

Bibliography for the Meetings of Scientific Experts on Fish Stocks in the Central Arctic Ocean (FiSCAO), November 9, 2017

- Arctic Regional Workshop to Facilitate the Description of Ecologically or Biologically Significant Marine Areas (EBSAs)* (2014, 3 - 7 March 2014). Helsinki, Finland.
- A.A., N. (1963). Quantitative distribution of benthos on the shelf and upper slope of the eastern Bering Sea. In: Moiseev, P.A. (Ed.), *Soviet Fisheries Investigations in the Northeastern Pacific. 5. Proceedings of VNIRO, vol. 48, Pishchevaya Promyshlennost' Press, Moscow, pp. 145-205., 48, 145-205.*
- Aagaard, K., Foldvik, A., & Hillman, S. R. (1987). The West Spitsbergen Current - Disposition and water mass transformation. *Journal of Geophysical Research-Oceans*, 92(C4), 3778-3784. doi:10.1029/JC092iC04p03778
- Abrahamsson, K., Bertilsson, S., Chierici, M., Fransson, A., Froneman, P. W., Loren, A., & Pakhomov, E. A. (2004). Variations of biochemical parameters along a transect in the Southern Ocean, with special emphasis on volatile halogenated organic compounds. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 51(22-24), 2745-2756. doi:10.1016/j.dsr2.2004.09.004
- Achberger, C., Ackerman, S. A., Ahmed, F. H., Albanil-Encarnacion, A., Alfaro, E. J., Alves, L. M., . . . Zubair, L. (2012). State of the Climate in 2011 Special Supplement to the Bulletin of the American Meteorological Society Vol. 93, No. 7, July 2012. *Bulletin of the American Meteorological Society*, 93(7), S1-+. doi:10.1175/2012BAMSStateoftheClimate.1
- Agler, B. A., Ruggerone, G. T., Wilson, L. I., & Mueter, F. J. (2013). Historical growth of Bristol Bay and Yukon River, Alaska chum salmon (*Oncorhynchus keta*) in relation to climate and inter- and intraspecific competition. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 165-177. doi:10.1016/j.dsr2.2013.03.028
- Aksenov, Y., Ivanov, V. V., Nurser, A. J. G., Bacon, S., Polyakov, I. V., Coward, A. C., . . . Beszczynska-Moeller, A. (2011). The Arctic Circumpolar Boundary Current. *Journal of Geophysical Research-Oceans*, 116. doi:10.1029/2010jc006637
- Alexeev, V. A., Esau, I., Polyakov, I. V., Byam, S. J., & Sorokina, S. (2012). Vertical structure of recent Arctic warming from observed data and reanalysis products. *Climatic Change*, 111(2), 215-239. doi:10.1007/s10584-011-0192-8
- Allen, M. J., & Smith, G. B. (1988). Atlas and zoogeography of common fishes in the Bering Sea and northeastern Pacific.
- AMAP/CAFF/SDWG. (2013). *Identification of Arctic marine areas of heightened ecological and cultural significance: Arctic Marine Shipping Assessment (AMSA) IIc*. Oslo, Norway: Arctic Monitoring and Assessment Programme (AMAP).
- Ambrose, W. G., Clough, L. M., Tilney, P. R., & Beer, L. (2001). Role of echinoderms in benthic remineralization in the Chukchi Sea. *Marine Biology*, 139(5), 937-949.
- Ambrosetti, D. (2016). *Climatic and Environmental Challenges: Learning from the Horn of Africa*: Centre français des études éthiopiennes.
- Andersen, S. M., Lydersen, C., Grahl-Nielsen, O., & Kovacs, K. M. (2004). Autumn diet of harbour seals (*Phoca vitulina*) at Prins Karls Forland, Svalbard, assessed via scat and fatty-acid analyses. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 82(8), 1230-1245. doi:10.1139/z04-093
- Anderson, J. T., Dalley, E. L., & O'Driscoll, R. L. (2002). Juvenile capelin (*Mallotus villosus*) off Newfoundland and Labrador in the 1990s. *ICES Journal of Marine Science*, 59(5), 917-928. doi:10.1006/jmsc.2002.1241
- Anderson, L. G., Chierici, M., Fogelqvist, E., & Johannessen, T. (2000). Flux of anthropogenic carbon into the deep Greenland Sea. *Journal of Geophysical Research-Oceans*, 105(C6), 14339-14345. doi:10.1029/1999jc900276
- Anderson, L. G., Olsson, K., & Chierici, M. (1998). A carbon budget for the Arctic Ocean. *Global Biogeochemical Cycles*, 12(3), 455-465. doi:10.1029/98gb01372
- Anderson, L. G., Olsson, K., Jones, E. P., Chierici, M., & Fransson, A. (1998). Anthropogenic carbon dioxide in the Arctic Ocean: Inventory and sinks. *Journal of Geophysical Research-Oceans*, 103(C12), 27707-27716. doi:10.1029/98jc02586
- Anderson, M. E., & Fedorov, V. V. (2004). Family Zoarcidae Swainson 1839 eelpouts. *California Academy of Sciences: Annotated checklist of fishes*, 34, 1-58.
- Anderson, P. J., & Piatt, J. F. (1999). Community reorganization in the Gulf of Alaska following ocean climate regime

- shift. *Marine Ecology Progress Series*, 189, 117-123.
- Andrews, A. G., Farley Jr, E. V., Moss, J. H., Murphy, J. M., & Husoe, E. F. (2009). Energy density and length of juvenile pink salmon *Oncorhynchus gorbuscha* in the eastern Bering Sea from 2004 to 2007: a period of relatively warm and cool sea surface temperatures. *NPAFC Bulletin*, 5, 183-189.
- Andriyashev, A. (1964). *Fishes of the northern seas of the USSR:(Ryby severnykh morei SSSR)*: Israel Program for Scientific Translations.
- Andriyashev, A., Mukhomediyarov, B., & Pavshchikov, E. (1980). On mass congregations of the cryopelagic cod fishes (*Boreogadus saida* and *Arctogadus glacialis*) in circumpolar arctic basins. *Biology of the Central Arctic Basin. Shirov Institute of Oceanology, Academy of Sciences*, 196, 211.
- Anisimova, N. A., Jorgensen, L. L., Lubin, P., & Manushin, I. (2011). Benthos and shellfish. In T. Jakobsen & V. Ozhigin (Eds.), *The Barents Sea: Ecosystem, Resources, Management: Half a Century of Russian - Norwegian Cooperation* (pp. 121-159). Trondheim: Tapir Academic Press.
- Anon. (2011). *Report of a Meeting of scientific Experts on Fish Stocks in the Arctic Ocean. Anchorage, Alaska , June 15-17, 2011*. Retrieved from
- Antrim, C. (2017). Geography and Jurisdiction in the Maritime Arctic. *Geographical Review*, 107(1), 24-47.
- Arctic Monitoring and Assessment Programme (AMAP). (2007). *Arctic Oil and Gas 2007*. Oslo, Norway: Arctic Monitoring and Assessment Programme (AMAP).
- Armstrong, T. E. (1958). *The Russians in the Arctic: aspects of Soviet exploration and exploitation of the Far North, 1937-57*. Fair Lawn, N.J.: Essential Books, .
- Aronovich, T. M., Doroshev, S. I., Spectorova, L. V., & Makhotin, V. M. (1975). Egg incubation and larval rearing of navaga (*Eleginus-navaga* pall), Polar cod (*Boreogadus-saida* lepechin) and Arctic flounder (*Liopsetta-glacialis* pall) in laboratory. *Aquaculture*, 6(3), 233-242. doi:10.1016/0044-8486(75)90043-5
- Arrigo, K. R., & van Dijken, G. L. (2015). Continued increases in Arctic Ocean primary production. *Progress in Oceanography*, 136, 60-70.
- Arthun, M., Eldevik, T., Smedsrud, L. H., Skagseth, O., & Ingvaldsen, R. B. (2012). Quantifying the influence of Atlantic heat on Barents Sea ice variability and retreat. *Journal of Climate*, 25(13), 4736-4743. doi:10.1175/jcli-d-11-00466.1
- Arthun, M., Ingvaldsen, R. B., Smedsrud, L. H., & Schrum, C. (2011). Dense water formation and circulation in the Barents Sea. *Deep-Sea Research Part I-Oceanographic Research Papers*, 58(8), 801-817. doi:10.1016/j.dsr.2011.06.001
- Arunchalam, K., & Haard, N. F. (1985). Isolation and characterization of pepsin from Polar cod (*Boreogadus-saida*). *Comparative Biochemistry and Physiology B-Biochemistry & Molecular Biology*, 80(3), 467-473. doi:10.1016/0305-0491(85)90274-3
- Aschan, M., & Ingvaldsen, R. (2009). Recruitment of shrimp (*Pandalus borealis*) in the Barents Sea related to spawning stock and environment. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 56(21-22), 2012-2022. doi:10.1016/j.dsr2.2008.11.012
- Aschan, M., Karamushko, O. V., Byrkjedal, I., Wienerroither, R., Borkin, I. V., & Christiansen, J. S. (2009). Records of the gadoid fish *Arctogadus glacialis* (Peters, 1874) in the European Arctic. *Polar Biology*, 32(7), 963-970. doi:10.1007/s00300-009-0595-4
- Asselin, N. C., Barber, D. G., Richard, P. R., & Ferguson, S. H. (2012). Occurrence, Distribution and Behaviour of Beluga (*Delphinapterus leucas*) and Bowhead (*Balaena mysticetus*) Whales at the Franklin Bay Ice Edge in June 2008. *Arctic*, 65(2), 121-132.
- Asselin, N. C., Barber, D. G., Stirling, I., Ferguson, S. H., & Richard, P. R. (2011). Beluga (*Delphinapterus leucas*) habitat selection in the eastern Beaufort Sea in spring, 1975-1979. *Polar Biology*, 34(12), 1973-1988. doi:10.1007/s00300-011-0990-5
- Astthorsson, O., Gislason, A., & Jónsson, G. S. (1995). *Zooplankton biomass and composition in the western Iceland Sea during autumn*. Paper presented at the Extended Abstracts Volume from a Symposium on Nordic Seas, Hamburg.
- Astthorsson, O. S. (2016). Distribution, abundance and biology of polar cod, *Boreogadus saida*, in Iceland–East Greenland waters. *Polar Biology*, 1-9.
- Astthorsson, O. S., Valdimarsson, H., Gudmundsdottir, A., & Óskarsson, G. J. (2012). Climate-related variations in the

- occurrence and distribution of mackerel (*Scomber scombrus*) in Icelandic waters. *ICES Journal of Marine Science: Journal du Conseil*, 69(7), 1289-1297.
- Auster, P. J., & Link, J. S. (2009). Compensation and recovery of feeding guilds in a northwest Atlantic shelf fish community. *Marine Ecology Progress Series*, 382, 163-172. doi:10.3354/meps07962
- Bacheler, N. M., Ciannelli, L., Bailey, K. M., & Bartolino, V. (2012). Do walleye pollock exhibit flexibility in where or when they spawn based on variability in water temperature? *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 208-216. doi:10.1016/j.dsr2.2012.02.001
- Bacon, J. J., Hepa, T. R., Brower Jr, H. K., Pederson, M., Olemaun, T. P., George, J. C., & Corrigan, B. G. (2009). Estimates of subsistence harvest for villages on the North Slope of Alaska, 1994-2003. *Barrow, Alaska: North Slope Borough Department of Wildlife Management*.
- Baker, M. R., & Hollowed, A. B. (2014). Delineating ecological regions in marine systems: Integrating physical structure and community composition to inform spatial management in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 215-240. doi:10.1016/j.dsr2.2014.03.001
- Baranenkova, A., Ponomarenko, V., & Khokhlina, N. (1966). The distribution, size and growth of the larvae and fry of *Boreogadus saida* (Lep.) in the Barents Sea. *Fish Mar Serv Transl Ser*, 4025(6), 498-518.
- Baranenkova, A. S. (1959). Comparison of the abundance of year-classes of cod and haddock in the Barents Sea, as made from a quantitative survey of the young fish and from the commercial fishery *Translation series (Fisheries Research Board of Canada no. 222 17)*.
- Baranenkova, A. S. (1961). *The results of surveys on young cod and haddock in the Barents Sea during the period 1946-1959* Retrieved from Lowestoft
- Baranov, S. B. The Population of Chum Salmon (*Oncorhynchus keta*) in the Anadyr River Basin, Chukotka AO, Russia.
- Barbeaux, S., Ianelli, J., Nichols, D., & Hoff, J. (2012). Assessment of Greenland Turbot (*Reinhardtius hippoglossoides*) in the Bering Sea and Aleutian Islands. *Seattle, WA: National Marine Fisheries Service*.
- Barber, D. G., Lukovich, J. V., Keogak, J., Baryluk, S., Fortier, L., & Henry, G. H. R. (2008). The Changing Climate of the Arctic. *Arctic*, 61, 7-26.
- Barber, W. E., Smith, R. L., Vallarino, M., & Meyer, R. M. (1997). Demersal fish assemblages of the northeastern Chukchi Sea, Alaska. *Fishery Bulletin*, 95(2), 195-209.
- Barber, W. E., Smith, R. L., & Weingartner, T. J. (1994). *Fisheries Oceanography of the Northeast Chukchi Sea*. Retrieved from Anchorage, AK: http://www.boem.gov/BOEM-Newsroom/Library/Publications/1993/93_0051.aspx
- Barkley, A. N., Cooke, S. J., Fisk, A. T., Hedges, K., & Hussey, N. E. (2017). Capture-induced stress in deep-water Arctic fish species. *Polar Biology*, 40(1), 213-220.
- Barrett, R. T. (1996). Egg laying, chick growth and food of kittiwakes *Rissa tridactyla* at Hopen, Svalbard. *Polar Research*, 15(2), 107-113. doi:10.1111/j.1751-8369.1996.tb00462.x
- Barrett, R. T., Asheim, M., & Bakken, V. (1997). Ecological relationships between two sympatric congeneric species, Common Murres and Thick-Billed Murres, *Uria aalge* and *U. lomvia*, breeding in the Barents Sea. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 75(4), 618-631. doi:10.1139/z97-077
- Barrett, R. T., & Krasnov, Y. V. (1996). Recent responses to changes in stocks of prey species by seabirds breeding in the southern Barents Sea. *ICES Journal of Marine Science*, 53(4), 713-722. doi:10.1006/jmsc.1996.0090
- Baulch, S., MacDonald, R., Pulsifer, P. L., & Taylor, D. R. F. (2005). Cybercartography for education: The case of the cybercartographic atlas of Antarctica. In D. R. F. Taylor (Ed.), *Cybercartography: Theory and Practice* (pp. 491-515). Amsterdam: Elsevier.
- Baumann, M. S., Moran, S. B., Kelly, R. P., Lomas, M. W., & Shull, D. H. (2013). ²³⁴Th balance and implications for seasonal particle retention in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 7-21. doi:10.1016/j.dsr2.2013.03.008
- Beck, M. W., Heck Jr, K. L., Able, K. W., Childers, D. L., Eggleston, D. B., Gillanders, B. M., . . . Minello, T. J. (2001). The identification, conservation, and management of estuarine and marine nurseries for fish and invertebrates: a better understanding of the habitats that serve as nurseries for marine species and the factors that create site-specific variability in nursery quality will improve conservation and management of these areas. *Bioscience*, 51(8), 633-641.
- Bekryaev, R. V., Polyakov, I. V., & Alexeev, V. A. (2010). Role of Polar amplification in long-term surface air temperature variations and modern Arctic warming. *Journal of Climate*, 23(14), 3888-3906. doi:10.1175/2010jcli3297.1

