

KATERYNA WOWK PORTER, PH.D.

Harte Research Institute for Gulf of Mexico Studies
Texas A&M University – Corpus Christi
Email: katya.wowk@tamucc.edu

6300 Ocean Drive, Rm. 122B
Corpus Christi, TX 78412
Tel: 361.825.2030

EDUCATION

Ph.D., Marine Policy, College of Earth, Ocean and Environment, University of Delaware, August 2011
Dissertation: *Examining Effectiveness in Regional Ocean Governance Regimes*
Readers: Dr. Gerard Mangone, Dr. Jeremy Firestone, Dr. Alice Ba and Dr. Matthew Weinert

M.P.A., Environmental Science and Policy, School of International and Public Affairs, Columbia University, May 2005
Qualifying Project: *Alternative Waste Disposal Technologies for New York City*
Director: Dr. Steven Cohen

B.S., Ecology (minor: Political Science), Central Connecticut State University, May 2004

PROFESSIONAL EXPERIENCE

Harte Research Institute for Gulf of Mexico Studies (HRI) November 2015 – Present
Department of Physical and Environmental Sciences (PENS) Corpus Christi, TX
Texas A&M University – Corpus Christi
Senior Research Associate & Texas OneGulf Director, HRI
Associate Professor, PENS

U.S. National Oceanic and Atmospheric Administration (NOAA) October 2014–October 2015
Office of the Chief Economist and Social Science Team Washington, D.C.
Senior Social Scientist (Consultant)

NOAA Office of the Assistant Secretary for Conservation August 2013–October 2014
Senior Policy Lead (Contractor) Washington, D.C.

NOAA's National Ocean Service (NOS) August 2012–August 2013
Program Coordination Officer to the NOAA Administrator (Contractor) Washington, D.C.

Earth Resources Technology (ERT), Inc. September 2010–July 2012
Deputy Director, NOAA Programs Silver Spring, MD

NOAA/National Marine Protected Areas (MPAs) Center February 2008–September 2010
Policy Specialist (Sea Grant Fellow and Contractor) Silver Spring, MD

Gerard J. Mangone Center for Marine Policy August 2005–December 2007
Research Associate and Teaching Assistant Newark, DE

RESEARCH INTERESTS

Community resilience, disaster recovery, disaster mitigation, social learning, decision support, ecosystem resilience, ocean and coastal policy, coastal green infrastructure, risk communication.

COURSES AND GRADUATE LECTURES

Course: Ocean and Coastal Resources; Professional Skills for Scientists Lectures: International Ocean and Environmental Policy, United States Ocean and Coastal Policy, Integrated Coastal Management, Coastal Management and Ocean Law, Environmental and Sustainability Economics, Applied Policy Analysis, Disaster Resilience.

STUDENT SUPERVISION

Diana Del Angel, PhD Candidate, Coastal and Marine System Science, TBD, Texas A&M University-Corpus Christi (Committee Member)
Elizabeth Del Rosario, PhD Candidate, Coastal and Marine System Science, TBD, Texas A&M University-Corpus Christi (Committee Member)
Mariana Leon-Perez, PhD Candidate, Coastal and Marine System Science, TBD, Texas A&M University-Corpus Christi (Committee Member)
Kaci Frederick, M.S., Environmental Science, Spring 2017, Texas A&M University-Corpus Christi (Committee Co-Chair)
Joseph Appiott, M.S., Marine Policy, Spring 2012, University of Delaware (Research Manager)
Marlena Katie Wilson, B.S., Biology, Spring 2009, University of Delaware (Research Manager)
Kat Hoenke, B.S., Wildlife Conservation, Spring 2009, University of Delaware (Research Manager)

PUBLICATIONS AND AWARDS

JOURNAL PUBLICATIONS

McLaughlin, R. and K. **Wowk**. 2018. “Managing Areas Beyond National Jurisdiction in the Gulf of Mexico: Developing International Legal Authority and Future Challenges.” *Sea Grant Law and Policy Journal*.

Wowk, K., L. McKinney, F. Muller-Karger, R. Moll, S. Avery, E. Escobar-Briones, D. Yoskowitz & R. McLaughlin. 2017. Evolving academic culture to meet societal needs. *Palgrave Communications* 3:35.

