

WELCOME

The event will begin with a screening of Tidewater, an award-winning film from the American Resilience Project that focuses on sea level rise and the challenges it presents to the military and surrounding communities in the Hampton Roads area of Virginia. Following the film, a panel will discuss current coastal conditions in North Carolina, the risks posed by sea level rise and opportunities for resilience for our military bases and in coastal communities. Thank you for joining us for this timely discussion on the risks to national security and coastal resiliency in the Southeast.

PROGRAM

- 2:00 p.m. **Welcome**
Michael S. Regan, Secretary
N.C. Department of Environmental Quality
- 2:05 p.m. **Introduction to the Film**
Rear Admiral Ann C. Phillips, USN (Ret.)
- 2:10 p.m. **Tidewater Screening**
(Film runs approximately 42 minutes)
- 3:00 p.m. **Introduction of Panel Members**
Facilitator, John Nicholson,
Chief Deputy Secretary
N.C. Department of Environmental Quality
- 3:15 p.m. **Panel Discussion**
- 4:40 p.m. **Closing Remarks**
Heather Messera
Senior Fellow for Government Affairs,
The Center for Climate and Security
- 4:45 p.m. **Reception**



THE CENTER FOR
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TIDEWATER

**Building Coastal Resilience to Protect
U.S. National Security and Coastal Communities**



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SEA LEVEL RISE AND SECURITY IN THE SOUTHEAST: IMPLICATIONS FOR THE MILITARY AND COASTAL COMMUNITIES



Monday, September 24, 2018
The Hunt Library, North Carolina State University
2:00 p.m. – 4:45 p.m. Film and Discussion
4:45 p.m. – 6:30 p.m. Reception and Networking

SPEAKERS AND PANEL MEMBERS

Dr. Reide Corbett, Dean, Integrated Coastal Programs, Director, Coastal Studies Institute, Professor, Department of Coastal Studies, East Carolina University



Reide Corbett was born and raised in coastal North Carolina. After receiving his PhD in Oceanography from Florida State University and spending a short time at Tulane University in New Orleans, he returned to NC to join the faculty at East Carolina University. He is the Dean of Integrated Coastal Programs, the Executive Director of the Coastal Studies Institute and Professor in the Department of Coastal Studies, East Carolina University. Corbett is a coastal oceanographer/geochemist with an overall scientific interest in the geochemical and geomorphic dynamics of coastal and open ocean environments. Much of his research during the last two decades has focused on the delivery of constituents by submarine groundwater discharge and sediment disturbance across continental shelves. His research has broadened through the years to include coastal change and geomorphic evolution across telescoping timescales.

Dr. Susan Cohen, Coordinator, Defense Coastal Estuarine Research Program, Department of the Navy



Susan Cohen is a biologist with the Naval Facilities Engineering and Expeditionary Warfare Center located in Port Hueneme, California. From 2008-2017, she served as the coordinator for the Defense Coastal/Estuarine Research Program (DCERP) conducted at Marine Corps Base Camp Lejeune in eastern North Carolina. Prior to working with the Department of Defense, Susan worked at the USDA Forest Service Southern Research Station in Research Triangle Park, North Carolina as a research biologist with an emphasis on processes in coastal forest ecosystems. Her current research efforts continue to focus on coastal ecosystem resiliency. Susan earned a bachelor's degree in Anthropology from the University of Massachusetts at Amherst and holds both a master's degree and a doctoral degree in Forestry from North Carolina State University.

Heather Messera, Senior Fellow for Government Affairs, The Center for Climate and Security



Heather Messera leads the Center for Climate and Security's engagement with Congress and the Administration. Before joining the Center, she managed the Pew Project on National Security, Energy and Climate for the Pew Charitable Trusts. Heather's interest in the effects of climate as an international security issue developed during her time as the Director of the Defence and Security Committee of the NATO Parliamentary Assembly in Brussels. Heather formerly served as a Senior Research Assistant with the Foreign Policy Program at the Brookings Institution, where she managed the Brookings 21st Century Defense Initiative and the military, intelligence and International Security Fellows program. She holds a Bachelor's degree in Peace, War, and Defense and Political Science from the University of North Carolina at Chapel Hill and a master's degree in National Security and Strategic Studies from the U.S. Naval War College. Heather is a graduate of the U.S. Naval Command and Staff College, and has completed doctoral coursework in International Relations at Georgetown University.

John Nicholson, Chief Deputy Secretary for the North Carolina Department of Environmental Quality



As Chief Deputy secretary for the N.C. Department of Environmental Quality, John Nicholson oversees the administration of the department and special projects related to the military. Nicholson is a retired Colonel in the U.S. Marine Corps, where he served for 28 years. He was also the military affairs advisor to two North Carolina governors. During his military service, Nicholson led high performance teams in advanced strategic planning, policy development, and work force analysis. Nicholson has also advanced programs in energy efficiency and environmental conservation while serving his country. Nicholson holds a master's degree in national security and strategic studies from the U.S. Naval War College, a master's degree in military studies from the U.S. Marine Corps Command and Staff College, and a bachelor's degree in political science from San Diego State University.

