Curriculum Vitae

Sarah P. Wise, Ph.D.

NOAA - Alaska Fisheries Science Center 7600 Sand Point Way Seattle, WA 98115

Tel: 206.388.7788

Email: sarah.wise@noaa.gov

EDUCATION

Ph.D. Anthropology - Rutgers University, 2012

Concentrations: environmental anthropology, fisheries, political ecology

Advisor: Dr. Bonnie McCay

Certificate: Human Dimensions of Environmental Change, 2008

M.S. Environmental Policy - Bard Center for Environmental Policy, Bard College, 2004

B.A. English/Political Science - Mount Holyoke College, 1992

PROFESSIONAL EXPERIENCE

Social Scientist, Alaska Fisheries Science Center, NOAA, Seattle, WA	2017 - present
Post-doctoral Research Associate, Rutgers University, Geog. Dept. New Jersey Advisors: Dr. Kevin St. Martin; Dr. Lisa Campbell	2015 - 2017
Associate scientist, MARUM Internatl. Grad. School for Marine Sciences, Germany	2013 - 2015
Social Scientist, Pacific States Marine Fisheries Commission Grantee at the Northwest Fisheries Science Center-NOAA, Seattle	2011 – 2012
SERVICE AND LEADERSHIP	
NMFS Human Dimension Working Group	2021 - present
NPFMC Social Science Plan Team - Co-chair North Pacific Fisheries Management Council	2023 – present
Co-Stewardship and Co-production of Indigenous Knowledge Working Group National Science and Technology Council Subcommittee	2023 - present
PICES AP-ARC - Co-chair Advisory Panel, North Pacific Marine Science Organization.	2024 - present
PICES Human Dimensions Committee North Pacific Marine Science Organization	2024 - present
NOAA Science Council Research & Development Enterprise Committee – Alternate	2024 - present
PICES Arctic Study Group (SG-ARC) - Co-chair North Pacific Marine Science Organization	2023 – 2024

PICES/ICES WG44: Bering Sea Fisheries IEA - subgroup Co-chair

2021 - 2024

North Pacific Marine Science Organization

SELECT PUBLICATIONS

- Leong, K., Ingram, R., Kleiber, D., Hoshaiah Long, S., Mastitski, A., Norman, K., Weng, C., and Wise, S. (2024).

 Aligning fisheries terminology with diverse social benefits. *Marine Policy 2024*
- Wise S., Lee J., Abelman A., Kasperski S., Szymkowiak M., Dame Russel (*forthcoming*). "Annual Community Engagement and Participation Overview (ACEPO)". Alaska Fisheries Science Center, NMFS.
- Harvey C.J., Clay P.M., Selden R., Moore S.K., Andrews K.S., deReynier Y.L., Beaudreau A.H., Liu O.R., Norman K.C., Samhouri J.F., Bellquist L., Burden M., Colburn L.L., Haltuch M.A., Harley A., Kaplan I.C., Kasperski S., Klajbor W., Smith C.L., Tolimieri N., Watson J.L., Wise S.P. (*in press*) "Embracing system complexity and social-ecological information pathways to promote climate-ready fisheries" *Reviews in Fish Biology and Fisheries*.
- Boucquey, N., Fly, J., Wiebren J. B., Drakopulos, L., Leong, K., Marjadi, M., Wise, S., & Fairbanks, L.. (*in press*)
 Political Ecology for Understanding Recreational Fishers and Fisheries In: Pope, K.L. et al. (eds.), In
 <u>Understanding Recreational Fishers: Disciplinary and Interdisciplinary Approaches for Fisheries</u>
 <u>Management</u>. Springer Nature.
- Wise, S. (forthcoming) "Amphibious Governance: Managing the littoral in three case studies" In <u>Amphibious</u>