Sutton-Grier, A., H. Bamford and K. **Wowk**. 2015. Future of Our Coasts: The Potential for Natural and Hybrid Infrastructure to Enhance the Resilience of Our Coastal Communities, Economies and Ecosystems. *Environmental Science and Policy*. 51:137-148.

Mendler de Suarez, J., B. Cicin-Sain, K. **Wowk**, R. Payet and O. Hoegh-Guldberg. 2014. Ensuring survival: Oceans, climate and security. *Ocean and Coastal Management*. 90:27–37.

Gjerde, K., D. Currie, K. **Wowk**, and K. Sack. 2013. Ocean in Peril: The mismanagement of global ocean living resources in areas beyond national jurisdiction. *IPSO*. London.

Schwenke, K., L. Wenzel and K. **Wowk**. 2010. Networks of Marine Protected Areas: What Are They and Why Are They Needed? *Current – The Journal of Marine Education*. 26:3-6.

Currie, D. and K. **Wowk**. 2009. Climate Change and CO₂ in the Oceans and Global Oceans Governance. *Carbon & Climate Law Review*. 4:387-404.

BOOK CHAPTERS

Wowk, K. and D. Yoskowitz. 2017. “Socioeconomic and Policy Considerations of Living Shorelines – U.S. Context.” *In: Living Shoreline Approaches*. Bilkovic, Mitchell and Toft (Eds.). Taylor and Francis Publishing.

Cicin-Sain, B., G. Kuska, C. Snyder and **K. Wowk**. 2015. Development of a National Ocean Policy in the

United States. *In: Cicin-Sain, B. and D. Vanderzwaag (Eds.). Ocean Policies.* Earthscan. London.

Wowk, K. 2013. Paths to Sustainable Ocean Resources. *In: Noone, K., R. Sumaila, and R. Diaz (Eds.). Managing Ocean Environments in a Changing Climate.* Elsevier.

Wowk, K. 2012. Marine Preserves. *In: Bosselmann, K., D. Fogel, and J.B. Ruhl (Eds.), Berkshire Encyclopedia of Sustainability 8/10: The Americas and Oceania – Assessing Sustainability.* Berkshire Publishing Group LLC.

Wowk, K. 2011. Ocean Resource Management. *In: Bosselmann, K., D. Fogel, and J.B. Ruhl (Eds.), Berkshire Encyclopedia of Sustainability 5/10: Ecosystem Management and Sustainability.* Berkshire Publishing Group LLC.

Currie, D. and **K. Wowk.** 2010. Fishing and Whaling Legislation. *In: K. Bosselmann, D. Fogel, and J.B. Ruhl (Eds.), Berkshire Encyclopedia of Sustainability 3/10: The Law and Politics of Sustainability.* Berkshire Publishing Group LLC.

REPORTS

Villegas, C., **Wowk, K.**, and Shelton, K. 2018. Rethinking Disaster Recovery and Mitigation Funding in the Wake of Hurricane Harvey. Kinder Institute for Urban Research, Rice University.

Villegas, C., **Wowk, K.**, Shelton, K., Patterson, G., and Lightbourne, J. 2017. Funding Primer: Harvey Relief and Recovery. Kinder Institute for Urban Research, Rice University.

Brown, V., S. Fauver, D. Geppi, A. Haynes, K. Klockow, D. Nagele. 2016. Risk Communication and Behavior: Best Practices and Research Findings. NOAA Social Science Committee. R. Jacobson and **K. Wowk** (eds.).

NOAA Social Science Committee. 2015. NOAA Social Science Vision and Strategy. (**Lead Editor**)

OSTP. 2015. Ecosystem Service Assessment: Research Needs for Coastal Green Infrastructure. National Science and Technology Council. (**Co-Lead Writer**)

Cicin-Sain, B., M. Balgos, J. Appiott, **K. Wowk**, and G. Hamon. 2011. Oceans at Rio+20: How Well Are We Doing in Meeting the Commitments from the 1992 Earth Summit and the 2002 World Summit on Sustainable Development? Summary for Decision Makers. Global Ocean Forum.

