

Craig Miller Risien

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EDUCATION

Oregon State University , M.S. in Marine Resource Management	2006
University of Cape Town , M.Sc. (with Distinction) in Oceanography	2002
University of Cape Town , B.Sc. (First Class Hons.) in Oceanography	1999
University of Cape Town , B.Sc. in Ocean and Atmosphere Science	1998

EMPLOYMENT HISTORY

Cyberinfrastructure Project Manager , Ocean Observatories Initiative	2021 – Present
Cyberinfrastructure Operations Manager , Ocean Observatories Initiative	2020 – 2021
Data Management & Cyberinfrastructure Lead , NANOOS	2020 – 2021
Senior Faculty Research Assistant II , Oregon State University	2017 – Present
Consultant , Remote Sensing Systems, Santa Rosa, CA	2015 – 2018
Senior Faculty Research Assistant I , Oregon State University	2011 – 2017
Project Coordinator , Oregon Coastal Ocean Observing System	2006 – 2007
Faculty Research Assistant , Oregon State University	2006 – 2011
Graduate Research Assistant , Oregon State University	2003 – 2006
Research Associate , Institute for Maritime Technology, Cape Town, SA	2002 – 2003

AWARDS

- OSU Outstanding Faculty Research Assistant Award – 2021
- OSU Outreach and Engagement Vice Provost Award for Excellence – 2019
- CEOAS Outstanding Faculty Research Assistant Award – 2015
- Manuel and Luby Washkansky Scholarship – 2001
- University of Cape Town’s Dean’s Merit List – 1998

ACADEMIC ADVISING

Name	Degree	Date Entered Program	Graduation Date
Chandra Schulte	M.S.	Fall 2022	
Danielle Miller	M.S.	Fall 2017	Spring 2019
Colin Duncan	M.S.	Fall 2012	Fall 2014

EXTERNAL FUNDING: GRANTS AND CONTRACTS

National Science Foundation, PI: A.A.P. Koppers, co-PI: C.M. Risien OOI 2.5 Operation and Management of the Cyberinfrastructure Data Center.	2023–2028 \$15,845,308
NOAA Climate Program Office, PI: M.R. Fewings, co-PIs B.T. Cervantes, C.M. Risien Variability of subsurface water masses in the Olympic Coast National Marine Sanctuary.	2022–2025 \$524,918
National Science Foundation, PI: A.A.P. Koppers, co-PI: C.M. Risien Toward an Extensible Cyberinfrastructure for the Ocean Observatories Initiative.	2020–2023 \$6,846,629

PEER REVIEWED PUBLICATIONS

- Cervantes, B.T., M.R. Fewings, and **C.M. Risien**, 2024. Subsurface Temperature Anomalies off Central Oregon during 2014–2021. *Journal of Geophysical Research*, DOI: 10.1029/2023JC020565
- Risien, C.M.**, K.R. Hough, J. Waddell, M.R. Fewings, and B.T. Cervantes, 2024. Hydrographic shipboard profile data collected within Olympic Coast National Marine Sanctuary, 2005–2023. *Data in Brief*, DOI: 10.1016/j.dib.2024.110171.
- Risien, C.M.**, B.T. Cervantes, M.R. Fewings, J.A. Barth, and P.M. Kosro, 2023. A Stitch in Time: Combining More than Two Decades of Mooring Data from the Central Oregon Shelf. *Data in Brief*, DOI: 10.1016/j.dib.2023.109041.
- Lane, M.K., J.S. Fehrenbacher, J.L. Fisher, M.R. Fewings, B.C. Crump, **C.M. Risien**, G.M.L. Meyer, and F. Schell, 2023. Planktonic foraminiferal assemblages reflect warming during two recent mid-latitude marine heat waves. *Frontiers in Marine Science*, DOI: 10.3389/fmars.2023.1155761.
- Kurapov, A.L., D.L. Rudnick, B.T. Cervantes, and **C.M. Risien**, 2022. Slope and shelf flow anomalies off Oregon influenced by the El Niño remote oceanic mechanism in 2014–2016. *Journal of Geophysical Research*, DOI: 10.1029/2022JC018604.
- Risien, C.M.**, M.R. Fewings, J.L. Fisher, J.O. Peterson, and C.A. Morgan, 2022. Spatially gridded cross-shelf hydrographic sections and monthly climatologies from shipboard survey data collected along the Newport Hydrographic Line, 1997–2021. *Data in Brief*, DOI: 10.1016/j.dib.2022.107922.
- Barceló, C., R.D. Brodeur, L. Ciannelli, E.A. Daly, **C.M. Risien**, G.S. Saldías, and J.F. Samhour, 2021. Predicting Ecological Community Seascapes in the Northeastern Pacific Ocean. *Frontiers in Marine Science*, DOI: 10.3389/fmars.2021.586677.
- Chelton, D.B., and **C.M. Risien**, 2020. A Hybrid Precipitation Index Inspired by the SPI, PDSI and MCDI. Part 1: Development of the Index. *Journal of Hydrometeorology*, DOI: 10.1175/JHM-D-19-0230.1.
- Chelton, D.B., and **C.M. Risien**, 2020. A Hybrid Precipitation Index Inspired by the SPI, PDSI and MCDI. Part 2: Application to Investigate Precipitation Variability Along the West Coast of North America. *Journal of Hydrometeorology*, DOI: 10.1175/JHM-D-19-0231.1.
- Barth, J.A., S.E. Allen, E.P. Dever, R.K. Dewey, W. Evans, et al., 2019. Better Regional Ocean Observing through Cross-National Cooperation: A Case Study from the Northeast Pacific. *Frontiers in Marine Science*, DOI: 10.3389/fmars.2019.00093.

