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Education

Leningrad Hydrometeorological Institute Oceanography M.S., 1973
Leningrad, Russia

Arctic and Antarctic Research Institute Oceanography Ph.D., 1980
Leningrad, Russia

Leningrad Hydrometeorological Institute Oceanography Doctors Degree, 1991
Leningrad, Russia

Appointments

Senior Scientist, 2004–present; Edna McConnell Clark Chair for Excellence in Oceanography, 2016–present;
Associate Scientist, 2000–2004, Woods Hole Oceanographic Institution, USA

ONR Chair in Arctic Marine Science, Naval Postgraduate School, Monterey, California, USA, 1999–2000.

Wadati Professor in Global Change Studies, 1997–2000; Visiting Associate Professor, 1992–1996, University of Alaska Fairbanks, USA

Chief Scientist, 1990–1991; Senior Scientist, 1980–1990; Scientist, 1975–1980, Arctic and Antarctic Research Institute, Russia

Refereed Publications

Pavlov, V. K., and A. Yu. Proshutinsky, 1977. Comparison and analysis of two hydrodynamic models for simulation of currents in the shallow regions. *Express Informacia VNIIGMI MCD, ser. Okeanologija*, 3(43), 7–15 (in Russian).

Pavlov, V. K., A. Yu. Proshutinsky, and A. V. Chireykin, 1978. Calculation of the Chukchi Sea currents using hydrological and hydrochemical characteristics. In: *World Ocean Research*, Leningrad, Politec. Univ., No. 66, 87–91 (in Russian).

Proshutinsky, A. Yu., 1978. On the computation of storm surges in the shelf zone of the Arctic Seas. *Soviet Meteorology and Hydrology*, No. 8, 54–60, Allerton Press Inc.

Pavlov, V. K., and A. Yu. Proshutinsky, 1979. Simulation of non-stationary currents in the Nevskaia Guba. *Transactions of the Arctic and Antarctic Research Institute*, 361, 100–109 (in Russian).

Proshutinsky, A. Yu., 1979. Some results of storm surge simulations in the Laptev Sea. *Transactions of the Arctic and Antarctic Research Institute*, 361, 87–92 (in Russian).

Mustafin, N. V., and A. Yu. Proshutinsky, 1982. Current state and prospects of numerical investigations of variations in the level of the Arctic Seas. In: *Soviet Meteorology and Hydrology*, No. 3, 56–62, Allerton Press Inc.

Doronin, N. Yu., Do-Ngok-Kun, and A. Yu. Proshutinsky, 1982. Numerical modeling of storm surges in the Southern-Chinese Sea. *Transactions of the Leningrad Hydrometeorological Institute*, VINITI, 3691–82 dep, 13 pp.

Pavlov, V. K., and A. Yu. Proshutinsky, 1983. On the interpolation of atmospheric pressure in the grid of a sea. *Transactions of the Arctic and Antarctic Research Institute*, 380, 112–116 (in Russian).

Proshutinsky, A. Yu., and N. E. Dmitriev, 1983. Opportunity for practical usage of the results of numerical modeling of storm surges. *Transactions of the Arctic and Antarctic Research Institute*, 380, 46–49 (in Russian).

Proshutinsky, A. Yu., 1985. Complex method of forecasting of storm surges at the Yenisey river mouth in winter period 2–3 days in advance. *Transactions of the Arctic and Antarctic Research Institute*, 389, 78–85 (in Russian).

Pavlov, V. K., and A. Yu. Proshutinsky, 1985. Modeling of the water dynamics in the Koluchin Bay. *Transactions of the Arctic and Antarctic Research Institute*, 399, 94–99 (in Russian).

Uranov, E. N., and A. Yu. Proshutinsky, 1985. Opportunity to forecast storm surges in the uninvestigated regions of the sea. *Transactions of the Arctic and Antarctic Research Institute*, 399, 118–126 (in Russian).

Mandel, S. Z., N. E. Dmitriev, and A. Yu. Proshutinsky, 1985. Modeling of tidal motions in the Kara Sea. *Transactions of the Arctic and Antarctic Research Institute*, 399, 127–132 (in Russian).

Proshutinsky, A. Yu., and I. V. Chugui, 1986. Peculiarities of the ice conditions in the Antarctic water bodies at the 27th Soviet Antarctic Expedition observed from r/v Mikhail Somov. *Informational Bulletin of the Soviet Antarctic Expedition*, 108, 75–78.

Bannov-Baikov, Yu. L., E. N. Dvorkin, Yu. V. Zakharov, N. V. Mustafin, A. Yu. Proshutinsky, and I. V. Chugui, 1986. The relief of the Arctic Ocean free surface. *Problemy Arktiki i Antarktiki*, 62, 12–18.

Mandel, S. Z., V. K. Pavlov, and A. Yu. Proshutinsky, 1986. Influence of the water circulation around Spitsbergen on the flux of Atlantic water in the Arctic Ocean. *Transactions of the Arctic and Antarctic Research Institute*, 408, 32–38 (in Russian).

Kuznezov, V. L., A. Yu. Proshutinsky, and A. B. Tarasov, 1986. Location and structure of the frontal zones in the Norwegian Sea. *Transactions of the Arctic and Antarctic Research Institute*, 408, 56–67 (in Russian).

Kuznezov, V. L., A. Yu. Proshutinsky, and A. B. Tarasov, 1986. Geostrophic circulation in the Norwegian Sea in November–December 1983. *Transactions of the Arctic and Antarctic Research Institute*, 408, 39–41 (in Russian).

Proshutinsky, A. Yu., 1986. On the problem of calculating the storm surge fluctuations of sea level and water circulation in the Chukchi Sea. *Soviet Meteorologiya i Gidrologiya*, No. 1, 54–61, Allerton Press Inc.

Proshutinsky, A. Yu., 1988. Modeling seasonal fluctuations of the level of the Arctic Ocean. *Soviet Meteorology and Hydrology*, No. 2, 39–46, Allerton Press Inc.

Polyakov, I. V., and A. Yu. Proshutinsky, 1988. Periods of the eigenoscillations of sea level in the Arctic Ocean. *Soviet Meteorology and Hydrology*, No. 11, Allerton Press Inc.

Proshutinsky, A. Yu., and I. E. Frolov, 1988. Results of numerical simulation of thermodynamic regime of the Chukchi Sea in the autumn period. *Transactions of the Arctic and Antarctic Research Institute*, 413, 35–51 (in Russian).

