THE UNIVERSITY OF RHODE ISLAND
GRADUATE SCHOOL OF OCEANOGRAPHY

Metcalf
Metcalf Institute for Marine & Environmental Reporting

ASNE LEADING AMERICA'S NEWSROOMS

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METCALF INSTITUTE FOR MARINE & ENVIRONMENTAL REPORTING

Climate Change and the News
A Seminar for News Leaders
September 18, 2014
Hyatt Regency Chicago

Resources List

Session 1: What Do News Audiences Need to Know about Climate Change?

Introduction to Climate Science

Intergovernmental Panel on Climate Change Fifth Assessment Report.
Working Group I, The Physical Science Basis: https://www.ipcc.ch/report/ar5/wg1/
Working Group II, Impacts, Adaptation, and Vulnerability: https://www.ipcc.ch/report/ar5/wg2/
Working Group III, Mitigation of Climate Change: https://www.ipcc.ch/report/ar5/wg3/

National Climate Assessment. http://nca2014.globalchange.gov/

National Aeronautics and Space Administration (NASA). Climate change: How do we know? http://climate.nasa.gov/evidence

National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center. State of the Climate. http://www.ncdc.noaa.gov/sotc/

NOAA National Climatic Data Center. Global Climate Change Indicators. https://www.ncdc.noaa.gov/indicators/

The Royal Society and U.S. National Academy of Sciences. (2014) Climate Change: Evidence and Causes. https://royalsociety.org/policy/projects/climate-evidence-causes/

The Royal Society. (2014, February 27) The Basics of Climate Change. http://royalsociety.org/policy/projects/climate-evidence-causes/basics-of-climate-change/

Weather Underground. Evidence of Climate Change. http://www.wunderground.com/climate/evidence.asp?MR=1

Public Opinion of Climate Change

Jordan, R. (2013, March 28). Americans back preparation for extreme weather and sea level rise. Stanford Woods Institute for the Environment. http://woods.stanford.edu/news-events/news/americans-back-preparation-extreme-weather-and-sea-level-rise

Leiserowitz, A., N. Smith, and J.R. Marlon. (2010) *Americans' Knowledge of Climate Change*. Yale University. New Haven, CT: Yale Project on Climate Change Communication.
http://environment.yale.edu/climate-communication/article/Americans-knowledge-of-climate-change
Climate Change in the American Mind.
(A description of national and regional studies by the Yale Project on Climate Change Communication, with links to a variety of reports like the one above.)
http://environment.yale.edu/climate-communication/projects/research/climate-change-in-the-american-mind/

Morello, L. (2013) Poll finds U.S. support for adaption to climate change. *Nature*. http://blogs.nature.com/news/2013/03/poll-finds-americans-favor-adaptation-to-climate-change.html

Stanford Woods Institute for the Environment. (2013). Americans Back Preparation for Extreme Weather and Sea Level Rise. http://woods.stanford.edu/news-events/news/americans-back-preparation-extreme-weather-and-sea-level-rise

Various Authors. (2014, May 8) Climate Debate Isn't So Heated in the U.S. *The New York Times*, New York, NY. (A Room for Debate feature in The Opinion Pages, with commentary authored by seven contributors from varying backgrounds.) http://www.nytimes.com/roomfordebate/2014/05/08/climate-debate-isnt-so-heated-in-the-us

Challenges to the Status Quo I

Water Resources

Blanc, E. et al. (2013, February) *Analysis of U.S. water resources under climate change*. Report No. 239, MIT Joint Program on the Science and Policy of Global Change. http://globalchange.mit.edu/files/document/MITJPSPGC_Rpt239.pdf

Godden, L., R.L. Ison, and P.J. Wallis. (2011) Water governance in a climate change world: appraising systemic and adaptive effectiveness. *Water Resources Management* 25:3971-3976. http://link.springer.com/article/10.1007%2Fs11269-011-9902-2

Matonse, A.H., D.C. Pierson, A. Frei, M.S. Zion, A. Anandhi, E. Schneiderman, and B. Wright. (2013) Investigating the impact of climate change on New York City's primary water supply. *Climatic Change*, 116(3-4): 437-56. DOI: 10.1007/s10584-012-0515-4

Michel-Guillou, E. (In press) Water resources and climate change: water managers' perceptions of these related environmental issues. *Journal of Water and Climate Change*. DOI: 10.2166/wcc.2014.098 http://www.iwaponline.com/jwc/up/jwc2014098.htm

Mikkelson, K.M., E.R.V. Dickinson, R.M. Maxwell, J.E. McCray, and J.O. Sharp. (2013) Water-quality impacts from climate-induced forest die-off. *Nature Climate Change*. DOI: 10.1038/nclimate1724 http://www.nature.com/nclimate/journal/v3/n3/full/nclimate1724.html

U.S. Environmental Protection Agency. Climate Impacts on Water Resources. http://www.epa.gov/climatechange/impacts-adaptation/water.html

Agriculture, Forestry, Fisheries

Allison, E.H., et al. (2009) Vulnerability of National Economies to the Impacts of Climate Change on Fisheries. *Fish and Fisheries*. 10(2): 173-196. http://onlinelibrary.wiley.com/doi/10.1111/j.1467-2979.2008.00310.x/abstract