- Barth, J.A., J.P. Fram, E.P. Dever, **C.M. Risien**, C.E. Wingard, R.W. Collier, and T.D. Kearney, 2018. Warm blobs, low-oxygen events and an eclipse: The Ocean Observatories Initiative Endurance Array captures them all. *Oceanography*, DOI: 10.5670/oceanog.2018.114.
- Peterson, W.T., J. Fisher, P.T. Strub, X. Du, **C. Risien**, J. Peterson, and T. Shaw, 2017. The pelagic ecosystem in the northern California Current off Oregon during the 2014-2016 warm anomalies within the context of the past 20 years. *Journal of Geophysical Research*, DOI: 10.1002/2017JC012952.
- Sherman, K., A. Lanier, J.A. Barth, F. Conway, **C. Risien**, and P.M. Kosro, 2016. The Oregon Nearshore Research Inventory project: The importance of science and the scientific community as stakeholders in marine spatial planning. *Ocean & Coastal Management*, DOI: 10.1016/j.ocecoaman.2016.04.003.
- Risien, C.M.**, and P.T. Strub, 2016. Gridded altimeter fields with enhanced coastal coverage along the U.S. West Coast. *Scientific Data*, DOI: 10.1038/sdata.2016.13.
- Mazzini, P.L.F., **C.M. Risien**, J.A. Barth, S.D. Pierce, A. Erofeev, E.P. Dever, P.M. Kosro, M.D. Levine, R.K. Shearman, and M.F. Vardaro, 2015. Anomalous Near-Surface Low-Salinity Pulses off the Central Oregon Coast. *Scientific Reports*, DOI: 10.1038/srep17145.
- Vardaro, M.F., K.L. Smith, Jr., G.T. Rowe, I.G. Priede, P.M. Bagley, B.J. Bett, H.A. Ruhl, D.O.B. Jones, **C.M. Risien**, D.M. Bailey, B.B. Sangolay, A. Walls, and J. Clarke, 2013. A Southeast Atlantic deep-ocean observatory: first experiences and results. *Limnology & Oceanography: Methods*, DOI: 10.4319/lom.2013.11.304.
- Wanninkhof, R., G.-H. Park, D.B. Chelton, and **C.M. Risien**, 2011. Impact of small-scale variability on air-sea CO₂ fluxes, in Gas transfer at water surfaces 2010, edited by S. Komori, W. McGillis and R. Kurose, pp. 431-444, Kyoto University Press, Kyoto. <http://hdl.handle.net/2433/156156>.
- Risien, C.M.**, and D.B. Chelton, 2008. A global climatology of surface wind and wind stress fields from 8 years of QuikSCAT scatterometer data. *Journal of Physical Oceanography*, DOI: 10.1175/2008JPO3881.1.
- Risien, C.M.**, and D.B. Chelton, 2006. A satellite-derived climatology of global ocean winds. *Remote Sensing of Environment*, DOI: 10.1016/j.rse.2006.06.017.
- Risien, C.M.**, C.J.C. Reason, F.A. Shillington, and D.B. Chelton, 2004. Variability in satellite winds over the Benguela upwelling system during 1999-2000. *Journal of Geophysical Research*, DOI: 10.1029/2003JC001880.
- Richardson, A.J., **C. Risien**, and F.A. Shillington, 2003. Using self-organizing maps to identify patterns in satellite imagery. *Progress in Oceanography*, DOI: 10.1016/j.pocean.2003.07.006.
- Froneman, P.W., I.J. Ansorge, L. Vumazonke, A. Gulekana, K.S. Bernard, A.M. Webb, W. Leukes, **C.M. Risien**, S. Thomalla, J. Hermes, M. Knott, D. Anderson, N. Hargey, M.E. Jennings, J. Veitch, J.R.E. Lutjeharms, and C.D. McQuaid, 2002. Physical and biological variability in the Antarctic Polar Frontal Zone: report on research cruise 103 of the MV SA Agulhas. *South African Journal of Science*, <https://hdl.handle.net/10520/EJC97436>.