- Gudkovich, Z. M., and A. Yu. Proshutinsky, 1988. Modeling of sea level variations taking into account ice cover. *Transactions of the Arctic and Antarctic Research Institute*, 413, 85–95 (in Russian).
- Proshutinsky, A. Yu., 1988. Generation of eddy structures in the Faroe–Shetland strait by tidal currents. *Oceanology*, 28(5), 567–571, Allerton Press Inc.
- Doronin, N. Yu., V. K. Pavlov, and A. Yu. Proshutinsky, 1989. Investigation of the polar front. *Transactions of the Arctic and Antarctic Research Institute*, 414, 20–26 (in Russian).
- Ashik, I. M., A. Yu. Proshutinsky, and V. A. Stepanov, 1989. Some results and prospects of numerical forecasts of storm surges in arctic seas. *Soviet Meteorology and Hydrology*, No. 8, 60–67, Allerton Press Inc.
- Dmitriev, N. E., and A. Yu. Proshutinsky, 1989. Investigations of the Kara Sea level variations. *Transactions of the Arctic and Antarctic Research Institute*, 419, 34–40 (in Russian).
- Proshutinsky, A. Yu., 1990. Effects of the ice cover in the models of sea level variations and water circulation. *Transactions of the Arctic and Antarctic Research Institute*, 420, 90–104 (in Russian).
- Dmitriev, N. E., A. Yu. Proshutinsky, T. B. Loyning, and T. Vinje, 1991. Tidal ice dynamics in the area of Svalbard and Franz Josef Land. *Polar Research*, 9(2), 193–205.
- Proshutinsky, A. Yu., N. E. Dmitriev, and S. Z. Mandel, 1991. Propagation of the M2 tidal wave in the Arctic Ocean. *Transactions of the Arctic and Antarctic Research Institute*, 424, 6–13 (in Russian).
- Dmitriev, N. E., and A. Yu. Proshutinsky, 1991. Simulation of tidal motions in the Kara Sea. *Transactions of the Arctic and Antarctic Research Institute*, 424, 14–22 (in Russian).
- Doronin, N. Yu., V. L. Kuznetsov, and A. Yu. Proshutinsky, 1991. Circulation of the Kara Sea. *Transactions of the Arctic and Antarctic Research Institute*, 424, 34–41 (in Russian).
- Proshutinsky, A. Yu., and S. G. Usatenko, 1991. Thermohaline circulation of the Norwegian energy-active zone in spring of 1987. *Transactions of the Arctic and Antarctic Research Institute*, 424, 42–49 (in Russian).
- Mandel, S. Z., V. K. Pavlov, and A. Yu. Proshutinsky, 1992. The heat and water-mass exchange and water circulation around Spitsbergen Archipelago. *Landscape, Life World and Man in High Arctic*, Institute of Ecology, Polish Academy of Science, Warszawa, pp. 61–67.
- Kowalik, Z., and A. Yu. Proshutinsky, 1993. Diurnal tides in the Arctic Ocean. *Journal of Geophysical Research*, 98(C9), 16,449–16,468.
- Doronin, N. Yu., G. A. Zablotsky, and A. Yu. Proshutinsky, 1993. To a theory of natural investigations in the ocean. *Transactions of the Arctic and Antarctic Research Institute*, 429, 7–20 (in Russian).
- Proshutinsky, A. Yu., 1993. Semidiurnal tides in the Arctic Ocean by the results of numerical experiments. *Transactions of the Arctic and Antarctic Research Institute*, 429, 29–45 (in Russian).
- Kowalik, Z., and A. Yu. Proshutinsky, 1994. The Arctic Ocean tides. In: *The Polar Oceans and Their Role in Shaping the Global Environment, Geophysical Monograph*, American Geophysical Union, 85, pp. 137–158.
- Kowalik, Z., and A. Yu. Proshutinsky, 1995. Topographic enhancement of tidal motion in the western Barents Sea. *Journal of Geophysical Research*, 100 (C2), 2613–2637.
- Proshutinsky, A. Yu., and M. Johnson, 1997. Two circulation regimes of the wind-driven Arctic Ocean. *Journal of Geophysical Research*, 102, 12,493–12,514.

- Ray, R. D., B. F. Chao, Z. Kowalik, and A. Yu. Proshutinsky, 1997. Angular momentum integrals for Arctic Ocean tides. *Journal of Geodesy*, 71, 344–350.
- Varlamov, S. M., V. A. Luchin, I. P. Semiletov, I. I. Pipko, S. P. Pugach, N. A. Dashko, A. Y. Proshutinsky, and G. Weller, 1998. Interannual variability of winter climatic conditions in the Bering Sea region. In: *Climatic and Interannual Variability in the Atmosphere–Land–Sea System in the American–Asian Sector of Arctic*, Pacific Oceanographic Institution, Russian Academy of Science, Vladivostok, pp. 65–85 (in Russian).
- Johnson, M. A., A. Y. Proshutinsky, and I. V. Polyakov, 1999. Atmospheric pattern forcing two regimes of Arctic circulation: A return to anticyclonic conditions? *Geophysical Research Letters*, 26(11), 1621–1624.
- Polyakov, I., A. Proshutinsky, and M. Johnson, 1999. The seasonal cycles in two regimes of Arctic climate. *Journal of Geophysical Research*, 104(C11), 25,761–25,788.
- Proshutinsky, A., I. V. Polyakov, and M. Johnson, 2000. Climate states and variability of Arctic ice and water dynamics during 1946–1997. *Polar Research*, 18(2), 135–142.
- Proshutinsky, A., V. Pavlov, and R. Bourke, 2001. Sea level rise in the Arctic Ocean. *Geophysical Research Letters*, 28(11), 2237–2240.
- Proshutinsky A., and M. Johnson, 2001. Two regimes of the Arctic's circulation from ocean models with ice and contaminants. *Marine Pollution Bulletin*, 43(1-6), 61–70.
- Proshutinsky, A., M. Johnson, and T. Proshutinsky, 2001. Understanding climatic controls on contaminant transport with sea ice in the Arctic Ocean. *Annals of Glaciology*, 33, 551–554.
- Proshutinsky, A., R. H. Bourke, and F. A. McLaughlin, 2002. The role of the Beaufort Gyre in Arctic climate variability: Seasonal to decadal climate scales. *Geophysical Research Letters*, 29, 2100, doi:10.1029/2002GL015847.
- Proshutinsky, A., 2003. Circulation of water and ice. In: *Arctic Environment Variability in the Context of Global Change*. L. P. Bobylev, K. Ya. Kondratyev and O.M. Johannessen (eds). Springer, Praxis Publishing, Chichester, UK, p. 172-180.
- Proshutinsky, A., 2003. Modeling of ocean and sea ice circulation. In: *Arctic Environment Variability in the Context of Global Chang*. L. P. Bobylev, K. Ya. Kondratyev and O.M. Johannessen, Springer, (eds). Praxis Publishing, Chichester, UK, p. 181-202.
- Steiner, N., G. Holloway, S. Häkkinen, D. Holland, M. Karcher, W. Maslowski, A. Proshutinsky, M. Steele, and J. Zhang, 2004. Comparing modeled streamfunction, heat and freshwater content in the Arctic Ocean, *Elsevier Science, Ocean Modelling*, 6 (3-4), 265–284.
- Dukhovskoy, D., M. Johnson, A. Proshutinsky, 2004. Arctic decadal variability: An auto-oscillatory system of heat and fresh water exchange, *Geophysical Research Letters*, 31, L03302, doi:10.1029/2003GL019023.
- Proshutinsky, A., I. Ashik, E. Dvorkin, S. Häkkinen, R. Krishfield, and R. Peltier, 2004. Secular sea level change in the Russian sector of the Arctic Ocean. *Journal of Geophysical Research*, 109, C03042, doi:10.1029/2003JC002007.
- Häkkinen, S. and A. Proshutinsky, 2004. Freshwater content variability in the Arctic Ocean. *Journal of Geophysical Research*, 109, C03051, doi:10.1029/2003JC0011940.
- Shimada, K., F. McLaughlin, E. Carmack, A. Proshutinsky, S. Nishino, and M. Itoh, 2004. , Penetration of the 1990s warm temperature anomaly of Atlantic Water in the Canada Basin. *Geophysical Research Letters*, 31, L20301, doi:10.1029/2004GL020860.
- Shimada, K., M. Itoh, S. Nishino, F. McLaughlin, E. Carmack, and A. Proshutinsky, 2005. Halocline structure in the Canada Basin of the Arctic Ocean. *Geophysical Research Letters*, 32, L03605, doi:10.1029/2004GL021358.