Barange, M., et al. (2014) Impacts of climate change on marine ecosystem production in societies dependent on fisheries. *Nature Climate Change*, 4: 211-216. DOI: 10.1038/nclimate2119

Boesch, D.F., V.J. Coles, D.G. Kimmel, and W.D. Miller. (2007, December) Coastal dead zones and global climate change: ramifications of climate change for Chesapeake Bay hypoxia. Pew Center on Global Climate Change. http://www.c2es.org/docUploads/Regional-Impacts-Chesapeake.pdf

Ceres. (2014, June 11) Water and climate risks facing U.S. corn production: How companies and investors can cultivate sustainability. Ceres, Boston.

(Access to this report requires a free registration.) https://www.ceres.org/resources/reports/water-and-climate-risks-facing-u.s.-corn-production-how-companies-and-investors-can-cultivate-sustainability/view

Cinner, J.E., C. Huchery, E.S. Darling, A.T. Humphries, N.A.J. Graham, C. Hicks, N. Marshall, and T.R. McClanahan. (2013) Evaluating social and ecological vulnerability of coral reef fisheries to climate change. *PLoS One*, DOI: 10.1371/journal.pone.0074321

Cooney, C.M. (2011, April) Preparing a people: climate change and public health. *Environmental Health Perspectives* 119(4):166-171.
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3080957/

Doney, S.C. et al. (2012) Climate change impacts on marine ecosystems. *Annual Review of Marine Science*, 4: 11-37. DOI: 10.1146/annurev-marine-041911-111611

Elliott, J., et al. (2014, March) Constraints and potentials of future irrigation water availability on agricultural production under climate change. *Proceedings of the National Academy of Sciences* 111(9):3239-3244.
http://dx.doi.org/10.1073/pnas.1222474110

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Lobell, D.B., M.B. Burke, C. Tebaldi, M.D. Mastrandrea, W.P. Falcon, and R.L. Naylor. (2008, February) Prioritizing climate change adaptation needs for food security in 2030. *Science* 319(5863):607-10.
http://dx.doi.org/10.1126/science.1152339

Miller, A.W. and G.M. Ruiz. (2014) Arctic shipping and marine invaders. *Nature Climate Change* 4: 413–416. DOI: 10.1038/nclimate2244

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Nelson, G.C. et al. (2014, May) *Advancing global food security in the face of a changing climate*. The Chicago Council on Global Affairs.
http://www.thechicagocouncil.org/UserFiles/File/ClimateChangeFoodSecurity.pdf

Patz, J.A., D. Campbell-Lendrum, T. Holloway, and J.A. Foley. (2005, November 17) Impact of regional climate change on human health. *Nature* 438:310-317.
http://www.nature.com/nature/journal/v438/n7066/full/nature04188.html

Payne, M.R. (2013) Fisheries: Climate change at the dinner table. *Nature*, 497: 320-321.
http://www.nature.com/nature/journal/v497/n7449/full/497320a.html

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(The results of a survey of African-American physicians, concerning their views of the health impacts of climate change on patient care.)
http://climatechangecommunication.org/sites/default/files/reports/20140623%20FINAL%20REPORT%20OF%20KEY%20FINDINGS%20NMA%20SURVEY.pdf

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U.S. Environmental Protection Agency. Climate impacts on human health.

http://www.epa.gov/climatechange/impacts-adaptation/health.html

Vermeulen, S.J., B.M. Campbell, and J.S.I. Ingram. (2012, November) Climate change and food systems. *Annual Review of Environment and Resources* 37:195-222. http://dx.doi.org/10.1146/annurev-environ-020411-130608

Wheeler, T., and J. von Braun. (2013, August) Climate change impacts on global food security. *Science* 341(6145):508-513. http://dx.doi.org/10.1126/science.1239402
Public Health

Communities, Infrastructure
Lin, N., Emanuel, K., Oppenheimer, M., and E. Vanmarcke. (2012) Physically based assessment of hurricane surge threat under climate change. *Nature Climate Change*, 2(6): 462-467. http://www.nature.com/nclimate/journal/v2/n6/abs/nclimate1389.html

Martinich, J., Neumann, J.E., Ludwig, L. and L. Jantarasami. (2012) Risks of sea level rise to disadvantaged communities in the United States. Mitigation and Adaptation Strategies for Global Change. http://link.springer.com/article/10.1007%2Fs11027-011-9356-0

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Challenges to the Status Quo II

Military Planning & National Security
Barnett, J., and W.N. Adger. (2007, August) Climate change, human security and violent conflict. *Political Geography*, 26(6): 639-55. http://dx.doi.org/10.1016/j.polgeo.2007.03.003

CNA Military Advisory Board. (2014) National Security and the Accelerating Risks of Climate Change. Alexandria, VA: CNA Corporation. http://www.cna.org/sites/default/files/MAB_2014.pdf

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Masters, J. (December 16, 2013) The thawing Arctic: risks and opportunities. Council on Foreign Relations. http://www.cfr.org/arctic/thawing-arctic-risks-opportunities/p32082