OTHER PUBLICATIONS AND TECHNICAL REPORTS

- Berriman, G.B., B. Dobbins, J. Fischer, B. Flynn, J. Glatstein, R. Mayani, L. Pottier, L., **C. Risien**, B. Riedel, M. Rynge, E. Scott, T. Swetnam, A. Tan, C. Trabant, K. Vahi, D. Brower, and C. Vardeman, 2024. NSF Major Facilities Cloud Use Cases and Considerations (1.0). Zenodo. <https://doi.org/10.5281/zenodo.10481410>
- Risien, C.M.**, J.A. Newton, T. Tanner, P.M. Kosro, E. Mayorga, R. Wold, J.C. Allan, and C. Seaton, 2019. The NANOOS Visualization System (NVS): A Decade of Development and Progress Addressing Stakeholder Needs. OCEANS 2019, MTS/IEEE Seattle. DOI: 10.23919/OCEANS40490.2019.8962588.
- Chelton, D.B., and **C.M. Risien**, 2016. Zonal and Meridional Discontinuities and Other Issues with the HadISST1.1 Dataset. Technical Report published in ScholarsArchive@OSU. <http://hdl.handle.net/1957/58385>.
- Barth, J.A., and **C.M. Risien**, 2014. PICES 2013 Summer School on “Ocean Observing Systems and Ecosystem Monitoring”. PICES Press Vol. 22, No. 1, Winter 2014, <http://aquaticcommons.org/id/eprint/14343>.
- Vanhoff, B.A., **C.M. Risien**, and D.F. Moroni. QuikSCAT Level 3 Near-Coast Wind and Stress Fields with Enhanced Coastal Coverage: US West Coast Region. 6 June 2013, Version 1.2, Jet Propulsion Laboratory, Pasadena, CA.
- Dever, E., **C. Risien**, J. Barth, and R. Collier. Endurance Array Site Characterization: Oceanographic and Environmental Constraints. Version: 1-03, Released November 2012, Ocean Observatories Initiative Document Control No. 3205-00007.
- Mayorga, E., T. Tanner, R. Blair, A.V. Jaramillo, N. Lederer, **C.M. Risien**, and C. Seaton, 2010. The NANOOS Visualization System (NVS): Lessons Learned in Data Aggregation, Management and Reuse, for a User Application. OCEANS 2010, MTS/IEEE Seattle. DOI: 10.1109/OCEANS.2010.5663792.
- Risien, C.M.**, J.C. Allan, R. Blair, A.V. Jaramillo, D. Jones, P.M. Kosro, D. Martin, E. Mayorga, J.A. Newton, T. Tanner, and S.A. Uczekaj, 2009. The NANOOS Visualization System: Aggregating, displaying and serving data. OCEANS 2009, MTS/IEEE Biloxi. DOI: 10.23919/OCEANS.2009.5422325.

MAJOR SEAGOING EXPEDITIONS

Year	Research Vessel	Project	Role
1999	R/V Agulhas	MIOS-IV	Student
2000	R/V Meteor	SPACC Cruise M48-5	Scientist
2002	R/V Agulhas	DEIMEC I	Scientist
2009	R/V Point Sur	Col. R. Plume Survey	Technician
2009	R/V Wecoma	Lat-Mix	Technician
2012	R/V Knorr	OOI AST2 Recovery	Technician
2014-2019	R/Vs Oceanus, Thompson, Sikuliaq, and Atlantis	OOI Endurance Array 1-11	Technician