- Uotila, P., D.M. Holland, M.A.M. Maqueda, S. Hakkinen, G. Holloway, M. Karcher, F. Kauker, M. Steele, N. Yakovlev, J. Zhang, and A. Proshutinsky, 2006: An energy-diagnostics intercomparison of coupled ice-ocean arctic models. *Ocean Modelling*, DOI: 10.1016/j.ocemod.2004.11.003.
- Dukhovskoy, D., M. Johnson, and A. Proshutinsky, 2006. Arctic decadal variability from an idealized atmosphere-ice-ocean model: 1. Model description, calibration, and validation. *Journal of Geophysical Research*, 111, C06028, doi:10.1029/2004JC002821.
- Dukhovskoy, D., M. Johnson, and A. Proshutinsky, 2006. Arctic decadal variability from an idealized atmosphere-ice-ocean model: 2. Simulation of decadal oscillations. *Journal of Geophysical Research*, 111, C06029, doi:10.1029/2004JC002820.
- Richter-Menge, J., J. Overland, A. Proshutinsky, V. Romanovsky, J.C. Gascard, M. Karcher, J. Maslanik, D. Perovich, A. Shiklomanov, and D. Walker, 2006. Arctic, In: *State of the Climate in 2005*, Ed. K.A. Shen, Special supplement to the *Bulletin of the American Meteorological Society*, 87, No. 6, June 2006, pages: S46-S52, 102 p.
- Shimada, K., T. Kamoshida, M. Itoh, S. Nishino, E. Carmack, F. McLaughlin, S. Zimmermann, and A. Proshutinsky, 2006. Pacific Ocean inflow: Influence on catastrophic reduction of sea ice cover in the Arctic Ocean. *Geophysical Research Letters*, 33, L08605, doi:10.1029/2005GL025624.
- Mehta, V., Y. Kushnir, J. Lean, D. Legler, R. Lukas, A. Proshutinsky, N. Rosenberg, H. von Storch, P. Schopf, and W. White, 2006. The CRCES workshop on decadal climate variability. *Bulletin of the American Meteorological Society*, doi:10.1175/BAMS-87-9-1223.
- Toole, J., R. Krishfield, A. Proshutinsky, C. Ashjian, K. Doherty, D. Frye, T. Hammar, J., Kemp, d. Peters, M.-L. Timmermans, K. von der Heydt, G. Packard, T. Shanahan, 2006. Ice-tethered profilers sample the upper Arctic Ocean, *Eos Transactions, American Geophysical Union*, 87 (41), 434-438.
- Joyce, T. and A. Proshutinsky, 2007. Greenland's island rule and the Arctic Ocean circulation. *Journal of Marine Research*, 65, 639-438.
- Hibler, W., Roberts, A., Heil, P., Proshutinsky, A., Simmons, H., & Lovick, J. (2006). Modeling M2 tidal variability in Arctic Sea-ice drift and deformation. *Annals of Glaciology*, 44, 418-428. doi:10.3189/172756406781811178
- Holloway, G., and A. Proshutinsky, 2007. Role of tides in Arctic ocean/ice climate. *Journal of Geophysical Research*, 112, C04S06, doi:10.1029/2006JC003643.
- Panteleev, G., A. Proshutinsky, M. Kulakov, D. A. Nechaev, and M. Maslowski, 2007. Investigation of the Kara Sea circulation employing a variational data assimilation technique. *Journal of Geophysical Research*, 112, C04S15, doi:10.10292006JC003728.
- Proshutinsky, A., I. Ashik, S. Hakkinen, E. Hunke, R. Krishfield, M. Maltrud, W. Maslowski, and J. Zhang, 2007. Sea level variability in the Arctic Ocean from AOMIP models. *Journal of Geophysical Research*, 112, C04S08, doi:10.10292006JC003916.
- Proshutinsky, A., and Z. Kowalik, 2007. Preface to special section on Arctic Ocean Model Intercomparison Project (AOMIP) studies and results. *Journal of Geophysical Research*, 112, C04S01, doi:10.10292006JC004017.
- Richter-Menge, J., J. Overland, A. Proshutinsky, V. Romanovsky, J. C. Gascard, M. Karcher, J. Maslanik, D. Perovich, A. Shiklomanov, and D. Walker, 2007. Arctic. In: *State of the Climate in 2006*. A. Arguez, editor, *Bulletin of the American Meteorological Society*, 88, S1-S135.
- Makshtas, A., D. Atkinson, M. Kulakov, S. Shutilin, R. Krishfield, and A. Proshutinsky, 2007. Atmospheric forcing validation for modeling the central Arctic. *Geophysical Research Letters*, 34, L20706, doi:10.1029/2007GL031378
- Joyce, T., and A. Proshutinsky. 2007. Greenland's island rule and the Arctic Ocean circulation. *Journal of Marine Research*, 65, 639-653.

Timmermans, M. L., J. Toole, A. Proshutinsky, R. Krishfield, and A. Plueddemann, 2008. Eddies in the Canada Basin, Arctic Ocean, observed from ice tethered profilers. *Journal of Physical Oceanography*, 38 (1), 133-145.

Carmack, E., F. McLaughlin, M. Yamamoto-Kawai, M. Itoh, K. Shimada, R. Krishfield, and A. Proshutinsky, 2008. Freshwater Storage in the Northern Ocean and the special role of the Beaufort Gyre. Chapter 6 in *Arctic-subarctic Ocean Fluxes: Defining the Role of the Northern Seas in Climate*, B. Dickson, J. Meincke, and P. Rhines, eds. Springer, 738 pp.

Krishfield, R., J. Toole, A. Proshutinsky, and M.-L. Timmermans, 2008. Automated ice-tethered profilers for seawater observations under pack ice in all seasons. *Journal of Atmospheric and Oceanic Technology*, 25 (11), 2091-2105.