 <u>Anthropologies: human lives between wet and dry</u>. Edited by Franz Krause, Alejandro Camargo, and Luisa Cortesi.
- Hollowed, A. B., Holsman, K. K., Wise, S. P., Haynie, A. C., Cheng, W., Evans, D. C., Hermann, A.J., Ianelli, J.N., Kearney, K.A., Punt, A.E. and Reum, J.C., (2024). Development of climate informed management scenarios for fisheries in the eastern Bering Sea. *ICES Journal of Marine Science*, fsae034.
- Thorson J. T., Angliss R., Baldwin-Schaeffer M., Boveng P., Copeman L., De Robertis A., ... & Wise S. (2023). Chukchi and Beaufort Seas Regional Action Plan to Implement the NOAA Fisheries Climate Science Strategy Through 2024.
- Abelman, A., Dalton, M., Fissel, B., Garber-Yonts, B., Kasperski, S., Lee, J., ... & Wise, S. (2023). Stock Assessment and Fishery Evaluation Report for the Groundfish Fisheries of the Gulf of Alaska and Bering Sea/Aleutian Islands Area.
- Wise S., Haapala K., Anungazuk Jr. T., Donkersloot R., Mansfield B., Murphy R., Peter D. Raymond-Yakoubian J., Slats R., Swetzof S., Trainor A. (2023). "Onramps for Local Knowledge, Traditional Knowledge, and Subsistence Information in the North Pacific Fishery Management." North Pacific Fishery Management Council.
- Haapala K., Wise S., Anungazuk Jr. T., Donkersloot R., Mansfield B., Murphy R., Peter D. Raymond-Yakoubian J., Slats R., Swetzof S., Trainor A. (2023). "Protocol for Identifying, Analyzing, and Incorporating Local Knowledge, Traditional Knowledge, and Subsistence Information into the North Pacific Fishery Management Council's Decision-making Process." North Pacific Fishery Management Council.
- Smith, S. L., Cook, S., Golden, A., Iwane, M. A., Kleiber, D., Leong, K. M., ... & Wise, S. (2022). "Review of adaptations of US Commercial Fisheries in response to the COVID-19 pandemic using the Resist-Accept-Direct (RAD) framework." Fisheries Management and Ecology.
- Tempel, J. T. L., Wise, S., Osborne, T. Q., Sparks, K., & Atkinson, S. (2021). Life without ice: Perceptions of environmental impacts on marine resources and subsistence users of St. Lawrence Island. *Ocean & Coastal Management*, 212, 105819.
- Leong, K. M., Torres, A., & Wise, S. (2020). Beyond recreation: when fishing motivations are more than sport or pleasure. NOAA technical paper, Pacific Islands Fisheries Science Center-NMFS.
- Campbell, L. M., St Martin, K., Fairbanks, L., Boucquey, N., & Wise, S. (2020). The portal is the plan: Governing US oceans in regional assemblages. Maritime Studies, 19(3), 285-297.

- Boucquey, N., Martin, K. S., Fairbanks, L., Campbell, L. M., & Wise, S. (2019). Ocean data portals: Performing a new infrastructure for ocean governance. *Environment and Planning D: Society and Space*, 37(3), 484-503.
- Lavoie A., J. Lee, K. Sparks, G. Hoseth, S. Wise. 2019. "Engaging with Women's Knowledge in Bristol Bay Fisheries through Oral History and Participatory Ethnography" (Fisheries)
- Fairbanks, L., N. Boucquey, L. Campbell, and S. Wise. 2019. "Remaking Oceans Governance: Critical Perspectives on Marine Spatial Planning." *Environment and Planning D: Society and Space*.
- Wise, S., Sparks, K., Lee, J., Kasperski, S. (2019). Annual Community Engagement and Participation Overview (ACEPO). Alaska Fisheries Science Center, NMFS.
- Shotwell, S. K., Fissel, B., Hanselman, D. H., Rodgveller, C. J., Fenske, K. H., Echave, K. B., ... & Lunsford, C. R. (2018). Ecosystem-socioeconomic profile of the sablefish stock in Alaska. Assessment of the Sablefish stock in Alaska. Stock assessment and fishery evaluation report for the groundfish resources of the Bering Sea Aleutian Islands and Gulf of Alaska, 155-181, contributing author
- Zador, S., & Ortiz, I. (2018). Ecosystem Status Report 2018: Aleutian Islands, Stock Assessment and Fishery Evaluation Report. North Pacific Fishery Management Council, 605, 130.
- Wise S. 2015. "Conflict and Collaboration in Marine Conservation Work: transcending boundaries and encountering flamingos" in <u>Human Wildlife Conflict</u>. Edited by Megan M. Draheim, Francine Madden, Julie-Beth McCarthy, E.C. Parsons. New York. Oxford University Press.
- Wise, S. 2014 "Learning through Experience: Non-Implementation and the Challenges of Protected Area Conservation in The Bahamas." *Marine Policy*, 2014 (46): 111-118
- Schlüter, A., Wise, S., Schwerdtner-Mánez, K., Weber de Morais, G., Glaser, M. 2013. "Institutional Change, Sustainability and the Sea" in *Sustainability*, 2013: 5
- Wise, S. & A. Moore. "Underground, Undersea: The Uses and Perceptions of Bahamian Blue Holes." Underwater Speleology 40(1): 20-23, 2013, https://nsscds.org/wpcontent/uploads/uws40vol1web.pdf
- Wise, S. April 2012. "Collaboration and Translatability" in Anthropology News, Anthropology & Environment Section