- Bennett, M. M. (2017). *Arctic Law and Governance: The Role of China and Finland (2017)* (Vol. 8): Springer India.
- Benoit, D., Simard, Y., & Fortier, L. (2008). Hydroacoustic detection of large winter aggregations of Arctic cod (*Boreogadus saida*) at depth in ice-covered Franklin Bay (Beaufort Sea). *Journal of Geophysical Research-Oceans*, 113(C6). doi:10.1029/2007jc004276
- Benoit, D., Simard, Y., & Fortier, L. (2014). Pre-winter distribution and habitat characteristics of polar cod (*Boreogadus saida*) in southeastern Beaufort Sea. *Polar Biology*, 37(2), 149-163. doi:10.1007/s00300-013-1419-0
- Benoit, D., Simard, Y., Gagne, J., Geoffroy, M., & Fortier, L. (2010). From polar night to midnight sun: photoperiod, seal predation, and the diel vertical migrations of polar cod (*Boreogadus saida*) under landfast ice in the Arctic Ocean. *Polar Biology*, 33(11), 1505-1520. doi:10.1007/s00300-010-0840-x
- Berge, J., Heggland, K., Lønne, O. J., Cottier, F., Hop, H., Gabrielsen, G. W., . . . Misund, O. A. (2015). First Records of Atlantic Mackerel (*Scomber scombrus*) from the Svalbard Archipelago, Norway, with Possible Explanations for the Extensions of Its Distribution. *Arctic*, 54-61.
- Berger, T. S. (1969). Features of migration and distribution of cod in the southern Barents Sea in 1968 *ICES CM (International Council for the Exploration of the Sea. Demersal Fish (Northern) Committee); 1969/F:8 3*.
- Berger, T. S. (1970). *Distribution and migration of the Barents Sea cod, depending upon its feeding in cold years* Retrieved from Washington, D.C.:
- Berger, U., & Haukas, M. (2005). Validation of a screening method based on liquid chromatography coupled to high-resolution mass spectrometry for analysis of perfluoroalkylated substances in biota. *Journal of Chromatography A*, 1081(2), 210-217. doi:10.1016/j.chroma.2005.05.064
- Berner, J., Symon, C., Arris, L., & Heal, O. W. (2005). *Arctic climate impact assessment* New York, N.Y.: Cambridge University Press.
- Beszczynska-Moeller, A., Fahrbach, E., Schauer, U., & Hansen, E. (2012). Variability in Atlantic water temperature and transport at the entrance to the Arctic Ocean, 1997-2010. *ICES Journal of Marine Science*, 69(5), 852-863. doi:10.1093/icesjms/fss056
- Bhatt, U. S., Walker, D. A., Reynolds, M. K., Bieniek, P. A., Epstein, H. E., Comiso, J. C., . . . Polyakov, I. V. (2013). Recent declines in warming and vegetation greening trends over Pan-Arctic tundra. *Remote Sensing*, 5(9), 4229-4254. doi:10.3390/rs5094229
- Bianchi, G., & Skjoldal, H. R. (2008). *The ecosystem approach to fisheries*. Wallingford, UK ; Cambridge, MA ; Rome: CABI ; Food and Agriculture Organization of the United Nations.
- Biastoch, A., Treude, T., Riepke, L. H., Riebesell, U., Roth, C., Burwicz, E. B., . . . Wallmann, K. (2011). Rising Arctic Ocean temperatures cause gas hydrate destabilization and ocean acidification. *Geophys Res Lett*, 38, L08602 doi:10.1029/2011gl047222
- Billett, D. S. M., Bett, B. J., Rice, A. L., Thurston, M. H., Galeron, J., Sibuet, M., & Wolff, G. A. (2001). Long-term change in the megabenthos of the Porcupine Abyssal Plain (NE Atlantic). *Progress in Oceanography*, 50(1-4), 325-348. doi:10.1016/s0079-6611(01)00060-x
- Bjork, M. M., Fransson, A., Torstensson, A., & Chierici, M. (2014). Ocean acidification state in western Antarctic surface waters: controls and interannual variability. *Biogeosciences*, 11(1), 57-73. doi:10.5194/bg-11-57-2014
- Blanchet, M.-A., Lydersen, C., Ims, R. A., Lowther, A. D., & Kovacs, K. M. (2014). Harbour seal *Phoca vitulina* movement patterns in the high-Arctic archipelago of Svalbard, Norway. *Aquatic Biology*, 21(3), 167-181. doi:10.3354/ab00580
- Blicher, M. E., & Sejr, M. K. (2011). Abundance, oxygen consumption and carbon demand of brittle stars in Young Sound and the NE Greenland shelf. *Marine Ecology Progress Series*, 422, 139-144. doi:10.3354/meps08915
- Bluhm, B. A., & Gradinger, R. (2008). Regional variability in food availability for Arctic marine mammals. *Ecological Applications*, 18(sp2).
- Bluhm, B. A., Gradinger, R., & Hopcroft, R. R. (2011). Editorial-Arctic ocean diversity: synthesis. *Marine Biodiversity*, 41(1), 1-4.
- Bluhm, B. A., Gradinger, R., & Piraino, S. (2007). First record of sympagic hydroids (Hydrozoa, Cnidaria) in Arctic coastal fast ice. *Polar Biology*, 30(12), 1557-1563.
- Bluhm, B. A., Iken, K., Hardy, S. M., Sirenko, B. I., & Holladay, B. A. (2009). Community structure of epibenthic megafauna in the Chukchi Sea. *Aquatic Biology*, 7(3), 269-293. doi:10.3354/ab00198
- Blunden, J., Arndt, D. S., Achberger, C., Ackerman, S. A., Albanil, A., Alexander, P., . . . Zimmermann, S. (2013). State of

- the Climate in 2012. *Bulletin of the American Meteorological Society*, 94(8), S1-S238.
- Boertmann, D., Johansen, K., M., R. L., Schiedek, D., Ugarte, F., Mosbech, A., . . . Bjerrum, M. (2009). *The western Greenland Sea. - A preliminary strategic environmental impact assessment of hydrocarbon activities in the KANUMAS East area* (ISBN: 978-87-7073-099-0 ISSN: 1600-0048). Retrieved from Aarhus University, Denmark: <http://www.dmu.dk/Pub/FR719.pdf>
- Boertmann, D., Johansen, K., Rasmussen, L. M., Schiedek, D., Ugarte, F., Mosbech, A., . . . Bjerrum, M. (2009). *The eastern Baffin Bay. A preliminary strategic environmental impact assessment of hydrocarbon activities in the KANUMAS West area* (ISBN: 978-87-7073-100-3 ISSN: 1600-0048). Retrieved from Aarhus University, Denmark: Technical report no. 720. <http://www.dmu.dk/Pub/FR720.pdf>
- Boetius, A., Albrecht, S., Bakker, K., Bienhold, C., Felden, J., Fernandez-Mendez, M., . . . Sc, R. V. P. A.-.-S. (2013). Export of Algal Biomass from the Melting Arctic Sea Ice. *Science*, 339(6126), 1430-1432. doi:10.1126/science.1231346
- Bogstad, B., Dingsor, G. E., Ingvaldsen, R. B., & Gjosaeter, H. (2013). Changes in the relationship between sea temperature and recruitment of cod, haddock and herring in the Barents Sea. *Marine Biology Research*, 9(9), 895-907. doi:10.1080/17451000.2013.775451
- Bohn, A., & McElroy, R. O. (1976). Trace-metals (as, cd, cu, fe, and zn) in Arctic cod, *Boreogadus-saida*, and selected zooplankton from Strathcona Sound, northern Baffin Island. *Journal of the Fisheries Research Board of Canada*, 33(12), 2836-2840.
- Borga, K., & Di Guardo, A. (2005). Comparing in measured and predicted PCB concentrations Arctic seawater and marine biota. *Science of the Total Environment*, 342(1-3), 281-300. doi:10.1016/j.scitotenv.2004.12.043
- Borga, K., Gabrielsen, G. W., & Skaare, J. U. (2001). Biomagnification of organochlorines along a Barents Sea food chain. *Environ Pollut*, 113(2), 187-198. doi:10.1016/s0269-7491(00)00171-8
- Born, E. W., Teilmann, J., Acquarone, M., & Riget, F. F. (2004). Habitat use of ringed seals (*Phoca hispida*) in the North Water Area (North Baffin Bay). *Arctic*, 57(2), 129-142.
- Borsheim, K. Y., & Drinkwater, K. F. (2014). Different temperature adaptation in Arctic and Atlantic heterotrophic bacteria in the Barents Sea Polar Front region. *Journal of Marine Systems*, 130, 160-166. doi:10.1016/j.jmarsys.2012.09.007
- Borsheim, K. Y., Milutinovic, S., & Drinkwater, K. F. (2014). TOC and satellite-sensed chlorophyll and primary production at the Arctic Front in the Nordic Seas. *Journal of Marine Systems*, 139, 373-382. doi:10.1016/j.jmarsys.2014.07.012
- Bouchard, C., & Fortier, L. (2008). Effects of polynyas on the hatching season, early growth and survival of Polar cod *Boreogadus saida* in the Laptev Sea. *Marine Ecology Progress Series*, 355, 247-256. doi:10.3354/meps07335
- Bouchard, C., & Fortier, L. (2011). Circum-arctic comparison of the hatching season of polar cod *Boreogadus saida*: A test of the freshwater winter refuge hypothesis. *Progress in Oceanography*, 90(1-4), 105-116. doi:10.1016/j.pocean.2011.02.008
- Bouchard, C., Mollard, S., Suzuki, K., Robert, D., & Fortier, L. (2014). Contrasting the early life histories of sympatric Arctic gadids *Boreogadus saida* and *Arctogadus glacialis* in the Canadian Beaufort Sea. *Polar Biology*, 1-18.
- Bouchard, C., Robert, D., Nelson, R. J., & Fortier, L. (2013). The nucleus of the lapillar otolith discriminates the early life stages of *Boreogadus saida* and *Arctogadus glacialis*. *Polar Biology*, 36(10), 1537-1542. doi:10.1007/s00300-013-1371-z
- Boulva, J. (1979). Comparison of the Arctic cod (*Boreogadus saida*), the polar cod (*Arctogadus glacialis*) and the toothed cod (*Arctogadus borisovi*). *Quebec*, 79, 50.
- Bourgain, P., & Gascard, J. C. (2012). The Atlantic and summer Pacific waters variability in the Arctic Ocean from 1997 to 2008. *Geophys Res Lett*, 39. doi:10.1029/2012gl051045
- Bowering, W. R., & Nedreaas, K. H. (2000). A comparison of Greenland halibut (*Reinhardtius hippoglossoides* (Walbaum)) fisheries and distribution in the Northwest and Northeast Atlantic. *Sarsia*, 85(1), 61-76.
- Bradstreet, M. S. (1986). *Aspects of the biology of Arctic cod (Boreogadus saida) and its importance in Arctic marine food chains*: Department of Fisheries and Oceans, Central and Arctic Region.
- Braune, B. M., Gaston, A. J., Elliott, K. H., Provencher, J. F., Woo, K. J., Chambellant, M., . . . Letcher, R. J. (2014). Organohalogen contaminants and total mercury in forage fish preyed upon by thick-billed murres in

- northern Hudson Bay. *Mar Pollut Bull*, 78(1-2), 258-266. doi:10.1016/marpolbul.2013.11.003
- Breines, R., Ursvik, A., Nymark, M., Johansen, S. D., & Coucheron, D. H. (2008). Complete mitochondrial genome sequences of the Arctic Ocean codfishes *Arctogadus glacialis* and *Boreogadus saida* reveal oriL and tRNA gene duplications. *Polar Biology*, 31(10), 1245-1252. doi:10.1007/s00300-008-0463-7
- Breitbarth, E., Bellerby, R. J., Neill, C. C., Ardelan, M. V., Meyerhoefer, M., Zoellner, E., . . . Riebesell, U. (2010). Ocean acidification affects iron speciation during a coastal seawater mesocosm experiment. *Biogeosciences*, 7(3), 1065-1073.
- Brekke, B., & Gabrielsen, G. W. (1994). Assimilation efficiency of adult kittiwakes and Brunnich guillemots fed capelin and Arctic cod. *Polar Biology*, 14(4), 279-284.
- Brey, T. (2012). A multi-parameter artificial neural network model to estimate macrobenthic invertebrate productivity and production. *Limnology and Oceanography-Methods*, 10(8), 581-589. doi:10.4319/lom.2012.10.581
- Brodskiy, K. A., & Pavshchik, Y. A. (1977). Plankton of the central part of the Arctic basin (based on collections of the North Pole drifting stations). *Polar Geography* 1(2), 143-161. doi:DOI:10.1080/10889377709388621
- Brown, A., Busby, M., & Mier, K. (2001). Walleye pollock *Theragra chalcogramma* during transformation from the larval to juvenile stage: otolith and osteological development. *Marine Biology*, 139(5), 845-851.
- Brown, E. D. (2002). Life history, distribution, and size structure of Pacific capelin in Prince William Sound and the northern Gulf of Alaska. *ICES Journal of Marine Science: Journal du Conseil*, 59(5), 983-996.
- Bucklin, A., Hopcroft, R. R., Kosobokova, K. N., Nigro, L. M., Ortman, B. D., Jennings, R. M., & Sweetman, C. J. (2010). DNA barcoding of Arctic Ocean holozooplankton for species identification and recognition. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 57(1-2), 40-48. doi:10.1016/j.dsr2.2009.08.005
- Campbell, L. M., Norstrom, R. J., Hobson, K. A., Muir, D. C. G., Backus, S., & Fisk, A. T. (2005). Mercury and other trace elements in a pelagic Arctic marine food web (Northwater Polynya, Baffin Bay). *Science of the Total Environment*, 351, 247-263. doi:10.1016/j.scitotenv.2005.02.043
- Canadian Polar Commission. (2014). *The State of Northern Knowledge in Canada*. Retrieved from
- Carmack, E., & McLaughlin, F. (2011). Towards recognition of physical and geochemical change in Subarctic and Arctic Seas. *Progress in Oceanography*, 90(1-4), 90-104. doi:10.1016/j.pocean.2011.02.007
- Carmack, E., & Wassmann, P. (2006). Food webs and physical-biological coupling on pan-Arctic shelves: unifying concepts and comprehensive perspectives. *Progress in Oceanography*, 71(2), 446-477.
- Carothers, C., Cotton, S., & Moerlein, K. (2013). *Subsistence Use and Knowledge of Salmon in Barrow and Nuiqsut, Alaska*. Retrieved from Fairbanks: http://www.boem.gov/BOEM-Newsroom/Library/Publications/2013/BOEM-2013-0015_pdf.aspx
- Carscadden, J. E., Gjøsæter, H., & Vilhjálmsson, H. (2013). A comparison of recent changes in distribution of capelin (*Mallotus villosus*) in the Barents Sea, around Iceland and in the Northwest Atlantic. *Progress in Oceanography*, 114, 64-83.
- Carscadden, J. E., Gjøsæter, H., & Vilhjálmsson, H. (2013). Recruitment in the Barents Sea, Icelandic, and eastern Newfoundland/Labrador capelin (*Mallotus villosus*) stocks. *Progress in Oceanography*, 114, 84-96.
- Certain, G., & Planque, B. (2014). Geographical species distribution in the Barents Sea under climate change-results from the BarEcoRe project.
- Chambellant, M., Stirling, I., & Ferguson, S. H. (2013). Temporal variation in western Hudson Bay ringed seal *Phoca hispida* diet in relation to environment. *Marine Ecology Progress Series*, 481, 269-+. doi:10.3354/meps10134
- Chambers, C. A., & Dick, T. A. (2007). Using environmental variables to predict the structure of deep-sea Arctic fish communities: implications for food web construction. *Arctic, Antarctic, and Alpine Research*, 39(1), 2-8.
- Cheng, W., Curchitser, E., Ladd, C., Stabeno, P., & Wang, M. (2014). Influences of sea ice on the Eastern Bering Sea: NCAR CESM simulations and comparison with observations. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 27-38. doi:10.1016/j.dsr2.2014.03.002
- Chernova, N. (2017). Catching of Greenland halibut *Reinhardtius hippoglossoides* (Pleuronectidae) on the shelf edge of the Laptev and East Siberian Seas. *Journal of Ichthyology*, 57(2), 219-227.
- Chernova, N. V., & Neyelov, A. V. (1995). Fish caught in the Laptev Sea during the cruise of RV "Polarstern" in 1993. *Ber. Polarforsch*, 176, 222-227., 176, 222-227.
- Chernova, N. V., Friedlander, A. M., Turchik, A., & Sala, E. (2014). Franz Josef Land: extreme northern outpost for Arctic fishes. *PeerJ*, 2. doi:10.7717/peerj.692

- Cheung, W. W., Lam, V. W., & Pauly, D. (2008). Dynamic bioclimate envelope model to predict climate-induced changes in distribution of marine fishes and invertebrates. *Modelling present and climate-shifted distributions of marine fishes and invertebrates. Fisheries Centre Research Reports*, 16(3), 5-50.
- Cheung, W. W. L., Lam, V. W. Y., Sarmiento, J. L., Kearney, K., Watson, R., Zeller, D., & Pauly, D. (2010). Large-scale redistribution of maximum fisheries catch potential in the global ocean under climate change. *Glob Chang Biol*, 16(1), 24-35. doi:10.1111/j.1365-2486.2009.01995.x
- Chierici, M., Drange, H., Anderson, L. G., & Johannessen, T. (1999). Inorganic carbon fluxes through the boundaries of the Greenland Sea Basin based on in situ observations and water transport estimates. *Journal of Marine Systems*, 22(4), 295-309. doi:10.1016/s0924-7963(99)00069-x
- Chierici, M., & Fransson, A. (2009). Calcium carbonate saturation in the surface water of the Arctic Ocean: undersaturation in freshwater influenced shelves. *Biogeosciences*, 6(11), 2421-2431. doi:doi:10.5194/bg-6-2421-2009
- Chierici, M., Fransson, A., & Anderson, L. G. (1999). Influence of m-cresol purple indicator additions on the pH of seawater samples: correction factors evaluated from a chemical speciation model. *Marine Chemistry*, 65(3-4), 281-290. doi:10.1016/s0304-4203(99)00020-1
- Chierici, M., Fransson, A., Lansard, B., Miller, L. A., Mucci, A., Shadwick, E., . . . Papakyriakou, T. N. (2011). Impact of biogeochemical processes and environmental factors on the calcium carbonate saturation state in the Circumpolar Flaw Lead in the Amundsen Gulf, Arctic Ocean. *Journal of Geophysical Research-Oceans*, 116. doi:10.1029/2011jc007184
- Chierici, M., Fransson, A., & Nojiri, Y. (2006). Biogeochemical processes as drivers of surface fCO₂ in contrasting provinces in the subarctic North Pacific Ocean. *Global Biogeochemical Cycles*, 20(1). doi:10.1029/2004gb002356
- Chierici, M., Fransson, A., Turner, D. R., Pakhomov, E. A., & Froneman, P. W. (2004). Variability in pH, fCO₂, oxygen and flux of CO₂ in the surface water along a transect in the Atlantic sector of the Southern Ocean. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 51(22-24), 2773-2787. doi:10.1016/j.dsr2.2001.03.002
- Chierici, M., Miller, L. A., Whitney, F. A., Johnson, K. W., & Wong, C. S. (2005). Biogeochemical evolution of the carbon dioxide system in the waters of long-lived mesoscale eddies in the Northeast Pacific Ocean. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 52(7-8), 955-974. doi:10.1016/j.dsr2.2005.01.001
- Chierici, M., Olsen, A., Johannessen, T., Trinanes, J., & Wanninkhof, R. (2009). Algorithms to estimate the carbon dioxide uptake in the northern North Atlantic using shipboard observations, satellite and ocean analysis data. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 56(8-10), 630-639. doi:10.1016/j.dsr2.2008.12.014
- Chierici, M., Signorini, S. R., Mattsdotter-Bjork, M., Fransson, A., & Olsen, A. (2012). Surface water fCO₂ algorithms for the high-latitude Pacific sector of the Southern Ocean. *Remote Sensing of Environment*, 119, 184-196. doi:10.1016/j.rse.2011.12.020
- Chiperzak, D., Saurette, F., & Raddi, P. (1995). First record of Greenland halibut (*Reinhardtius hippoglossoides*) in the Beaufort Sea (Arctic Ocean). *Arctic*, 368-371.
- Choy, E. S. (2014). Examining the Health and Energetic Impacts of Climate-Induced Prey Shifts on Beluga Whales Using Community-Based Research. *Arctic*, 67(4), 570-573.
- Christiansen, J. S. (2017). No future for Euro-Arctic ocean fishes? *Marine Ecology Progress Series*, 575, 217-227.
- Christiansen, J. S., Bonsdorff, E., Byrkjedal, I., Fevolden, S. E., Karamushko, O. V., Lynghammar, A., . . . Wienerroither, R. M. (2016). Novel biodiversity baselines outpace models of fish distribution in Arctic waters. *Science of Nature*, 103(1-2). doi:10.1007/s00114-016-1332-9
- Christiansen, J. S., Dalmo, R. A., & Ingebrigtsen, K. (1996). Xenobiotic excretion in fish with aglomerular kidneys. *Marine Ecology Progress Series*, 136(1-3), 303-304. doi:10.3354/meps136303
- Christiansen, J. S., & Fevolden, S. E. (2000). The polar cod of Porsangerfjorden, Norway; revisited. *Sarsia*, 85(3), 189-193.
- Christiansen, J. S., & George, S. G. (1995). Contamination of food by crude-oil affects food selection and growth-performance, but not appetite, in an Arctic fish, the polar cod (*Boreogadus-saida*). *Polar Biology*, 15(4), 277-281.
- Christiansen, J. S., Gildberg, A., Nilssen, K. T., Lindblom, C., & Haug, T. (2004). The gastric properties of free-ranging