Hakkinen , S., A. Proshutinsky, and I. Ashik, 2008. Sea ice drift in the Arctic since the 1950s, *Geophysical Research Letters.*, 35, L19704, doi:10.1029/2008GL034791.

Proshutinsky, A., R. Krishfield, M.-L. Timmermans, J. Toole, E. Carmack, F. McLaughlin, W. J. Williams, S. Zimmermann, M. Itoh, and K. Shimada, 2009. The Beaufort Gyre Fresh Water Reservoir: State and variability from observations. *Journal of Geophysical Research*, 114, doi:10.1029/2008JC0055104.

Frolov, I. E., I. M. Ashik, H. Kassens, I. V. Polyakov, A. Yu. Proshutinsky, V.T. Sokolov, L.A. Timokhov, 2009. Anomalous Variations in the Termhohaline Structure of the Arctic Ocean, doklady Earth Science, 2009. Vol. 429A, No. 9, pp. 1567-1569. © Pleiades Publishing, Ltd., 2009, Original Russian Text, ©, published in Doklady Akademii Nauk, 2009, ISSN 1028_34X.

Proshutinsky A., R. Krishfield, D. Barber, 2009. Preface to special section on Beaufort Gyre Climate System Exploration Studies: Documenting key parameters to understand environmental variability, *Journal of Geophysical Research*, 114, C00A08, doi:10.1029/2008JC005162.

Proshutinsky A., R. Krishfield, M. Steele, I. Polyakov, I. Ashik, M. McPhee, J. Morison, M.-L. Timmermans, J. Toole, V. Sokolov, I. Frolov, E. Carmack, F. McLaughlin, K. Shimada, R. Woodgate, and T. Weingartner, 2009: Ocean [in "State of the Climate in 2008"]. *Bulletin of the American Meteorological Society*, 90, S99-S102.

McPhee, M.G., A. Proshutinsky, J.H. Morison, M. Steele, M.B. Alkire, 2009. Rapid change in freshwater content of the Arctic Ocean, *Geophysical Research Letters*, 36, L10602, doi:10.1029/2009GL037525.

Smirnov, A., A. Proshutinsky et al., 2009. Maritime Aerosol Network as a component of Aerosol Robotic Network. *Journal of Geophysical Research*, 114, D06204, doi:10.1029/2008JD011257.

Chen, C., G. Gao, J.Qi, A. Proshutinsky, R. C. Beardsley, H. Lin, G. Cowles, and H. Huang, 2009. Anew high-resolution unstructured grid finite-volume Arctic Ocean model (AO-FVCOM): An application for tidal studies. *Journal of Geophysical Research*, 114, C8, doi:10.1029/2008JC004941.

Calder, J. A. Proshutinsky, et al., 2010. An Integrated International Approach to Arctic Ocean Observations for Society (A Legacy of the International Polar Year), *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, 2, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. & Stammer, D., Eds., ESA Publication WPP-306.

Kwok, R. , A. Proshutinsky , et al., 2010. Combining Satellite Altimetry, Time-variable Gravity, and Bottom Pressure Observations to Understand the Arctic Ocean. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, 2, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. & Stammer, D., Eds., ESA Publication WPP-306.

Lee, C. , A. Proshutinsky, et al., 2010. Autonomous Platforms in the Arctic Observing Network. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, 2, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. & Stammer, D., Eds., ESA Publication WPP-306.

Kowalik, Z., A. Proshutinsky, 2010. Tsunami-tide interactions: A Cook Inlet case study. *Continental Shelf Research*, 30 (6), Tides in Marginal Seas - A special issue in memory of Prof Alexei Nekrasov, April 2010, 633-642, ISSN 0278-4343, DOI: 10.1016/j.csr.2009.10.004.

- Pickart, R., L. J. Pratt, D. J. Torres, T. E. Whitledge, A. Proshutinsky, K. Aagaard, T.A. Agnew, G.W.K. Moore, and H. J. Dail, 2010. Evolution and dynamics of the flow through Herald Canyon in the Western Chukchi Sea. *Deep-Sea Research II: Tropical Studies in Oceanography*, 57 (1-2), 5-26.
- Panteleev, G., D.A. Nechaev, A. Proshutinsky, R. Woodgate, and J. Zhang, 2010. Reconstruction and analysis of the Chukchi Sea circulation in 1990-1991. *Journal of Geophysical Research*, 115, C08023, doi: 10.1029/2009JC005453.
- Proshutinsky A., R. Krishfield, M. Steele, I. Polyakov, I. Ashik, M. McPhee, J. Morison, M.-L. Timmermans, J. Toole, V. Sokolov, I. Frolov, E. Carmack, F. McLaughlin, K. Shimada, R. Woodgate, and T. Weingartner, 2010. Ocean [in "State of the Climate in 2009"]. *Bulletin of the American Meteorological Society*, 91, No. 7.
- Timmermans, M-L., L. Rainville, L. Thomas and A. Proshutinsky, 2010. Moored observations of bottom-intensified motions in the deep Canada Basin, Arctic Ocean, *Journal of Marine Research*, 68 (1).
- Toole, J.M., M.-L. Timmermans, D.K. Perovich, R.A. Krishfield, A. Proshutinsky, and J.A. Richter-Menge, 2010.. Influences of the Ocean Surface Mixed Layer and Thermohaline Stratification on Arctic Sea Ice in the Central Canada Basin. *Journal of Geophysical Research*, 115, C10018, doi:10.1029/2009JC005660.
- McLaughlin, F., E. Carmack, R. Krishfield, C. Guay, m. Yamamoto-Kawai, M. Itoh, J. Jackson, A. Proshutinsky, K. Shimada, W. Williams and S. Zimmerman, 2011. The Changing Statues of the Canada Basin: From Bellwether to Alarm Bells in the 21st century. *Oceanography*, 24 (3), 146-159, <http://dx.doi.org/10.5670/oceanog.2011.66>.
- Proshutinsky, A. Y. Aksenov, D. Holland, J. Clement Kinney, R. Gerdes, G. Holloway, A. Jahn, M. Johnson, E. Golubeva, E. Popova, M. Steele and E. Watanabe, 2011. Arctic Ocean change studies: synthesizing model results and observations. *Oceanography* 24(3): 102-113, <http://dx.doi.org/10.5670/oceanog.2011.61>.
- Timmermans, M.-L., A. Proshutinsky, R. Krishfield, D. Perovich, J. Richter-Menge, T. Stanton, and J. Toole, 2011. Surface freshening in the Arctic Ocean's Eurasian Basin: an apparent consequence of recent change in the wind-driven circulation. *Journal of Geophysical Research*, doi:10.1029/2011JC006975.
- Toole, J.M., R.A. Krishfield, M.-L., Timmermans and A. Proshutinsky, 2011. The Ice-Tethered Profiler: Argo of the Arctic, *Oceanography* 24(3):126-135, <http://dx.doi.org/10.5670/oceanog.2011.64>.
- McLaughlin, F. E. Carmack, R. Krishfield, C. Guay, M. Yamamoto-Kawai, M. Itoh, J. Jackson, A. Proshutinsky, K. Shimada, W. Williams and S. Zimmerman, 2011. The changing States of the Canada Basin: From Bellwether to Alarm Bells in the 21st century. *Oceanography* 24(3):146-159, <http://dx.doi.org/10.5670/oceanog.2011.66>.
- Johnson, M., A. Proshutinsky, B. de Cuevas, N. Diansky, R. Lindsay, S. Hakkinen, W. Maslowski, A.T. Nguyen, and Z. Zhang, 2012. Evaluation of Sea Ice Thickness Reproduction in AOMIP Models. *Journal of Geophysical Research*, 117, C00D13, doi:10.1029/2011JC007257.
- Proshutinsky, A. M.-L. Timmermans, I. Ashik, A. Beszczynska-Moeller, E. Carmack, I. Frolov, R. Krishfield, F. McLaughlin, J. Morison, I. Polyakov, K. Shimada, V. Sokolov, M. Steele, J. Toole and R. Woodgate, 2012. The Arctic (Ocean)[in "State of the Climate in 2011"]. *Bulletin of American Meteorological Society*, 92 (6), S145-S148.
- Proshutinsky, A. M.-L. Timmermans, I. Ashik, A. Beszczynska-Moeller, E. Carmack, I. Frolov, R. Ingvaldsen, M. Itoh, T. Kikuchi, R. Krishfield, F. McLaughlin, H. Loeng, S. Nishino, R. Pickart, B. Rabe, B. Rudels, I. Semiletov, U. Schauer, N. Shakhova, K. Shimada, V. Sokolov, M. Steele, J. Toole, T. Weingartner, W. Williams, R. Woodgate, M. Yamamoto-Kawai, and S. Zimmerman, 2012. The Arctic (Ocean) [in :state of the Climate in 2011']. *Bulletin of American Meteorological Society*, 93(7), S142-S147.