Monaco Message. 2011. Monaco Workshop on Sustainable Use of Oceans in the Context of the Green Economy and Poverty Eradication (**Lead Drafter**).

Mendler de Suarez, J., B. Cicin-Sain, **K. Wowk**, R. Payet, and O. Hoegh-Guldberg. 2010. Ensuring Survival: Oceans, Climate and Security. Global Ocean Forum.

Snyder, C., **K. Wowk**, J. Appiott, G. Hamon. 2009. Summary of Oceans Day At Copenhagen. Global Ocean Forum.

Wowk, K., and A. Solofa. 2009. Oceans and the Climate Negotiations. In *Oceans and Climate Change: Issues and Recommendations for Policymakers and for the Climate Negotiations.* Cicin-Sain, B. (ed.).

Wowk, K. 2009. Encourage Adaptive Management at Regional, National and Local

Scales. In *Oceans and Climate Change: Issues and Recommendations for Policymakers and for the Climate Negotiations*. Cicin-Sain, B. (ed.).

Kullenberg, G., J. Mendler de Suarez, K. **Wowk**, and B. Cicin-Sain. 2008. Global Forum Policy Brief on Climate, Oceans, and Security. 4th Global Conference on Oceans, Coasts, and Islands.

Murawski, S., N. Cyr, M. Davidson, Z. Hart, M. Balgos, K. **Wowk**, and B. Cicin-Sain. 2008. Global Forum Policy Brief on Ecosystem-based Management and Integrated Coastal and Ocean Management Indicators for Progress. 4th Global Conference on Oceans, Coasts, and Islands.

Snyder, C., K. **Wowk**, and Diamond, J. 2008. Report from the Strategic Planning Workshop on Global Ocean Issues in Marine Areas Beyond National Jurisdiction in the Context of Climate Change Nice, France, January 23-25, 2008.

OPEDS

Wowk, K. Sept. 11, 2017. In Harvey's wake, Texas can lead innovation in rebuilding for disaster preparedness. **Texas Tribune**. [Available](#).

GRANTS AND CONTRACTS

2018-2021 Co-Principal Investigator. Standard logical models and metrics for Gulf restoration: Linking project outcomes to economic, health, and wellbeing benefits for people. National Academies of Science Gulf Research Program via Duke University. L. Olander (PI), H. Tallis (co-PI), C. Shepard (co-PI), D. Yoskowitz (co-PI) – \$560,093 (\$1,250,000 total budget).

2018-2020 Co-Principal Investigator. Incorporating Socio-Economic and Ecosystem Service Indicators into the Coastal Community Resilience Index. Gulf of Mexico Alliance. D. Yoskowitz (PI), L. Hutchison (co-PI) - \$67,800.

2018-2019 Co-Principal Investigator. An International Network-to-Network Approach to Generating New Scientific Community Collaborations in the Gulf of Mexico. National Science Foundation. J. Baldauf (PI), Z. Medina-Cetina (co-PI), K. Dirani (co-PI) - \$12,768 (\$210,000 total budget).

2018-2019 Principal Investigator. Hurricane Harvey Decision-Support – Resilient Environments and Communities. Texas Commission on Environmental Quality/Texas OneGulf Center of Excellence. Y. Fofanov (co-PI), C. Elferink (co-PI), G. Golovko (co-PI), A. Knap (co-PI), J. Horney (co-PI), L. Teron (co-PI), A. Vedlitz (co-PI), P. Berke (co-PI), J. Masterson (co-PI), T. Hester (co-PI), A. Lopez del la Osa Escribano - \$748,582.

