RESUME

James E. Overland

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Research Interests: Scientific support for decision makers on climate change and ecosystems in the Arctic and sub-Arctic. He leads projects on: historical climate changes, climate and sea ice projections in northern latitudes, ecosystem indices in the Bering Sea, and the Arctic Report Card and Sea Ice Outlook Websites. He contributed to the government response to the Endangered Species Act listings for polar bears, ribbon seals and spotted seals, and to the Arctic Transportation Study. He supports the Arctic Council and the International Arctic Science Committee on Arctic Climate Change. He advises NOAA fisheries managers on climate change issues, which in turn helps set fisheries quotas for the Bering Sea.

Academic Training

Ph.D. New York University, Physical Oceanography and Meteorology, 1973
M.S. University of Washington, Physical Oceanography, 1971
B.S. University of Washington, Physical Oceanography, 1970

Recent Awards

2007, 1986 Editors' Citation for Excellence in Refereeing for Geophysical Research Letters
2007 Invited speaker, Crafoord Prize Symposium
2005, 2006, 2007, 2008, 2009 NOAA for substantial publication productivity
2002 NOAA Administrator's Award (Leadership in Arctic Science)
1999 NOAA Special Act—Climate Change and Fisheries

Selected Societies and Committees

International Arctic Science Committee-Interim Chair for Atmosphere 2009-
US Marine Mammal Commission 2007-
Arctic Council, Climate Expert Group 2005-
Committee on the Coastal Ocean, National Academy of Sciences, 1990–1996
Panel on Marine Meteorology, National Academy of Sciences 1993–1994
Panel on Coastal Meteorology, National Academy of Sciences, 1990–1991

Selected Journal Activities
Editorial Advisory Board, *Polar Record* 2007-
Editor, *J. Geophysical Research, Oceans*, 1990–1994

Presentations
Dr. Overland makes over 12 scientific presentations a year, many of them are invited. Presentations in the previous year included COP 15 in Copenhagen in December 2009.

Selected Recent Journal Publications
Overland has over 100 peer reviewed articles on climate and ecosystems and a citation rate of over 190 per year. Visit the PMEL Publications Page for more publications.

Overland, J.E., and M. Wang (2010): Large-scale atmospheric circulation changes associated with the recent loss of Arctic sea ice. Tellus, 62A, 1–9.

Overland, J.E., J. Alheit, A. Bakun, J.W. Hurrell, D.L. Mackas, and A.J. Miller (2010): Climate controls on marine ecosystems and fish populations. J. Mar. Syst., 79(3–4), 305–315.

Wang, M., J.E. Overland, and N.A. Bond (2010): Climate projections for selected large marine ecosystems. J. Mar. Syst., 2(3–4), 258–266.

Wood, K.R., and J.E. Overland (2010): Early 20th century Arctic warming in retrospect. Int. J. Climatol. (Online)

Overland, J.E. (2009): Meteorology of the Beaufort Sea. J. Geophys. Res., 114, C00A07, doi: 10.1029/2008JC004861.

Overland, J.E. (2009): The case for global warming in the Arctic. In Influence of Climate Change on the Changing Arctic and Sub-Arctic Conditions, J.C.J. Nihoul and A.G. Kostianoy (eds.), Springer, 13-23.

Overland, J.E., H. Eicken, W. Meier, and H. Wiggins (2009): International Arctic sea ice monitoring program continues into second summer. Eos. Trans. AGU, 90(37), 321–322.

Hollowed, A.B., N.A. Bond, T.K. Wilderbuer, W.T. Stockhausen, Z.T. A'mar, R.J. Beamish, J.E. Overland, and M.J. Schirripa (2009): A framework for modelling fish and shellfish responses to future climate change. ICES J. Mar. Sci., 66, 1584–1594.

Wang, M., and J.E. Overland (2009): A sea ice free summer Arctic within 30 years? Geophys. Res. Lett., 36, L07502, doi: 10.1029/2009GL037820.

Overland, J., J. Turner, J. Francis, N. Gillett, G. Marshall, and M. Tjernstrom (2008): The Arctic and Antarctic: Two faces of climate change. Eos Trans. AGU, 89(19), 177–178.