Proshutinsky, A., R. Krishfield, M.-L. Timmermans, J. Toole, 2013. Arctic Ocean freshwater balance. *2013 McGraw-Hill Science and Technology Yearbook of Science and Technology*, pp. 31-34.

Greene, C. H., E. M.G, B. C. Monger, L. P. McGarry, A. J. Pershing, I. M. Belkin, P. S. Fratantoni, D. G. Mountain, R. S. Pickart, A. Proshutinsky, R. Ji, J. J. Bisagni, S. M.A. Hakkinen, D. B. Haidvogel, J. Wang, E. Head, P. Smith, C. Reid, A. Conversi, 2013. Remote climate forcing of decadal-scale regime shifts in Northwest Atlantic shelf ecosystems, *Limnol. Oceanogr.*, 58(3), 2013, 803-816 | DOI: 10.4319/lo.2013.58.3.0803

Lique, C., J.D. Guthrie, M. Steele, A. Proshutinsky, J. H. Morison, and R. Krishfield, 2013. Diffusive vertical heat flux in the Canada Basin of the Arctic Ocean inferred from moored instruments. *Journal of Geophysical Research, Oceans*, 119, 496-508, doi: 10.1002/2013JC009346.

Krishfield, R. A., A. Proshutinsky, K. Tateyama, W. J. Williams, E. C. Carmack, F. A. McLaughlin, and M.-L. Timmermans (2014), Deterioration of perennial sea ice in the Beaufort Gyre from 2003 to 2012 and its impact on the oceanic freshwater cycle, *J. Geophys. Res. Oceans*, 119, 1271–1305.

Zhao, M., M.-L. Timmermans, S. Cole, R. Krishfield, A. Proshutinsky, and J. Toole (2014), Characterizing the eddy field in the Arctic Ocean halocline, *J. Geophys. Res. Oceans*, 119, doi:10.1002/2014JC010488.

Timmermans, M.-L., A. Proshutinsky, E. Golubeva, J. M. Jackson, R. Krishfield, M. McCall, G. Platov, J. Toole, W. Williams, T. Kikuchi, and S. Nishino (2014), Mechanisms of Pacific Summer Water variability in the Arctic's Central Canada Basin, *J. Geophys. Res. Oceans*, 119, doi:10.1002/2014JC010273.

Proshutinsky A., D. Dukhovskoy, M-L. Timmermans, R. Krishfield, J. Bamber (2015): Arctic circulation regimes, *Phil. Trans. R. Soc. A*, 373, 20140160; DOI: 10.1098/rsta.2014.0160.

Dukhovskoy, D., J. Ubnoske, E. Blanchard-Wrigglesworth, H. Hiester, A. Proshutinsky (2015): Skill metrics for evaluation and comparison of sea ice models, *JGR-Oceans*, DOI: 10.1002/2015JC010989, accepted 10 August, 2015, DOI: 10.1002/2015JC010989

Timmermans M-L., A. Proshutinsky (2015): Arctic Ocean Sea Surface Temperature, [in "State of the Climate in 2014"]. *Bull. Amer. Meteor. Soc.*, 96 (7), S147-S148. also published at Arctic Report Card: Update for 2014: http://www.arctic.noaa.gov/reportcard/sea_surface_temperature.html

Yang, J., Proshutinsky, A. and Lin, X. (2015), Dynamics of an idealized Beaufort Gyre: 1. the effect of a small beta and lack of western boundaries. *J. Geophys. Res. Oceans*. Accepted Author Manuscript. doi:10.1002/2015JC011296

Aksenov, Y., M. Karcher, A. Proshutinsky *et al.* (2015), Arctic pathways of Pacific Water: Arctic Ocean Model Intercomparison experiments, *J. Geophys. Res. Oceans*, 120, doi:10.1002/2015JC011299.

Dukhovskoy, D. S., P. G. Mayers, G. Platov, M-L Timmermans, B. Curry, A. Proshutinsky, J. Bamber, E. Chassignet, X., Hu, C. Lee, R. Somavilla (2016), Greenland freshwater pathways in the sub-Arctic Seas from model experiments with passive tracers, *J. Geophys. Res. Oceans*, 121, 877–907, doi:10.1002/2015JC011290.

Proshutinsky, A., M. Steele, and M.-L. Timmermans (2016), Forum for Arctic Modeling and Observational Synthesis (FAMOS): Past, current, and future activities, *J. Geophys. Res. Oceans*, 121, doi:10.1002/2016JC011898.

Våge, K., Pickart, R. S., Pavlov, V., Lin, P., Torres, D. J., Ingvaldsen, R., Sundfjord, A. and Proshutinsky, A. (2016), The Atlantic Water boundary current in the Nansen Basin: Transport and mechanisms of lateral exchange. *J. Geophys. Res. Oceans*. Accepted Author Manuscript. doi:10.1002/2016JC011715

Timmermans M-L. and A. Proshutinsky, 2016: Sea surface temperature [in “State of the Climate in 2015”]. *Bull. Amer. Meteor. Soc.*, 97 (8), S137–S138.