SELECTED PRESENTATIONS

"Salmon and Communities along the Yukon." 2024, Virtual, American Fisheries Society.

- "Multiple Ways of Knowing: Indigenous Knowledge Systems and Co-production in Federal Marine Resource Management." 2024, Society for Applied Anthropology, Santa Fe, NM
- "Integrated Ecosystem Assessment of the Northern Bering Sea Chukchi Sea" 2024. Presentation to FIS Committee at North Pacific Marine Science Organization, co-authored, virtual.
- "Cultural Meaning and Species of Concern for the Bering and Chukchi Seas." 2024, Western Alaska Interdisciplinary Science Conference and Forum, Nome, AK
- "Food Security and Sovereignty in Arctic Communities" 2024, ACLIM Annual Symposium, co-authored. Seattle, WA.
- "Social Science Research in the Alaska Region." 2023. National Academy of Science: Committee on Assessing Equity in the Distribution of Fisheries Management Benefits: Data and Information Availability. Co-authored, virtual.
- "AFSC Social Science Research and Norton Sound Communities." 2022. Strait Science, Northwest Campus, University of Alaska Fairbanks. Nome, AK.
- "Building Resilience Pathways from River to Sea." 2022. Climate and Fisheries Adaptation Program (CAFA), virtual.

- "Ocean Stories: Framing the sea for management." 2019. MARE University of Amsterdam Centre for Maritime Research. Amsterdam, NL.
- "Climate Change, Equity, and Alaska Native Traditional Knowledge in Fisheries Management." 2019.

 World Forum on Climate Justice. Co-authored, virtual.
- "Fishing Communities, Well-being, and the Role of Schools." 2018. Kodiak Archipelago Rural Regional Leadership Forum. Invited Speaker, Kodiak AK
- "Sharing Knowledge(s): Learning from each other in a changing environment." 2018. Western Alaska Interdisciplinary Science Conference and Forum. Panel organizer, Nome, AK.
- "Bring Voice to the Bering Sea Fisheries Ecosystem Plan." 2018. Bristol Bay Native Association, Coorganizer. Dillingham, AK and Naknek, AK
- "Familiar Adaptations: Addressing global environmental change through social innovation in the marine and coastal realms." 2016. American Anthropological Association, Panel organizer, Denver, CO.
- "Beyond the Map: The process of marine spatial planning and the work it does" on panel Performing Community and Environment in Marine Spatial Planning: Exploring the U.S. Approach. 2015.

 MARE University of Amsterdam Centre for Maritime Research. Panel Organizer, Amsterdam, NL
- "Better understanding and planning for global change: Maritime spatial planning as a tool for interdisciplinarity." 2014. 5th Early Career Scientists Conference for Marine and Climate Research: Natural and Social Aspects of the Earth System, Conference organizer, Kiel, DE
- "Spatial Associations & Narratives of Legitimacy: The practice of Marine Spatial Planning in the North Sea littoral on panel: Meaningful Engagements with Dr. Bonnie McCay: past work and future destinations in interdisciplinary research." Society for Applied Anthropology, Panel Organizer/Chair. Albuquerque, NM
- "Making Room for Coastal Users: Renewable energies and the practice of marine spatial planning in the North Sea." 2014. GLOMAR Advisory Board, Invited Speaker, Bremen, DE.
- "Claiming the Coast: Enclosure Conservation & Legitimacy in The Bahamas." 2013. Leibniz Center for Tropical Marine Ecology, Invited Speaker, Bremen, DE.
- "Bridging the Gap: Marine Conservation and Social Science in The Bahamas," 2013. MARUM Center for Marine Environmental Sciences, Invited speaker, Bremen, DE
- "A Social Science Perspective of Marine Protected Area Conservation in The Bahamas" 2013. Natural History of The Bahamas Conference, Bahamas National Trust, Nassau, The Bahamas.
- "Owning the Sea in an Archipelago Nation: Enclosure Conservation in The Bahamas" 2011. Nature™ Inc? Questioning the Market Panacea in Policy and Conservation, The Hague, NL.
- "Bahamian Blue Holes as Indicators of Change: Shifts in Climate and Practice" on panel: Climate Change, Risk Management, & Resettlement, 2010. American Anthropological Association

