

Biographical Sketch for Knut Aagaard

(a) Professional preparation:

Oberlin College, Physics, A.B., 1961
University of Washington, Oceanography, M.S., 1964
University of Washington, Oceanography, Ph.D., 1966
University of Bergen, Oceanography, Postdoctoral, 1967

(b) Appointments:

Principal Oceanographer, 1992- , Applied Physics Laboratory, University of Washington
Professor, 1992- , School of Oceanography, University of Washington
Senior Fellow, 1988- , Joint Institute for Study of the Atmosphere and Ocean
Affiliate Professor, 1988-92, School of Oceanography, University of Washington
Affiliate Principal Oceanographer, 1986-92, Applied Physics Laboratory, University of Washington
Oceanographer, 1986-92, Pacific Marine Environmental Laboratory, NOAA
Acting Associate Director for Research, 1981-82, School of Oceanography, University of Washington
Research Professor, -Associate Professor, and -Assistant Professor, 1968-88, University of Washington
Research Associate, 1967, University of Bergen
Research Associate, Research Assistant, Teaching Assistant, Assistant Oceanographer, 1961-66,
University of Washington

(c) Publications

Most closely related publications:

Coachman, L.K., K. Aagaard, and R.B. Tripp, *Bering Strait: The Regional Physical Oceanography*, 172 pp., University of Washington Press, Seattle, 1975.
Danielson, S., K. Aagaard, T. Weingartner, S. Martin, P. Winsor, G. Gawarkiewicz, and D. Quadfasel, The St. Lawrence polynya and the Bering shelf circulation: New observations that test the models, *J. Geophys. Res.*, in revision (likely publication spring 2006).
Schumacher, J.D., K. Aagaard, C.H. Pease, and R.B. Tripp, Effects of a shelf polynya on flow and water properties in the northern Bering Sea, *J. Geophys. Res.*, 88, 2723-2732, 1983.
Weingartner, T., K. Aagaard, R. Woodgate, S. Danielson, Y. Sasaki, and D. Cavalieri, Circulation on the north central Chukchi Sea shelf, *Deep-Sea Res.*, accepted for publication (likely publication December 2005).
Woodgate, R.A., K. Aagaard, and T. Weingartner, A year in the physical oceanography of the Chukchi Sea: Moored measurements from autumn 1990-1991, *Deep-Sea Res.*, accepted for publication (likely publication December 2005).

Selected other publications:

Aagaard, K., and E.C. Carmack, The role of sea ice and other fresh water in the arctic circulation, *J. Geophys. Res.*, 94, 14485-14498, 1989.
Aagaard, K., and R.A. Woodgate, Some thoughts on the freezing and melting of sea ice and their effects on the ocean, *Ocean Modelling*, 3, 127-135, 2001.
Aagaard, K., L.K. Coachman, and E.C. Carmack, On the halocline of the Arctic Ocean, *Deep-Sea Res.*, 28, 529-545, 1981.

Aagaard, K., J.H. Swift, and E.C. Carmack, Thermohaline circulation in the arctic mediterranean seas, *J. Geophys. Res.*, 90, 4833-4846, 1985.

Swift, J.H., K. Aagaard, L. Timokhov, and E.G. Nikiforov, Long-term variability of Arctic Ocean waters: Evidence from a reanalysis of the EWG data set, *J. Geophys. Res.*, 110, No. C3, C03012, doi:10.1029/2004JC02312, 2005.

(d) Synergistic activities

Oceanographic course and curriculum development, University of Washington, 1968-2002
Chair, World Climate Research Programme/Scientific Steering Group for the Arctic Climate System Study (ACSYS), 1992-97

Expedition leader, U.S./Canada Arctic Ocean Section, 1994

Organizer and chair, Conference on Polar Processes and Global Climate, 1997

Chair and lead author of NSF strategic plan *Marine Science in the Arctic: A Strategy*, published 1999

e. (i) Collaborators during past four years:

R. Anderson (U. Washington), A.P. Barrett (U. Colorado), G. Björk (U. Göteborg), E.C. Carmack (IOS Sidney), D.J. Cavalieri (NASA Goddard), R. Curry (WHOI), S. Danielson (U. Alaska), K.K. Falkner (Oregon State U.), G. Gawarkiewicz (WHOI), J. Grebmeier (U. Tennessee), J. Gunn (ESR Seattle), K. Hatakeyama (JAMSTEC Yokohama), M. Holmes (WHRC Woods Hole), R.G. Ingram (McGill U. Montreal), J. Johnson (U. Washington), R. Lammers (U. New Hampshire), C. Lee (U. Washington), S. Martin (U. Washington), R.W. Macdonald (IOS Sidney), J. McClelland (MBL Woods Hole), J. Meincke (U. Hamburg), H. Melling (IOS Sidney), M. Meredith (BAS Cambridge), J. Morison (U. Washington), R. Moritz (U. Washington), R.D. Muench (ESR Seattle), Ye.G. Nikiforov (AARI St. Petersburg), J.E. Overland (PMEL Seattle), D. Perovich (CRREL Hanover), B. Peterson (MBL Woods Hole), R. Pickart (WHOI), D. Quadfasel (U. Copenhagen), E.A. Ralph (U. Minnesota Duluth), A.T. Roach (unaffiliated), B. Rudels (FIMR Helsinki), Y. Sasaki (JAMSTEC Yokohama), U. Schauer (AWI Bremerhaven), M. Serreze (U. Colorado), K. Shimada (JAMSTEC Yokohama), A.G. Slater (U. Colorado), J.N. Smith (BIO Halifax), W.B. Smethie (LDEO), M. Steele (U. Washington), J.H. Swift (UCSD), T. Takizawa (JAMSTEC Yokohama), L. Timokhov (AARI St. Petersburg), J. Walsh (U. Alaska), T. Weingartner (U. Alaska), T.E. Whitledge (U. Texas), W.J. Williams (IOS Sidney), P. Winsor (WHOI), R.A. Woodgate (U. Washington)

e. (ii) Graduate and postdoctoral advisors:

C.A. Barnes, L.K. Coachman, H. Mosby (all deceased)

e. (iii) Thesis advisor and postgraduate-scholar sponsor:

Past five years: None

Total advised or sponsored: Eight