



Mayor of Providence

Jorge O. Elorza

December 29, 2015

Honorable Members
Providence City Council
City Hall

Dear Honorable Members:

Pursuant to Sections 302(b) of the Providence Home Rule Charter of 1980, as amended and Public Law, Chapter 45-50, Sections 1 through 31 passed in 1987, I am this day re-appointing Janet Freedman of 41-C Oak Street, Providence, Rhode Island 02909, as a member of the Providence Harbor Management Commission for a term to expire on December 31, 2018, and respectfully submits the same for your approval.

Sincerely,

A handwritten signature in black ink, appearing to be "J. Elorza", with a long horizontal stroke extending to the right.

Jorge O. Elorza
Mayor

IN CITY COUNCIL
FEB 18 2016

READ
WHEREUPON IT IS ORDERED THAT
THE SAME BE RECEIVED AND APPROVED
A handwritten signature in black ink, appearing to be "Lori L. Hayes", with a long horizontal stroke extending to the right.
CLERK

JANET M. FREEDMAN
Coastal Resources Management Council
4808 Tower Hill Road, Wakefield, RI 02879
Phone: 401-783-3370
email: jfreedman@crmc.ri.gov

CURRICULUM VITAE

EDUCATION

University of Rhode Island, Kingston, RI, Masters of Science (1998), Major: Geology
Thesis: **Reconstruction of late Pleistocene and early Holocene environments and paleoclimates of the Great Swamp area, South Kingstown, RI.**
University of Rhode Island, Kingston, RI, Bachelor of Arts (1975), Major: Art History

PROFESSIONAL EXPERIENCE

RI Coastal Resources Management Council, South Kingston, RI (1999-present)
Coastal Geologist - Responsible for implementation of geological analyses and interpretation to CRMC policy issues and permit applications; and coordination with Federal, State, regional, local government agencies and other stakeholders for habitat restoration, hazard mitigation and climate change adaptation.

Current projects

Shoreline Change Special Area Management Plan- Ongoing collaboration with the RI Sea Grant/Coastal Resources Center and numerous stakeholders on data collection, interpretation and dissemination of information to inform various groups about present and future conditions in RI coastal communities.

Misquamicut Sediment Study - Partner with Eastern Connecticut State University and University of Rhode Island to monitor sediment transport from the Misquamicut beach replenishment project using various measurement techniques including beach profiles, volumetric mapping with RTK-GPS, and LHTS mapping.

GRIP - Member of the Green and Resilient Infrastructure Project team to develop pilot projects in three coastal communities using green infrastructure to increase coastal resiliency to erosion and climate impacts while improving water quality in adjacent waters.

MyCoast – Collaboration on the development and implementation of a cell phone application to record flooding from extreme high tides and storm damage using georeferenced photographs and real-time tide measurements.

StormTools - Developed and present a workshop and tutorial for training various groups in accessing and interpreting flood risks using the StormTools online data.

Coastal Property Guide - Collaborated on the development of a coastal property guide for homeowners and potential buyers of coastal property. The guide includes information on risks, risk assessment and regulations pertinent to living on the coast.

Experimental Erosion Control – Member of the Experimental Erosion Control Technical Review Panel to assess alternative technologies for coastal erosion control within targeted areas.

SLAMM - Partner with Rhode Island Sea Grant and The Nature Conservancy to examine sea level rise impacts to coastal wetlands throughout Rhode Island.

Education and Outreach - Developed various presentations on the impacts of climate change and coastal hazards for professionals, students and general audiences (see Selected Presentations). Invited lecturer at various institutions including Roger Williams University, Brown University, the Metcalf Institute and several elementary school science classes. Developed and led field trips and field instruction on coastal issues.

Regional planning initiatives

Working with Northeast Regional Ocean Council (NROC), Northeast Regional Association of Ocean Observing Systems (NERACOOS), and Coastal Zone Management agencies in Massachusetts and Connecticut on hazard and climate change planning and policy.