GRANTS, FELLOWSHIPS AND HONORS

•	NPRB Bridging Knowledge to Inform Bering Sea Management (BKIBS)	2023-2025
•	S&T Social Science Norton Sound Red King Crab	2020
•	NSF Emerging Societies Rapid Disasters Grant	2019

NOAA Preserve America Initiative Internal Funding	2018, 20219
MARUM junior scholar research fellowship	2014, 2015
Rutgers University Graduate Fellowship	2011-2012
UNESCO Climate Frontlines Grant	2010
Abess Center for Ecosystem Science and Policy Grant	2009
National Science Foundation - Doctoral Dissertation Improvement Grant	2008-2009
Bigel Grant	2005-2008
Summer Research fellowship	2007, declined
Social Sciences Research Council - Dissertation Development Fellowship	2007
Special Study Opportunity Grant	2007
The Ruth Landes Memorial Fund Training Grant	2006
Rutgers University Human Ecology Grant	2006
Resources for the Future Summer Fellowship	2005
Bard Center for Environmental Policy Graduate Fellowship	2003-2004
	MARUM junior scholar research fellowship Rutgers University Graduate Fellowship UNESCO Climate Frontlines Grant Abess Center for Ecosystem Science and Policy Grant National Science Foundation - Doctoral Dissertation Improvement Grant Bigel Grant Summer Research fellowship Social Sciences Research Council - Dissertation Development Fellowship Special Study Opportunity Grant The Ruth Landes Memorial Fund Training Grant Rutgers University Human Ecology Grant Resources for the Future Summer Fellowship

TEACHING

Graduate Topical Seminars: *Ocean & Society – various topics,* 2013- 2015

GLOMAR | International Graduate School for Marine Sciences, University of Bremen

Graduate Methods Seminar

- Introduction to Social Sciences for Natural Scientists, 2013-2014
 GLOMAR | International Graduate School for Marine Sciences, University of Bremen
- Social Science Methods: Introduction to Text Analysis. 2014
 GLOMAR | International Graduate School for Marine Sciences, University of Bremen

Undergraduate curriculum

- Anthropology 300: *Culture and Environment: Anthropology of Islands.* Rutgers University 2012
- Geography 100: *Geographical Perspectives on Culture, Society and Environment.* Rutgers University, 2008-2010
- Human Ecology 102: Global Environmental Change: Transformations. Rutgers University, 2010
- Sociology 300: *Population, Environment, and Society.* Department of Social Sciences, College of the Bahamas, 2009
- Human Ecology 200: Social Responses to Environmental Problems. Rutgers University, 2008

Invited Lecturer

- Marine policy and social science. School for Marine Affairs. University of Washington 2017
- Anthropology 103: Four-Fields Anthropology. Rutgers University, 2011
- Human Ecology 308: Human Ecology of Maritime Regions. Rutgers University, 2010
- Human Ecology 300: International Marine Policy. Rutgers University, 2008

Teaching Assistant

- Anthropology 102: Introduction to Human Evolution. Rutgers University, 2010
- Anthropology 220: Anthropology of Food & Sex. Rutgers University, 2010
- Human Ecology 100: Introduction to Human Ecology. Rutgers University, 2008

SUPERVISING GRADUATE STUDENTS

Sarah Stone, University of Oregon

Climate, Cod, and Communities: Pacific cod distributions and Alaska Communities at Risk

Fotini Kaklamanou and Kirsten Hatcher

How effective has US regulation related to marine litter resulting from marine traffic been at protecting Alaska Natives subsistence practices in the Arctic?