Rear Admiral Ann C. Phillips, USN (Ret.), The Center for Climate and Security, Former Commander of Expeditionary Strike Group TWO and Director of Surface Warfare



Rear Admiral Ann C. Phillips, USN (Ret.) is an independent consultant working on resiliency and climate impact on national security. During her 31 years of active duty, Phillips served as a Surface Warfare Officer. Ashore she was a Senior Fellow on the CNO's Strategic Studies Group XXVIII and Deputy Director and Director of Surface Warfare Division, (N86) in the Pentagon. In these positions, Phillips developed and implemented climate change adaptation and energy reduction strategies for the Navy. Currently, Phillips serves on local, regional, and national non-profit Boards including on the Advisory Board for The Center for Climate and Security and the Board of Directors for the American Resilience Project, WHRO, CIVIC Leadership Institute and Coastal Community Resilience, Inc. (RISE).

Michael S. Regan, Secretary of the North Carolina Department of Environmental Quality



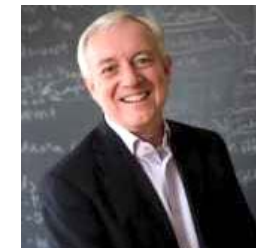
As DEQ secretary, Regan oversees the protection of North Carolina's environment and natural resources through regulatory and public assistance programs. Regan joined the Cooper administration after more than 18 years of professional experience focused on overcoming complex challenges through environmental advocacy and regulation. Most recently, he served as the Associate Vice President of U.S. Climate and Energy and Southeast Regional Director of the Environmental Defense Fund. Prior to that, Regan worked with the Environmental Protection Agency's air quality and energy programs for the Clinton and Bush administrations. Before leaving the agency, Regan served as a national program manager responsible for designing programs aimed at reducing pollution and creating market-based solutions for climate-related challenges. A native of Goldsboro, N.C., Regan has a bachelor's degree in Earth and Environmental Science from N.C. Agricultural and Technical State University and a master's degree in Public Administration from George Washington University.

Dr. Gavin Smith, Director of the Department of Homeland Security's Coastal Resilience Center of Excellence and Research Professor in the Department of City and Regional Planning at the University of North Carolina at Chapel Hill



Dr. Smith is a Research Professor in the Department of City and Regional Planning at the University of North Carolina at Chapel Hill. He is currently engaged in planning-related research within the center, focused on a national evaluation of local and state hazard mitigation plans, the study of state recovery plans, and the development of sea-level rise adaptation strategies. Dr. Smith has published numerous book chapters, peer-reviewed journal articles, and technical reports addressing a range of topics including hazard mitigation, disaster recovery, and climate change adaptation. Following Hurricane Katrina, Dr. Smith served as the Director of the Office of Recovery and Renewal in the Mississippi Office of the Governor. Dr. Smith also formerly served as the Assistant Director for Hazard Mitigation for the State of North Carolina.

Rear Admiral David W. Titley, USN (Ret.), The Center for Climate and Security, Director of the Center for Solutions to Weather and Climate Risk at Penn State University, former Oceanographer and Navigator of the Navy



Rear Admiral David Titley, USN (Ret.) served as a naval officer for 32 years. Dr. Titley's career included duties as commander of the Naval Meteorology and Oceanography Command, oceanographer and navigator of the Navy, and deputy assistant chief of naval operations for information dominance. He also served as senior military assistant for the director, Office of Net Assessment in the Office of the Secretary of Defense. In 2009, Dr. Titley initiated and led the U.S. Navy's Task Force on Climate Change. After retiring from the Navy, Dr. Titley served as the Deputy Undersecretary of Commerce for Operations, the chief operating officer position at the National Oceanic and Atmospheric Administration. Dr. Titley is currently serving as a Professor of Practice in the Department of Meteorology and Atmospheric Science, a Professor in the School of International Affairs, and founding Director of Center for Solutions to Weather and Climate Risk at the Pennsylvania State University.

Holly White, AICP, CFM, Principal Planner, Town of Nags Head



Holly White is a Principal Planner with the Town of Nags Head Planning Department where she focuses on long-range planning, grant writing, special project management, and environmental issues including floodplain management and resiliency planning. She has led efforts to engage the community of Nags Head in creating sea level rise adaptation strategies for the town's comprehensive plan. Prior to becoming a planner with the Town of Nags Head, Holly was employed by the Currituck County Planning Department as a Senior Planner and Town of Kitty Hawk as an Environmental Planner. Holly holds a Bachelor of Science in Urban and Regional Planning, with a focus in Coastal Planning, and minor in Geology from East Carolina University.