U.S. Government Accountability Office. (2014) *Climate change adaptation: DOD can improve infrastructure planning and processes to better account for potential impacts*. Report to Congressional Requesters.
(A report assessing and recommending actions of the Department of Defense for responding to climate change impacts on infrastructure and operations.) http://www.gao.gov/products/GAO-14-446

Business
Dyer, G. (2009) Climate Change and Security: Risks and Opportunities for Business. Lloyd's 360° Risk Insight, Lloyd's.
http://www.lloyds.com/~/media/lloyds/reports/360/360%20climate%20reports/climatechangeandsecurity_200904.pdf

Grossman, D. et al. (2013) *GEO-5 for business: impacts of a changing environment on the corporate sector*. United Nations Environment Programme.
http://www.unep.org/geo/pdfs/geo5/GEO5_for_Business.pdf

Hannah, L., et al. (2013) Climate change, wine, and conservation. *Proceedings of the National Academy of Sciences* 110(17):6907-6912. http://www.pnas.org/content/110/17/6907.abstract

Morrison, J., M. Morikawa, M. Murphy, and P. Schulte. (2009, February) *Water scarcity & climate change: growing risks for businesses & investors*. Ceres and the Pacific Institute.
http://www.ceres.org/resources/reports/water-scarcity-climate-change-risks-for-investors-2009

Smith, T.K. (2014, June 24) Hank Paulson, Mike Bloomberg, and Tom Steyer walk into a bar and agree on this one thing. *Fortune*.
(A discussion of the report *Risky business: The economic risks of climate change in the United States*.)
http://fortune.com/2014/06/24/risky-business-climate-change-report/
The full report can be found here:
http://riskybusiness.org/uploads/files/RiskyBusiness_Report_WEB_09_03_14.pdf

Whiteman, G., C. Hope, and P. Wadhams. (2013, July 25) Climate science: vast costs of Arctic change. *Nature* 499:401-403. http://www.nature.com/nature/journal/v499/n7459/full/499401a.html

Session 2: Bringing it Home: How Communities Are Tackling Climate Change

Local Approaches to Climate Preparedness and Resilience

Bergeron, D., G. Clark, F. Lichtkoppler, and J. Lucente. *Preparing Coastal Communities and Businesses for Climate Change: Duluth, MN and Toledo, OH: Focus Group Results*.
(A product of a May 2008 grant to the Great Lakes Sea Grant Network, NOAA Great Lakes Environmental Research Laboratory, and the Cooperative Institute for Limnology and Ecosystem Research.)
http://climategreatlakes.com/wp-content/uploads/2013/10/16-Final-Report-Focus-Group-Survey-Work.pdf

Chicago Climate Task Force. Strategy 5: Adaptation. In *The Chicago Climate Action Plan*. City of Chicago, IL.
http://www.chicagoclimateaction.org/filebin/pdf/finalreport/Adaptation.pdf
Links and information for the remainder of the action plan can be found here:
http://www.chicagoclimateaction.org/

The City of New York. PlaNYC.
(A management plan for New York City, including resiliency to climate change.)
http://www.nyc.gov/html/planyc/html/about/about.shtml

Climate Education Partners. *San Diego, 2050 is calling. How will we answer?* Facing the future: how science can help prepare San Diego regional leaders for climate change.
(A lively informational booklet describing forecasted impacts on San Diego under climate change, with a focus on adaptation strategies.)
http://catcher.sandiego.edu/items/usd/2050.pdf

Douglas, E., Kirshen, P., Li, V., Watson, C., and J. Wormser. (2013, February) *Preparing for the Rising Tide*. The Boston Harbor Association.
http://www.tbha.org/sites/tbha.org/files/documents/preparing_for_the_rising_tide_final.pdf

Headwaters Economics. (2012, February) *Implementing climate change adaptation: lessons learned from ten examples*.
(A report by an independent research group, focusing on "lessons learned in the process of moving from planning to implementation of climate adaptation," using the following case studies: Boulder, CO; Chicago, IL; Chula Vista, CA; Eugene, OR; Keene, NH; Miami-Dade County, FL; New York, NY; Olympia, WA; Portland, OR; and Taos, NM.)
http://headwaterseconomics.org/wphw/wp-content/uploads/Climate_Adaptation_Lessons_Learned.pdf

Kirshen, P., Knee, K., and M. Ruth. (2008) Climate change and coastal flooding in Metro Boston: impacts and adaptation strategies. *Climatic Change* 90(4): 453-473.
http://link.springer.com/article/10.1007%2Fs10584-008-9398-9#page-1

Leichenko, R. et al. (2013, March) *Economic vulnerability and adaptation to climate hazards and climate change: building resilience in the Barnegat Bay region*. Rutgers, The State University of New Jersey.
http://bbp.ocean.edu/Reports/Leichenko-March2013_FinalReport%20with%20logos.pdf

New York City Panel on Climate Change. (2010) Climate change adaptation in New York City: building a risk management response. *Annals of the New York Academy of Sciences* 1196: 1-354.
http://onlinelibrary.wiley.com/doi/10.1111/nyas.2010.1196.issue-1/issuetoc