- harp (*Pagophilus groenlandicus* (Erxleben, 1777)) and hooded (*Cystophora cristata* (Erxleben, 1777)) seals. *ICES Journal of Marine Science*, 61(2), 287-292. doi:10.1016/j.icesjms.2004.01.002
- Christiansen, J. S., Hop, H., Nilssen, E. M., & Joensen, J. (2012). Trophic ecology of sympatric Arctic gadoids, *Arctogadus glacialis* (Peters, 1872) and *Boreogadus saida* (Lepechin, 1774), in NE Greenland. *Polar Biology*, 35(8), 1247-1257. doi:10.1007/s00300-012-1170-y
- Christiansen, J. S., Karamushko, L. I., & Nahrgang, J. (2010). Sub-lethal levels of waterborne petroleum may depress routine metabolism in polar cod *Boreogadus saida* (Lepechin, 1774). *Polar Biology*, 33(8), 1049-1055. doi:10.1007/s00300-010-0783-2
- Christiansen, J. S., Mecklenburg, C. W., & Karamushko, O. V. (2014). Arctic marine fishes and their fisheries in light of global change. *Glob Chang Biol*, 20(2), 352-359. doi:10.1111/gcb.12395
- Christiansen, J. S., Moen, A. G. G., Hansen, T. H., & Nilssen, K. T. (2005). Digestion of capelin, *Mallotus villosus* (Muller), herring, *Clupea harengus* L., and polar cod, *Boreogadus saida* (Lepechin), otoliths in a simulated seal stomach. *ICES Journal of Marine Science*, 62(1), 86-92. doi:10.1016/j.icesjms.2004.06.022
- Christiansen, J. S., Reist, J. D., Brown, R. J., Brykov, V. A., Christensen, G., Christoffersen, K., . . . Wrona, F. J. (2013). Fishes. In H. Meltofte, A. B. Josefson, & D. Payer (Eds.), *Arctic Biodiversity Assessment: Status and trends in Arctic biodiversity* (pp. 193-245). Akureyri: Conservation of Arctic Flora and Fauna [CAFF]
- Citta, J. J., Quakenbush, L. T., Okkonen, S. R., Druckenmiller, M. L., Maslowski, W., Clement-Kinney, J., . . . Heide-Jørgensen, M. P. (2014). Ecological characteristics of core-use areas used by Bering-Chukchi-Beaufort (BCB) bowhead whales, 2006-2012. *Progress in Oceanography*. doi: http://dx.doi.org/10.1016/j.pocean.2014.08.012.
- Citta, J. J., Suydam, R. S., Quakenbush, L. T., Frost, K. J., & O'Corry-Crowe, G. M. (2013). Dive Behavior of Eastern Chukchi Beluga Whales (*Delphinapterus leucas*), 1998-2008. *Arctic*, 66(4), 389-406.
- Clarke, J. T., Brower, A. A., Christman, C. L., & Ferguson, M. C. (2014). *Distribution and Relative Abundance of Marine Mammals in the Northeastern Chukchi and Western Beaufort Seas, 2013*. Retrieved from Seattle, WA: http://www.boem.gov/uploadedFiles/BOEM/BOEM_Newsroom/Library/Publications/BOEM_2014-018-Clarke.pdf
- Clarke, J. T., Christman, C. L., Brower, A. A., & Ferguson, M. C. (2012). *Distribution and Relative Abundance of Marine Mammals in the Alaskan Chukchi and Beaufort Seas, 2011*. Retrieved from Seattle, WA: <https://www.afsc.noaa.gov/nmml/PDF/COMIDA-2011-Report.pdf>
- Clarke, J. T., Christman, C. L., Brower, A. A., & Ferguson, M. C. (2013). *Distribution and Relative Abundance of Marine Mammals in the Northeastern Chukchi and Western Beaufort Seas, 2012*. Retrieved from Seattle, WA: http://www.boem.gov/BOEM-Newsroom/Library/Publications/2013/BOEM_2013_00117_pdf.aspx
- Clarke, J. T., Christman, C. L., Brower, A. A., Ferguson, M. C., & Grassia, S. L. (2011). *Aerial surveys of endangered whales in the Beaufort Sea, fall 2010*. Retrieved from Seattle, WA: <http://www.afsc.noaa.gov/nmml/pdf/comida-2010-report.pdf>
- Clarke, J. T., Christman, C. L., Ferguson, M. C., & Grassia, S. L. (2011). *Aerial surveys of endangered whales in the Beaufort Sea, fall 2006-2008*. Retrieved from Seattle, WA: <http://www.afsc.noaa.gov/nmml/PDF/BWASP-2006-2008-Report.pdf>
- Clarke, J. T., Christman, C. L., Ferguson, M. C., Grassia, S. L., & Brower, A. A. (2011). *Aerial surveys of endangered whales in the Beaufort Sea, fall 2009*. Retrieved from Seattle, WA: http://www.boem.gov/BOEM-Newsroom/Library/Publications/2010/2010_040.aspx
- Clarke, J. T., Ferguson, M. C., Christman, C. L., Grassia, S. L., Brower, A. A., & Morse, L. J. (2011). *Chukchi Offshore Monitoring in Drilling Area (COMIDA), Distribution and Relative Abundance of Marine Mammals: Aerial Surveys*. Retrieved from Seattle, WA: <http://www.afsc.noaa.gov/nmml/PDF/COMIDA-2008-2010-Report.pdf>
- Cleemann, M., Riget, F., Paulsen, G. B., Klungsoyr, J., & Dietz, R. (2000). Organochlorines in Greenland marine fish, mussels and sediments. *Science of the Total Environment*, 245(1-3), 87-102. doi:10.1016/s0048-9697(99)00435-0
- Coad, B. W., & Reist, J. D. (2004). *Annotated list of the Arctic marine fishes of Canada*. Retrieved from Winnipeg, MB <http://www.dfo-mpo.gc.ca/Library/278854.pdf>
- Coad, B. W., Waszczuk, H., & Labignan, I. (1995). *Encyclopedia of Canadian fishes*: Canadian Museum of Nature; Canadian Sportfishing Productions.
- Cokelet, E. D., Tervalon, N., & Bellingham, J. G. (2008). Hydrography of the West Spitsbergen Current, Svalbard Branch:

- Autumn 2001. *Journal of Geophysical Research-Oceans*, 113(C1). doi:10.1029/2007jc004150
- Comiso, J. C. (2012). Large decadal decline of the Arctic multiyear ice cover. *Journal of Climate*, 25(4), 1176-1193. doi:10.1175/jcli-d-11-00113.1
- Conlan, K. E., Lenihan, H. S., Kvitek, R. G., & Oliver, J. S. (1998). Ice scour disturbance to benthic communities in the Canadian High Arctic. *Marine Ecology Progress Series*, 166, 1-16. doi:10.3354/meps166001
- Conservation of Arctic Flora and Fauna. (2013). *Arctic Biodiversity Assessment: Status and trends in Arctic biodiversity*. Retrieved from Akureyri:
- Convention on Biological Diversity. (2014). *Data to Inform the Arctic Regional Workshop to Facilitate the Description of Ecologically or Biologically Significant Marine Areas*. Paper presented at the Arctic Regional Workshop to facilitate the description of ecologically or biologically significant marine areas, Helsinki. <http://www.cbd.int/doc/meetings/mar/ebsaws-2014-01/official/ebsaws-2014-01-03-en.pdf>
- Cooper, L. W., Janout, M. A., Frey, K. E., Pirtle-Levy, R., Guarinello, M. L., Grebmeier, J. M., & Lovvorn, J. R. (2012). The relationship between sea ice break-up, water mass variation, chlorophyll biomass, and sedimentation in the northern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 141-162. doi:10.1016/j.dsr2.2012.02.002
- Cooper, L. W., Sexson, M. G., Grebmeier, J. M., Gradinger, R., Mordy, C. W., & Lovvorn, J. R. (2013). Linkages between sea-ice coverage, pelagic-benthic coupling, and the distribution of spectacled eiders: Observations in March 2008, 2009 and 2010, northern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 31-43. doi:10.1016/j.dsr2.2013.03.009
- Cotton, S. S. (2012). *Subsistence salmon fishing in Beaufort Sea communities*.
- Coucheron, D. H., Nymark, M., Breines, R., Karlsen, B. O., Andreassen, M., Jorgensen, T. E., . . . Johansen, S. D. (2011). Characterization of mitochondrial mRNAs in codfish reveals unique features compared to mammals. *Current Genetics*, 57(3), 213-222. doi:10.1007/s00294-011-0338-2
- Cózar, A., Martí, E., Duarte, C. M., García-de-Lomas, J., Van Sebille, E., Ballatore, T. J., . . . Echevarría, F. (2017). The Arctic Ocean as a dead end for floating plastics in the North Atlantic branch of the Thermohaline Circulation. *Science Advances*, 3(4), e1600582.
- Craig, P., Griffiths, W., Haldorson, L., & McElderry, H. (1982). Ecological studies of Arctic cod (*Boreogadus saida*) in Beaufort Sea coastal waters, Alaska. *Canadian Journal of Fisheries and Aquatic Sciences*, 39(3), 395-406.
- Craig, P., & Haldorson, L. (1979). Beaufort Sea Barrier Island-Lagoon Ecological Process Studies. Ecology of Fishes in Simpson Lagoon, Beaufort Sea, Alaska. *Environmental Assessment of the Alaskan Continental Shelf. Annual Reports of Principal Investigators for year ending March 1979*, 6.
- Craig, P. C. (1984). Fish use of coastal waters of the Alaskan Beaufort Sea - a review. *Transactions of the American Fisheries Society*, 113(3), 265-282. doi:10.1577/1548-8659(1984)113<265:fuocwo>2.0.co;2
- Craig, P. C., Griffiths, W. B., Haldorson, L., & McElderry, H. (1982). Ecological-studies of Arctic cod (*Boreogadus-saida*) in beaufort sea coastal waters, Alaska. *Canadian Journal of Fisheries and Aquatic Sciences*, 39(3), 395-406.
- Crawford, J. A., Frost, K. J., Quakenbush, L. T., & Whiting, A. (2012). Different habitat use strategies by subadult and adult ringed seals (*Phoca hispida*) in the Bering and Chukchi seas. *Polar Biology*, 35(2), 241-255. doi:10.1007/s00300-011-1067-1
- Crawford, R. E., & Jorgenson, J. K. (1993). Schooling behavior of Arctic cod, *Boreogadus-saida*, in relation to drifting pack ice. *Environmental Biology of Fishes*, 36(4), 345-357. doi:10.1007/bf00012412
- Crawford, R. E., & Jorgenson, J. K. (1996). Quantitative studies of Arctic cod (*Boreogadus saida*) schools: Important energy stores in the Arctic food web. *Arctic*, 49(2), 181-193.
- Crawford, R. E., Vagle, S., & Carmack, E. C. (2012). Water mass and bathymetric characteristics of polar cod habitat along the continental shelf and slope of the Beaufort and Chukchi seas. *Polar Biology*, 35(2), 179-190. doi:10.1007/s00300-011-1051-9
- Cross, J. N., Mathis, J. T., & Bates, N. R. (2012). Hydrographic controls on net community production and total organic carbon distributions in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 98-109. doi:10.1016/j.dsr2.2012.02.003
- Cross, J. N., Mathis, J. T., Lomas, M. W., Moran, S. B., Baumann, M. S., Shull, D. H., . . . Grebmeier, J. M. (2014). Integrated assessment of the carbon budget in the southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 112-124. doi:10.1016/j.dsr2.2014.03.003

- Cui, X., Grebmeier, J. M., & Cooper, L. W. (2012). Feeding ecology of dominant groundfish in the northern Bering Sea. *Polar Biology*, 35(9), 1407-1419. doi:10.1007/s00300-012-1180-9
- Cui, X., Grebmeier, J. M., Cooper, L. W., Lovvorn, J. R., North, C. A., Seaver, W. L., & Kolts, J. M. (2009). Spatial distributions of groundfish in the northern Bering Sea in relation to environmental variation. *Marine Ecology Progress Series*, 393, 147-160. doi:10.3354/meps08275
- Dahl, T. M., Lydersen, C., Kovacs, K. M., Falk-Petersen, S., Sargent, J., Gjertz, I., & Gulliksen, B. (2000). Fatty acid composition of the blubber in white whales (*Delphinapterus leucas*). *Polar Biology*, 23(6), 401-409. doi:10.1007/s003000050461
- Dalen, J., & Grahl-Madsen, M. (2005). Revised plans for "Multi-usage system for towed vehicles" per September 2005 (pp. 1-17): Institute of Marine Research and the University College of Bergen.
- Dalpadado, P., Arrigo, K. R., Hjollo, S. S., Rey, F., Ingvaldsen, R. B., Sperfeld, E., . . . Ottersen, G. (2014). Productivity in the Barents Sea - Response to recent climate variability. *PLoS One*, 9(5). doi:10.1371/journal.pone.0095273
- Dalpadado, P., Ingvaldsen, R., & Hassel, A. (2003). Zooplankton biomass variation in relation to climatic conditions in the Barents Sea. *Polar Biology*, 26(4), 233-241. doi:10.1007/s00300-002-0470-z
- Dalpadado, P., Ingvaldsen, R. B., Stige, L. C., Bogstad, B., Knutsen, T., Ottersen, G., & Ellertsen, B. (2012). Climate effects on Barents Sea ecosystem dynamics. *ICES Journal of Marine Science*, 69(7), 1303-1316. doi:10.1093/icesjms/fss063
- Datsky, A. (2015). Fish fauna of the Chukchi Sea and perspectives of its commercial use. *Journal of Ichthyology*, 55(2), 185-209.
- Daufresne, M., Lengfellner, K., & Sommer, U. (2009). Global warming benefits the small in aquatic ecosystems. *Proc Natl Acad Sci U S A*, 106(31), 12788-12793. doi:10.1073/pnas.0902080106
- Davenport, E. S., Shull, D. H., & Devol, A. H. (2012). Roles of sorption and tube-dwelling benthos in the cycling of phosphorus in Bering Sea sediments. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 163-172. doi:10.1016/j.dsr2.2012.02.004
- David, C., Lange, B., Krumpen, T., Schaafsma, F., van Franeker, J. A., & Flores, H. (2016). Under-ice distribution of polar cod *Boreogadus saida* in the central Arctic Ocean and their association with sea-ice habitat properties. *Polar Biology*, 39(6), 981-994. doi:10.1007/s00300-015-1774-0
- Dawe, E. G., Dalley, E. L., & Lidster, W. W. (1997). Fish prey spectrum of short-finned squid (*Illex illecebrosus*) at Newfoundland. *Canadian Journal of Fisheries and Aquatic Sciences*, 54, 200-208. doi:10.1139/cjfas-54-S1-200
- Day, R. H., Weingartner, T. J., Hopcroft, R. R., Aerts, L. A. M., Blanchard, A. L., Gall, A. E., . . . Wisdom, S. S. (2013). The offshore northeastern Chukchi Sea, Alaska: A complex high-latitude ecosystem. *Continental Shelf Research*, 67(S1), 147-165. doi:10.1016/j.csr.2013.02.002
- De Forest, L., Duffy-Anderson, J. T., Heintz, R. A., Matarese, A. C., Siddon, E. C., Smart, T. I., & Spies, I. B. (2014). Taxonomy of the early life stages of arrowtooth flounder (*Atheresthes stomias*) and Kamchatka flounder (*A. evermanni*) in the eastern Bering Sea, with notes on distribution and condition. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 181-189. doi:10.1016/j.dsr2.2014.05.005
- De Robertis, A., & Cokelet, E. D. (2012). Distribution of fish and macrozooplankton in ice-covered and open-water areas of the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 217-229. doi:10.1016/j.dsr2.2012.02.005
- De Robertis, A., Taylor, K., Wilson, C. D., & Farley, E. V. (2016). Abundance and distribution of Arctic cod (*Boreogadus saida*) and other pelagic fishes over the US Continental Shelf of the Northern Bering and Chukchi Seas. *Deep Sea Research Part II: Topical Studies in Oceanography*.
- Dee, D. P., Uppala, S. M., Simmons, A. J., Berrisford, P., Poli, P., Kobayashi, S., . . . Vitart, F. (2011). The ERA-Interim reanalysis: configuration and performance of the data assimilation system. *Quarterly Journal of the Royal Meteorological Society*, 137(656), 553-597. doi:10.1002/qj.828
- Demel, K., & Rutkiewicz, S. (1966). *The Barents Sea (Morze Barentsa)*. Warsaw: Scientific Publications Foreign Cooperation Center of the Central Institute for Scientific, Technical and Economic Information.
- Dennard, S. T., MacNeil, M. A., Treble, M. A., Campana, S., & Fisk, A. T. (2009). Hierarchical analysis of a remote, Arctic, artisanal longline fishery. *ICES Journal of Marine Science: Journal du Conseil*, fsp220.
- Dickson, A. G., Sabine, C. L., & Christian, J. R. (2007). *Guide to best practices for ocean CO₂ measurements*. Retrieved from http://cdiac.ornl.gov/oceans/Handbook_2007.html