AWARDS AND FELLOWSHIPS

2016 Ecological Society of America Innovations in Sustainability Science Award

2012 ERT Peer Award, presented for mentoring interns and exceptional service to NOAA

2010 ERT Team Award, presented to the team for outstanding dedication to the MPA Center

2009 National Scholars Honor Society, presented by the National Society President

2008 NOAA Sea Grant John A. Knauss Marine Policy Fellowship (Executive)

2007 Gerard J. Mangone Center for Marine Policy Award

SERVICE

TASK FORCES, COUNCILS AND COMMITTEES

- 2019- Coastal Bend Council of Governments Council on Comprehensive Economic Development Strategy and Resilience (Chair)
- 2018- Centers of Excellence Research Grant Program (Member)
- 2017- FEMA Community Planning Capacity Building Recovery Support–Harvey (Member)
- 2016- Texas OneGulf Disaster Research Response Working Group (Member)
- 2014-2015 NOAA Social Science Committee (Member)
- 2014-2015 Department of Commerce Tourism Policy Council (NOAA Policy Lead)
- 2014-2015 White House Subcommittee on Social, Behavioral and Economic Sciences (Member)
- 2014-2015 White House Coastal Green Infrastructure and Ecosystem Services Task Force (NOAA Policy Lead and Co-Executive Secretary)
- 2013-2015 NOAA Natural Infrastructure Committee (Policy Lead/Executive Secretary)
- 2013-2015 NOAA Habitat Conservation Team (Member)
- 2013-2015 NOAA Ocean Council (Member)
- 2013-2013 Department of Interior Metrics Expert Working Group (Advisor)
- 2013-2014 White House Hurricane Sandy Task Force (NOAA Policy Lead)
- 2013-2014 White House National Drought Resilience Partnership (Acting Co-Chair/NOAA Lead)
- 2012-2014 White House Interagency Ocean Policy Task Force (NOAA Policy Lead)
- 2008-2010 Marine Protected Areas Federal Advisory Committee (Executive Secretary)

RESEARCH COMPETITION REVIEW PANELS

- NOAA Sea Grant
- BiodivERsA3 ERA-NET Marine Blue Infrastructure
- Asia-Pacific Economic Cooperation
- National Institute of Standards and Technology
- Hurricane Sandy Recovery

CONSULTING

- 2011-2012 Stakeholder Forum for a Sustainable Future
- 2005-2011 Global Forum on Oceans, Coasts and Islands (Global Ocean Forum)

PRESENTATIONS

- Presenter, “Texas OneGulf: Linking People and Environments for Resilient Coasts,” Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA, February 2019.
- Moderator, “Harvey Recovery – Building Economic Resilience,” Gulf of Mexico Climate and Resilience Outreach Community of Practice Workshop (CoP), Port Aransas, TX, May 2018.
- Moderator, “How communities can change behavior to address complex challenges,” American Association for the Advancement of Science Panel, Austin, TX, January 2018.
- Presenter, “Hurricane Harvey: The Human Impact and How to Rebuild with Resilience,” Commission to Rebuild Texas Coastal Bend Meeting, Corpus Christi, TX, November 2017.
- Presenter, “Building resilience: the need to address human dimensions of socio-ecological systems,” Coastal and Estuarine Research Federation, Providence, RI, November 2017.
- Presenter, “Natural Disaster Resilience – Lessons Learned,” Concurrent Session, U.S.-ASEAN Conference on Marine Environmental Issues, Bangkok, Thailand, September 2017.
- Moderator, Blue Economy Panel, ft. H.E. Kobkarn Suriyasat Wattanavrangkul, Thai Minister of Tourism, US-ASEAN Conference on Marine Environment, Bangkok, Thailand, September 2017.
- Poster, “Transforming Socio-Ecological Systems: Infrastructure to Build Resilience,” Gulf of Mexico Climate and Resilience Community of Practice, Covington, Louisiana, May 2017.

- Moderator, “Challenges to an Ecologically and Economically Sustainable Gulf of Mexico,” State of the Gulf of Mexico Summit, Houston, TX, March 2017.
- Panelist, “Encouraging Resilient Practices: Key Concepts for Urban and Rural Coastal Areas.” Binational Perspectives on Gulf of Mexico Sustainability Workshop, NSF Research Collaborative Network, San Miguel de Allende, Mexico, March 2017.
- Keynote Presentation, “Future of our coasts: Potential for natural and hybrid infrastructure to enhance ecosystem and community resilience in the U.S.” 19th Annual Meeting of the Ecology and Civil Engineering Society (ECES), Koriyama City, Japan, September 2015.
- Plenary Presenter, “Enhancing Disaster Resilience by Valuing Nature's Defenses.” International Symposium on Disaster and Biodiversity, Sendai, Japan, September 2014.
- Panelist, “Ensuring Survival: Oceans, Climate and Security.” 5th Global Oceans Conference, UNESCO, Paris, France, May 2010.
- Presenter, “Global Ocean Changes and the International Community’s Response.” 3rd World Ocean Forum, Busan, Republic of Korea, November 2009.
- Panelist, “Encouraging Adaptive Management Institutions at Varying Scales (e.g., Large Marine Ecosystem, Regional Seas, National and Local).” World Ocean Conference Global Ocean Policy Day Session, Manado, Indonesia, May 2009.
- Presenter, “The Failings of the International Whaling Commission: A Result of Institutional Design?” 50th Annual Conference - International Studies Association. New York, NY, February 2009.
- Presenter, “The Patagonian Climate and Large Marine Ecosystem.” Paper presented as part of a five-week study abroad program, Buenos Aires, Argentina, January 2007.