Olcott, C., and E. Penn. (2013) *Adaptive planning for flooding and coastal change in Virginia: legal and policy issues for local government*. Virginia Coastal Policy Clinic.
http://law.wm.edu/academics/programs/jd/electives/clinics/vacoastal/docs/adaptive%20planning%20conference%20documents/finalreport.pdf

Southeast Florida Regional Climate Change Compact. (2012, October) *A region responds to a changing climate: Southeast Florida regional climate change compact counties*. Regional Climate Action Plan.
(A report by a regional collaborative including Broward, Miami-Dade, Monroe, and Palm Beach Counties, "for the purpose of providing information on climate change planning strategies relevant to Southeast Florida.") https://www.broward.org/Legislative/Documents/ChangingClimate.pdf

Tillmann, P. and D. Siemann. (2011) *Climate change effects and adaptation approaches in marine and coastal ecosystems of the North Pacific Landscape Conservation Cooperative Region: a compilation of scientific literature* (phase I draft final report). National Wildlife Federation.
http://pajk.arh.noaa.gov/Articles/articles/NPLCC_MarineClimateEffects.pdf

U.S. Environmental Protection Agency. Adaptation Efforts: New England States
http://www.epa.gov/region1/eco/energy/adaptation-efforts-ne.html

Business
Ceres. (2012) *Insurer Climate Risk Disclosure Survey 2012*. Ceres.
(This "report summarizes responses from insurance companies to a survey on climate risk developed by the National Association of Insurance Commissioners (NAIC)." Access to report requires free registration.)
http://www.ceres.org/resources/reports/naic-report/view

Crawford, M., and S. Seidel. (2013, July) *Weathering the storm: building business resilience to climate change*. Center for Climate and Energy Solutions and Bank of America.
(A report exploring "effective methods used by leading companies to build greater resilience into their operations, supply chains, preparedness policies, and risk management plans.")
http://www.c2es.org/publications/weathering-storm-building-business-resilience-climate-change

Sussman, F.G. and J.R. Freed. (2008, April) *Adapting to Climate Change: A Business Approach. Center for Climate and Energy Solutions*, Arlington, VA
http://www.c2es.org/docUploads/Business-Adaptation.pdf

Infrastructure
Olsen, R. (2010, June 22) *U.S. Army Corps of Engineers adaptation to climate change*. PowerPoint presentation, 87th Coastal Engineering Research Board Meeting, Jersey City, NJ.
(Provides a history and summary of the Corps' incorporation of climate change adaptation into project planning and implementation.)
http://chl.erdc.usace.army.mil/dirs/events/319/11%2087th%20CERB%20Olsen.pdf

U.S. Department of Energy. (2013) U.S. energy sector vulnerabilities to climate change and extreme weather. http://energy.gov/sites/prod/files/2013/07/f2/20130716-Energy%20Sector%20Vulnerabilities%20Report.pdf

Transportation
Hodges, T. (2011, August) *Flooded bus barns and buckled rails: public transportation and climate change adaptation*. FTA Report No. 0001. Federal Transit Administration, U.S. Department of Transportation, Washington, D.C. http://www.fta.dot.gov/documents/FTA_0001_-_Flooded_Bus_Barns_and_Buckled_Rails.pdf

Ng, A., and J.-P. Rodrigue. (2013) Climate change and the adaptation of transport infrastructure. In *The Geography of Transport Systems*, 3rd edition. Routledge: New York, NY.
(A summary of climate impacts on transportation, with links to specific topics and graphics.)
http://people.hofstra.edu/geotrans/eng/ch8en/appl8en/ch8a3en.html

Emergency Planning
Howe, P.D. (2011) Hurricane preparedness as anticipatory adaptation: a case study of community businesses. *Global Environmental Change* 21(2):711-720.
http://www.sciencedirect.com/science/article/pii/S0959378011000239

Kelly, C., and T. Ross. (2014, July) *One storm shy of despair: a climate-smart plan for the Administration to help low-income communities*. Center for American Progress.
(A summary of low-income communities' vulnerability to extreme weather events, with recommendations for decreasing that vulnerability.)
http://cdn.americanprogress.org/wp-content/uploads/2014/07/ResilienceTaskforce-report.pdf

Schneider, R.O. (2011) Climate change: an emergency management perspective. *Disaster Prevention and Management: An International Journal* 20(1):53-62.
http://www.emeraldinsight.com/doi/abs/10.1108/09653561111111081

Scaling Up Climate Change Resilience
Opportunities for incorporating resilience to climate change impacts at broader scales

Adger, W.N., T.P. Hughes, C. Folke, S.R. Carpenter, and J. Rockstrom. (2005, August) Social-ecological resilience to coastal disasters. *Science* 309(5737):1036-39. http://dx.doi.org/10.1126/science.1112122

Becker, A.H., et al. (2013, October) A note on climate change adaptation for seaports: a challenge for global ports, a challenge for global society. *Climatic Change* 120(4):683-95.
http://dx.doi.org/10.1007/s10584-013-0843-z