- Dittmera, J., Moisiob, S., Ingrama, A., & Dodds, K. (2011). Have you heard the one about the disappearing ice? Recasting Arctic geopolitics. *Political Geography*, 30(4), 202-214. doi:10.1016/j.polgeo.2011.04.002
- Divine, L. M., Iken, K., & Bluhm, B. A. (2015). Regional benthic food web structure on the Alaska Beaufort Sea shelf. *Marine Ecology Progress Series*, 531, 15-32. doi:10.3354/meps11340
- Dmitrenko, I. A., Kirillov, S. A., Ivanov, V. V., Woodgate, R. A., Polyakov, I. V., Koldunov, N., . . . Timokhov, L. A. (2009). Seasonal modification of the Arctic Ocean intermediate water layer off the eastern Laptev Sea continental shelf break. *Journal of Geophysical Research-Oceans*, 114. doi:10.1029/2008jc005229
- Dmitrenko, I. A., Kirillov, S. A., Serra, N., Koldunov, N. V., Ivanov, V. V., Schauer, U., . . . Aksenov, Y. (2014). Heat loss from the Atlantic water layer in the northern Kara Sea: causes and consequences. *Ocean Science*, 10(4), 719-730. doi:10.5194/os-10-719-2014
- Dmitrenko, I. A., Polyakov, I. V., Kirillov, S. A., Timokhov, L. A., Frolov, I. E., Sokolov, V. T., . . . Walsh, D. (2008). Toward a warmer Arctic Ocean: Spreading of the early 21st century Atlantic Water warm anomaly along the Eurasian Basin margins. *Journal of Geophysical Research-Oceans*, 113(C5). doi:10.1029/2007jc004158
- Dmitrenko, I. A., Polyakov, I. V., Kirillov, S. A., Timokhov, L. A., Simmons, H. L., Ivanov, V. V., & Walsh, D. (2006). Seasonal variability of Atlantic water on the continental slope of the Laptev Sea during 2002-2004. *Earth and Planetary Science Letters*, 244(3-4), 735-743. doi:10.1016/j.epsl.2006.01.067
- Dodds, K. (2010). Flag planting and finger pointing: The Law of the Sea, the Arctic and the political geographies of the outer continental shelf. *Political Geography*, 29(2), 63-73. doi:10.1016/j.polgeo.2010.02.004
- Dolgov, A., Drevetnyak, K., & Gusev, E. (2005). The status of skate stocks in the Barents Sea. *Journal of Northwest Atlantic Fishery Science*, 35, 1-13.
- Dolgov, A., Grekov, A., Shestopal, I., & Sokolov, K. (2005). By-catch of skates in trawl and long-line fisheries in the Barents Sea. *Journal of Northwest Atlantic Fishery Science*, 35, 357-366.
- Dolgov, A., Smirnov, O., Drevetnyak, K., & Chetyrkina, O. Y. (2009). New data on composition and structure of the Kara Sea ichthyofauna. *ICES CM*.
- Doroshev, S. I., & Aronovich, T. M. (1974). Effects of salinity on embryonic and larval development of *Eleginus-navaga* (Pallas), *Boreogadus-saida* (Lepechin) and *Liopsetta-glacialis* (pallas). *Aquaculture*, 4(4), 353-362. doi:10.1016/0044-8486(74)90064-7
- Dove, D., Coakley, B., Hopper, J., Kristoffersen, Y., & Team, H. L. Y. G. (2010). Bathymetry, controlled source seismic and gravity observations of the Mendeleev ridge; implications for ridge structure, origin, and regional tectonics. *Geophysical Journal International*, 183(2), 481-502. doi:10.1111/j.1365-246X.2010.04746.x
- Doyle, M. J., Busby, M. S., Duffy-Anderson, J. T., Picquelle, S. J., & Matarese, A. C. (2002). Early life history of capelin (*Mallotus villosus*) in the northwest Gulf of Alaska: a historical perspective based on larval collections, October 1977–March 1979. *ICES Journal of Marine Science: Journal du Conseil*, 59(5), 997-1005.
- Drinkwater, K. (2009). Comparison of the response of Atlantic cod (*Gadus morhua*) in the high-latitude regions of the North Atlantic during the warm periods of the 1920s-1960s and the 1990s-2000s. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 56(21-22), 2087-2096. doi:10.1016/j.dsr2.2008.12.001
- Drinkwater, K., Colbourne, E., Loeng, H., Sundby, S., & Kristiansen, T. (2013). Comparison of the atmospheric forcing and oceanographic responses between the Labrador Sea and the Norwegian and Barents seas. *Progress in Oceanography*, 114, 11-25. doi:10.1016/j.pocean.2013.03.007
- Drinkwater, K., & Tande, K. (2014). Biophysical studies of the Polar Front in the Barents Sea and the Arctic Front in the Norwegian Sea: Results from the NESSAR Project. *Journal of Marine Systems*, 130, 131-133. doi:10.1016/j.jmarsys.2013.11.011
- Drinkwater, K. F. (2005). The response of Atlantic cod (*Gadus morhua*) to future climate change. *ICES Journal of Marine Science*, 62(7), 1327-1337. doi:10.1016/j.icejms.2005.05.015
- Drinkwater, K. F. (2006). The regime shift of the 1920s and 1930s in the North Atlantic. *Progress in Oceanography*, 68(2-4), 134-151. doi:10.1016/j.pocean.2006.02.011
- Drinkwater, K. F. (2011). The influence of climate variability and change on the ecosystems of the Barents Sea and adjacent waters: Review and synthesis of recent studies from the NESSAS Project. *Progress in Oceanography*, 90(1-4), 47-61. doi:10.1016/j.pocean.2011.02.006
- Drinkwater, K. F., Beaugrand, G., Kaeriyama, M., Kim, S., Ottersen, G., Perry, R. I., . . . Takasuka, A. (2010). On the processes linking climate to ecosystem changes. *Journal of Marine Systems*, 79(3-4), 374-388.

doi:10.1016/j.jmarsys.2008.12.014

- Drinkwater, K. F., Hunt, G. L., Jr., Astthorsson, O. S., & Head, E. J. H. (2012). Comparative studies of climate effects on polar and subpolar ocean ecosystems, progress in observation and prediction: an introduction. *Ices Journal of Marine Science*, 69(7), 1120-1122. doi:10.1093/icesjms/fss126
- Drinkwater, K. F., Miles, M., Medhaug, I., Ottera, O. H., Kristiansen, T., Sundby, S., & Gao, Y. (2014). The Atlantic Multidecadal Oscillation: Its manifestations and impacts with special emphasis on the Atlantic region north of 60 degrees N. *Journal of Marine Systems*, 133, 117-130. doi:10.1016/j.jmarsys.2013.11.001
- Drobysheva, S. S. (1959). The effect of some aspects of the biology of Euphasiacea upon the summer feeding conditions for cod in the Barents Sea *Translation series (Fisheries Research Board of Canada)*; 224 18.
- Drolet, R., Fortier, L., Ponton, D., & Gilbert, M. (1991). Production of fish larvae and their prey in sub-Arctic southeastern Hudson Bay. *Marine Ecology Progress Series*, 77(2-3), 105-118. doi:10.3354/meps077105
- Drost, H. E., Carmack, E. C., & Farrell, A. P. (2014). Upper thermal limits of cardiac function for Arctic cod *Boreogadus saida*, a key food web fish species in the Arctic Ocean. *J Fish Biol*, 84(6), 1781-1792. doi:10.1111/jfb.12397
- Duffy, J. E., Amaral-Zettler, L. A., Fautin, D. G., Paulay, G., Rynearson, T. A., Sosik, H. M., & Stachowicz, J. J. (2013). Envisioning a Marine Biodiversity Observation Network. *Bioscience*, 63(5), 350-361. doi:10.1525/bio.2013.63.5.8
- Dunmall, K., Reist, J., Carmack, E., Babaluk, J., Heide-Jørgensen, M., & Docker, M. (2013). Pacific salmon in the Arctic: harbingers of change. *Responses of Arctic marine ecosystems to climate change. Edited by FJ Mueter, DMS Dickson, HP Huntington, JR Irvine, EA Logerwell, SA MacLean, LT Quakenbush, and C. Rosa. doi, 10.*
- Dunn, J. R., & Matarese, A. C. (1987). A review of the early life history of northeast Pacific gadoid fishes. *Fisheries Research*, 5(2), 163-184.
- Dunton, K. H., Weingartner, T., & Carmack, E. C. (2006). The nearshore western Beaufort Sea ecosystem: Circulation and importance of terrestrial carbon in arctic coastal food webs. *Progress in Oceanography*, 71(2-4), 362-378. doi:10.1016/j.pocean.2006.09.011
- Dussauze, M., Camus, L., Le Floch, S., Pichavant-Rafini, K., Geraudie, P., Coquille, N., . . . Theron, M. (2014). Impact of dispersed fuel oil on cardiac mitochondrial function in polar cod *Boreogadus saida*. *Environmental Science and Pollution Research*, 21(24), 13779-13788. doi:10.1007/s11356-014-2618-0
- Edvardsen, A., Zhou, M., Tande, K. S., & Zhu, Y. W. (2002). Zooplankton population dynamics: measuring in situ growth and mortality rates using an Optical Plankton Counter. *Marine Ecology Progress Series*, 227, 205-219. doi:10.3354/meps227205
- Edwards, M., & Richardson, A. J. (2004). Impact of climate change on marine pelagic phenology and trophic mismatch. *Nature*, 430(7002), 881-884. doi:10.1038/nature02808
- Eicken, H., Kaufman, M., Krupnik, I., Pulsifer, P., & Apangalook, L. (2014). A framework and database for community sea ice observations in a changing Arctic: an Alaskan prototype for multiple users. *Polar Geography*, 37(1), 5-27. doi:http://dx.doi.org/10.1080/1088937X.2013.873090
- Eisner, L., Hillgruber, N., Martinson, E., & Maselko, J. (2013). Pelagic fish and zooplankton species assemblages in relation to water mass characteristics in the northern Bering and southeast Chukchi seas. *Polar Biology*, 36(1), 87-113. doi:10.1007/s00300-012-1241-0
- Eisner, L. B., Napp, J. M., Mier, K. L., Pinchuk, A. I., & Andrews, A. G., III. (2014). Climate-mediated changes in zooplankton community structure for the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 157-171. doi:10.1016/j.dsr2.2014.03.004
- Ellefsen, H., Grønabæk, L., & Ravn-Jonsen, L. (2017). On international fisheries agreements, entry deterrence, and ecological uncertainty. *Journal of Environmental Management*, 193, 118-125.
- Elliott, K. H., Woo, K. J., Gaston, A. J., Benvenuti, S., Dall'Antonia, L., & Davoren, G. K. (2009). Central place foraging in an Arctic seabird provides evidence for Storer-Ashmole's Halo. *Auk*, 126(3), 613-625. doi:10.1525/auk.2009.08245
- Erga, S. R., Ssebiyonga, N., Hamre, B., Frette, O., Hovland, E., Hancke, K., . . . Rey, F. (2014). Environmental control of phytoplankton distribution and photosynthetic performance at the Jan Mayen Front in the Norwegian Sea. *Journal of Marine Systems*, 130, 193-205. doi:10.1016/j.jmarsys.2012.01.006
- Erga, S. R., Ssebiyonga, N., Hamre, B., Frette, O., Rey, F., & Drinkwater, K. (2014). Nutrients and phytoplankton biomass distribution and activity at the Barents Sea Polar Front during summer near Hopen and Storbanken. *Journal*

- of *Marine Systems*, 130, 181-192. doi:10.1016/j.jmarsys.2012.12.008
- Erickson, J. R., & Moerland, T. S. (2003). Calcium-binding characteristics of parvalbumin isolated from the Arctic cod (*Boreogadus saida*). *Integr Comp Biol*, 43(6), 909-909.
- Erickson, J. R., & Moerland, T. S. (2006). Functional characterization of parvalbumin from the Arctic cod (*Boreogadus saida*): Similarity in calcium affinity among parvalbumins from polar teleosts. *Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology*, 143(2), 228-233. doi:10.1016/j.cbpa.2005.11.020
- Eriksen, E., Ingvaldsen, R., Stiansen, J. E., & Johansen, G. O. (2012). Thermal habitat for 0-group fish in the Barents Sea; how climate variability impacts their density, length, and geographic distribution. *ICES Journal of Marine Science*, 69(5), 870-879. doi:10.1093/icesjms/fsr210
- Eriksen, E., Skjoldal, H. R., Gjørseter, H., & Primicerio, R. (2017). Spatial and temporal changes in the Barents Sea pelagic compartment during the recent warming. *Progress in Oceanography*.
- Esch, M. E. S., Shull, D. H., Devol, A. H., & Moran, S. B. (2013). Regional patterns of bioturbation and iron and manganese reduction in the sediments of the southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 80-94. doi:10.1016/j.dsr2.2013.04.004
- Fabry, V. J., Seibel, B. A., Feely, R. A., & Orr, J. C. (2008). Impacts of ocean acidification on marine fauna and ecosystem processes. *ICES Journal of Marine Science*, 65(3), 414-432. doi:10.1093/icesjms/fsn048
- Fahrbach, E., Meincke, J., Osterhus, S., Rohardt, G., Schauer, U., Tverberg, V., & Verduin, J. (2001). Direct measurements of volume transports through Fram Strait. *Polar Research*, 20(2), 217-224. doi:10.1111/j.1751-8369.2001.tb00059.x
- Falardeau, M., Robert, D., & Fortier, L. (2014). Could the planktonic stages of polar cod and Pacific sand lance compete for food in the warming Beaufort Sea? *ICES Journal of Marine Science*, 71(7), 1956-1965. doi:10.1093/icesjms/fst221
- Falkpetersen, I. B., Frivoll, V., Gulliksen, B., & Haug, T. (1986). Occurrence and size age relations of Polar cod, *Boreogadus-saida* (Lepechin), in Spitsbergen coastal waters. *Sarsia*, 71(3-4), 235-245.
- Falk-Petersen, S., Haug, T., Hop, H., Nilssen, K. T., & Wold, A. (2009). Transfer of lipids from plankton to blubber of harp and hooded seals off East Greenland. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 56(21-22), 2080-2086. doi:10.1016/j.dsr2.2008.11.020
- Falk-Petersen, S., Haug, T., Nilssen, K. T., Wold, A., & Dahl, T. M. (2004). Lipids and trophic linkages in harp seal (*Phoca groenlandica*) from the eastern Barents Sea. *Polar Research*, 23(1), 43-50. doi:10.1111/j.1751-8369.2004.tb00128.x
- Falk-Petersen, S., Pavlov, V., Cottier, F., Berge, J., Kovacs, K., & Lydersen, C. (2014). At the rainbow's end—productivity hotspots due to upwelling along Arctic shelves. *Polar Biol.* doi, 10, 1007.
- Fall, J. A., Braem, N. S., Brown, C. L., Hutchinson-Scarborough, L. B., Koster, D. S., & Krieg, T. M. (2013). Continuity and change in subsistence harvests in five Bering Sea communities: Akutan, Emmonak, Savoonga, St. Paul, and Togiak. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 274-291. doi:10.1016/j.dsr2.2013.03.010
- Farley Jr, E. V., Murphy, J., Moss, J., Feldmann, A., & Eisner, L. (2009). Marine ecology of western Alaska juvenile salmon. *Pacific Salmon: Ecology and Management of Western Alaska's Populations*, 70, 307-329.
- Feder, H. M. (1977). Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound. *Environmental Assessment of the Alaskan Continental Shelf, Annual Reports of Principal Investigators for the year ending March 1977 Volume X. Receptors -Fish, Littoral, Benthos*, 452-482.
- Fer, I., & Drinkwater, K. (2014). Mixing in the Barents Sea Polar Front near Hopen in spring. *Journal of Marine Systems*, 130, 206-218. doi:10.1016/j.jmarsys.2012.01.005
- Fevolden, S. E., Martinez, I., & Christiansen, J. S. (1999). RAPD and scnDNA analyses of polar cod, *Boreogadus saida* (Pisces, Gadidae), in the North Atlantic. *Sarsia*, 84(2), 99-103.
- Field, C. B., Barros, V. R., Dokken, D. J., Mach, K. J., Mastrandrea, M. D., Bilir, T. E., . . . White, L. L. (2014). *Climate Change 2014: Impacts, Adaptation, and Vulnerability Part A: Global and Sectoral Aspects Working Group II Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. New York, NY: Cambridge University Press
- Fienup-Riordan, A., Brown, C., & Braem, N. M. (2013). The value of ethnography in times of change: The story of Emmonak. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 301-311.