CONFERENCES AND WORKSHOPS

- 2019 Conference Session: Modeling for Synthesis - progress in linking the natural sciences and connecting to politics, economics, health, psychology and further, Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA (session Co-Chair)
- 2018 Gulf Region Co-op: Expert Meeting to Conceptualize a Large-Scale, Long-Term Investment of the Gulf Research Program, Arlington, VA (participant)
- 2018 Gulf of Mexico Alliance All Hands - Brainstorming Session on Incorporating Ecosystem Services and Social-Behavioral-Economic Indicators into the Coastal Community Resilience Index, St. Petersburg, FL (session co-lead and organizer)
- 2018 Gulf of Mexico Climate and Resilience Outreach Community of Practice Workshop (CoP), Port Aransas, TX (co-lead and organizer)
- 2018 Water-Energy-Food Nexus (WEF) Stakeholder Information and Engagement Workshop, San Antonio, TX (participant)
- 2017 Wetlands Conservation Finance: Texas Style, Corpus Christi, TX (co-lead and organizer)
- 2016 Joint Initiative Gulf of Mexico Coast Roundtable, New Orleans, LA (participant)
- 2016 HRI Forum on Linking Science to Policy, Tampa, FL (co-lead and organizer)
- 2016 Texas OneGulf Network of Experts, Corpus Christi and Houston, TX (facilitator)
- 2015 United Nations Environment Programme: The Economics of Ecosystems and Biodiversity – Oceans and Coasts, Auckland, New Zealand (participant)
- 2014-2015 Department of Commerce Natural Capital Business Roundtables, Houston, TX, Cleveland, OH, NYC, NY (co-lead and organizer)
- 2011 Panel on Oceans and Climate Change, World Ocean Conference, Manado, Indonesia (panelist)
- 2011 Oceans Day at Durban, 17th Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC COP 17), Durban, South Africa (co-lead and organizer)
- 2011 Workshop on the Sustainable Use of Oceans in the Context of the Green Economy and Poverty Eradication, Monaco (co-lead and organizer)
- 2010 Global Ocean Forum: Oceans Day at Cancun, UNFCCC COP 16, Cancun, Mexico (organizer)

- 2010 Fifth Global Conference on Oceans, Coasts and Islands: Ensuring Survival, Preserving Life and Improving Governance, Paris, France (co-lead and organizer)
- 2008 Fourth Global Conference: Advancing Ecosystem Management and Integrated Coastal Management by 2010 in the Context of Climate Change, Hanoi, Vietnam (co-lead and organizer)
- 2008 Strategic Planning Workshop on Global Ocean Issues in Marine Areas Beyond National Jurisdiction in the Context of Climate Change, Nice, France (co-lead and organizer)
- 2006 Fourth World Water Forum, Mexico City, Mexico (session organizer)
- 2006 Third Global Conference on Oceans, Coasts and Islands: Moving the Global Oceans Agenda Forward, Paris, France (organizer)

TRAINING & PROFESSIONAL AFFILIATIONS

Training: 2018 FORTIFIED WISE Associate, 2018 NAS Data Carpentry, 2018 Coastal Community Resilience Index Facilitator; Affiliations: The Coastal Society (University of Delaware Chapter President 2010-2012), Women’s Aquatic Network, Knauss Fellow Alumni, Audubon Texas