Berrang-Ford, L., J.D. Ford, and J. Paterson. (2011) Are we adapting to climate change? *Global Environmental Change* 21(1):25-33.
http://www.sciencedirect.com/science/article/pii/S0959378010000968

Bierbaum, R., et al. (2013) A comprehensive review of climate adaptation in the United States: more than before, but less than needed. *Mitigation and Adaptation Strategies for Global Change* 18:361-406.
http://dx.doi.org/10.1007/s11027-012-9423-1

Carmin, J., N. Nadkarni, and C. Rhie. (2012) *Progress and challenges in urban climate adaption panning: results of a global survey*. MIT, Cambridge, MA.
http://web.mit.edu/jcarmin/www/urbanadapt/Urban%20Adaptation%20Report%20FINAL.pdf

Cutter, S.L., and M.L. Zoback. (2013) Improving the nation's resilience to disasters. *Eos, Transactions American Geophysical Union* 94(9): 89. http://dx.doi.org/10.1002/2013EO090007

Deep Decarbonization Pathways Project (DDPP)
(A project of the Sustainable Development Solutions Network, which was launched by the UN in 2012, aiming to "understand and show how individual countries can transition to a low-carbon economy and how the world can meet the internationally agreed target of limiting the increase in global mean surface temperature to less than 2 degrees Celsius.")
http://unsdsn.org/what-we-do/deep-decarbonization-pathways/
The project's latest report can be found here:
http://unsdsn.org/resources/publications/pathways-to-deep-decarbonization-interim-2014-report/

Hinkel, J., et al. (2014) Coastal flood damage and adaptation costs under 21st century sea-level rise. *Proceedings of the National Academy of Sciences* 111(9):3292-3297.
http://www.pnas.org/content/early/2014/01/29/1222469111.abstract

Hunt, A., and P. Watkiss. (2011) Climate change impacts and adaptation in cities: a review of the literature. *Climatic Change* 104:13-49. http://link.springer.com/article/10.1007/s10584-010-9975-6

Kates, R.W., W.R. Travis, and T.J. Wilbanks. (2012) Transformational adaptation when incremental adaptations to climate change are insufficient. *Proceedings of the National Academy of Sciences* 109(19):7156-7161.
http://www.pnas.org/content/109/19/7156.short

Kousky, C. (2014) Managing shoreline retreat: a US perspective. *Climatic Change* 124(1-2):9-20.
http://link.springer.com/article/10.1007/s10584-014-1106-3

Nystrom, S., and Luckow, P. (2014, June 9) *The economic, climate, fiscal, power, and demographic impact of a national fee-and-dividend carbon tax*. Regional Economic Models, Inc., and Synapse Energy Economics, Inc.
(A report prepared by the two companies above for Citizens' Climate Lobby.)
http://citizensclimatelobby.org/wp-content/uploads/2014/06/REMI-carbon-tax-report-62141.pdf

O'Neill, M. et al. (2010) U.S. local action on heat and health: are we prepared for climate change? *International Journal of Public Health* 55:105-112. http://link.springer.com/article/10.1007/s00038-009-0071-5

Oxfam. (2009, November 18) Introduction to climate change adaptation: a learning companion.
http://policy-practice.oxfam.org.uk/publications/introduction-to-climate-change-adaptation-a-learning-companion-202465

Pelling, M. (2011) *Adaptation to climate change: from resilience to transformation*. Routledge, New York, NY.
http://books.google.com/books/about/Adaptation_to_Climate_Change.html?id=1aZ_aVsKSGsC

Tol, R.S.J., Klein, R.J.T., and R.J. Nicholls. (2008) Towards successful adaptation to sea-level rise along Europe's coasts. *Journal of Coastal Research* 24(2):432-442.
http://www.bioone.org/doi/abs/10.2112/07A-0016.1

USAID. (2009, May). *Adapting to coastal climate change: a guidebook for development planners*. United States Agency for International Development.
http://www.crc.uri.edu/download/CoastalAdaptationGuide.pdf

Wilby, R.L. and R. Keenan. (2012) Adapting to flood risk under climate change. *Progress in Physical Geography* 36:348-378. http://dx.doi.org/10.1177/0309133312438908

U.S. Government Accountability Office. (2013, April 12) *Climate change: future federal adaptation efforts could better support local infrastructure decision makers*. GAO.
http://www.gao.gov/products/GAO-13-242

Zimmerman, R., and C. Faris. (2011) Climate change mitigation and adaptation in North American cities. *Current Opinion in Environmental Sustainability* 3(3):181-187.

http://www.sciencedirect.com/science/article/pii/S1877343510001430

General Resources

Bloomberg News. (2014, June 24). Hank Paulson: climate change is the enemy we all face. YouTube.
https://www.youtube.com/watch?v=kGCgvY9tFSg

Center for Climate and Energy Solutions. Years of Living Dangerously Resources.
(A list of climate change impacts and actions/policies, as a follow-up to the documentary series *Years of Living Dangerously*.)
http://www.c2es.org/years-of-living-dangerously-resources