doi:10.1016/j.dsr2.2013.04.005

- Filina, E., & Budanova, L. (2015). On the finding of mature individuals of the Greenland halibut *Reinhardtius hippoglossoides* (Pleuronectidae) in the Kara Sea. *Journal of Ichthyology*, 55(1), 138-142.
- Finley, K. J., Bradstreet, M. S. W., & Miller, G. W. (1990). Summer feeding ecology of harp seals (*Phoca-groenlandica*) in relation to Arctic cod (*Boreogadus-saida*) in the Canadian high Arctic. *Polar Biology*, 10(8), 609-618. doi:10.1007/bf00239372
- Folkow, L. P., & Blix, A. S. (1999). Diving behaviour of hooded seals (*Cystophora cristata*) in the Greenland and Norwegian Seas. *Polar Biology*, 22(1), 61-74. doi:10.1007/s003000050391
- Forland, E. J., Benestad, R., Hanssen-Bauer, I., Haugen, J. E., & Skaugen, T. E. (2011). Temperature and Precipitation Development at Svalbard 1900-2100. *Advances in Meteorology*. doi:10.1155/2011/893790
- Fortier, L., Gilbert, M., Ponton, D., Ingram, R. G., Robineau, B., & Legendre, L. (1996). Impact of freshwater on a subarctic coastal ecosystem under seasonal sea ice (southeastern Hudson Bay, Canada) .3. Feeding success of marine fish larvae. *Journal of Marine Systems*, 7(2-4), 251-265. doi:10.1016/0924-7963(95)00005-4
- Fortier, L., Ponton, D., & Gilbert, M. (1995). The match mismatch hypothesis and the feeding success of fish larvae in ice-covered southeastern Hudson Bay. *Marine Ecology Progress Series*, 120(1-3), 11-27. doi:10.3354/meps120011
- Fortier, L., Sirois, P., Michaud, J., & Barber, D. (2006). Survival of Arctic cod larvae (*Boreogadus saida*) in relation to sea ice and temperature in the Northeast Water Polynya (Greenland Sea). *Canadian Journal of Fisheries and Aquatic Sciences*, 63(7), 1608-1616. doi:10.1139/f06-064
- Fortier, M., Fortier, L., Hattori, H., Saito, H., & Legendre, L. (2001). Visual predators and the diel vertical migration of copepods under Arctic sea ice during the midnight sun. *Journal of Plankton Research*, 23(11), 1263-1278. doi:10.1093/plankt/23.11.1263
- Fossheim, M., Primicerio, R., Johannesen, E., Ingvaldsen, R. B., Aschan, M. M., & Dolgov, A. V. (2015). Recent warming leads to a rapid borealization of fish communities in the Arctic. *Nature Clim. Change*, 5(7), 673-677. doi:10.1038/nclimate2647
- <http://www.nature.com/nclimate/journal/v5/n7/abs/nclimate2647.html#supplementary-information>
- Fox, A. L., Hughes, E. A., Trocine, R. P., Trefry, J. H., Schonberg, S. V., McTigue, N. D., . . . Cooper, L. W. (2014). Mercury in the northeastern Chukchi Sea: Distribution patterns in seawater and sediments and biomagnification in the benthic food web. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 102, 56-67. doi:10.1016/j.dsr2.2013.07.012
- Frainer, A., Primicerio, R., Kortsch, S., Aune, M., Dolgov, A. V., Fossheim, M., & Aschan, M. M. (2017). Climate-driven changes in functional biogeography of Arctic marine fish communities. *Proceedings of the National Academy of Sciences*, 201706080.
- Fransson, A., Chierici, M., Anderson, L. C., Bussmann, I., Kattner, G., Jones, E. P., & Swift, J. H. (2001). The importance of shelf processes for the modification of chemical constituents in the waters of the Eurasian Arctic Ocean: implication for carbon fluxes. *Continental Shelf Research*, 21(3), 225-242. doi:10.1016/s0278-4343(00)00088-1
- Fransson, A., Chierici, M., & Anderson, L. G. (2004). Diurnal variability in the oceanic carbon dioxide system and oxygen in the Southern Ocean surface water. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 51(22-24), 2827-2839. doi:10.1016/j.dsr2.2001.01.001
- Fransson, A., Chierici, M., Anderson, L. G., & David, R. (2004). Transformation of carbon and oxygen in the surface layer of the eastern Atlantic sector of the Southern Ocean. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 51(22-24), 2757-2772. doi:10.1016/j.dsr2.2001.12.001
- Fransson, A., Chierici, M., Miller, L. A., Carnat, G., Shadwick, E., Thomas, H., . . . Papakyriakou, T. N. (2013). Impact of sea-ice processes on the carbonate system and ocean acidification at the ice-water interface of the Amundsen Gulf, Arctic Ocean. *Journal of Geophysical Research-Oceans*, 118(12), 7001-7023. doi:10.1002/2013jc009164
- Fransson, A., Chierici, M., & Nojiri, Y. (2006). Increased net CO₂ outgassing in the upwelling region of the southern Bering Sea in a period of variable marine climate between 1995 and 2001. *Journal of Geophysical Research-Oceans*, 111(C8). doi:10.1029/2004jc002759
- Fransson, A., Chierici, M., & Nojiri, Y. (2009). New insights into the spatial variability of the surface water carbon dioxide in varying sea ice conditions in the Arctic Ocean. *Continental Shelf Research*, 29(10), 1317-1328.

doi:10.1016/j.csr.2009.03.008

- Fransson, A., Chierici, M., Yager, P. L., & Smith, W. O., Jr. (2011). Antarctic sea ice carbon dioxide system and controls. *Journal of Geophysical Research-Oceans*, 116. doi:10.1029/2010jc006844
- Fraser, A. J., Burkow, I. C., Wolkers, H., & Mackay, D. (2002). Modeling biomagnification and metabolism of contaminants in harp seals of the Barents Sea. *Environ Toxicol Chem*, 21(1), 55-61. doi:10.1897/1551-5028(2002)021<0055:mbamac>2.0.co;2
- Friday, N. A., Waite, J. M., Zerbini, A. N., & Moore, S. E. (2012). Cetacean distribution and abundance in relation to oceanographic domains on the eastern Bering Sea shelf: 1999-2004. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 260-272. doi:10.1016/j.dsr2.2012.02.006
- Friday, N. A., Zerbini, A. N., Waite, J. M., Moore, S. E., & Clapham, P. J. (2013). Cetacean distribution and abundance in relation to oceanographic domains on the eastern Bering Sea shelf, June and July of 2002, 2008, and 2010. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 244-256. doi:10.1016/j.dsr2.2013.03.011
- Frolov, I. E., Ashik, I. M., Kassens, H., Polyakov, I. V., Proshutinsky, A. Y., Sokolov, V. T., & Timokhov, L. A. (2009). Anomalous variations in the thermohaline structure of the Arctic Ocean. *Doklady Earth Sciences*, 429(2), 1567-1569. doi:10.1134/s1028334x09090323
- Frost, K. J., & Lowry, L. F. (1983). *Demersal fishes and invertebrates trawled in the northeastern Chukchi and western Beaufort seas 1976 – 1977*. Retrieved from
- Gabrielsen, T. M., Merkel, B., Soreide, J. E., Johansson-Karlsson, E., Bailey, A., Vogedes, D., . . . Berge, J. (2012). Potential misidentifications of two climate indicator species of the marine arctic ecosystem: *Calanus glacialis* and *C. finmarchicus*. *Polar Biology*, 35(11), 1621-1628. doi:10.1007/s00300-012-1202-7
- Gaichas, S., Skaret, G., Falk-Petersen, J., Link, J. S., Overholtz, W., Megrey, B. A., . . . Friedland, K. D. (2009). A comparison of community and trophic structure in five marine ecosystems based on energy budgets and system metrics. *Progress in Oceanography*, 81(1), 47-62.
- Galloway, B., & Norcross, B. (2011). A synthesis of diversity, distribution, abundance, age, size and diet of fishes in the lease sale 193 area of the northeastern Chukchi Sea: Final report. Prepared for ConocoPhillips Alaska, Inc., Shell exploration & Production Company, Statoil USA E & P, Inc. Bryan, Texas: LGL Ecological Research Associates. Prepared for ConocoPhillips Alaska, Inc., Shell exploration & Production Company, Statoil USA E & P, Inc. Bryan, Texas: LGL Ecological Research Associates, Inc.
- Garcia, E. G., & Ragnarsson, S. A. (2007). *Bottom trawling and scallop dredging in the Arctic: impacts of fishing on non-target species, vulnerable habitats and cultural heritage*: Nordic Council of Ministers.
- Gardiner, W. W., Word, J. Q., Word, J. D., Perkins, R. A., McFarlin, K. M., Hester, B. W., . . . Ray, C. M. (2013). The acute toxicity of chemically and physically dispersed crude oil to key arctic species under arctic conditions during the open water season. *Environ Toxicol Chem*, 32(10), 2284-2300. doi:10.1002/etc.2307
- Gaston, A. J., & Elliott, K. H. (2014). Seabird diet changes in northern Hudson Bay, 1981-2013, reflect the availability of schooling prey. *Marine Ecology Progress Series*, 513, 211-223. doi:10.3354/meps10945
- Gaston, A. J., Smith, P. A., & Provencher, J. F. (2012). Discontinuous change in ice cover in Hudson Bay in the 1990s and some consequences for marine birds and their prey. *ICES Journal of Marine Science*, 69(7), 1218-1225. doi:10.1093/icesjms/fss040
- Gaston, A. J., Woo, K., & Hipfner, J. M. (2003). Trends in forage fish populations in northern Hudson Bay since 1981, as determined from the diet of nestling thick-billed murre *Uria lomvia*. *Arctic*, 56(3), 227-233.
- Gearheard, S., Huntington, H., Parsons, M., C., M., & Pulsifer, P. (2011). Exchanging and Sharing Knowledge with Local Stakeholders - ELOKA. In I. Krupnik & I. Allison (Eds.), *Understanding Earth's Polar Challenges: International Polar Year 2007-2008* (pp. 581-584). Edmonton, Alberta: CCI Press.
- Gemery, L., Cronin, T. M., Cooper, L. W., & Grebmeier, J. M. (2013). Temporal changes in benthic ostracode assemblages in the Northern Bering and Chukchi Seas from 1976 to 2010. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 68-79. doi:10.1016/j.dsr2.2013.03.012
- Geoffroy, M., Majewski, A., LeBlanc, M., Gauthier, S., Walkusz, W., Reist, J. D., & Fortier, L. (2015). Vertical segregation of age-0 and age-1+ polar cod (*Boreogadus saida*) over the annual cycle in the Canadian Beaufort Sea. *Polar Biology*, 1-15.
- Geoffroy, M., Robert, D., Darnis, G., & Fortier, L. (2011). The aggregation of polar cod (*Boreogadus saida*) in the deep Atlantic layer of ice-covered Amundsen Gulf (Beaufort Sea) in winter. *Polar Biology*, 34(12), 1959-1971.

doi:10.1007/s00300-011-1019-9

- George, C., Moulton, L. L., & Deering, M. M. (2009). *A field guide to the common fishes of the North Slope of Alaska*: North Slope Borough, Department of Wildlife Management.
- George, S. G., Christiansen, J. S., Killie, B., & Wright, J. (1995). Dietary crude-oil exposure during sexual-maturation induces hepatic mixed-function oxygenase (cyp1a) activity at very-low environmental temperatures in Polar cod *Boreogadus-saida*. *Marine Ecology Progress Series*, 122(1-3), 307-312. doi:10.3354/meps122307
- Geraudie, P., Nahrgang, J., Forget-Leray, J., Minier, C., & Camus, L. (2014). In Vivo Effects of Environmental Concentrations of Produced Water on the Reproductive Function of Polar Cod (*Boreogadus saida*). *Journal of Toxicology and Environmental Health-Part a-Current Issues*, 77(9-11), 557-573. doi:10.1080/15287394.2014.887420
- Gilbert, M., Fortier, L., Ponton, D., & Drolet, R. (1992). Feeding ecology of marine fish larvae across the Great Whale River plume in seasonally ice-covered southeastern Hudson Bay. *Marine Ecology Progress Series*, 84(1), 19-30. doi:10.3354/meps084019
- Gillispie, J., Smith, R., Barbour, E., & Barber, W. (1997). *Distribution, abundance, and growth of Arctic cod in the northeastern Chukchi Sea*. Paper presented at the Fish ecology in Arctic North America. American Fisheries Society Symposium.
- Gislason, A., & Silva, T. (2009). Comparison between automated analysis of zooplankton using Zoolmage and traditional methodology. *Journal of Plankton Research*, 31(12), 1505-1516.
- Gislason, A., & Silva, T. (2012). Abundance, composition, and development of zooplankton in the Subarctic Iceland Sea in 2006, 2007, and 2008. *ICES Journal of Marine Science: Journal du Conseil*, 69(7), 1263-1276.
- Gjosaeter, H. (1998). The population biology and exploitation of capelin (*Mallotus villosus*) in the Barents Sea. *Sarsia*, 83(6), 453-496.
- Gjosaeter, H., & Ajiad, A. M. (1994). Growth of Polar cod, *Boreogadus saida* (Lepechin), in the Barents Sea. *ICES Journal of Marine Science*, 51(1), 115-120. doi:10.1006/jmsc.1994.1011
- Gjosaeter, H., & Ushakov, N. G. (1997). *Acoustic estimates of Barents Sea Arctic cod stock (Boreogadus saida)* (Vol. 97).
- Gjosaeter, J. (1987). Morphological and ecological-studies of *Clavella adunca* (Copepoda, Lernaepodidae) on Polar cod, *Boreogadus saida*. *Sarsia*, 72(3-4), 291-297.
- Glomsrød, S., Mäenpää, I., Lindholt, L., McDonald, H., & Goldsmith, S. 4. Arctic economies within the Arctic.
- Glover, K. A., Kanda, N., Haug, T., Pastene, L. A., Oien, N., Goto, M., . . . Skaug, H. J. (2010). Migration of Antarctic Minke Whales to the Arctic. *PLoS One*, 5(12). doi:10.1371/journal.pone.0015197
- Glud, R. N., Rysgaard, S., Turner, G., McGinnis, D. F., & Leakey, R. J. G. (2014). Biological- and physical-induced oxygen dynamics in melting sea ice of the Fram Strait. *Limnology and Oceanography*, 59(4), 1097-1111. doi:10.4319/lo.2014.59.4.1097
- Goddard, P., Lauth, R., & Armistead, C. (2014). Results of the 2012 Chukchi Sea bottom trawl survey of bottomfishes, crabs, and other demersal macrofauna. US Dep. Commer. *NOAA Tech. Memo. NMFS-AFSC*, 278, 110.
- Goes, J. I., Gothes, H. d. R., Haugen, E. M., McKee, K. T., D'Sa, E. J., Chekalyuk, A. M., . . . Sambrotto, R. N. (2014). Fluorescence, pigment and microscopic characterization of Bering Sea phytoplankton community structure and photosynthetic competency in the presence of a Cold Pool during summer. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 84-99. doi:10.1016/j.dsr2.2013.12.004
- Gradinger, R., Bluhm, B. A., Hopcroft, R. R., Gebruk, A. V., Kosobokova, K., Sirenko, B., & Wesławski, J. M. (2010). Marine life in the Arctic. *Life in the World's Oceans: Diversity, Distribution and Abundance*. Wiley-Blackwell, Oxford, 183-202.
- Gradinger, R. R., & Bluhm, B. A. (2004). In-situ observations on the distribution and behavior of amphipods and Arctic cod (*Boreogadus saida*) under the sea ice of the High Arctic Canada Basin. *Polar Biology*, 27(10), 595-603. doi:10.1007/s00300-004-0630-4
- Graham, C., Oxtoby, L., Wang, S. W., Budge, S. M., & Wooller, M. J. (2014). Sourcing fatty acids to juvenile polar cod (*Boreogadus saida*) in the Beaufort Sea using compound-specific stable carbon isotope analyses. *Polar Biology*, 37(5), 697-705. doi:10.1007/s00300-014-1470-5
- Graham, M., & Hop, H. (1995). Aspects of reproduction and larval biology of Arctic cod (*Boreogadus saida*). *Arctic*, 48(2), 130-135.
- Grahl-Nielsen, O., Halvorsen, A. K., Bodoev, N., Averina, L., Radnaeva, L., Pronin, N., . . . Petrov, E. (2005). Fatty acid

- composition of blubber of the Baikal seal *Phoca sibirica* and its marine relative, the ringed seal *P. hispida*. *Marine Ecology Progress Series*, 305, 261-274. doi:10.3354/meps305261
- Grainger, E. H. (1965). Zooplankton from Arctic Ocean and adjacent Canadian waters. *Journal of the Fisheries Research Board of Canada*, 22(2), 543-564.
- Granfors, A., Andersson, M., Chierici, M., Fransson, A., Gardfeldt, K., Torstensson, A., . . . Abrahamsson, K. (2013). Biogenic halocarbons in young Arctic sea ice and frost flowers. *Marine Chemistry*, 155, 124-134. doi:10.1016/j.marchem.2013.06.002
- Grebmeier, J. M. (2012). Shifting Patterns of Life in the Pacific Arctic and Sub-Arctic Seas. *Annual Review of Marine Science*, Vol 4, 4, 63-78. doi:10.1146/annurev-marine-120710-100926
- Grebmeier, J. M., Bluhm, B. A., Cooper, L. W., Danielson, S. L., Arrigo, K. R., Blanchard, A. L., . . . Gradinger, R. R. (2015). Ecosystem characteristics and processes facilitating persistent macrobenthic biomass hotspots and associated benthivory in the Pacific Arctic. *Progress in Oceanography*, 136, 92-114.
- Grebmeier, J. M., Cooper, L. W., Feder, H. M., & Sirenko, B. I. (2006). Ecosystem dynamics of the Pacific-influenced northern Bering and Chukchi Seas in the Amerasian Arctic. *Progress in Oceanography*, 71(2), 331-361.
- Grebmeier, J. M., & Maslowski, W. (2014). *The Pacific Arctic Region*: Springer.
- Grebmeier, J. M., & Maslowski, W. (20014). *The Pacific Arctic region : ecosystem status and trends in a rapidly changing environment* Dordrecht ; New York Springer.
- Grebmeier, J. M., Moore, S. E., Overland, J. E., Frey, K. E., & Gradinger, R. (2010). Biological Response to Recent Pacific Arctic Sea Ice Retreats. *EOS Transactions. American Geophysical Union*, 91(18), 161-162. doi:doi:10.1029/2010EO180001
- Grebmeier, J. M., Overland, J. E., Moore, S. E., Farley, E. V., Carmack, E. C., Cooper, L. W., . . . McNutt, S. L. (2006). A major ecosystem shift in the northern Bering Sea. *Science*, 311(5766), 1461-1464. doi:10.1126/science.1121365
- Griffiths, W., & Dillinger, R. (1981). Beaufort Sea barrier island-lagoon ecological process studies: final report, Simpson Lagoon. *Part 5*, 1-198.
- Griffiths, W. B., Fechtel, R. G., Gallaway, B. J., Martin, L. R., & Wilson, W. J. (1998). Abundance of selected fish species in relation to temperature and salinity patterns in the Sagavanirktok Delta, Alaska, following construction of the Endicott Causeway. *Arctic*, 51(2), 94-104.
- Grigorenko, B. L., Nemukhin, A. V., Polyakov, I. V., Morozov, D. I., & Krylov, A. I. (2013). First-principles characterization of the energy landscape and optical spectra of green fluorescent protein along the A -> I -> B proton transfer route. *J Am Chem Soc*, 135(31), 11541-11549. doi:10.1021/ja402472y
- Grinkevich, N. S. (1959). Year-to-year changes in the food of cod in the Barents Sea *Translation series (Fisheries Research Board of Canada)*; 223 21.
- Grotefendt, K., Logemann, K., Quadfasel, D., & Ronski, S. (1998). Is the Arctic Ocean warming? *Journal of Geophysical Research-Oceans*, 103(C12), 27679-27687. doi:10.1029/98jc02097
- Gunderson, D. R., & Ellis, I. E. (1986). Development of a plumb staff beam trawl for sampling demersal fauna. *Fisheries Research*, 4(1), 35-41.
- Gurevich, N. I., & Merkouriev, S. A. (2006). Evolution of the Makarov Basin on the basis of geohistorical analysis of magnetic anomalies and its relationship with the evolution of the Alpha Ridge. *Geophysical Research Abstracts*, 8, 06075. doi:SRef-ID: 1607-7962/gra/EGU06-A-06075
- Hammerschlag, N., Meyer, C. G., Grace, M. S., Kessel, S. T., Sutton, T., Harvey, E. S., . . . Cooke, S. J. (2017). Shining a light on fish at night: an overview of fish and fisheries in the dark of night, and in deep and polar seas. *Bulletin of Marine Science*, 93.
- Hansen, E., Gerland, S., Granskog, M. A., Pavlova, O., Renner, A. H. H., Haapala, J., . . . Tschudi, M. (2013). Thinning of Arctic sea ice observed in Fram Strait: 1990-2011. *Journal of Geophysical Research-Oceans*, 118(10), 5202-5221. doi:10.1002/jgrc.20393
- Hanssen, K. O., Cervin, G., Trepos, R., Petitbois, J., Haug, T., Hansen, E., . . . Svenson, J. (2014). The Bromotyrosine Derivative lanthelline Isolated from the Arctic Marine Sponge *Stryphnus fortis* Inhibits Marine Micro- and Macrobiofouling. *Mar Biotechnol (NY)*, 16(6), 684-694. doi:10.1007/s10126-014-9583-y
- Harding, A., Paredes, R., Suryan, R., Roby, D., Irons, D., Orben, R., . . . Kitaysky, A. (2013). Does location really matter? An inter-colony comparison of seabirds breeding at varying distances from productive oceanographic features

