5. Bibliography

- Aagaard, K., D. Darby, K. Falkner, G. Flato, J. Grebmeier, C. Measures, and J. Walsh (1999) *Marine Science in the Arctic: A Strategy*. Arctic Research Consortium of the United States.
- Abdalati, W., W. Krabill, E. Frederick, S. Manizade, C. Martin, J. Sonntag, R. Swift, R. Thomas, W. Wright, and J. Yungel (2001) Near-coastal thinning of the Greenland ice sheet. *Journal of Geophysical Research Atmospheres*, vol. 106, no. D24, p. 33,729–33,742.
- Ackerman, T., and G. Stokes (2003) The Atmospheric Radiation Measurement Program. *Physics Today*, vol. 56, p. 38–45.
- Alaska Federation of Natives (1989) *The AFN Report on the Status of Alaska Natives: A Call for Action.* Anchorage, Alaska.
- Arctic Monitoring and Assessment Program (1997) *Arctic Pollution Issues*. Arctic Monitoring and Assessment Program, Oslo, Norway.
- Arctic Research Commission (1997) Logistics Recommendations for an Improved U.S. Arctic Research Capability. Available from the Arctic Research Consortium of the United States (ARCUS), 600 University Avenue, Suite 1, Fairbanks, AK 99710.
- Arctic Research Commission (1999) Goals and Priorities to Guide United States Arctic Research. Arlington, VA.
- Arctic Research Commission (2003) Report on Goals and Objectives for Arctic Research. Arlington, VA.
- Arctic Research Consortium of the United States (1991) *Arctic System Science: Land/Atmosphere/Ice Interactions—A Plan for Action.* Boulder, Colorado.
- Bogstad, B., and H. Gjosaeter (1994) A method for estimating the consumption of capelin by cod in the Barents Sea. *ICES Journal of Marine Science*, vol. 51, p. 273–280.
- Brander, K.M. (1994) Patterns of distribution, spawning and growth in North Atlantic cod: The utility of inter-regional comparisons. *ICES Marine Science Symposium, Cod and Climate Change,* International Council for the Exploration of the Sea, vol. 198, p. 406–413.
- Brodeur, R.D., C.E. Mills, J.E. Overland, G.E. Walters, and J.D. Schumacher (1999) Evidence for a substantial increase in gelatinous zooplankton in the Bering Sea, with possible links

- to climate change. *Fisheries Oceanography*, vol. 8, p. 296–306.
- Carlson, R., J. Zarling, and L. Link (1989) Cold regions engineering research—Strategic plan. *Journal of Cold Regions Engineering*, vol. 3, no. 4.
- Comiso, J.C. (2003) Warming trend in the Arctic from clear sky satellite observations. *Journal of Climate*, vol. 16, p. 3498–3510.
- D'Arrigo, R., G.C. Jacoby, and I.Y. Fung (1987) Boreal forests and atmosphere—biosphere exchange of carbon dioxide. *Nature*, vol. 329, p. 321–323.
- Davis, C.H, C.A. Kluever, and B.J. Haines, C. Perez, and Y.T. Yoon (2000) Improved elevation change measurement of the southern Greenland ice sheet from satellite radar altimetry. *IEEE Transactions Geoscience, Remote Sensing*, vol. 38, no. 3, p. 1367–1378.
- Distributed Active Archive Center (2003) *DAAC Yearbook.* NSIDC User Services, University of Colorado, Boulder, Colorado 80309-0449.
- Dowdeswell, J.A., J.O. Hagen, H. Bjornsson, A.F. Glazovsky, W.D. Harrison, P. Holmlund, et al. (1997) The mass balance of circum-Arctic glaciers and recent climate change. *Quaternary Research*, vol. 48, p. 1–14.
- Dyurgerov, M.B., and M.F. Meier (1997) Year-toyear fluctuation of global mass balance of small glaciers and their contribution to sea level changes. *Arctic and Alpine Research*, vol. 29, p. 392–402.
- Environmental Working Group (EWG) (1997)

 Joint U.S.—Russian Atlas of the Arctic Ocean:
 Oceanography Atlas for the Winter Period.
 National Snow and Ice Data Center, Boulder,
 Colorado. (Also available at http://ns.noaa.
 gov/atlas.)
- Fyfe, J.C., G.J. Boer, and G.M. Flato (1999) The Arctic and Antarctic Oscillations and their projected changes under global warming, *Geophysical Research Letters*, vol. 26, p. 1601–1604.
- Hunt, G.L., Jr., P. Stabeno, G. Walters, E. Sinclair,
 R.D. Brodeur, J.M. Napp, and N.A. Bond (2002)
 Climate change and control of the southeastern
 Bering Sea pelagic ecosystem. *Deep Sea Research*, *Part II*, vol. 49, p. 5821–5853.
- Krabill, W., W. Abdalati, E. Frederick, S. Manizade, C. Martin, J. Sonntag, R. Swift, R. Thomas, W.