Proshutinsky, A. (2016), AOMIP and FAMOS for enhancing understanding of Arctic changes, *Eos*, 97, <https://doi.org/10.1029/2018EO053767>. Published on 15 June 2016.

Marshall, J., Scott, J., and Proshutinsky, A., 2017, Climate response functions” for the Arctic Ocean: a proposed coordinated modelling experiment, *Geosci. Model Dev.*, 10, 2833-2848, <https://doi.org/10.5194/gmd-10-2833-2017>.

Timmermans M.- L., J.C Marshall, A.Y. Proshutinsky, and J.R Scott (2017), Seasonally-derived components of the Canada Basin halocline, *Geophys. Res. Lett.*, 44, doi:[10.1002/2017GL073042](https://doi.org/10.1002/2017GL073042).

Proshutinsky, A., Krishfield, R., Toole, J. M., Timmermans, M.-L., Williams, W., Zimmermann, S., et al. (2019). Analysis of the Beaufort Gyre freshwater content in 2003–2018. *Journal of Geophysical Research: Oceans*, 124, 9658– 9689. <https://doi.org/10.1029/2019JC015281>

Proshutinsky, A., Krishfield, R., & Timmermans, M.-L. (2019). Preface to special issue Forum for Arctic Ocean Modeling and Observational Synthesis (FAMOS) 2: Beaufort Gyre phenomenon. *Journal of Geophysical Research: Oceans*, 124. <https://doi.org/10.1029/2019JC015400>

Proshutinsky, A., and R. Krishfield (2019), In a spin: New insights into the Beaufort Gyre, *Eos*, 100, <https://doi.org/10.1029/2019EO119765>. Published on 08 April 2019.

Kelly, S. J., Proshutinsky, A., Popova, E. K., Aksenov, Y. K., & Yool, A. (2019). On the origin of water masses in the Beaufort Gyre. *Journal of Geophysical Research: Oceans*, 124. <https://doi.org/10.1029/2019JC015022>

Dukhovskoy, D. S., Yashayaev, I., Proshutinsky, A., Bamber, J. L., Bashmachnikov, I. L., Chassignet, E. P., et al (2019). Role of Greenland Freshwater Anomaly in the Recent Freshening of the Subpolar North Atlantic. *Journal of Geophysical Research: Oceans*, 124. <https://doi.org/10.1029/2018JC014686>

DeGrandpre, M. D., Lai, C.-Z., Timmermans, M.-L., Krishfield, R. A., Proshutinsky, A., & Torres, D. (2019). Inorganic carbon and $p\text{CO}_2$ variability during ice formation in the Beaufort Gyre of the Canada Basin. *Journal of Geophysical Research: Oceans*, 124. <https://doi.org/10.1029/2019JC015109>

Megan S. Ballard, Mohsen Badiey, Jason D. Sagers, John A. Colosi, Altan Turgut, Sean Pecknold, Ying-Tsong Lin, Andrey Proshutinsky, Richard Krishfield, Peter F. Worcester, and Matthew A. Dzieciuch (2020) Temporal and spatial dependence of a yearlong record of sound propagation from the Canada Basin to the Chukchi Shelf, *The Journal of the Acoustical Society of America*, vol. 148, Issue 3, DOI: [10.1121/10.0001970](https://doi.org/10.1121/10.0001970)

Proshutinsky A.Yu., Toole J.M., Krishfield R.A., Anderson D.M., Ashjian C.J., Baggeroer A.B., Freitag L.E., Pickart R.S., and von der Heydt K. (2020). 90 Years of Arctic Ocean Exploration at the Woods Hole Oceanographic Institution, *Journal of Oceanological Research*, Vol. 48, No. 3, p. 164–198, DOI: 10.29006/1564-2291.JOR-2020.48(3).10

Dukhovskoy, D.S., I. Yashayaev, E.P. Chassignet, P.G. Myers, G. Platov, A. Proshutinsky (2021) Time scales of the Greenland Freshwater Anomaly in the Subpolar North Atlantic. *Journal of Climate*, Volume 34, Issue 22, p.8971-8987. DOI: [10.1175/JCLI-D-20-0610.1](https://doi.org/10.1175/JCLI-D-20-0610.1)

Berx, B., D. Volkov, J. Baehr, M.O. Baringer, P. Brandt, K. Burmeister, S. Cunningham, M.F. de Jong, L. de Steur, S. Dong, E. Frajka-Williams, G.J. Goni, N.P. Holliday, R. Hummels, R. Ingvaldsen, K. Jochumsen, W. Johns, S. Jónsson, J. Karstensen, D. Kieke, R. Krishfield, M. Lankhorst, K.M.H. Larsen, I. Le Bras, C.M. Lee, F. Li, S. Lozier, A. Macrander, G. McCarthy, C. Mertens, B. Moat, M. Moritz, R. Perez, I. Polyakov, A. Proshutinsky, B. Rabe, M. Rhein, C. Schmid, Ø. Skagseth, D.A. Smeed, M.-L. Timmermans, W.-J. von Appen, B. Williams, R. Woodgate, and I. Yashayaev. 2021. Climate-relevant ocean transport measurements in the Atlantic and Arctic Oceans. Pp. 10–11 in *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, *A Supplement to Oceanography* 34(4), <https://doi.org/10.5670/oceanog.2021.supplement.02-04>

Books

Dorонин, Н. Ю., и А. Ю. Прошутинский (редакторы), 1988. *Моделирование элементов арктического океана. Гидрологический режим*. Трансакции Арктического и Антарктического научного института, 413, 148 pp., Гидрометеориздат (на русском языке).

Прошутинский, А. Ю., 1993. *Арктические колебания уровня океана*. Гидрометеориздат, С.-Петербург, 216 pp. (на русском языке).

Прошутинский, А. Ю., и А. В. Янис (редакторы), 1993. *Анализ и моделирование элементов гидрологического режима Арктического океана*. Трансакции Арктического и Антарктического научного института, 429, 187 pp., Гидрометеориздат (на русском языке).

Лайонс, Б., К. Альверсон, Д. Барбер, Дж. Беллингем, Т. Каллан, Л. Коопер, М. Эдвардс, С. Гирхард, М. МакКаммон, Дж. Морисон, С. Пало, А. Прошутинский, Л. Райерсен, В. Романовский, П. Шлоссер, Дж. Стroeve, Г. Твиди, и Дж. Уолш, 2006. *Toward an Integrated Arctic Observing Network*, National Academies Press, Вашингтон, D.C., 2006, 115p.