- in the Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 178-191.
doi:10.1016/j.dsr2.2013.03.013
- Harsem, O., & Hoel, A. H. (2013). Climate change and adaptive capacity in fisheries management: the case of Norway. *International Environmental Agreements: Politics, Law and Economics* 13(1), 49-63 doi:10.1007/s10784-012-9199-5
- Harter, B. B., Elliott, K. H., Divoky, G. J., & Davoren, G. K. (2013). Arctic Cod (*Boreogadus saida*) as Prey: Fish Length-Energetics Relationships in the Beaufort Sea and Hudson Bay. *Arctic*, 66(2), 191-196.
- Harvey, H. R., Pleuthner, R. L., Lessard, E. J., Bernhardt, M. J., & Shaw, C. T. (2012). Physical and biochemical properties of the euphausiids *Thysanoessa inermis*, *Thysanoessa raschii*, and *Thysanoessa longipes* in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 173-183.
doi:10.1016/j.dsr2.2012.02.007
- Harvey, H. R., & Sigler, M. F. (2013). An introduction to the Bering Sea Project: Volume II. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 2-6. doi:10.1016/j.dsr2.2013.04.023
- Harvey, H. R., Taylor, K. A., Pie, H. V., & Mitchelmore, C. L. (2014). Polycyclic aromatic and aliphatic hydrocarbons in Chukchi Sea biota and sediments and their toxicological response in the Arctic cod, *Boreogadus saida*. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 102, 32-55. doi:10.1016/j.dsr2.2013.07.013
- Haug, T., Aschan, M., Hoel, A. H., Johansen, T., & Sundet, J. H. (2014). Contribution to the Themed Section: 'Marine Harvesting in the Arctic' Introduction: Marine Harvesting in the Arctic. *ICES Journal of Marine Science*, 71(7), 1932-1933. doi:10.1093/icesjms/fsu072
- Haug, T., Bogstad, B., Chierici, M., Gjørseter, H., Hallfredsson, E. H., Høines, Å. S., . . . Knutsen, T. (2017). Future harvest of living resources in the Arctic Ocean north of the Nordic and Barents Seas: A review of possibilities and constraints. *Fisheries Research*, 188, 38-57.
- Haug, T., & Hals, P. A. (2000). Pharmacokinetics of oxytetracycline in Arctic charr (*Salvelinus alpinus* L.) in freshwater at low temperature. *Aquaculture*, 186(3-4), 175-191. doi:10.1016/s0044-8486(99)00376-2
- Haug, T., Nilssen, K. T., & Lindblom, L. (2000). First independent feeding of harp seal (*Phoca groenlandica*) and hooded seal (*Cystophora cristata*) pups in the Greenland Sea. In G. A. Vikiingsson & F. O. Kapel (Eds.), *Minke Whales, Harp and Hooded Seals: Major Predators in the North Atlantic Ecosystem* (Vol. 2, pp. 29-39).
- Haug, T., Nilssen, K. T., & Lindblom, L. (2004). Feeding habits of harp and hooded seals in drift ice waters along the east coast of Greenland in summer and winter. *Polar Research*, 23(1), 35-42. doi:10.1111/j.1751-8369.2004.tb00127.x
- Haug, T., Nilssen, K. T., Lindblom, L., & Lindstrom, U. (2007). Diets of hooded seals (*Cystophora cristata*) in coastal waters and drift ice waters along the east coast of Greenland. *Marine Biology Research*, 3(3), 123-133. doi:10.1080/17451000701358531
- Haukas, M., Berger, U., Hop, H., Gulliksen, B., & Gabrielsen, G. W. (2007). Bioaccumulation of per- and polyfluorinated alkyl substances (PFAS) in selected species from the Barents Sea food web. *Environ Pollut*, 148(1), 360-371. doi:10.1016/j.envpol.2006.09.021
- Hawkins, P. A. J., Butler, P. J., Woakes, A. J., & Gabrielsen, G. W. (1997). Heat increment of feeding in Brunnich's guillemot *Uria lomvia*. *Journal of Experimental Biology*, 200(12), 1757-1763.
- Hedges, K. J., MacPhee, S., Valtýsson, H. Þ., Johannesen, E., & Mecklenburg, C. W. (2017). State of the Arctic Marine Biodiversity Report: Chapter 3.4: Marine fishes. In book: State of the Arctic Marine Biodiversity Report, Chapter: Marine fishes. *State of the Arctic Marine Biodiversity Report: Chapter 3.4: Marine fishes*. In book: *State of the Arctic Marine Biodiversity Report, Chapter: Marine fishes*, Publisher: Conservation of Arctic Flora and Fauna, Editors: Tom Barry, Courtney Price, Marianne Olsen, Tom Christensen, Morten Frederiksen, pp.109-127.
- Heino, M., Porteiro, F. M., Sutton, T. T., Falkenhaus, T., Godo, O. R., & Piatkowski, U. (2011). Catchability of pelagic trawls for sampling deep-living nekton in the mid-North Atlantic. *ICES Journal of Marine Science*, 68(2), 377-389. doi:10.1093/icesjms/fsq089
- Heintz, R. A., Siddon, E. C., Farley, E. V., Jr., & Napp, J. M. (2013). Correlation between recruitment and fall condition of age-0 pollock (*Theragra chalcogramma*) from the eastern Bering Sea under varying climate conditions. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 150-156. doi:10.1016/j.dsr2.2013.04.006
- Henriksen, E. O., Gabrielsen, G. W., & Skaare, J. U. (1998). Validation of the use of blood samples to assess tissue concentrations of organochlorines in glaucous gulls, *Larus hyperboreus*. *Chemosphere*, 37(13), 2627-2643.

doi:10.1016/s0045-6535(98)00162-3

- Henriksen, E. O., Gabrielsen, G. W., Skaare, J. U., Skjeggstad, N., & Jenssen, B. M. (1998). Relationships between PCB levels, hepatic EROD activity and plasma retinol in glaucous gulls, *Larus hyperboreus*. *Mar Environ Res*, 46(1-5), 45-49. doi:10.1016/s0141-1136(97)00056-1
- Hermann, A. J., Gibson, G. A., Bond, N. A., Curchitser, E. N., Hedstrom, K., Cheng, W., . . . Ciciel, K. D. (2013). A multivariate analysis of observed and modeled biophysical variability on the Bering Sea shelf: Multidecadal hindcasts (1970-2009) and forecasts (2010-2040). *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 121-139. doi:10.1016/j.dsr2.2013.04.007
- Hill, J. V., & Egginton, S. (2010). Control of Branchial Artery Tone in Fish: Effects of Environmental Temperature and Phylogeny. *Physiological and Biochemical Zoology*, 83(1), 33-42. doi:10.1086/648469
- HINCKLEY, S. (1987). THE REPRODUCTIVE BIOLOGY OF WALLEYE POLLOCK, *FFIERAGRA CHALCOGRAMMA*, IN THE BERING SEA, WITH REFERENCE TO SPAWNING STOCK STRUCTURE. *Fishery Bulletin*, 85(3).
- Hinzman, L. D., Deal, C. J., McGuire, A. D., Mernild, S. H., Polyakov, I. V., & Walsh, J. E. (2013). Trajectory of the Arctic as an integrated system. *Ecological Applications*, 23(8), 1837-1868. doi:10.1890/11-1498.1
- Hinzman, L. D., Ohata, T., Polyakov, I. V., Suzuki, R., & Walsh, J. E. (2013). JAMSTEC-IARC international collaboration enhancing understanding of the Arctic climate system. *Polar Science*, 7(2), 49-52. doi:10.1016/j.polar.2013.05.001
- Hjalmarsson, S., Chierici, M., & Anderson, L. G. (2010). Carbon dynamics in a productive coastal region-The Skagerrak. *Journal of Marine Systems*, 82(4), 245-251. doi:10.1016/j.jmarsys.2010.05.013
- Hjelset, A. M., Andersen, M., Gjertz, I., Lydersen, C., & Gulliksen, B. (1999). Feeding habits of bearded seals (*Erignathus barbatus*) from the Svalbard area, Norway. *Polar Biology*, 21(3), 186-193. doi:10.1007/s003000050351
- Hjollo, S. S., Huse, G., Skogen, M. D., & Melle, W. (2012). Modelling secondary production in the Norwegian Sea with a fully coupled physical/primary production/individual-based *Calanus finmarchicus* model system. *Marine Biology Research*, 8(5-6), 508-526. doi:10.1080/17451000.2011.642805
- Hobbs, K. E., Muir, D. C. G., Born, E. W., Dietz, R., Haug, T., Metcalfe, T., . . . Oien, N. (2003). Levels and patterns of persistent organochlorines in minke whale (*Balaenoptera acutorostrata*) stocks from the North Atlantic and European Arctic. *Environ Pollut*, 121(2), 239-252. doi:10.1016/s0269-7491(02)00218-x
- Hobson, K. A., Fisk, A., Karnovsky, N., Holst, M., Gagnon, J. M., & Fortier, M. (2002). A stable isotope (delta C-13, delta N-15) model for the North Water food web: implications for evaluating trophodynamics and the flow of energy and contaminants. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 49(22-23), 5131-5150. doi:10.1016/s0967-0645(02)00182-0
- Hobson, K. A., Gilchrist, G., & Falk, K. (2002). Isotopic investigations of seabirds of the North Water Polynya: Contrasting trophic relationships between the eastern and western sectors. *Condor*, 104(1), 1-11. doi:10.1650/0010-5422(2002)104[0001:iiosot]2.0.co;2
- Hobson, K. A., & Welch, H. E. (1992). Determination of trophic relationships within a high Arctic marine food web using Delta-C-13 and Delta-N-15 analysis. *Marine Ecology Progress Series*, 84(1), 9-18. doi:10.3354/meps084009
- Hobson, K. A., & Welch, H. E. (1992). Observations of foraging northern fulmars (*Fulmarus glacialis*) in the Canadian High Arctic. *Arctic*, 45(2), 150-153.
- Hoekstra, P. F., O'Hara, T. M., Fisk, A. T., Borga, K., Solomon, K. R., & Muir, D. C. G. (2003). Trophic transfer of persistent organochlorine contaminants (OCs) within an Arctic marine food web from the southern Beaufort-Chukchi Seas. *Environ Pollut*, 124(3), 509-522. doi:10.1016/s0269-7491(02)00482-7
- Hoekstra, P. F., O'Hara, T. M., Karlsson, H., Solomon, K. R., & Muir, D. C. G. (2003). Enantiomer-specific biomagnification of alpha-hexachlorocyclohexane and selected chiral chlordane-related compounds within an Arctic marine food web. *Environ Toxicol Chem*, 22(10), 2482-2491. doi:10.1897/02-459
- Holland, G. (2002). The Arctic Ocean—the management of change in the northern seas. *Ocean & Coastal Management*, 45(11-12), 841-851. doi:doi:10.1016/S0964-5691(02)00109-6
- Hollowed, A. B., Barbeaux, S. J., Cokelet, E. D., Farley, E., Kotwicki, S., Ressler, P. H., . . . Wilson, C. D. (2012). Effects of climate variations on pelagic ocean habitats and their role in structuring forage fish distributions in the Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 230-250. doi:10.1016/j.dsr2.2012.02.008

- Hollowed, A. B., Planque, B., & Loeng, H. (2013). Potential movement of fish and shellfish stocks from the sub-Arctic to the Arctic Ocean. *Fisheries Oceanography*, 22(5), 355-370. doi:10.1111/fog.12027
- Holst, M., Stirling, I., & Hobson, K. A. (2001). Diet of ringed seals (*Phoca hispida*) on the east and west sides of the North Water Polynya, northern Baffin Bay. *Marine Mammal Science*, 17(4), 888-908. doi:10.1111/j.1748-7692.2001.tb01304.x
- Hop, H., Bluhm, B., Daase, M., Gradinger, R., & Poulin, M. (2013). Norwegian Polar Institute, Fram Centre, Tromsø, Norway 2 School of Fisheries and Ocean Sciences, University of Alaska Fairbanks, Fairbanks, AK, USA 3 Research and Collections Division, Canadian Museum of Nature, Ottawa, ON, Canada.
- Hop, H., & Gjosaeter, H. (2013). Polar cod (*Boreogadus saida*) and capelin (*Mallotus villosus*) as key species in marine food webs of the Arctic and the Barents Sea. *Marine Biology Research*, 9(9), 878-894. doi:10.1080/17451000.2013.775458
- Hop, H., & Graham, M. (1995). Respiration of juvenile Arctic cod (*Boreogadus saida*) - effects of acclimation, temperature, and food intake. *Polar Biology*, 15(5), 359-367.
- Hop, H., Graham, M., & Trudeau, V. L. (1995). Spawning energetics of Arctic cod (*Boreogadus saida*) in relation to seasonal development of the ovary and plasma sex steroid-levels. *Canadian Journal of Fisheries and Aquatic Sciences*, 52(3), 541-550. doi:10.1139/f95-055
- Hop, H., Mundy, C. J., Gosselin, M., Rossnagel, A. L., & Barber, D. G. (2011). Zooplankton boom and ice amphipod bust below melting sea ice in the Amundsen Gulf, Arctic Canada. *Polar Biology*, 34(12), 1947-1958. doi:10.1007/s00300-011-0991-4
- Hop, H., & Tonn, W. M. (1998). Gastric evacuation rates and daily rations of Arctic cod (*Boreogadus saida*) at low temperatures. *Polar Biology*, 19(5), 293-301. doi:10.1007/s003000050249
- Hop, H., Tonn, W. M., & Welch, H. E. (1997). Bioenergetics of Arctic cod (*Boreogadus saida*) at low temperatures. *Canadian Journal of Fisheries and Aquatic Sciences*, 54(8), 1772-1784. doi:10.1139/cjfas-54-8-1772
- Hopcroft, R., Bluhm, B., Gradinger, R., Whitledge, T., Weingartner, T., Norcross, B., & Springer, A. (2008). Arctic ocean synthesis: Analysis of climate change impacts in the Chukchi and beaufort seas with strategies for future research.
- Hopper, J. R., Funck, T., Marcussen, C., Jackson, H. R., & Shimeld, J. (2009). Arctic Tectonic Puzzles: The Makarov Basin, Marvin Spur, and the Lomonosov Ridge. *American Geophysical Union, Fall Meeting 2009, abstract #T51A-1494*.
- Horak, R. E. A., Whitney, H., Shull, D. H., Mordy, C. W., & Devol, A. H. (2013). The role of sediments on the Bering Sea shelf N cycle: Insights from measurements of benthic denitrification and benthic DIN fluxes. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 95-105. doi:10.1016/j.dsr2.2013.03.014
- Hossain, K., & Morris, K. (2017). Protecting Arctic Ocean Marine Biodiversity in the Area Beyond National Jurisdiction *The Future of the Law of the Sea* (pp. 105-126): Springer.
- Hovland, E. K., Hancke, K., Alver, M. O., Drinkwater, K., Hokedal, J., Johnsen, G., . . . Sakshaug, E. (2014). Optical impact of an *Emiliania huxleyi* bloom in the frontal region of the Barents Sea. *Journal of Marine Systems*, 130, 228-240. doi:10.1016/j.jmarsys.2012.07.002
- Hunt, G. L., Blanchard, A. L., Boveng, P., Dalpadado, P., Drinkwater, K. F., Eisner, L., . . . Renaud, P. (2013). The Barents and Chukchi Seas: comparison of two Arctic shelf ecosystems. *Journal of Marine Systems*, 109, 43-68.
- Hunt, G. L., Jr., Blanchard, A. L., Boveng, P., Dalpadado, P., Drinkwater, K. F., Eisner, L., . . . Woodgate, R. A. (2013). The Barents and Chukchi Seas: Comparison of two Arctic shelf ecosystems. *Journal of Marine Systems*, 109, 43-68. doi:10.1016/j.jmarsys.2012.08.003
- Hunt, G. L., Jr., & Drinkwater, K. (2007). Introduction to the proceedings of the GLOBEC symposium on effects of climate variability on sub-Arctic marine ecosystems - Preface. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 54(23-26), 2453-2455. doi:10.1016/j.dsr2.2007.07.029
- Hunt, G. L., Jr., Renner, M., & Kuletz, K. (2014). Seasonal variation in the cross-shelf distribution of seabirds in the southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 266-281. doi:10.1016/j.dsr2.2013.08.011
- Huntington, H. P., Braem, N. M., Brown, C. L., Hunn, E., Krieg, T. M., Lestenkof, P., . . . Zavadil, P. (2013). Local and traditional knowledge regarding the Bering Sea ecosystem: Selected results from five indigenous communities. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 323-332.

