

# Climate Summit IV Resource List 2015

Keynote: *Capitalizing on Blue Carbon: New Guidance and Tools for Coastal Managers and Policymakers*  
Tonna-Marie Surgeon-Rogers,  
Waquoit Bay National Estuarine Research Reserve

<http://www.waquoitbayreserve.org/education-training/coastal-training-programs/2015-coastal-blue-carbon-conference/>

*New Hampshire Coastal Risks and Hazards Commission*  
Chair Cliff Sinnott, Rockingham Planning Commission  
Senator Nancy Stiles District 24 and Senator David Watters District 04

The NHCRHC resources are available on the following link under the CRHC tab.  
[www.NHCAW.org](http://www.NHCAW.org)

*What can our salt marshes tell us about climate change and sea level rise?*  
Dr. David Burdick, University of New Hampshire

## Resources:

**Surface Elevation Table and Marker Horizon methods:** <https://www.pwrc.usgs.gov/set/>

**Values of Marshes:** Chapter 15 in:

Link: [http://download.springer.com/static/pdf/328/bok%253A978-1-61091-229-7.pdf?originUrl=http%3A%2F%2Flink.springer.com%2Fbook%2F10.5822%2F978-1-61091-229-7&token2=exp=1434553285~acl=%2Fstatic%2Fpdf%2F328%2Fbok%25253A978-1-61091-229-7.pdf%3ForiginUrl%3Dhttp%253A%252F%252Flink.springer.com%252Fbook%252F10.5822%252F978-1-61091-229-7\\*~hmac=b02a9144f6f4b6ffc627111df4ab14862ba06632827c886814b417ad921973d2](http://download.springer.com/static/pdf/328/bok%253A978-1-61091-229-7.pdf?originUrl=http%3A%2F%2Flink.springer.com%2Fbook%2F10.5822%2F978-1-61091-229-7&token2=exp=1434553285~acl=%2Fstatic%2Fpdf%2F328%2Fbok%25253A978-1-61091-229-7.pdf%3ForiginUrl%3Dhttp%253A%252F%252Flink.springer.com%252Fbook%252F10.5822%252F978-1-61091-229-7*~hmac=b02a9144f6f4b6ffc627111df4ab14862ba06632827c886814b417ad921973d2)

Also fish:

[http://www.addisonmaine.org/pdf/wbsc\\_reports/fish%20habitat/Addison\\_fish\\_brochure\\_FINAL\\_April23\\_2007.pdf](http://www.addisonmaine.org/pdf/wbsc_reports/fish%20habitat/Addison_fish_brochure_FINAL_April23_2007.pdf)

**How do marshes work?** See Chapter 22 in link above;

also: Morris, J.T., P.V. Sundareshwar, C.T. Nietch, B. Kjerfve, DR Cahoon. 2002. Responses of coastal wetlands to rising sea level. *Ecology* 83:2869-2877.

## Sea Level Rise

Nicholls, R.J. and A. Cazenave. 2010. Sea-Level Rise and Its Impact on Coastal Zones. *Science* 328: 1517; DOI: 10.1126/Science.1185782.

Goddard, P.B., J.J. Yin, S.M. Griffies and S.Q. Zang. 2015. An extreme event of sea-level rise along the Northeast coast of North America in 2009-2010. *Nature Communications* 6: #6346. DOI: 10.1038/ncomms7346.

**Climate change impacts to tidal marshes:**

Kirwan, M. L., and G. R. Guntenspergen (2010), Influence of tidal range on the stability of coastal marshland. *J. Geophys. Res.*, 115, F02009, doi:10.1029/2009JF001400

Cahoon, D. R. and G. R. Guntenspergen. 2010. Climate change, sea-level rise, and coastal wetlands. *National Wetlands Newsletter* 32(1):8-12.

Morris, J.T., P.V. Sundareshwar, C.T. Nietch, B. Kjerfve, DR Cahoon. 2002. Responses of coastal wetlands to rising sea level. *Ecology* 83:2869-2877.