Heal, G., and A. Millner. (2013, March) *Uncertainty and decision in climate change economics*. Center for Climate Change Economics and Policy (Working Paper No. 128) and Grantham Research Institute on Climate Change and the Environment (Working Paper No. 108).
http://www.cccep.ac.uk/Publications/Working-papers/Papers/120-129/WP128-uncertainty-climate-change-economics.pdf

PopTech. Climate Resilience Lab Resources.
(The CRLR is "exploring innovation at the intersection of community resilience, climate change, and the empowerment of girls and women.")
http://poptech.org/climate_lab_resources

U.S. Environmental Protection Agency. Climate Change Impacts and Adapting to Change.
http://www.epa.gov/climatechange/impacts-adaptation/

Journalism Resources

Techniques for Reporting on Climate Change

van der Linden, S.L, A.A. Leiserowitz, G.D. Feinberg, and E.W. Maibach.(2014) How to communicate the scientific consensus on climate change: plain facts, pie charts or metaphors? *Climatic Change*. DOI: 10.1007/s10584-014-1190-4.
http://link.springer.com/article/10.1007/s10584-014-1190-4

Ward, B. (2008) Communicating on Climate Change: An Essential Resource for Journalists, Scientists, and Educators. Metcalf Institute, University of Rhode Island, Narragansett, RI.
http://metcalfinstitute.org/resources/communicating-on-climate-change/

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http://science.time.com/2013/10/01/the-hard-math-of-flood-insurance-in-a-warming-world/

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http://www.nytimes.com/2012/11/03/opinion/forget-sustainability-its-about-resilience.html

Tools and Databases

Georgetown Climate Center. State and Local Adaptation Plans.
(A directory of climate adaptation plans from across the U.S.)
http://www.georgetownclimate.org/node/3324?page=1

GLAA-C. Socioeconomics and Climate Change in the Great Lakes Region.
(An interactive mapping tool that displays how climate change may impact local economies, infrastructure, and vulnerable populations around the Great Lakes.)
http://graham.umich.edu/glaac/great-lakes-atlas

National Snow & Ice Data Center. Arctic Sea Ice News and Analysis.
(Sea ice data are updated daily with a one-day lag; the site also provides contextual information.)
http://nsidc.org/arcticseaicenews/

Ch*arctic* Interactive Sea Ice Graph
(An interactive online display of Arctic sea ice extent from 1979 to 2014.)
http://nsidc.org/arcticseaicenews/charctic-interactive-sea-ice-graph/

The Nature Conservancy. Climate Wizard.
(An interactive online data visualization tool, for examining projected temperature and rainfall changes under IPCC emission scenarios.)
http://www.climatewizard.org

National Aeronautics and Space Administration (NASA). Global Change Master Directory.
(An extensive repository of varied Earth science data, visualization tools, and services.)
http://gcmd.nasa.gov/

NOAA Coastal Services Center. OpenNSPECT.
(An open-source tool for simulating erosion and pollution from surface water runoff, under different land use and climate change scenarios. Note that the website provides examples of the tool's use by various projects; however, it is a downloadable program, rather than an interactive online interface.)
http://www.csc.noaa.gov/digitalcoast/tools/opennspect

Ohio Watershed Data
(A project hosted by Ohio University that "compiles and tracks changes in Ohio's watersheds to measure the success of ongoing reclamation efforts.")
http://www.watersheddata.com/default.aspx

Partnership for Sustainable Communities. Sustainable Communities HotReport.
(An interactive online tool for viewing "sustainability indicators"—transportation, housing, economic development, income, and equity—by U.S. county.)
http://thedataweb.rm.census.gov/TheDataWeb_HotReport2/EPA2/EPA_HomePage2.hrml

Surging Seas: A Project of Climate Central.
(Interactive online tool for viewing sea level rise and storm surge effects upon 3000+ coastal towns, cities, counties, and states in the Lower 48 U.S. states.)
http://sealevel.climatecentral.org/

United Nations Framework on Climate Change Private Sector Initiative.
("This online database of case studies…features good practices and profitable climate change adaptation activities being undertaken by private companies (sometimes in partnership with NGOs or the public sector) from a wide range of regions and sectors.")
http://unfccc.int/adaptation/workstreams/nairobi_work_programme/items/6547.php

U.S. Climate Change Policy Action at the State Level
(List compiled by the Center for Climate and Energy Solutions provides links to climate change legislation, statewide climate change commissions, and climate action plans around the U.S. The list is not exhaustive, but provides a good starting point for additional information.)
http://www.c2es.org/what_s_being_done/in_the_states/state_legislation.cfm

U.S. Environmental Protection Agency. Federal and EPA Adaptation Plans.
(Lists a variety of U.S. adaptation plans developed by the EPA and across agencies.)
http://www.epa.gov/climatechange/impacts-adaptation/fed-programs.html

U.S. Environmental Protection Agency. National Greenhouse Gas Emissions Data.
(A page for the Inventory of U.S. Greenhouse Gas Emissions and Sinks, an annual report accounting for all human-made emission sources in the U.S.)
http://www.epa.gov/climatechange/ghgemissions/usinventoryreport.html