PUBLICATIONS

Oakley, B.A., Hollis, R.J., Boothroyd, J.C., **Freedman, J.**, Boyd, J., Fugate, G., 2014. Preliminary Identification of At Risk Areas: Shoreline Change Special Area Management Plan (SAMP) Phase II – Narragansett Bay. Technical prepared for the Rhode Island Bay's Rivers and Watersheds Coordination Team

Oakley, B.A., Rasmussen, S.A., Boothroyd, J.C., **Freedman, J.**, Fugate, G., 2013. Preliminary Identification of At Risk Areas: Shoreline Change Special Area Management Plan (SAMP) Phase 1 – Rhode Island South Shore and Block Island. A report prepared for the Rhode Island Bay's Rivers and Watersheds Coordination Team

Boothroyd, J.C., Oakley, B.A., Rasmussen, S., **Freedman, J.**, McCandless, S., Dowling, M. and Hollis, R., Climate change comes to the south shore of Rhode Island: Erosion, Inundation and Migration. 106th Meeting of the New England Intercollegiate Geologic Conference

Freedman, J. and Higgins, M., 2003, What Do You Mean by Mean High Tide? The Public Trust Doctrine in Rhode Island: Coastal Features, Vol. 11, Issue 4, Coastal Resources Management Council, Wakefield, RI

Boothroyd, J. C., **Freedman J. H.**, Brenner H, B., and Stone, J. R., 1998, The Glacial Geology of Southern and Central Rhode Island, in Murray, D. P., Guidebook to Field Trips in Rhode Island and Adjacent Regions of Connecticut and Massachusetts: 1998 New England Intercollegiate Geological Conference 90th Annual Meeting, University of Rhode Island, Kingston, RI.

REVIEWER

Titus, J. G., et.al., 2009, Coastal Sensitivity to Sea Level Rise: A Focus on the Mid-Atlantic Region: U.S. Climate Change Science Program, Synthesis and Assessment Product 4.1, U.S. Government Printing Office, Washington, DC.

Oakley, B. A., Mike A. Manzi, Brandon J. Sumeersarnauth and Samantha Boyle, (in review), The Block Island Bluff Image Project: Using Google Earth, Spreadsheet Mapper and Google Drive to build a database of spatially located field images, Journal of Coastal Research.

SELECTED PRESENTATIONS

2015

Coastal Stormwater: What Goes Up and What Comes Down. Sea Level Rise, Storm Surge and Stormwater Impacts: Environmental Business Council Rhode Island Chapter, Providence, RI

Using Macrofossils to Reconstruct Precipitation Patterns in the Late Pleistocene/Early Holocene: Geological Society of America Northeast Section Annual Meeting, Bretton Woods, NH

Block Island Climate Change Resiliency Planning, New Tools: Society of Wetland Scientists 2015 Annual Meeting, Block Island, RI

2014

Beach Replenishment Strategies in Rhode Island: Northeast Shore and Beach Preservation Association Conference on New England Coastal Issues, Taunton, Ma

Changes in the Coastal Zone: The Metcalf Institute for Marine and Environmental Reporting, 16th Annual Science Immersion Workshop for Journalists, South Kingstown, RI

2013

Understanding and Addressing Climate Change Impacts in North Kingstown: North Kingstown Free Library, North Kingstown, RI.

Climate Change-Why It Matters to the Northeast: Irene, the 100 Year and 200 Year Flooding in RI, and Extra-tropical Super Storm Sandy - The Then, The Now, and The To-Be. Co-presenter David Vallee, Hydrologist In Charge, NOAA, National Weather Service, Northeast River Forecast Center, Doing the Extraordinary; USGBC Upper Northeast Regional Summit, Warwick, RI.

2012

Losing Ground: Coastal Erosion in Rhode Island: Rhode Island Sea Grant Summer Series, Narragansett, RI.