Overland, J.E., S. Rodionov, S. Minobe, and N. Bond (2008): North Pacific regime shifts: Definitions, issues and recent transitions. Prog. Oceanogr., 77(1–2), 92–102.

Overland, J.E., M. Wang, and S. Salo (2008): The recent Arctic warm period. Tellus, 60A, 589–597.

Ray, G.C., G.L. Hufford, I.I. Krupnik, and J.E. Overland (2008): Diminishing sea ice. Science (Letters), 321(5895), 1443–1444.

Eriksson, C., A. Omstedt, J.E. Overland, D.B. Percival, and H.O. Mofjeld (2007): Characterizing the European sub-Arctic winter climate since 1500 using ice, temperature, and atmospheric circulation time series. J. Climate, 20(21), 5316–5334.

Overland, J.E., and M. Wang (2007): Future climate of the North Pacific Ocean. Eos Trans. AGU, 88, 178, 182.

Rodionov, S.N., N.A. Bond, and J.E. Overland (2007): The Aleutian low, storm tracks, and winter climate variability in the Bering Sea. Deep-Sea Res. II, 54(23–26), 2560–2577.

Wang, M., J.E. Overland, V. Kattsov, J.E. Walsh, X. Zhang, and T. Pavlova (2007): Intrinsic versus forced variation in coupled climate model simulations over the Arctic during the Twentieth Century. J. Climate, 20(6), 1093–1107.

Wang, M., N.A. Bond, and J.E. Overland (2007): Comparison of atmospheric forcing in four sub-arctic seas. Deep-Sea Res. II, 54(23–26), 2543-2559.

Grebmeier, J.M., J.E. Overland, S.E. Moore, E.V. Farley, E.C. Carmack, L.W. Cooper, K.E. Frey, J.H. Helle, F.A. McLaughlin, and S.L. McNutt (2006): A major ecosystem shift in the Northern Bering Sea. *Science, 311*(5766), 1461–1464.

Overland, J.E., D.B. Percival, and H.O. Mofjeld (2006): Regime shifts and red noise in the North Pacific. Deep-Sea Res. Pt. I, 54(4), 582–588.

Wood, K.R., and J.E. Overland (2006): Climate lessons from the First International Polar Year. Bull. Am. Meteorol. Soc., 87(12), 1685–1697.

Bond, N.A., and J.E. Overland (2005): The importance of episodic weather events to the ecosystem of the Bering Sea shelf. *Fish. Oceanogr., 14*, 97–111.

Overland, J.E., and M. Wang (2005): The Arctic climate paradox: the recent decrease of the Arctic Oscillation. *Geophys. Res. Lett., 32*(6), L06701, doi: 10.1029/2004GL021752.

Overland, J.E., and P.J. Stabeno (2004): Is the climate of the Bering Sea warming and affecting the ecosystem? *Eos Trans. Am. Geophys. Union, 85*, 309–316.

McNutt, S.L., and J.E. Overland (2003): Spatial hierarchy in Arctic sea ice dynamics. *Tellus A, 55*(2), 181–191.

Overland, J.E., N.A. Bond, and J.M. Adams (2002): The relation of surface forcing of the Bering Sea to large-scale climate patterns. *Deep-Sea Res. II: Topical Studies in Oceanography, 49*(26), 5855–5868.

Overland, J.E., and J.M. Adams (2001): On the temporal character and regionality of the Arctic Oscillation. Geophys. Res. Lett., 28(14), 2811–2814.

Overland, J.E., J.M. Adams, and H.O. Mofjeld (2000): Chaos in the north Pacific: Spatial modes and temporal irregularity. Prog. Oceanogr., 47, 337–354.

Overland, J.E., P. Turet, and A.H. Oort (1996): Regional variations of moist static energy flux into the Arctic. J. Climate, 9(1), 54–65.

Overland, J.E., and P.S. Guest (1991): The Arctic snow and air temperature budget over sea ice during winter. J. Geophys. Res., 96(C3), 4651–4662.

Overland, J.E. (1985): Atmospheric boundary layer structure and drag coefficients over sea ice. J. Geophys. Res., 90(C5), 9029–9049.