Jenell Larsen University of Alaska

Change and resiliency in the Bering Sea ecosystem: assessing changing distributions of marine resources and effects on subsistence communities

Roger Spranz, University of Bremen

Reducing the consumption of plastic bags in Indonesia

Daniella Ferrol-Schulte,

Sustainable Livelihood Approach in Tropical Coastal and Marine Social-Ecological Systems

Ewelina Riekens

Maritime Spatial Planning and Transnational Cooperation for the Baltic Region

Katie Nelson, defended 2018

Contributing to Coral Reef Conservation: What motivates people to give?

Sara Miñarro, defended 2017

An Individual-based Model Approach for the Management of Coral Reefs: Application to the case of the Spermonde archipelago, Indonesia

Phillip Gorris, University of Bremen, defended 2015

Linking governance systems for regional-scale coral reef management: Analysis of case studies in Brazil and Indonesia

Anna-Maria Hubert, defended 2015

Implications of Geoengineering Interventions in the Global Marine Environment

Gabriela Weber de Morais, defended 2015

Governance of Marine Protected Areas in Costa Rica: stability and institutional change

Martin Lukas, defended 2015

Reconstructing contested landscapes. Dynamics, drivers and political framings of land use and land cover change, watershed transformations and coastal sedimentation in Java, Indonesia

Nina Khuchua, defended 2014

Black Sea: Challenges towards Good Environmental Status

Nina Maier, defended 2014

The Contested Regulation of the European Seas: Analyzing the EU Marine Strategy Framework

RESEARCH EXPERIENCE

2024 – pres. Envisioning Our Future Ocean: Supporting resilience in Arctic fishing communities

Collaborative research with fishing communities to address climate vulnerabilities for the Nation's Arctic fishing communities.

2024 – pres. Tracking the Benefits of Federal Fisheries to the Nation.

Exploring the distribution of Federal fisheries benefits. Understanding climate change

impacts on seafood systems, culture, and environmental justice.

2023 - pres. **ACLIM 3B Front Facing Climate Communities** Advancing climate informed decision-making tools for Alaska fishing communities through transdisciplinary research. 2023 - 2024 ACLIM 2: Salmon and Communities: Connecting food security with fisheries Exploring the linkages between Alaska fisheries and food security and food sovereignty. 2019 - pres. Emerging Societies in the Wake of Disaster. Examining social reformation after climate induced disasters. 2018 – pres. Annual Community Engagement and Participation Overview (ACEPO) An annual report focusing on sustained participation of those fishing communities substantially dependent on or substantially engaged in the North Pacific fisheries. 2020 - 2022 Effects of Climate Change on the Norton Sound Red King Crab fisheries & Communities Conducted interviews with people engaged with crab fishing across commercial, recreational, and subsistence sectors. Multiple Ways of Knowing the Bering and Chukchi Ecosystems 2020 – pres. Use of co-production of knowledge methods to conduct the Bering and Chukchi IEAs. Develop frameworks for integrating multiple knowledge systems and visualizing linkages 2023 - pres. Bering Strait IERP - Pelagic-benthic decoupling? Ecosystem restructuring in the Northern Bering and Chukchi seas Comparative analysis of marine traffic routes in the Bering Sea and Arctic from 2000 -2023. Conduct scoping review to identify Climate Vulnerable Species of Concern in commercial and subsistence fisheries. 2018-pres Change and resiliency in the Bering Sea ecosystem: assessing changing distributions of marine resources and effects on subsistence communities Document changes in the distribution and abundance of marine resources and determine the impact that climate change is having on subsistence harvests and food security in Bering Strait communities. 2017-pres Oral Histories of Alaska Native women in fisheries of Bristol Bay, Alaska Document lived experiences of Alaska Native women fishers and how they have identified and responded to the effects of climate change and other stressors. Recorded oral histories are archived at Voices from the Fisheries. 2015-2017 Settling Uncertainties: Regional Implementation and the Emergence of Stakeholders and Ecosystems as Objects and Actors in US Marine Spatial Planning Examine the policy evolution of Marine Spatial Planning in the United States by investigating the role of technology and data dispersal in MSP processes. Specific analysis of how human communities and environmental actors are understood, portrayed, and interpreted by MSP practitioners and data organization tools. The project is funded by a National Science Foundation collaborative grant. 2013-2015 Making Room for Coastal Users: Renewable energies and the practice of Maritime Spatial Planning for regional seas, Comparative research on how people develop claims to coastal space and resources in the context of marine spatial planning. The project looks at the human dimensions of marine management and the effects of governance shifts in marine commons. 2012 Social-economic Effects of Fisheries Policies on Northwest Coastal Communities,

2010

Conduct quantitative and qualitative socio-cultural research on the effects of management systems on individual fishing communities.