U.S. Environmental Protection Agency. Smart Location Mapping.
(Interactive mapping tools for urban planning applications, particularly for considering public transit networks.) http://www.epa.gov/smartgrowth/smartlocationdatabase.htm

U.S. Environmental Protection Agency. Water Quality Management Research.
(A repository of links to projects for improving water quality, and models/tools that are used in such research.) http://www.epa.gov/nrmrl/wswrd/wq/

U.S. Geological Survey Climate Projection Portal.
(Another interactive online data visualization tool, capable of mapping temperature, rainfall and growing season length under IPCC emission scenarios.)
http://cida.usgs.gov/climate/derivative/

U.S. Geological Survey Newsroom. (2013, December 10) What Are Future Climate Projections for Precipitation and Temperature for Your County?
(A news release, with links to the online interactive National Climate Change Viewer, which uses various models to display projected changes in temperature and precipitation for U.S. counties under future emission scenarios.) http://www.usgs.gov/newsroom/article.asp?ID=3745#.VAjD12O1EuI

U.S. National Oceanic and Atmospheric Administration Fisheries Data. http://www.st.nmfs.noaa.gov/index
Commercial Fisheries Statistics. http://www.st.nmfs.noaa.gov/commercial-fisheries/

Relevant Organizations

Association of State Floodplain Managers. http://www.floods.org/

Association of State Wetland Managers. http://www.aswm.org/

Business Council on Climate Change.
(This San Francisco-based coalition looks for collaborative, local solutions to climate change.)
http://www.bc3sfbay.org/

Center for Climate & Security.
(A nonprofit policy institute "exploring the security risks of climate change.")
http://climateandsecurity.org/

Center for Integrative Environmental Research. Climate Change Adaptation.
(CIER is a university-wide research hub based at the University of Maryland, School of Public Policy.)
http://cier.umd.edu/research-adaptation.html

Ceres.
(A non-profit working to "mobilize a powerful network of investors, companies and public interest groups to accelerate and expand the adoption of sustainable business practices and solutions to build a healthy global economy.")
http://www.ceres.org/

CoastAdapt.
(A project financed in part by the European Union to help coastal communities in the North Atlantic adapt to climate change.)
http://coastadapt.org/

Community & Regional Resilience Institute.
(This Tennessee-based group works to strengthen communities' and regions' abilities to prepare for, respond to, and rapidly recover from human-caused and natural disasters.)
http://www.resilientus.org/

Eno Center for Transportation.
(A think-tank concerned with improving transportation policy.)
https://www.enotrans.org

Federal Emergency Management Agency. National Flood Insurance Program.
(This site contains information on the NFIP, flood hazard mapping, the Community Rating System, and much more.)
http://www.fema.gov/national-flood-insurance-program

George Mason University Center for Climate Change Communication.
(Uses "social science research methods…to find ways of effectively engaging the public and policy makers in the problem, and in considering and enacting solutions.")
http://www.climatechangecommunication.org/

Gulf Coast Center for Evacuation and Transportation Resiliency.
(A joint effort of Louisiana State University and the University of New Orleans, the Center conducts research and outreach on issues affecting transportation under emergency conditions.)
http://www.evaccenter.lsu.edu/

Institute for Sustainable Cities.
(A research organization at the City University of New York.)
http://www.cunysustainablecities.org

Institute for Sustainable Communities.
(A non-profit dedicated to providing "tools and skills…to inspire active citizenship, protect the environment, and take on climate change.")
http://www.iscvt.org/

National Wildlife Federation Great Lakes Regional Center.
(This regional office is focused on Great Lakes restoration, stopping invasive species, and safeguarding the lakes from climate change.)
http://www.nwf.org/Great-Lakes.aspx

New Climate Economy.
(A project of The Global Commission on the Economy and Climate, this "new international initiative to analyze and communicate the economic benefits and costs of acting on climate change." Their first major report, "Better Growth, Better Climate" was released 9/16/14.)
http://newclimateeconomy.net/

Northeast Climate Science Center.
(A consortium of universities, research groups, and government agencies part of a "federal network of eight Climate Science Centers created to provide scientific information, tools, and techniques that managers and other parties interested in land, water, wildlife and cultural resources can use to anticipate, monitor, and adapt to climate change.") https://necsc.umass.edu

Ohio University. The Water Project.
(A "public clearinghouse for information related to environmental water issues within the Appalachian Ohio Valley. Its mission is to bring information to citizens, policymakers and researchers from Ohio University's journalism and academic communities and to provide a forum for community blogs and action groups.")
http://ouwaterproject.org/about/

Partnership for Sustainable Communities.
(An interagency partnership of the Dept. of Housing and Urban Development, Dept. of Transportation, and Environmental Protection Agency.)
http://www.sustainablecommunities.gov

Penn State Center for Solutions to Weather and Climate Risk.
(A research group with a mission "to advance the science of exploiting environmental opportunities and understanding environmental impacts to manage risk.") http://solutions2wxrisk.psu.edu

The Pew Charitable Trusts. Pew Project on National Security, Energy, and Climate.
http://www.pewenvironment.org/campaigns/pew-project-on-national-security-energy-climate/id/8589935509