Proshutinsky A. (editor), 2007. Arctic Ocean Model Intercomparison Project (AOMIP), JGR-Oceans special issue ([https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)2169-9291.AOMIP1](https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)2169-9291.AOMIP1))

Proshutinsky A. (editor), 2010. Beaufort Gyre Climate System, JGR-Oceans special issues, vol. 115, C1, pp. 1-208. [https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)2169-9291.BEAUFORTG1](https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)2169-9291.BEAUFORTG1)

Proshutinsky A. (editor), 2012. Arctic Ocean Investigation Employing AOMIP-2 Models, JGR-Oceans special issue pp.1-298 ([https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)2169-9291.AOMIP2](https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)2169-9291.AOMIP2))

Proshutinsky A. (editor), 2016. Forum for Arctic Modeling and Observing Synthesis (FAMOS): results and synthesis of coordinated experiments, JGR-Oceans special issue, pp. 1-828.
[https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)2169-9291.FAMOS1](https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)2169-9291.FAMOS1)

Proshutinsky A. (editor), 2020. Forum for Arctic Modeling and Observing Synthesis (FAMOS-2): Beaufort Gyre Phenomenon, JGR-Oceans special issue.
[https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)2169-9291.FAMOS2](https://agupubs.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)2169-9291.FAMOS2)

Theses and Technical Reports

Прошутинский, А. Ю., 1980. Методы симуляций штормовых приливов в пологой зоне Арктических морей. Расширенный аннотации к кандидатской диссертации, 21 pp. (на русском языке).

Рудель, Б., С. Эриксен, А. Ю. Прошутинский, Е. Миронов, и А. А. Лебедев, 1990. Крузовый отчет о круизе на судне *Академик Шулеевский*, 24 апреля – 23 мая 1989. *Rapportserie*, 54, Oslo, Norsk Polarinstitutt, pp. 1–12.

Прошутинский, А. Ю., 1991. Арктические колебания уровня океана и их роль в формировании гидрологического режима. Расширенный аннотации к кандидатской диссертации, Арктический и Антарктический научный институт, Ленинград, 32 pp.

Лойнинг, Т. Б., В. Абрамов, А. Ю. Прошутинский, 1992. Океан-ледовые взаимодействия. *Rapportserie*, 78, Oslo, Norsk Polarinstitutt, pp. 27–29.

Доронин, Н. Ю., С. Остерхус, и А. Ю. Прошутинский, 1992. Гидрографические наблюдения вдоль северного среза Гренландии. *Rapportserie*, 78, Oslo, pp. 53–56.

Энгедаль, Г., А. Ю. Прошутинский, и Б. Адландсвик, 1993. SNOP численный эксперимент (SNOPEX), Модель сравнения. *Rapportserie*, 80, Oslo, Norsk Polarinstitutt, 49 pp.

- Proshutinsky, A. Yu., T. O. Proshutinsky, and T. Weingartner, 1995. Climatology of environmental conditions affecting commercial navigation along the Northern Sea Route. In: *Northern Sea Route*, Reconnaissance Report, U.S. Army Corps of Engineers, Alaska District, June 1995, Vol. 2, Appendix B, 196 pp.
- Proshutinsky, A. Yu., and T. O. Proshutinsky, 1995. Russian institutions, monitoring and forecasting capabilities, and sources of data for the Northern Sea Route. In: *Northern Sea Route*, Reconnaissance Report, U.S. Army Corps of Engineers, Alaska District, June 1995, Vol. 2, Appendix D, 148 pp.
- Proshutinsky, A. Yu., N. Mulherin, T. O. Proshutinsky, D. T. Eppler, L. D. Farmer, and O. P. Smith, 1995. Transit model development and results. In: *Northern Sea Route*, Reconnaissance Report, U.S. Army Corps of Engineers, Alaska District, June 1995, Vol. 3, Appendix G, 262 pp.
- Malherin, N. D., D. T. Eppler, T. O. Proshutinsky, A. Yu. Proshutinsky, D. Farmer, and O. Smith, 1996. Development and results of a Northern Sea Route transit model. *CRREL Report*, 95-5, May 1996, 106 pp.
- Proshutinsky, A. Yu., T. O. Proshutinsky, and T. Weingartner, 1998. Wind field representations and their effect on shelf circulation models: A case study in the Chukchi Sea. Minerals Management Service, Coastal Marine Institute final report, 150 pp.
- Proshutinsky, A. Yu., T. O. Proshutinsky, and T. Weingartner, 1998. Environmental conditions affecting commercial shipping along Northern Sea Route. International Northern Sea Route Project (INSROP) working paper 127, 25 pp.
- Proshutinsky, A., Mark Johnson, James Maslanik, and Tatiana Proshutinsky, 1999. Beaufort and Chukchi Sea seasonal variability for two Arctic climate regimes. University of Alaska Coastal Marine Institute, Annual Report N 6, p. 80.
- Proshutinsky, A., Mark Johnson, James Maslanik, and Tatiana Proshutinsky, 2000. Beaufort and Chukchi Sea seasonal variability for two Arctic climate regimes. University of Alaska Coastal Marine Institute, Annual Report N 7, pp. 59–68.
- Non-refereed Publications**
- Proshutinsky, A. Yu., 1979. Analysis of the results of modeling of storm surges in the shelf zone of arctic seas. In: *Transactions of the Fourth Conference of Young Scientists of the Leningrad Hydrometeorological Institute (LHI)* (manuscript deposited at VINITI, Obninsk on 10 December 1979, N 4195–79), 7 pp. (in Russian).
- Doronin, N. Yu., and A. Yu. Proshutinsky, 1990. Numerical modeling of the Arctic Ocean dynamics, Arctic research, advances and prospects, Part 1. *International Conference of Research in the Arctic*, Leningrad, 1988, pp. 76–85.
- Proshutinsky, A. Yu., and N. V. Mustafin, 1992. Arctic technology research and teaching at Arctic and Antarctic Research Institute. *Arctic Technology Seen from Russia*, Norwegian Institute of Technology, Trondheim, 18–19 May 1992, pp. 5–24.
- Proshutinsky, A. Yu., S. A. Kolesov, and I. E. Frolov, 1992. The ice drift models: The investigation and forecasting system. *Arctic Technology Seen from Russia*, Norwegian Institute of Technology, Trondheim, 18–19 May 1992, pp. 25–54.
- Doronin, N. Yu., and A. Yu. Proshutinsky, 1992. Mathematical modeling in studies of Arctic Ocean circulation. *Proceedings of an International Conference on the Role of Polar Regions in Global Change*, vol. 1, pp. 310–316.
- Proshutinsky, A. Yu., 1992. Tidal water and ice dynamics in the Arctic Ocean, 1992. *Proceedings of an International Conference on the Role of Polar Regions in Global Change*, 1, 296–303.