2011 Sandy Hook Unit of the Gateway National Recreation Area: Ethnographic Overview and Assessment, National Park Service - Pl

Managed field research team, conducted assessment of traditional, ecological, cultural, and historical associations with the Sandy Hook Gateway National Park.

Blue Holes as Indicators of Change in The Bahamas, UNESCO Climate Frontlines
Lead research group and undergraduate students to examine perceptions of climate
change and relationships to aquatic caves in Andros Island, The Bahamas. Project
documented perceptions and awareness of climate change on regional and local scales,
particularly in relation to the specific geological phenomena: tidal aquatic caves.
Developed project educational curriculum on social science field methods including
ethnographic writing, methods, instrument design, and ethics.

The Uses and Perceptions of Bahamian Blue Holes, National Geographic
Develop research and training program in conjunction with fossil recovery and
exploration expedition on Bahamian Blue Holes. Conducted rapid ethnography
assessment. Documented engagements and linkages among Bahamians and tidal
aquatic caves.

2006-2009 Fluid Boundaries: Conservation, Enclosure and Ownership in The Bahamas, National Science Foundation – Dissertation Improvement Grant
Dissertation research in multiple field sites in The Bahamas examining the effects of marine protected areas on coastal communities.

2007 Cultural Learning & Protected Area Design
Archival work and literature reviews on protected area management and policy design.
Developed database of relevant materials.

2003-2005 Bahamas Biocomplexity Project, National Science Foundation Biocomplexity Grant Supervise field team for NSF-funded research examining the ways Bahamian fishing communities use and value marine resources in the Bahamas. Trained incoming field researchers, designed and implemented sampling strategies. Liaison between project PIs, government officials, and researchers. Conducted survey interviews, managed data, produced reports. Perform regression analysis on factors associated with community support for a proposed marine protected area.

2002-2003 Human Dimension of Community Support for MPAs, American Museum of Natural History, New York, New York
Create comprehensive database on existing marine educational materials specific to the Bahamas region. Worked with team to produce science and policy outreach materials reporting ongoing relevant research. Co-organized workshop and educational events. Reviewed and evaluated educational materials.

1999 – 2002 Return Barn Swallow Nesting Rate and Offspring Success
Stress Indicators of the Male DeBrazza Monkey; Red-knobbed Hornbill Captive Breeding
Strategies. Woodland Park Zoo, Seattle, WA

2001 Captive Breeding Success Rates and The Mariana Crow Conservation Plan, University of Washington (with Dr. Marzluff), Seattle, WA

OTHER WORK EXPERIENCE

Consultant	w York State Energy Research and Development Authority 2005–2002 NY, NY othersized climate science research for policy materials policy materials. Designed bsite and interactive mapping component. Write science and policy content.	
Curatorial Assistant	American Museum of Natural History Catalogued Madagascan amphibian and reptile collection with	2003 – 2002 NY, NY n Dr. Raxworthy
Zookeeper	Woodland Park Zoo Managed exhibit species in captive breeding and conservation	2002 – 1998 Seattle, WA programs
Instructor	Sea Education Association Taught university students oceanography, marine history, and	1996 Woods Hole, MA celestial navigation
Educator	SSV Niña 199 Tutor (Full curriculum) for 15-year-old child onboard the sailin	2 Mystic, CT-Sardinia, Italy g schooner, Niña
Assistant Educator	SSV Clearwater Educated K-12 and adult groups onboard traditional Hudson R	1990 Poughkeepsie, NY liver sloop

PROFESSIONAL ASSOCIATIONS AND MEMBERSHIP

- International Network for Social Studies of Marine Energy
- Marine Spatial Planning Research Network
- Small-scale and Artisanal Fisheries Research Network
- American Anthropological Association
- Society for Applied Anthropology
- European Anthropological Association

Languages: English – native; French – proficient (6 years); German – intermediate (2 years); Italian – beginning (1 year)