**Planning for SLR and CC impacts to marshes:**

[http://www.habitat.noaa.gov/pdf/slr\\_workshop\\_report\\_november\\_2011.pdf](http://www.habitat.noaa.gov/pdf/slr_workshop_report_november_2011.pdf)

**Burdick research:**

<http://des.nh.gov/organization/divisions/water/wmb/coastal/documents/resilient-perf-rpt-3.pdf>

Dredging associated with marsh subsidence in Wells Maine:

[http://www.wellsreserve.org/writable/files/mld\\_cv\\_3\\_10.doc](http://www.wellsreserve.org/writable/files/mld_cv_3_10.doc)

*The NH Coastal Viewer: Customizable Risks and Hazards Information*

Fay Rubin, NH GRANIT and Kirsten Howard, NH Coastal Program

The link to the NH Coastal Viewer: <http://nhcoastalviewer.unh.edu/>

*Piscataqua Region Environmental Planning Assessment:*

*Where does my town fit in the region's efforts on climate change?*

Jill Farrell and Abigail Gronberg, Piscataqua Region Estuaries Partnership

PREPA Online (downloadable pdf for full report at the bottom of the page)

<http://prepestuaries.org/prepa/>

PREPA Subwatershed Reports (downloadable pdfs at the bottom of the page)

<http://prepestuaries.org/prepa/actions/>

*NH Shoreline Change Analysis*

Neil Olson, NH Geological Survey

Mapping rates of shoreline change from historic aerial photographs:

<http://pubs.usgs.gov/of/2010/1118/>

Using LiDAR derived surfaces to map coastal changes has a lot of good references, this is a good starting point that covers a bunch of the relevant literature:

<http://www.jcronline.org/doi/full/10.2112/SI53-001.1>

*Sustaining Champions of Climate Adaptation in Coastal Communities:*

*A Northern New England Study*

Alexandra Philip, NH Sea Grant Doyle Fellow

[https://seagrant.unh.edu/sites/seagrant.unh.edu/files/media/pdfs/extension/climate\\_champions\\_2014.pdf](https://seagrant.unh.edu/sites/seagrant.unh.edu/files/media/pdfs/extension/climate_champions_2014.pdf)

*Soak Up the Rain: Building Resilient Landscapes at the Grass Roots*

Jillian McCarthy, NH Department of Environmental Services

- Soak Up the Rain website <http://soaknh.org/>
- NH Homeowner's Guide to Stormwater Management <http://des.nh.gov/organization/commissioner/pip/publications/wd/documents/wd-11-11.pdf>
- Landscaping at the Water's Edge <http://extension.unh.edu/Landscaping-Waters-Edge-Publications>
- Project planning resources <http://soaknh.org/resources-2/soak-field-documents/>

*The Solar Panel – Overcoming Challenges to Using Solar Energy*

*In Agencies, Municipalities, and Communities*

Host: Sherry Godlewski, NH Department of Environmental Services

Panelists:

Clay Mitchell, Esq PhD, Lecturer Natural Resources & the Environment

University of New Hampshire

Joseph Harrison, Director of Clean Energy Finance

NH Community Development Finance Authority

Andrew Kellar, Founder

NhSolarGarden

To follow up on our conversation about installing solar on landfills, here is a link to Massachusetts department of energy resources best practices

guide. <http://www.mass.gov/eea/docs/doer/green-communities/pubs-reports/pvlandfillguide.pdf>

Here is a pretty cool map showing all of the landfill projects in Massachusetts

<http://maps.env.state.ma.us/dep/arcgis/js/templates/RenewablesAtLandfills/>.

Finally, MA DEP has developed a very straightforward post closure use permitting process, and perhaps New Hampshire could adopt or amend their process to something similar <http://www.mass.gov/eea/agencies/massdep/service/approvals/bwp-sw-36-37.html>.

## Other Noteworthy links and resources.

Durham was chosen as one of five towns across the country to receive the 2014 Walter B. Jones Memorial Award for Excellence in Local Government for their work on developing the climate adaptation chapter (among other initiatives). Here is the link to the article on fosters.

[http://www.fosters.com/apps/pbcs.dll/article?AID=/20150130/GJNEWS\\_01/150139978/0/SEARCH](http://www.fosters.com/apps/pbcs.dll/article?AID=/20150130/GJNEWS_01/150139978/0/SEARCH)

The New Hampshire Department of Safety's Division of Homeland Security and Emergency Management has created [www.ReadyNH.gov](http://www.ReadyNH.gov), which provides all the information needed to help citizens and households prepare for the next big storm.

The new [U.S. Climate Resilience Toolkit](#) has been released. This toolkit is designed to help guide individuals, businesses, and communities through the process of planning and implementing resilience-building projects. Please see the links below for more information.