19, GB4005, doi:10.1029/2005GB002508.
- Maslowski, W., Marble, D., Walczowski, W., Schauer, U., **Clement**, J.L., Semtner, A.J., (2004) On climatological mass, heat, and salt transports through the Barents Sea and Fram Strait from a pan-Arctic coupled ice-ocean model simulation. *Journal of Geophysical Research* 109, C03032.
- Clement**, J. L., L. W. Cooper, J. M. Grebmeier (2004) Late winter water column and sea ice conditions in the northern Bering Sea. *Journal of Geophysical Research*, 109(C3), C03022, doi: 10.1029/2003JC002047.

INVITED CONFERENCE PRESENTATIONS

- Clement Kinney**, J., M. Frants, W. Maslowski, R. Osinski, N. Jeffery, Y. J. Lee. Pelagic under-sea ice phytoplankton blooms in the Arctic: Results from a high-resolution, Arctic-focused, regional model, Stanford University, Department of Oceans Seminar, May 24, 2024.
- Clement Kinney**, J., W. Maslowski, R. Osinski, Y. J. Lee, C. Goethel, K. Frey, A. Craig On the variability of the Bering Sea Cold Pool and implications for the biophysical environment, Pacific Arctic Group / Distributed Biological Observatory Meeting, online, December, 2022.
- Clement Kinney**, J., W. Maslowski, R. Osinski, M. Steele, J. Zhang, R. A. Woodgate. On the flow through Bering Strait and its potential impact on sea ice in the Chukchi Sea. Ocean Sciences Meeting, Portland, Oregon, 22-26 February, 2010.
- Clement**, J., W. Maslowski, L. Cooper, J. Grebmeier, W. Walczowski Ocean Circulation and Exchanges Through the Bering Sea: 1979-2001 Model Results. University of Alaska, Fairbanks, AK, 26 February – 1 March, 2006.

SELECTED CONFERENCE PRESENTATIONS

- Clement Kinney, J., C. Burgener, Y. Lee, W. Maslowski, R. Osinski, A. Craig.** On the sensitivity of the Pacific Arctic sea ice and ocean to the flow through Bering Strait, American Geophysical Union, Washington D.C., Dec. 9-13, 2024.
- Clement Kinney, J.,** Uncovering the hidden primary production beneath Arctic sea ice. Department of Energy, Earth and Environmental Systems Modeling (EESM) Program, Principal Investigators Meeting, Rockville, MD, August 6-9, 2024.
- Clement Kinney, J., M. Frants, W. Maslowski, R. Osinski, N. Jeffery, M. Jin, Y. J. Lee.** On how light and nutrient limitation affects the development of under-sea ice phytoplankton blooms in the Arctic Ocean and marginal seas, Ocean Sciences Meeting, New Orleans, LA, Feb. 19-23, 2024.
- Clement Kinney, J.** A collaborative opportunity: Combining model results and observations to reduce uncertainty in primary production beneath and within Arctic sea ice, Consortium for the Advancement of Marine Arctic Science Workshop, Feb. 13-16, 2024.
- Clement Kinney, J., M. Frants, W. Maslowski, R. Osinski, N. Jeffery, M. Jin, Y. J. Lee.** Investigation of under-ice phytoplankton growth in the fully- coupled, high-resolution Regional Arctic System Model, NPS-Stanford Oceans meeting, Hopkins Marine Station, Feb. 9, 2024.
- Clement Kinney, J. and J. Zhang.** An Introduction to the Consortium for the Advancement of Marine Arctic Science (CAMAS): A new model/observational synthesis activity. Interagency Arctic Research Policy Committee (IARPC) - Physical Oceanography Community of Practice meeting, virtual, Nov. 5, 2023.
- Clement Kinney, J., M. Frants, W. Maslowski, R. Osinski, N. Jeffery, M. Jin, Y. J. Lee** Investigation of Under-Ice Phytoplankton Growth in the Fully-Coupled, High-Resolution Regional Arctic System Model (& more). HiLAT-RASM meeting, Hopkins Marine Station/Stanford, Pacific Grove, CA, Sept. 18-20, 2023.
- Clement Kinney, J., K. M. Assmann, W. Maslowski, G. Björk, M. Jakobsson, S. Jutterström, Y. J. Lee, R. Osinski, I. Semiletov, A. Ulfso, I. Wählström, L. G. Anderson.** On the circulation and water mass distribution of the western Chukchi Sea: A synthesis of observations and model results. Regional and Global Model Analysis – High Latitude Earth System Processes and Feedbacks Webinar Series, virtual, May 11, 2023.
- Clement Kinney, J., K. M. Assmann, W. Maslowski, G. Björk, M. Jakobsson, S. Jutterström, Y. J. Lee, R. Osinski, I. Semiletov, A. Ulfso, I. Wählström, L. G. Anderson.** On the circulation, water mass distribution, and nutrient concentrations of the western Chukchi Sea, American Geophysical Union Fall Meeting, December, 2022.
- Clement Kinney J., W. Maslowski, R. Osinski, Y. J. Lee, C. Goethel, K. Frey, A. Craig.** On the variability of the Bering Sea Cold Pool and sea ice cover during the period of 1980-2018 and implications for the biophysical environment, Ocean Sciences Meeting, March, 2022.
- Clement Kinney J., W. Maslowski, R. Osinski, Y. Lee.** On the interannual variability of sea ice in the Bering Sea and related changes in primary production and Cold Pool distribution, Arctic Science Summit Week, March, 2021.