The Changing Shore: Coastal Erosion in Rhode Island: Peter B. Lord Seminar on the Environment, Climate

Change Impacts in Southern New England, The Metcalf Institute, University of Rhode Island, Narragansett, RI.
Coastal Erosion Control in RI Policy and Regulations. EJP Coastal Erosion Control Workshop, Providence, RI.
Climate Change: Implications for Block Island: Environmental & Energy Law Committee, Rhode Island Bar Association, Block Island, RI.

The Times They are A-Changing Climate Change Impacts in Coastal Rhode Island. RI Department of Environmental Management Community Partners, Providence, RI.

2011

Building Blocks for Climate Change Adaptation-Tools for Community Assessment and Planning: RI Flood Mitigation Association 5th Annual Meeting, Warwick, RI.

Challenges of Eelgrass Restoration: Ninigret Pond, Charlestown RI: The Science and Management of Salt Ponds and Coastal Lagoons, RI Natural History Survey, North Kingstown, RI.

2010

Changing Climate, Changing Future: Climate Change Impacts to Rhode Island and Supporting Science: Planning for Community Climate Change Adaptation, Narragansett Bay Estuarine Research Reserve, Providence, RI
Coastal Hazards: Today and Tomorrow: Coastal Education Series, RI Coastal Resources Management Council, Providence, RI.

Rhode Island Efforts Towards Mitigation and Adaptation to Climate Change: Groton Coastal Climate Adaptation Workshop, Groton, CT.

2009

Adaptation to Climate Change in Rhode Island: Update on Climate Change Understanding the Latest Science and Implications for Rhode Island and New England. EBC Breakfast Program, Providence, RI.

Angry Seas: Impacts of Hurricanes and Nor'easters in Rhode Island's Shoreline: Coastweeks, North Kingstown, RI.

Climate Change and the Future of Historic Properties along the Rhode Island Coast: 24th Annual Rhode Island Statewide Historic Preservation Conference, University of Rhode Island, Kingston, RI.

CRMC Regulations and Initiatives: A New Dawn or the Same Old? Obama and the Environment from Global to the Very Local, Center for Environmental Studies, Brown University, Providence, RI.

Developing Climate Change and Sea Level Rise Regulations in the Ocean State: ASTSWMO Mid-Year Meeting, Columbus, OH.

Impacts of Global Warming on Coastal Resources in the Northeast: Northeastern Mosquito Control Association, 54th Annual Meeting, Providence, RI.

Natural Hazards and Climate Change-Urban Adaptation: Center for Environmental Studies, Brown University, Providence, RI.

Rhode Island Efforts Towards Mitigation and Adaptation to Climate Change: Northeast CZM Regional Meeting, webcast.

2008

Changing Climate, Changing Future: Retreat From The Edge, Roy Carpenter's Beach, South Kingstown, RI

CRMC Policy on Coastal Management in the Context of Climate Change: Climate Change and Rhode Island's Coast: Where Will Tomorrow's Shoreline Be? Narragansett, RI

Impacts of Global Warming on Coastal and Water Resources: SRF National Workshop, Providence, RI.

Natural Hazards – Metro Bay Area: Providence Waterfront Charrette, Providence, RI

RI Climate Change and Sea Level Rise Policy: Program Manager's Meeting – State CZM Programs, Washington, DC.

2007

Impacts of Global Warming on Coastal Resources in Rhode Island: Gasping for Air: Climate Change in the Courts, Roger Williams School of Law, Bristol, RI

Impacts of Global Warming on Coastal Resources in Rhode Island: Confronting Climate Change in the U.S. Northeast, Science, Impacts, and Solutions, Save the Bay Center, Providence, RI.

Will Your Home be There for Your Grandchildren? Sea Grant Summer Community Lecture Series, Charlestown, RI

PROFESSIONAL MEMBERSHIPS AND COMMITTEES

Coastal Education and Research Foundation

Geological Society of America

Northeast Regional Ocean Council (NROC) Hazard Committee

Northeast Regional Association of Ocean Observing Systems (NERACOOS) Hazard Committee

Providence Harbor Commission

Rhode Island Flood Mitigation Education and Outreach Committee

Rhode Island Hazard Mitigation Committee