- Proshutinsky, A. Yu., and I. V. Polyakov, 1992. Arctic Ocean eigen oscillations. *Proceedings of an International Conference on the Role of Polar Regions in Global Change*, 1, 347–354.
- Dmitriev, N. E., I. V. Polyakov, and A. Yu. Proshutinsky, 1995. Modeling of a three-dimensional structure of the Arctic Ocean M2 tide with a high spatial resolution. *CRAY Channels*, 17, No. 2, 36.
- Proshutinsky, A. Yu., and M. Johnson, 1995. Circulation of the Arctic Seas based on Russian sources of information. *Proceedings of the ONR/NRL Workshop on Modeling the Dispersion of Nuclear Contaminants in the Arctic Seas, October 18–19, 1994, Monterey, California*, Ruth H. Preller and Robert Edson, eds; NRL/MR/7322-95-7584, pp. 143–172.
- Proshutinsky, A. Yu., and M. Johnson, 1995. Arctic Ocean ice transport for period 1946–1988. *Proceedings of the Sea Ice Mechanics and Arctic Modeling Workshop*, April 25–28, 1995, Anchorage, Alaska, 2, 265–275.
- Proshutinsky, A., 2000. Arctic climate variability during 20th century. *International WOCE Newsletter*, No. 40, December 2000, pp. 9–13. Published by the WOCE International Project Office at Southampton Oceanography Centre, UK.
- Proshutinsky, A., and T. Matsuno, 2001. The Second Wadati Conference on Global Change and the Polar Climate. *Proceedings of the Second Wadati Conference*, Tsukuba, Japan, March 7–9, 2001, p. 2.
- Proshutinsky, A., 2001. Arctic climate variability in the 20th century. The Second Wadati Conference on Global Change and the Polar Climate, *Proceedings of the Second Wadati Conference*, Tsukuba, Japan, March 7–9, 2001, pp. 12–16.
- Richter-Menge, J., J. Overland, A. Proshutinsky, V. Romanovsky, et al., 2006. State of the Arctic report, NOAA OAR special report, NOAA/OAR/PMEL, Seattle, WA, 36 pp.
- Proshutinsky, A., R. Gerdes, D. Holland, G. Holloway, and M. Steele, 2007. AOMIP: coordinated activities to improve models and model predictions. *CLIVAR Exchanges* 44, January 2008.
- Proshutinsky, A., K. Dethloff, R. Doescher, J.C. Gascard, and F. Kauker, 2008. Toward reducing uncertainties in Arctic climate simulations. *EOS*, 89(15), 16 April 2008, p. 150, 152.
- Carmack, E., F. McLaughlin, M. Yamamoto-Kawai, M. Itoh, K. Shimada, R. Krishfield, and A. Proshutinsky, 2008. Freshwater storage in the Northern Ocean and the special role of the Beaufort Gyre. In: *Arctic-Subarctic Ocean Fluxes: Defining the Role of the Northern Seas in Climate*, Eds, R.R. Dickson, J. Meincke, P. Rhines, Springer, 2008, pp. 145–170.
- Proshutinsky, A. and M. Johnson, 2010. Decadal variability of Arctic climate: cyclonic and anticyclonic circulation regimes, Abstract GC12B-09 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13–17 Dec.
- Proshutinsky, A., I. Ashik, 2011. Rates of sea level change in the Arctic Ocean and decadal variability. *Geophysical Research Abstracts*, Vol. 13, EGU2011-8210, 2011. EGU General Assembly 2011.
- Proshutinsky, A. and M. Johnson, 2011. Arctic Ocean oscillation index (AOO): interannual and decadal changes of the Arctic climate, *Geophysical Research Abstracts*, Vol. 13, EGU2011-7850, 2011, EGU General Assembly 2011.
- Timmermans, M.-L., A. Proshutinsky, R. Krishfield, D. Perovich, J. Richter-Menge and J. Toole, 2011. Surface freshening in the Arctic Ocean's Eurasian Basin: an apparent consequence of recent change I the wind-driven circulation. *Geophysical Research Abstracts*, Vol. 13, EGU2011-1455, 2011, EGU General Assembly 2011.

Timmermans, M.-L., A. Proshutinsky, R. Krishfield, D. Perovich, J. Richter-Menge and J. Toole, 2011. Surface freshening in the Arctic Ocean's Eurasian Basin: an apparent consequence of recent change I the wind-driven circulation, 11th Conference on Polar Meteorology and Oceanography, 2-5 May, Boston, MA.

Proshutinsky, A., E. Golubeva, E. Watanabe, and J. Yang, 2011. Investigation of the Arctic Ocean dynamics based on coordinate numerical experiments, 11th Conference on Polar Meteorology and Oceanography, 2-5 May, Boston, MA.

Aksenov, Y., B. de Cuevas, R. Gerdes, E. Golubeva, M. Karcher, F. Kauker, A. Nguyen, G. Platov, A. Proshutinsky, E. Watanabe (6), M. Wadley and R. Woodgate, 2011. Arctic pathways of the Pacific water: the Arctic Ocean model intercomparison experiments. *Geophysical Research Abstracts*, Vol. 13, EGU2011-10598, 2011, EGU General Assembly 2011.

Chayes, D., A. Chave, B.J. Oakley, A. Proshutinsky, and T. Weingartner. Concept design for a cabled seafloor observatory in Barrow, Alaska. IEEE Conference Proceedings SSC '06 Scientific Submarine Cable 2006, 8-10 February 2006, Dublin, Ireland.

Proshutinsky, A., R. Krishfield, E. Carmack, F. McLaughlin, K. Shimada, D.V. Alexeev, D. Perovich, J. Richter-Menge, J. Overland, C. Guay, and R. Hopcroft. The Beaufort Gyre Observing System: Documenting key parameters to enhance understanding of Arctic Change. *EOS*.

Proshutinsky, A., R. Krishfield, M-L Timmermans, J. Toole, A.I. Ashik, V. Sokolov, I. Frolov, E. Carmack, F. McLaughlin, J.C. Gascard, M. Itoh, K. Shimada, I. Polyakov, Morison, M. Steele, B. Rudels, and U. Schauer. The Arctic Ocean climate report. BAMC.

Steele, M., A. Proshutinsky (2020): The FAMOS school day: Fostering confidence in a diverse body of early-career polar marine scientists, 2020 AGU Fall meeting, abstract ID: 760881

Proshutinsky, A., Krishfield, R., Timmermans, M.-L., Le Bras, I., Toole, J., Pickart, R., Williams, B., Zimmermann, S., Platov, G., Golubeva, E., Dukhovskoy, D., Rose, S., and Andersen, O.: 2019-2020 mechanisms of fresh water release from the Beaufort Gyre region of the Arctic Ocean, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-5775, <https://doi.org/10.5194/egusphere-egu21-5775>, 2021.

Research Cruises

1976–1979: Airborne research polar expedition “SEVER”

1981–1982: Sea ice observations co-leader in 27th Soviet Antarctic expedition aboard R/V “Mikhail Somov”

1981–1991: 12 cruises on board of the Arctic and Antarctic Research Institute research vessels and Norwegian vessels to the Norwegian, Greenland, Kara, Chukchi and Bering Seas as a cruise leader or senior scientist.

2003 and 2017: Beaufort Gyre freshwater experiment – 30 day cruises on board of Canadian icebreaker, “Louis St. Laurent” to the Beaufort Sea, project principal investigator.