- Clement Kinney, J.,** W. Maslowski, R. Osinski, Y. Lee. On the variability of the Bering Sea cold pool and implications for the biophysical environment, American Geophysical Union Fall Meeting, December, 2020.
- Clement Kinney, J.,** W. Maslowski, R. Osinski, M. Jin, M. Frants, N. Jeffery, Y. Lee. Quantification of the pelagic primary production beneath Arctic sea ice, Ocean Sciences Meeting, San Diego, CA, February 17-21, 2020, doi: 10.1002/essoar.10502377.1.
- Clement Kinney, J.,** W. Maslowski, R. Osinski, M. Frants, Y. Lee. On the importance of Arctic pelagic phytoplankton blooms beneath a thinning sea ice regime, American Geophysical Union Fall Meeting, December, 2019.
- Clement Kinney, J.,** W. Maslowski, M. Frants, R. Osinski. Quantifying diatom chlorophyll-*a* in open versus ice-covered waters of the Arctic: Results from the fully-coupled Regional Arctic System Model, Gordon Research Conference, Barga, Italy, 17-22 March, 2019.
- Clement Kinney, J.,** W. Maslowski, R. Osinski, J. Scianna. A Synthesis of Modeled Variability in the Bering Sea During 1948-2009. American Meteorological Society 12th Conference on Polar Meteorology and Oceanography, 29 April – 1 May, 2013.
- Clement Kinney, J.** Numerical Modeling for Process Studies of the Arctic and Subarctic. Pattullo Conference, 16-19 October, 2011.
- Clement Kinney, J.,** W. Maslowski, Y. Aksenov, B. de Cuevas, J. Jakacki, A. Nguyen, R. Osinski, M. Steele, R. A. Woodgate, J. Zhang. Bering Strait: A Synthesis of Model Results and Observations. Arctic Science Summit Week, Seoul, South Korea, 28 March – 1 April, 2011.
- Clement Kinney, J.,** W. Maslowski, Y. Aksenov, B. de Cuevas, J. Jakacki, A. Nguyen, R. Osinski, M. Steele, R. A. Woodgate, J. Zhang. On the Flow Through Bering Strait: A Synthesis of Model Results and Observations. Arctic Ocean Model Intercomparison Project workshop, Woods Hole, MA, 19-22 October, 2010.
- Clement Kinney, J.,** W. Maslowski, R. Osinski, M. Steele, J. Zhang, R. A. Woodgate. On the Flow Through Bering Strait: A Synthesis of Model Results and Observations. International Polar Year Oslo Science Conference, Oslo, Norway, 8-12 June, 2010.
- Clement Kinney, J.,** W. Maslowski, R. Osinski. The circulation of the deep Bering Sea and exchanges with the North Pacific – a high-resolution model perspective. State of the Arctic Conference, Miami, Florida, 15-19 March, 2010.
- Clement Kinney, J.,** W. Maslowski, R. Osinski, M. Steele, J. Zhang, R. Woodgate. On the Flow Through Bering Strait and Its Potential Impact on Sea Ice in the Chukchi Sea. AGU Ocean Sciences Meeting, Portland, OR, 22-26 February, 2010.
- Clement Kinney, J.,** W. Maslowski, M. Steele, J. Zhang, R. Woodgate. Toward Improved Understanding of Mass and Property Fluxes Through Bering Strait. Arctic Ocean Model Intercomparison Project Workshop, Woods Hole, MA, 20-23 October 2009.
- Clement Kinney, J.,** W. Maslowski, S. Okkonen. On the Processes Controlling Shelf-basin Exchange and Outer Shelf Dynamics in the Bering Sea. 56th Annual Eastern Pacific Ocean Conference, Sidney, BC, Canada, 23-26 September, 2009.