- Wright, and J. Yungel (2000) Greenland ice sheet: High-elevation balance and peripheral thinning. *Science*, vol. 289, p. 428–429.
- Manabe, S., and R.J. Stouffer (1993) Century scale effects of increased atmospheric CO₂ on the ocean–atmosphere system. *Nature*, vol. 364, p. 215–218.
- Maslowski, W., B. Newton, P. Schlosser, A. Semtner, and D. Martinson (2000) Modeling recent climate variability in the Arctic Ocean. *Geophysical Research Letters*, vol. 27, p. 3743–3746.
- Morison, J.H., K. Aagaard, and M. Steele (2000) Recent environmental changes in the Arctic: A review. *Arctic*, vol. 53, p. 4.
- Moritz, R.E., C.M. Bitz, and E.J. Steig (2002) Dynamics of recent climate change in the Arctic. *Science*, vol. 297, p. 1497–1502.
- Mynemi, R.B., C.D. Keeling, C.J. Tucker, G. Asrar, and R.R. Nemani (1997) Increased plant growth in the northern high latitudes from 1981 to 1991. *Nature*, vol. 386, p. 698–702.
- National Research Council (1989) *Arctic Social Science: An Agenda for Action*. National Academy Press, Washington, D.C.
- Nicholls, N., G.V. Gruza, J. Jouzel, T.R. Karl, L.A. Ogallo, and D.E. Parker (1996) Observed climate variability and change. In *Climate Change* 1995, *The Science of Climate Change* (J.T. Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg, and K. Maskell, ed.). University Press, Cambridge, p. 137–192.
- NOAA, NASA, and USGS (1998) Science at the extremes: Improved capabilities for exploring Earth and space. Report for the Arctic and Antarctic Access (AAA) Undersea Workshop, 15–17 April 1998.
- Oechel, W.C., and G.L. Vourlitis (1996) Climate change in northern latitudes: Alterations in ecosystem structure and function and effects on carbon sequestration. In *Global Change and Arctic Terrestrial Ecosystems* (W.C. Oechel, T. Callaghan, T. Glimanov, J.I. Holten, B. Maxwell, U. Molau, and B. Sveinbjornsson, ed.). Springer, New York, p. 381–401.
- Office of Naval Research (1996) Arctic Nuclear Waste Assessment Program Summary, FY 1995. ONR 322-96-16.
- Office of Naval Research (1997) Radionuclides in the Arctic Seas from the Former Soviet Union: Potential Health and Ecological Risks. ONR, Arlington, Virginia.
- Osterkamp, T.E., and V.E. Romanovsky (1996) Characteristics of changing permafrost temper-

- atures in the Alaskan Arctic. *Arctic and Alpine Research*, vol. 28, p. 267–273.
- Osterkamp, T.E., and V.E. Romanovsky (1999) Evidence for warming and thawing of discontinuous permafrost in Alaska. *Permafrost and Periglacial Processes*, vol. 10, p. 17–37.
- Overland, J.E., M. Wang, and N.A. Bond (2002) Recent temperature changes in the western Arctic during spring. *Journal of Climate*, vol. 15, no. 13, p. 1702–1716.
- Overland, J.E., M.C. Spillane, and N.N. Soreide (2004) Integrated analysis of physical and biological pan-Arctic change. *Climate Change*, vol. 63, no. 3, p. 291–322.
- Parkinson, C., D.J.Cavalieri, P. Gloersen, H.J. Zwally, and J.C. Comiso (1999) Arctic sea ice extents, areas, and trends, 1978–1996. *Journal of Geophysical Research*, vol. 104, p. 20,837–20,856.
- Pavlov, A.V. (1994) Current changes of climate and permafrost in the Arctic and sub-arctic of Russia. *Permafrost and Periglacial Processes*, vol. 5, p. 101–110.
- Pavlov, V. (2001) Seasonal and long-term sea level variability in the marginal seas of the Arctic Ocean. *Polar Research*, vol. 20, no. 2, p. 153–160.
- Peterson, B.J., R.M. Holmes, J.W. McClelland, C.J. Vörösmarty, R.B. Lammers, A.I. Shiklomanov, I.A. Shiklomanov, and S. Rahmstorf (2003) Increasing river discharge to the Arctic Ocean. *Science*, no. 298, p. 2171–2173.
- Pfirman, S., K. Crane, and K. Kane (1996) *The Arctic at Risk, A Circumpolar Atlas of Environmental Concerns*. Environmental Defense Fund, New York.
- Proshutinsky, A., V. Pavlov, and R. H. Bourke (2001) Sea level rise in the Arctic Ocean. *Geophysical Research Letters*, vol. 28, no. 11, p. 2237–2240.
- Rahmstorf, S., and A. Ganoploski (1999) Long-term global warming scenarios computed with an efficient couples climate model. *Climate Change*, vol. 43, p. 353–367.
- Robinson, D.A., A. Frei, and M.C. Serreze (1995) Recent variations and regional relationships in Northern Hemisphere snow cover. *Annals of Glaciology*, vol. 21, p. 71–76.
- Robinson, D.A., K.F. Dewey, and R.R. Heim (1993) Global snow cover monitoring: An update. *Bulletin of the American Meteorological Society*, vol. 74, p. 1689–1696.
- Rothrock, D.A., Y. Yu, and G.A. Maykut (1999) Thinning of the Arctic sea ice cover. *Geophysical Research Letters*, vol. 26, p. 3469–3472.