Risky Business Project.
(A joint partnership of Bloomberg Philanthropies, the Paulson Institute, and TomKat Charitable Trust, with a focus on "quantifying and publicizing the economic risks from the impacts of a changing climate.")
http://riskybusiness.org/

Rural Climate Network, Institute for Agriculture and Trade Policy.
(An organization established to build collaboration among communities particularly dependent on natural resources, and consequently potentially more vulnerable to climate change.)
http://www.ruralclimatenetwork.org/about/about-us

Sabin Center for Climate Change Law at Columbia University Law School.
("…develops legal techniques to fight climate change…provides up to date resources on key topics in climate law and regulation.")

http://web.law.columbia.edu/climate-change

San Diego Climate Collaborative.
("A network for public agencies serving the San Diego region to share expertise, leverage resources, and advance…solutions to facilitate climate change planning.")
http://sdclimatecollaborative.org/

Science of Science Policy (SoSP).
("This website is intended to serve as a resource for the emerging community of practice engaged in developing and applying the Science of Science Policy. It offers a central location for news, information, and the communication of research findings." The site also contains a members directory.)
http://www.scienceofsciencepolicy.net

Tribes and Climate Change.
(This site offers "information and resources tailored to helping Native people gain a better understanding of climate change and its impacts on their communities," including "profiles of tribes in diverse regions of the U.S….coping with climate change impacts [and] audio files of elders discussing the issue from traditional perspectives.")
http://www4.nau.edu/tribalclimatechange/index.asp

USDA Regional Climate Hubs.
(Regional networks across the U.S. that "deliver information to farmers, ranchers and forest landowners to help them adapt to climate change and weather variability.")
http://www.usda.gov/oce/climate_change/regional_hubs.htm

weAdapt.
("An online 'open space' on climate adaptation issues and synergies with mitigation which allows practitioners, researchers and policy makers to access credible, high quality information and to share experiences and lessons learnt.")
http://weadapt.org/

Yale Project on Climate Change Communication.
(Based at Yale University, this group "conducts research on public climate knowledge, risk perceptions, decision-making and behavior.")
http://environment.yale.edu/climate-communication/

Additional Sources of Note (i.e., individuals and specialists)

Kristin Baja, Climate and Resilience Planner, Baltimore City Department of Planning, Office of Sustainability.
http://www.baltimoresustainability.org/about/staff

Rosina Bierbaum, Professor, University of Michigan.
(Research focus is climate change adaptation and mitigation) http://www.snre.umich.edu/profile/rbierbau

Kathryn A. Buckner, President, Council of Great Lakes Industries.
http://cgli.org/leadership/

Margaret Davidson, Acting Director, NOAA Office of Ocean and Coastal Resource Management
(Expertise in mitigating coastal impacts of climate change.)
http://coastalmanagement.noaa.gov/backmatter/contacts.html

Sherri Goodman, Senior Vice President, General Counsel, and Corporate Secretary; CNA Corporation.
(A specialist in climate change impacts on national security.)
http://www.cna.org/about/leadership/sherri-goodman

Nichole L. Hefty, Chief, Office of Sustainability, Planning Division; Miami-Dade Dept. of Regulatory and Economic Resources. http://www.miamidade.gov/planning/contact.asp

John Hummel, Center for Integrated Resiliency Analyses, Argonne National Lab.
http://www.anl.gov/articles/argonne-announces-new-center-integrated-resiliency-analyses

Howard Kunreuther, University of Pennsylvania Wharton School of Business.
(A specialist in risk assessment.)
http://opim.wharton.upenn.edu/risk/faculty/kunreuther.html

Arthur Lee, climate change advisor, Chevron.
http://www.globalchange.umd.edu/gtsp/topical-workshops/spring-2013/participant-biographies/

Anthony Leiserowitz, Research Scientist and Director, Yale Project on Climate Change Communication.
(Expertise in understanding public opinion on climate change and perception of risks.)
http://environment.yale.edu/profile/leiserowitz/

Anna Michalak, Department of Global Ecology, Carnegie Institution for Science.
http://globalecology.stanford.edu/labs/michalaklab/

Network for Climate Educators, hosted by the Department of Ecology, State of Washington.
(A listing of local, state, federal, tribal and non-governmental specialists in Washington state.)
http://www.ecy.wa.gov/climatechange/climateed_networkdirectory.htm

Jonathan Patz, Director, Global Health Institute; University of Wisconsin-Madison.
http://www.sage.wisc.edu/people/patz/patz.html

Don Scavia, Professor and Director of the Graham Environmental Sustainability Institute, University of Michigan. (water quality, climate change in Great Lakes, resource management, ecological changes in Great Lakes food webs) http://www.snre.umich.edu/profile/scavia

SheSource, Women's Media Center.
(An "online braintrust of female experts on diverse topics designed to serve journalists, producers and bookers.") http://www.shesource.org/

Joel Smith, Stratus Consulting; Boulder, CO, & Washington, D.C.
(Specializes in climate change impacts and adaptation.)
http://stratusconsulting.com/staff/