- Clement Kinney, J., W. Maslowski.** Oceanic Forcing of Arctic Sea Ice. American Geophysical Union Fall Meeting, San Francisco, California, 15-19 December, 2008.
- Clement Kinney, J., W. Maslowski, S. Okkonen.** On the processes controlling shelf-basin exchange and outer shelf dynamics in the Bering Sea. Ocean Sciences Meeting, Orlando, FL, 2-7 March, 2008.
- Clement, J., W. Maslowski, S. Okkonen.** On the processes controlling shelf-basin exchange and outer shelf dynamics in the Bering Sea. ESSAS Meeting, Hakodate, Japan, 4-6 June, 2007.
- Clement, J., W. Maslowski, S. Okkonen.** On the processes affecting shelf-basin exchange in the Bering Sea. 4th Shelf-Basin Interactions (SBI) Pan-Arctic Meeting, Sopot, Poland, 26-29 September, 2006.
- Clement, J., W. Maslowski, S. Okkonen.** Bering Sea dynamics and variability – A modeling perspective. European Geosciences Union General Assembly, Vienna, Austria, 02-07 April, 2006.
- Clement, J., W. Maslowski, J. Dixon, W. Walczowski.** Ocean circulation, property exchange, and sea ice variability in the northern Bering and southern Chukchi seas – long-term model results. BEST/ESSAS Meeting, Victoria, BC, Canada, 16-20 May, 2005.
- Clement, J., W. Maslowski, L. Cooper, J. Grebmeier, W. Walczowski.** Ocean circulation and exchanges through the Northern Bering Sea - 1979-2001 model results. AGU 2004 Fall Meeting, Moscone Convention Center, San Francisco, CA, 13-17 December, 2004.
- Clement, J., W. Maslowski, L. Cooper, J. Grebmeier, W. Walczowski.** Ocean circulation and exchanges through the Northern Bering Sea - 1979-2001 model results. ASLO/TOS 2004 Ocean Research Conference, Hawaii Convention Center, Honolulu, HI, 15-20 February, 2004.
- Clement, J., W. Maslowski, L. Cooper, J. Grebmeier, W. Walczowski, J. Dixon.** Upstream environment for SBI – Modeled and observed biophysical conditions in the northern Bering Sea. Western Arctic SBI Phase II Principal Investigators Meeting, Univ. of Miami, Miami, FL, 5-7 March, 2003.
- Clement, J. L., J. M. Grebmeier, L. W. Cooper.** Assessing Ice-Cover Impacts on a Productive Benthic System in the Northern Bering Sea. National Science Foundation Arctic System Science (ARCSS) All-Hands Workshop, Seattle, WA, 19-22 February, 2002.
- Clement, J. L., J. M. Grebmeier, L. W. Cooper.** A Two-Year GIS Comparison for Assessing Ice-Cover Impacts on a Productive Benthic System in the Northern Bering Sea. Ocean Sciences Meeting, Honolulu, Hawaii, 11-15 February, 2002.
- Clement, J., L. W. Cooper, J. M. Grebmeier.** Application of Geographical Information System (GIS) Techniques to Assessing Benthic Biological Change in the Bering Sea. Western Arctic Shelf-Basin Interactions (SBI) Principal Investigators Meeting, Albuquerque, New Mexico, 8-9 February, 2001.

MANUSCRIPT AND PROPOSAL REVIEWING

Manuscript reviews: Science Advances, Journal of Geophysical Research: Oceans,

Geophysical Research Letters, Journal of Climate, Continental Shelf Research, Ocean Modelling, Polar Research, Biogeosciences, Limnology and Oceanography, and Progress in Oceanography
Proposal reviews: National Science Foundation, National Oceanic and Atmospheric Administration, and North Pacific Research Board
Panel reviewer: National Science Foundation, National Oceanic and Atmospheric Administration, and Arctic Region Supercomputing Center Technology Panel

EXPEDITIONS

CCGS Sir Wilfrid Laurier; Northeastern Pacific Ocean and Bering Sea; 4 weeks; 2001
US Coast Guard Cutter Polar Star; Bering, Chukchi, and Beaufort seas; 4 weeks; 2001
CCGS Sir Wilfrid Laurier; Bering and Chukchi seas; 4 weeks, 2002
US Coast Guard Cutter Healy; Chukchi and Beaufort seas; 6 weeks; 2002
Kodiak-based fishing vessel; Kodiak, Alaska; 2 weeks; 2002

COMMUNITY OUTREACH

Presentation judge for student work at American Geophysical Union Fall Meetings and Ocean Sciences Meetings
Presentation to a local 8th grade science class discussing the causes of global warming
Presentation to local 4th-7th graders discussing the importance of polar regions and how the Arctic is experiencing changes
Presentation detailing the work of the Naval Postgraduate School Arctic Modeling Effort for the “Invitation to Showcasing NPS Event” in Washington, D.C., September 9-10, 2009