- Schlosser, P., J. Swift, D. Lewis, and S.L. Pfirman (1995) The role of the large-scale Arctic Ocean circulation in the transport of contaminants. *Deep-Sea Research II*, vol. 42, p. 1337–1367.
- SEARCH Steering Committee (2001) Science Plan for the Study of Environmental Arctic Change (SEARCH). SEARCH Project Office, Polar Science Center, Applied Physics Laboratory, University of Washington, Seattle, Washington (http://psc.apl.washington.edu/search/Library/SEARCH_Science_Plan.pdf).
- Serreze, M.C., J.E. Walsh, F.S. Chapin III, T. Oster-kamp, M. Dyurgerov, and V. Romanovsky (2000) Observational evidence of recent change in the northern high latitude environment. *Climate Change*, vol. 46, p.159–207.
- Shindell, D.T., G.A. Schmidt, R.L. Miller, and L. Pandolfo (1999) Modeled response of the Arctic Oscillation to greenhouse gas, volcanic, and solar forcings. Abstract, *Eos, Transactions of the American Geophysical Union*, vol. 80, p. F232.
- Steele, M., and T. Boyd (1998) Retreat of the cold halocline layer in the Arctic Ocean. *Geophysical Research Letters*, vol. 103, p. 10,419–10,435.
- Stocks, B.J. (1991) The extent and impact of forest fires in northern circumpolar countries. In Global Biomass Burning, Atmospheric, Climatic and Biospheric Implications (J.L. Levine, ed.). Massachusetts Institute of Technology Press, Camridge, p. 197–202.
- Thomas, C.P. et al. (1991) Alaska oil and gas: Energy wealth or vanishing opportunity? Report DOE/ID/01570-H1, Department of Energy, Washington, D.C.
- Thomas, R.H. and PARCA investigators (2001) Program for Arctic Regional Climate Assessment (PARCA): Overview and key findings. *Journal of Geophysical Research Atmospheres*, vol. 106, no. D24, p. 33,691–33,706.
- Treacy, S.D. (1998) Aerial surveys of endangered whales in the Beaufort Sea, fall 1997. Minerals

- Management Service, Alaska Outer Continental Shelf Office, Anchorage, Alaska.
- Tucker, W.B. III, J.W. Weatherly, D.T. Eppler, L.D. Farmer, and D.L. Bentley (2001) Evidence for rapid thinning of sea ice in the western Arctic Ocean at the end of the 1980s. *Geophysical Research Letters*, vol. 28, no. 14, p. 2851–2854.
- Tynan, C.T., and D.P. DeMaster (1997) Observations of Arctic climate change: Potential effects on marine mammals. *Arctic*, vol. 50, p. 308–322.
- U.S. Arctic Research Commission (2003) Report on goals and objectives for Arctic research. U.S. Arctic Research Commission, Arlington, VA.
- Wadhams, P., and N.R. Davis (2000) Further evidence of ice thinning in the Arctic Ocean. *Geophysical Research Letters*, vol. 27, no. 24, p. 3973–3975.
- Walsh, J.E., W.L. Chapman, and T.L. Shy (1996) Recent decrease of sea level pressure in the central Arctic. *Journal of Climate*, vol. 9, p. 480–486.
- Wang, B., and M. Allard (1995) Recent climatic trend and thermal response of permafrost at Salluit, northern Quebec, Canada. *Permafrost and Periglacial Processes*, vol. 6, p. 221–234.
- Wood, R.A., A.B. Keen, J.F.B. Mitchell, and J.M. Gregory (1999) Changing spatial structure of the thermohaline circulation in response to atmospheric CO₂ forcing in a climate model. *Nature*, vol. 399, p. 572–575.
- Yang, D.Q., D.L. Kane, L.D. Hinzman, et al. (2002) Siberian Lena River hydrologic regime and recent change. *Journal of Geophysical Research - Atmosphere*, vol. 107, no. D23.
- Zhang, J., D. Rothrock, and M. Steele (1998) Warming of the Arctic Ocean by a strengthened Atlantic inflow: Model results. *Geophysical Research Letters*, vol. 25, p. 1745–1748.
- Zhang, J., D. Rothrock, and M. Steele (2000) Recent changes in Arctic Sea ice: The interplay between ice dynamics and thermodynamics. *Journal of Climate*, vol. 13, p. 3099–3114.