doi:10.1016/j.dsr.2013.04.025

- Huntington, H. P., Noongwook, G., Bond, N. A., Benter, B., Snyder, J. A., & Zhang, J. (2013). The influence of wind and ice on spring walrus hunting success on St. Lawrence Island, Alaska. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 312-322. doi:10.1016/j.dsr.2013.03.016
- Huntington, H. P., Ortiz, I., Noongwook, G., Fidel, M., Childers, D., Morse, M., . . . Kliskey, A. (2013). Mapping human interaction with the Bering Sea ecosystem: Comparing seasonal use areas, lifetime use areas, and "calorie-sheds". *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 292-300. doi:10.1016/j.dsr.2013.03.015
- Hussey, N. E., Hedges, K. J., Barkley, A. N., Treble, M. A., Peklova, I., Webber, D. M., . . . Bedard, J. M. (2017). Movements of a deep-water fish: establishing marine fisheries management boundaries in coastal Arctic waters. *Ecological Applications*, 27(3), 687-704.
- Ianelli, J. N., Barbeaux, S., Honkalehto, T., Kotwicki, S., Aydin, K., & Williamson, N. (2009). Assessment of the walleye pollock stock in the Eastern Bering Sea. *Stock assessment and fishery evaluation report for the groundfish resources of the Bering Sea/Aleutian Islands regions. North Pac. Fish. Mgmt. Council, Anchorage, AK, section 1*, 49-148.
- ICES. (2011). *Report of the Working Group on Harp and Hooded Seals (WGHARP) 15 - 19 August 2011. St. Andrews, Scotland, UK*. Retrieved from Copenhagen, Denmark:
- ICES. (2012). *Report of the ICES Advisory Committee 2012* (ISBN 978-87-7482-119-9). Retrieved from
- Ilyash, L. V., Zhitina, L. S., Kudryavtseva, V. A., & Melnikov, I. A. (2012). Seasonal dynamics of algae species composition and biomass in the coastal ice of Kandalaksha Bay, the White Sea. *Zh Obshch Biol*, 73(6), 459-470.
- Ingebrigtsen, K., Christiansen, J. S., Lindhe, O., & Brandt, I. (2000). Disposition and cellular binding of H-3-benzo(a)pyrene at subzero temperatures: studies in an aglomerular Arctic teleost fish - the polar cod (*Boreogadus saida*). *Polar Biology*, 23(7), 503-509. doi:10.1007/s003000000112
- Ingvaldsen, R., Chierici, M., Knutsen, T., Gjørseter, H., Bogstad, B., Haug, T., . . . H., H. A. (2013). *IMR ecosystem activity in the Arctic Ocean: Report from committee*. Retrieved from
- Ingvaldsen, R. B. (2005). Width of the North Cape Current and location of the Polar Front in the western Barents Sea. *Geophys Res Lett*, 32(16). doi:10.1029/2005gl023440
- Ingvaldsen, R. B., Asplin, L., & Loeng, H. (2004). The seasonal cycle in the Atlantic transport to the Barents Sea during the years 1997-2001. *Continental Shelf Research*, 24(9), 1015-1032. doi:10.1016/j.csr.2004.02.011
- Ingvaldsen, R. B., Asplin, L., & Loeng, H. (2004). Velocity field of the western entrance to the Barents Sea. *Journal of Geophysical Research-Oceans*, 109(C3). doi:10.1029/2003jc001811
- Ingvaldsen, R. B., & Gjosaeter, H. (2013). Responses in spatial distribution of Barents Sea capelin to changes in stock size, ocean temperature and ice cover. *Marine Biology Research*, 9(9), 867-877. doi:10.1080/17451000.2013.775450
- International Arctic Science Committee (IASC). (2013). *Statement of Principles and Practices for Arctic Data Management*.
- International Council for the Exploration of the Sea. Demersal Fish Committee. (1980). Preliminary report of the international O-group fish survey in the Barents Sea and adjacent waters in August - September 1980. *ICES CM (International Council for the Exploration of the Sea. Demersal Fish Committee); 1980/G:53*, 25.
- Irvine, J., Macdonald, R., Brown, R., Godbout, L., Reist, J., & Carmack, E. (2009). Salmon in the Arctic and how they avoid lethal low temperatures. *North Pacific Anadromous Fish Commission Bulletin*, 5, 39-50.
- Isaksen, B., Valdemarsen, J. W., Larsen, R. B., & Karlsen, L. (1992). Reduction of fish by-catch in shrimp trawl using a rigid separator grid in the aft belly. *Fisheries Research*, 13(3), 335-352. doi:10.1016/0165-7836(92)90086-9
- Ivanov, V. V., Alexeev, V. A., Repina, I., Koldunov, N. V., & Smirnov, A. (2012). Tracing Atlantic Water Signature in the Arctic Sea Ice Cover East of Svalbard. *Advances in Meteorology*. doi:10.1155/2012/201818
- Ivanov, V. V., Polyakov, I. V., Dmitrenko, I. A., Hansen, E., Repina, I. A., Kirillov, S. A., . . . Timokhov, L. A. (2009). Seasonal variability in Atlantic Water off Spitsbergen. *Deep-Sea Research Part I-Oceanographic Research Papers*, 56(1), 1-14. doi:10.1016/j.dsr.2008.07.013
- Iversen, M., Aars, J., Haug, T., Alsos, I. G., Lydersen, C., Bachmann, L., & Kovacs, K. M. (2013). The diet of polar bears (*Ursus maritimus*) from Svalbard, Norway, inferred from scat analysis. *Polar Biology*, 36(4), 561-571. doi:10.1007/s00300-012-1284-2

- Jakobsen, T., & Ozhigin, V. K. (2011). *The Barents Sea : ecosystem, resources, management : half a century of Russian-Norwegian cooperation* Trondheim: Tapir Academic Press, .
- Jarvela, L. E., & Thorsteinson, L. K. (1999). The epipelagic fish community of Beaufort Sea coastal waters, Alaska. *Arctic*, 52(1), 80-94.
- Jaschnov, W. A. (1970). Distribution of *Calanus* species in the seas of the Northern Hemisphere. *Internationale Revue der gesamten Hydrobiologie und Hydrographie*, 55(2), 197-212. doi:doi: 10.1002/iroh.19700550203
- Jensen, T., Ugland, K. I., & Anstensrud, M. (1991). Aspects of growth in Arctic cod, *Boreogadus saida* (Lepechin 1773). *Polar Research*, 10(2), 547-552. doi:10.1111/j.1751-8369.1991.tb00672.x
- Jenssen, B. M., Sormo, E. G., Baek, K., Bytingsvik, J., Gaustad, H., Ruus, A., & Skaare, J. U. (2007). Brominated Flame Retardants in North-East Atlantic Marine Ecosystems. *Environ Health Perspect*, 115, 35-41. doi:10.1289/ehp.9355
- Johannesen, E., Ingvaldsen, R. B., Bogstad, B., Dalpadado, P., Eriksen, E., Gjosaeter, H., . . . Stiansen, J. E. (2012). Changes in Barents Sea ecosystem state, 1970-2009: climate fluctuations, human impact, and trophic interactions. *ICES Journal of Marine Science*, 69(5), 880-889. doi:10.1093/icesjms/fss046
- Johannesen, E., Ingvaldsen, R. B., Bogstad, B., Dalpadado, P., Eriksen, E., Gjost'er, H., . . . Stiansen, J. E. (2014). Changes in Barents Sea ecosystem state, 1970-2009: climate fluctuations, human impact, and trophic interactions. (vol 69, pg 880, 2012). *ICES Journal of Marine Science*, 71(5), 1308-1309. doi:10.1093/icesjms/fsu064
- Johannesen, E., Mørk, H. L., Korsbrekke, K., Wienerroither, R., Eriksen, E., Fossheim, M., . . . Prozorkevich, D. (2017). Arctic fishes in the Barents Sea 2004-2015: Changes in abundance and distribution. *IMR/PINRO Joint Report Series 1-2017*.
- Johansen, C. E., Lydersen, C., Aspholm, P. E., Haug, T., & Kovacs, K. M. (2010). Helminth parasites in ringed seals (*Pusa hispida*) from Svalbard, Norway with special emphasis on nematodes: variation with age, sex, diet, and location of host. *Journal of Parasitology*, 96(5), 946-953. doi:10.1645/ge-1685.1
- Johnson, L. (1983). *Assessment of the effects of oil on arctic marine fish and marine mammals*. Retrieved from Winnipeg, Man.: <http://www.dfo-mpo.gc.ca/Library/19362.pdf>
- Johnson, M. A., & Polyakov, I. V. (2001). The Laptev Sea as a source for recent Arctic Ocean salinity changes. *Geophys Res Lett*, 28(10), 2017-2020. doi:10.1029/2000gl012740
- Johnson, M. A., Proshutinsky, A. Y., & Polyakov, I. V. (1999). Atmospheric patterns forcing two regimes of Arctic circulation: A return to anticyclonic conditions? *Geophys Res Lett*, 26(11), 1621-1624. doi:10.1029/1999gl900288
- Johnson, S. R., & Richardson, W. J. (1981). *Beaufort Sea barrier island-lagoon ecological process studies: Part 3 Birds*. Retrieved from <http://www.arlis.org/docs/vol1/OCSEAP2/Biological/8498344/FB%20v07.pdf#page=115>
- Johnson, S. W., Neff, A. D., & Thedinga, J. F. (2005). *Atlas on the distribution and habitat of common fishes in shallow nearshore waters of southeastern Alaska*. Retrieved from
- Johnson, S. W., Thedinga, J. F., & Neff, A. D. (2009). Invasion by saffron cod *Eleginus gracilis* into nearshore habitats of Prince William Sound, Alaska, USA. *Marine Ecology Progress Series*, 389, 203-212.
- Johnson, S. W., Thedinga, J. F., Neff, A. D., & Hoffman, C. A. (2010). *Fish fauna in nearshore waters of a barrier island in the western Beaufort Sea, Alaska*. Retrieved from Seattle, WA: http://docs.lib.noaa.gov/noaa_documents/NMFS/AFSC/TM_AFSC/TM_NMFS_AFSC_210.pdf
- Jones, N. M., Hoover, B. A., Heppell, S. A., & Kuletz, K. J. (2014). A cross-shelf gradient in delta N-15 stable isotope values of krill and pollock indicates seabird foraging patterns in the Bering Sea. *Deep-Sea Research Part II- Topical Studies in Oceanography*, 109, 241-250. doi:10.1016/j.dsr2.2014.04.008
- Jonsson, H., Sundt, R. C., Aas, E., & Sanni, S. (2010). The Arctic is no longer put on ice: Evaluation of Polar cod (*Boreogadus saida*) as a monitoring species of oil pollution in cold waters. *Mar Pollut Bull*, 60(3), 390-395. doi:10.1016/j.marpolbul.2009.10.014
- Jonsson, M., Varpe, O., Kozłowski, T., Berge, J., & Kroger, R. H. H. (2014). Differences in lens optical plasticity in two gadoid fishes meeting in the Arctic. *Journal of Comparative Physiology a-Neuroethology Sensory Neural and Behavioral Physiology*, 200(11), 949-957. doi:10.1007/s00359-014-0941-z
- Jónsson, S., & Valdimarsson, H. (2012). Hydrography and circulation over the southern part of the Kolbeinsey Ridge. *ICES Journal of Marine Science: Journal du Conseil*, 69(7), 1255-1262.
- Jordan, A., Møller, P. R., & Nielsen, J. G. (2003). Revision of the Arctic cod genus *Arctogadus*. *J Fish Biol*, 62(6), 1339-

1352.

- Jordan, A. D., Moller, P. R., & Nielsen, J. G. (2003). Revision of the Arctic cod genus *Arctogadus*. *J Fish Biol*, 62(6), 1339-1352. doi:10.1046/j.1095-8649.2003.00115.x
- Jorgensen, T. E., Bakke, I., Ursvik, A., Andreassen, M., Moum, T., & Johansen, S. D. (2014). An evolutionary preserved intergenic spacer in gadiform mitogenomes generates a long noncoding RNA. *BMC Evol Biol*, 14. doi:10.1186/s12862-014-0182-3
- K., B., B., N., & C., L. (2015). *Arctic coastal ecosystems: Evaluating the functional role and connectivity of lagoon and nearshore habitats*. NPRB Project no. 1229. Semiannual Report. Retrieved from http://doc.nprb.org/web/12_prjs/1229_July2013.pdf
- Kaltin, S., Anderson, L. G., Olsson, K., Fransson, A., & Chierici, M. (2002). Uptake of atmospheric carbon dioxide in the Barents Sea. *Journal of Marine Systems*, 38(1-2), 31-45. doi:10.1016/s0924-7963(02)00168-9
- Kamshilov, M. M., Mironova, N. V., & Kondratsova, O. F. (1964). *Causes of seasonal and annual variations in the density of cod and haddock schools in the Barents Sea* (OTS 63-11112). Retrieved from
- Kanno, G., Kishimura, H., Yamamoto, J., Ando, S., Shimizu, T., Benjakul, S., . . . Saeki, H. (2011). Cold-adapted structural properties of trypsins from walleye pollock (*Theragra chalcogramma*) and Arctic cod (*Boreogadus saida*). *European Food Research and Technology*, 233(6), 963-972. doi:10.1007/s00217-011-1592-8
- Kapel, F. O. (2000). Feeding habits of harp and hooded seals in Greenland waters. In G. A. Vikingsson & F. O. Kapel (Eds.), *Minke Whales, Harp and Hooded Seals: Major Predators in the North Atlantic Ecosystem* (Vol. 2, pp. 50-64).
- Karnovsky, N. J., Hobson, K. A., Brown, Z. W., & Hunt, G. L., Jr. (2009). Distribution and Diet of Ivory Gulls (*Pagophila eburnea*) in the North Water Polynya. *Arctic*, 62(1), 65-74.
- Kemp, J., Swearer, S. E., Jenkins, G. P., & Robertson, S. (2011). Otolith chemistry is more accurate than otolith shape in identifying cod species (genus *Pseudophycis*) in the diet of Australian fur seals (*Arctocephalus pusillus doriferus*). *Canadian Journal of Fisheries and Aquatic Sciences*, 68(10), 1732-1743. doi:10.1139/f2011-088
- Kessel, S. T., Hussey, N. E., Crawford, R. E., Yurkowski, D. J., Webber, D. M., Dick, T. A., & Fisk, A. T. (2017). First documented large-scale horizontal movements of individual Arctic cod (*Boreogadus saida*). *Canadian Journal of Fisheries and Aquatic Sciences*, 74(3), 292-296.
- Kevin J. Hedges, S. M., Hreiðar Þór Valtýsson, Edda Johannesen, Catherine W. Mecklenburg (2017). State of the Arctic Marine Biodiversity Report: Chapter 3.4: Marine fishes. In book: State of the Arctic Marine Biodiversity Report, Chapter: Marine fishes. *State of the Arctic Marine Biodiversity Report: Chapter 3.4: Marine fishes*. In book: *State of the Arctic Marine Biodiversity Report, Chapter: Marine fishes*, Publisher: Conservation of Arctic Flora and Fauna, Editors: Tom Barry, Courtney Price, Marianne Olsen, Tom Christensen, Morten Frederiksen, pp.109-127, 109-127.
- Khan, R. A., Munehara, H., Ryan, K., & Lawson, J. W. (1997). Influence of *Haemobaphes cycloptera* and *H-intermedius* (Copepoda) on Arctic cod (*Boreogadus saida*) and tidepool sculpins (*Oligocottus maculosus*), respectively. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 75(8), 1280-1284. doi:10.1139/z97-151
- Khen, G. V., Basyuk, E. O., Vanin, N. S., & Matveev, V. I. (2013). Hydrography and biological resources in the western Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 106-120. doi:10.1016/j.dsr2.2013.03.034
- Kinney, J. C., Maslowski, W., Aksenov, Y., de Cuevas, B., Jakacki, J., Nguyen, A., . . . Zhang, J. (2014). On the flow through Bering Strait: A synthesis of model results and observations *The Pacific Arctic Region* (pp. 167-198): Springer.
- Kiselev, O. N. (1964). *On the distribution and behaviour of cod and haddock in the Barents Sea* Retrieved from
- Kiselev, O. N. (1964). *Use of mechanical devices in studying the distribution and behaviour of commercial fishes* Retrieved from
- Kiselev, O. N., & Konstantinov, K. G. (1963). *Vertical distribution of cod and haddock in the Barents Sea (based on data of hydro-acoustic investigations)* Retrieved from
- Kjesbu, O. S., Bogstad, B., Devine, J. A., Gjosaeter, H., Howell, D., Ingvaldsen, R. B., . . . Skjaeraasen, J. E. (2014). Synergies between climate and management for Atlantic cod fisheries at high latitudes. *Proc Natl Acad Sci U S A*, 111(9), 3478-3483. doi:10.1073/pnas.1316342111
- Knutsen, T., Melle, W., Mjanger, M., Strand, E., Fuglestad, A.-L., Broms, C., . . . Vedeler, T. (2013). *MESSOR - A towed underwater vehicle for quantifying and describing the distribution of pelagic organisms and their physical*

- environment* Paper presented at the OCEANS - Bergen, 2013 MTS/IEEE Bergen
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6608177>
- Kock, K.-H., Groeger, J., & Jones, C. D. (2013). Interannual variability in the feeding of ice fish (Notothenioidae, Channichthyidae) in the southern Scotia Arc and the Antarctic Peninsula region (CCAMLR Subareas 48.1 and 48.2). *Polar Biology*, 36(10), 1451-1462. doi:10.1007/s00300-013-1363-z
- Koie, M. (2009). *Boreogadus saida* (Lepechin) (Gadidae): a review of its metazoan parasite fauna from Greenland, eastern Canada, Alaska and the Russian Arctic. *Polar Biology*, 32(10), 1399-1406. doi:10.1007/s00300-009-0650-1
- Koie, M., Karlsbakk, E., & Nylund, A. (2007). A new genus *Gadimyxa* with three new species (Myxozoa, Parvicapsulidae) parasitic in marine fish (Gadidae) and the two-host life cycle of *Gadimyxa atlantica* N. sp. *Journal of Parasitology*, 93(6), 1459-1467. doi:10.1645/ge-1256.1
- Koie, M., Steffensen, J. F., Moller, P. R., & Christiansen, J. S. (2008). The parasite fauna of *Arctogadus glacialis* (Peters) (Gadidae) from western and eastern Greenland. *Polar Biology*, 31(9), 1017-1021. doi:10.1007/s00300-008-0440-1
- Konar, B. (2012). *Recovery in a High Arctic Kelp Community*. Retrieved from Fairbanks, AK:
- Konar, B., & Ravelo, A. (2013). *Epibenthic Community Variability on the Alaskan Beaufort Sea Continental Shelf*. Retrieved from Fairbanks, AK: www.data.boem.gov/PI/PDFImages/ESPIS/5/5293.pdf
- Konstantinov, K. G. (1967). Duration of the existence of schools of cod, their size composition, and their distribution on the fishing grounds of the Barents Sea *Translation series (Fisheries Research Board of Canada)*; 869 13.
- Konstantinov, K. G., & Mukhin, A. I. (1965). *On some regular features of the summer migration of the cod in the southern part of the Barents Sea* Retrieved from
- Korshunova, E. (2012). Reproduction and winter biology of polar cod *Boreogadus saida* from Svalbard waters.
- Kosobokova, K., Hanssen, H., Markhaseva, E., Petryashov, V. V., & Pintchuk, A. I. (1995). Composition and distribution of summer zooplankton in the Laptev Sea *Berichte zur Polarund Meeresforschung (Reports on Polar and Marine Research)*, 176, 192-199.
- Kosobokova, K., & Hirche, H.-J. (2009). Biomass of zooplankton in the eastern Arctic Ocean - A base line study. *Progress in Oceanography*, 82(4), 265-280. doi:10.1016/j.pocean.2009.07.006
- Kosobokova, K. N. (1982). Composition and distribution of the biomass of zooplankton in the central Arctic Basin. *Oceanology of the Academy of Sciences of the USSR*, 22(6), 744-750.
- Kosobokova, K. N., Hanssen, H., Hirche, H. J., & Knickmeier, K. (1998). Composition and distribution of zooplankton in the Laptev Sea and adjacent Nansen Basin during summer, 1993. *Polar Biology*, 19(1), 63-76.
- Kosobokova, K. N., & Hopcroft, R. R. (2010). Diversity and vertical distribution of mesozooplankton in the Arctic's Canada Basin. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 57(1-2), 96-110. doi:10.1016/j.dsr2.2009.08.009
- Kosobokova, K. N., Hopcroft, R. R., & Hirche, H.-J. (2011). Patterns of zooplankton diversity through the depths of the Arctic's central basins. *Marine Biodiversity*, 41(1), 29-50. doi:10.1007/s12526-010-0057-9
- Kotwicki, S., & Lauth, R. R. (2013). Detecting temporal trends and environmentally-driven changes in the spatial distribution of bottom fishes and crabs on the eastern Bering Sea shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 231-243. doi:10.1016/j.dsr2.2013.03.017
- Kovacs, K. M., Haug, T., & Lydersen, C. (2009). Marine mammals of the Barents Sea. In E. Sakshaug, G. H. Johnsen, & K. M. Kovacs (Eds.), *Ecosystem Barents Sea* (pp. 453-496). Trondheim, Norway: Tapir Academic.
- Kovacs, K. M., & Lydersen, C. (2008). Climate change impacts on seals and whales in the North Atlantic Arctic and adjacent shelf seas. *Science Progress*, 91(Part 2), 117-150. doi:doi: 10.3184/003685008X324010
- Kovacs, K. M., Lydersen, C., Overland, J. E., & Moore, S. E. (2011). Impacts of changing sea-ice conditions on Arctic marine mammals. *Marine Biodiversity*, 41(1), 181-194. doi:10.1007/s12526-010-0061-0
- Krafft, B. A., Kovacs, K. M., Frie, A. K., Haug, T., & Lydersen, C. (2006). Growth and population parameters of ringed seals (*Pusa hispida*) from Svalbard, Norway, 2002-2004. *Ices Journal of Marine Science*, 63(6), 1136-1144. doi:10.1016/j.icesjms.2006.04.001
- Krafft, B. A., Melle, W., Knutsen, T., Bagoien, E., Broms, C., Ellertsen, B., & Siegel, V. (2010). Distribution and demography of Antarctic krill in the Southeast Atlantic sector of the Southern Ocean during the austral summer 2008. *Polar Biology*, 33(7), 957-968. doi:10.1007/s00300-010-0774-3

- Kraft, A., Graeve, M., Janssen, D., & Falk-Petersen, S. (2013). From polar night to midnight sun: lipid composition and feeding strategies of Arctic pelagic amphipods.
- Ksenofontov, S., Backhaus, N., & Schaeppman-Strub, G. (2017). 'To fish or not to fish?': fishing communities of Arctic Yakutia in the face of environmental change and political transformations. *Polar Record*, 53(3), 289-303.
- Kuletz, K. J., Renner, M., Labunski, E. A., & Hunt, G. L., Jr. (2014). Changes in the distribution and abundance of albatrosses in the eastern Bering Sea: 1975-2010. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 282-292. doi:10.1016/j.dsr2.2014.05.006
- Labansen, A. L., Lydersen, C., Haug, T., & Kovacs, K. M. (2007). Spring diet of ringed seals (*Phoca hispida*) from northwestern Spitsbergen, Norway. *ICES Journal of Marine Science*, 64(6), 1246-1256. doi:10.1093/icesjms/fsm090
- Labansen, A. L., Lydersen, C., Levermann, N., Haug, T., & Kovacs, K. M. (2011). Diet of ringed seals (*Pusa hispida*) from Northeast Greenland. *Polar Biology*, 34(2), 227-234. doi:10.1007/s00300-010-0874-0
- Lachenbruch, A. H., & Marshall, B. V. (1966). Heat flow through Arctic Ocean floor - Canada Basin-alpha rise boundary. *Journal of Geophysical Research*, 71(4), 1223-&.
- Ladd, C. (2014). Seasonal and interannual variability of the Bering Slope Current. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 5-13. doi:10.1016/j.dsr2.2013.12.005
- Ladd, C., & Stabeno, P. J. (2012). Stratification on the Eastern Bering Sea shelf revisited. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 72-83. doi:10.1016/j.dsr2.2012.02.009
- Lagerlund, E., & Houmarknielsen, M. (1993). Timing and pattern of the last deglaciation in the Kattegat Region, southwest Scandinavia. *Boreas*, 22(4), 337-347.
- Laidre, K. L., & Heide-Jorgensen, M. P. (2005). Winter feeding intensity of narwhals (*Monodon monoceros*). *Marine Mammal Science*, 21(1), 45-57. doi:10.1111/j.1748-7692.2005.tb01207.x
- Larsen, J. N., Anisimov, O. A., Constable, A., Hollowed, A. B., Maynard, N., Prestrud, P., . . . Stone, J. M. R. (2014). Polar regions. In V. R. Barros, C. B. Field, D. J. Dokken, M. D. Mastrandrea, K. J. Mach, T. E. Bilir, M. Chatterjee, K. L. Ebi, Y. O. Estrada, R. C. Genova, B. Girma, E. S. Kissel, A. N. Levy, S. MacCracken, P. R. Mastrandrea, & L. L. White (Eds.), *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* (pp. 1567-1612). New York, NY: Cambridge University Press.
- Lauriault, T. P., Taylor, D. R. F., & Pulsifer, P. L. (2008). Will today's internet maps be available tomorrow? The preservation and archiving of the Cybercartographic Atlas of Antarctica through participatory action research. In M. Peterson (Ed.), *International Perspectives on Maps and the Internet* (pp. 417-436). Berlin: Springer.
- Lauvset, S. K., Chierici, M., Counillon, F., Omar, A., Nondal, G., Johannessen, I., & Olsen, A. (2013). Annual and seasonal fCO₂ and air-sea CO₂ fluxes in the Barents Sea. *Journal of Marine Systems*, 113, 62-74. doi:10.1016/j.jmarsys.2012.12.011
- Lawson, J. W., Anderson, J. T., Dalley, E. L., & Stenson, G. B. (1998). Selective foraging by harp seals *Phoca groenlandica* in nearshore and offshore waters of Newfoundland, 1993 and 1994. *Marine Ecology Progress Series*, 163, 1-10. doi:10.3354/meps163001
- Lawson, J. W., Hare, J. A., Noseworthy, E., & Friel, J. K. (1997). Assimilation efficiency of captive ringed seals (*Phoca hispida*) fed different diets. *Polar Biology*, 18(2), 107-111. doi:10.1007/s0030000050164
- Lawson, J. W., Magalhaes, A. M., & Miller, E. H. (1998). Important prey species of marine vertebrate predators in the northwest Atlantic: proximate composition and energy density. *Marine Ecology Progress Series*, 164, 13-20. doi:10.3354/meps164013
- Lawson, J. W., Miller, E. H., & Noseworthy, E. (1997). Variation in assimilation efficiency and digestive efficiency of captive harp seals (*Phoca groenlandica*) on different diets. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 75(8), 1285-1291. doi:10.1139/z97-152
- Lawson, J. W., & Stenson, G. B. (1995). *Historic variation in the diet of harp seals (Phoca groenlandica) in the northwest Atlantic* (Vol. 4).
- Lawson, J. W., & Stenson, G. B. (1997). Diet of northwest Atlantic harp seals (*Phoca groenlandica*) in offshore areas. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 75(12), 2095-2106. doi:10.1139/z97-844
- Lawson, J. W., Stenson, G. B., & McKinnon, D. G. (1995). Diet of harp seals (*Phoca groenlandica*) in nearshore waters of

- the northwest Atlantic during 1990-1993. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 73(10), 1805-1818. doi:10.1139/z95-213
- Leclerc, L.-M. E., Lydersen, C., Haug, T., Bachmann, L., Fisk, A. T., & Kovacs, K. M. (2012). A missing piece in the Arctic food web puzzle? Stomach contents of Greenland sharks sampled in Svalbard, Norway. *Polar Biology*, 35(8), 1197-1208. doi:10.1007/s00300-012-1166-7
- Lee, S. H., McRoy, C. P., Joo, H. M., Gradinger, R., Cui, X., Yun, M. S., . . . Whitley, T. E. (2011). Holes in Progressively Thinning Arctic Sea Ice Lead to New Ice Algae Habitat. *Oceanography*, 24(3), 302-308.
- Legendre, L., Ackley, S. F., Dieckmann, G. S., Gulliksen, B., Horner, R., Hoshiai, T., . . . Sullivan, C. W. (1992). Ecology of sea ice biota .2. Global significance. *Polar Biology*, 12(3-4), 429-444.
- Lehodey, P., Senina, I., Calmettes, B., Hampton, J., & Nicol, S. J. (2013). Modelling the impact of climate change on Pacific skipjack tuna population and fisheries. *Climatic Change*, . doi:DOI 10.1007/s10584-012-0595-1.
- Leu, E., Soreide, J. E., Hessen, D. O., Falk-Petersen, S., & Berge, J. (2011). Consequences of changing sea-ice cover for primary and secondary producers in the European Arctic shelf seas: Timing, quantity, and quality. *Progress in Oceanography*, 90(1-4), 18-32. doi:10.1016/j.pocean.2011.02.004
- Lin, L., Chen, Y., Liao, Y., Zhang, J., Song, P., Yu, X., . . . Shao, K.-t. (2014). Composition of fish species in the Bering and Chukchi Seas and their responses to changes in the ecological environment. *Acta Oceanologica Sinica*, 33(6), 63-73. doi:10.1007/s13131-014-0490-x
- Lin, L., Liao, Y., Zhan, J., Zheng, S., Xiang, P., Yu, X., . . . Shao, K. (2012). Composition and distribution of fish species collected during the fourth Chinese National Arctic Research Expedition in 2010 *Advances in Polar Science*, 23(2), 116-127. doi:doi: 10.3724/SP.J.1085.2012.00116
- Lind, S., & Ingvaldsen, R. B. (2012). Variability and impacts of Atlantic Water entering the Barents Sea from the north. *Deep-Sea Research Part I-Oceanographic Research Papers*, 62, 70-88. doi:10.1016/j.dsr.2011.12.007
- Lindstrom, U., Harbitz, A., Haug, T., & Nilssen, K. T. (1998). Do harp seals *Phoca groenlandica* exhibit particular prey preferences? *ICES Journal of Marine Science*, 55(5), 941-953. doi:10.1006/jmsc.1998.0367
- Link, J. S. (2010). *Ecosystem-based fisheries management : confronting tradeoffs*. Cambridge, UK ; New York Cambridge University Press.
- Lique, C., & Steele, M. (2012). Where can we find a seasonal cycle of the Atlantic water temperature within the Arctic Basin? *Journal of Geophysical Research-Oceans*, 117. doi:10.1029/2011jc007612
- Lobyshev, V. I., Melnikov, I. A., Esikov, A. D., & Nechaev, V. V. (1984). Study of oxygen isotope composition of Arctic drifting ice in relation to activation of phytoplankton growth on the boundary of melting ice. *Biofizika*, 29(5), 835-839.
- Loeng, H., & Drinkwater, K. (2007). An overview of the ecosystems of the Barents and Norwegian Seas and their response to climate variability. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 54(23-26), 2478-2500. doi:10.1016/j.dsr2.2007.08.013
- Logerwell, E., Busby, M., Carothers, C., Cotton, S., Duffy-Anderson, J., Farley, E., . . . Horne, J. (2015). Fish communities across a spectrum of habitats in the western Beaufort Sea and Chukchi Sea. *Progress in Oceanography*, 136, 115-132.
- Logerwell, E., Rand, K., Parker-Stetter, S., Horne, J., Weingartner, T., & Bluhm, B. (2010). *Beaufort Sea Marine Fish Monitoring 2008: Pilot Survey and test of Hypotheses*. Retrieved from Anchorage, AK: http://www.boem.gov/BOEM-Newsroom/Library/Publications/2010/2010_048.aspx
- Logerwell, E., Rand, K., & Weingartner, T. J. (2011). Oceanographic characteristics of the habitat of benthic fish and invertebrates in the Beaufort Sea. *Polar Biology*, 34(11), 1783-1796. doi:10.1007/s00300-011-1028-8
- Lomas, M. W., Moran, S. B., Casey, J. R., Bell, D. W., Tiahlo, M., Whitefield, J., . . . Cokelet, E. D. (2012). Spatial and seasonal variability of primary production on the Eastern Bering Sea shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 126-140. doi:10.1016/j.dsr2.2012.02.010
- Lomas, M. W., & Stabeno, P. J. (2014). An introduction to the Bering Sea Project: Volume III Introduction. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 1-4. doi:10.1016/j.dsr2.2014.09.004
- Lonne, O. J., & Gabrielsen, G. W. (1992). Summer diet of seabirds feeding in sea-ice-covered waters near Svalbard. *Polar Biology*, 12(8), 685-692.
- Lonne, O. J., & Gulliksen, B. (1989). Size, age and diet of Polar cod, *Boreogadus saida* (Lepechin 1773), in ice covered waters. *Polar Biology*, 9(3), 187-191. doi:10.1007/bf00297174

- Lonne, O. J., & Gulliksen, B. (1991). Source, density and composition of sympagic fauna in the Barents Sea. *Polar Research*, 10(1), 289-294. doi:10.1111/j.1751-8369.1991.tb00654.x
- Loseto, L. L., Stern, G. A., Connelly, T. L., Deibel, D., Gemmill, B., Prokopowicz, A., . . . Ferguson, S. H. (2009). Summer diet of beluga whales inferred by fatty acid analysis of the eastern Beaufort Sea food web. *Journal of Experimental Marine Biology and Ecology*, 374(1), 12-18. doi:10.1016/j.jembe.2009.03.015
- Loseto, L. L., Stern, G. A., Deibel, D., Connelly, T. L., Prokopowicz, A., Lean, D. R. S., . . . Ferguson, S. H. (2008). Linking mercury exposure to habitat and feeding behaviour in Beaufort Sea beluga whales. *Journal of Marine Systems*, 74(3-4), 1012-1024. doi:10.1016/j.jmarsys.2007.10.004
- Lowry, L. F., & Frost, K. J. (1981). Distribution, growth, and foods of Arctic cod (*Boreogadus saida*) in the Bering, Chukchi, and Beaufort Seas. *Canadian Field-Naturalist*, 95(2), 186-191.
- Lubchenco, J. (2011). *NOAA's Arctic Vision & Strategy*. Retrieved from http://www.arctic.noaa.gov/docs/NOAAArctic_V_S_2011.pdf
- Luchin, V., & Panteleev, G. (2014). Thermal regimes in the Chukchi Sea from 1941 to 2008. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 14-26. doi:10.1016/j.dsr2.2014.05.007
- Luka, G. I., Shleynik, V.N., Borovkov, V.A. and Sorokin, A.L. (1988). Investigations of marine commercial ecosystems of the Arctic region: experiences from and prospects of fisheries research. 2.
- Lvov, K. M., Bekmurzaev, B. M., & Andreeva, A. P. (1991). Secondary structure of collagen-I from cold-blooded animal skin. *Biofizika*, 36(5), 774-777.
- Lydersen, C., Angantyr, L. A., Wiig, O., & Oritsland, T. (1991). Feeding-habits of northeast Atlantic harp seals (*Phoca groenlandica*) along the summer ice edge of the Barents Sea. *Canadian Journal of Fisheries and Aquatic Sciences*, 48(11), 2180-2183.
- MacDonald, I. R., Bluhm, B. A., Iken, K., Gagaev, S., & Strong, S. (2010). Benthic macrofauna and megafauna assemblages in the Arctic deep-sea Canada Basin. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 57(1-2), 136-152. doi:10.1016/j.dsr2.2009.08.012
- Madsen, M. L., Fevolden, S.-E., & Christiansen, J. S. (2009). A simple molecular approach to distinguish between two Arctic gadoid fishes *Arctogadus glacialis* (Peters, 1874) and *Boreogadus saida* (Lepechin, 1774). *Polar Biology*, 32(6), 937-939. doi:10.1007/s00300-009-0616-3
- Majewski, A. R., Atchison, S., MacPhee, S., Eert, J., Niemi, A., Michel, C., & Reist, J. D. (2017). Marine fish community structure and habitat associations on the Canadian Beaufort shelf and slope. *Deep Sea Research Part I: Oceanographic Research Papers*, 121, 169-182.
- Majewski, A. R., Lynn, B. R., Lowdon, M. K., Williams, W. J., & Reist, J. D. (2013). Community composition of demersal marine fishes on the Canadian Beaufort Shelf and at Herschel Island, Yukon Territory. *Journal of Marine Systems*, 127, 55-64. doi:10.1016/j.jmarsys.2013.05.012
- Majewski, A. R., Walkusz, W., Lynn, B. R., Atchison, S., Eert, J., & Reist, J. D. (2015). Distribution and diet of demersal Arctic Cod, *Boreogadus saida*, in relation to habitat characteristics in the Canadian Beaufort Sea. *Polar Biology*, 1-12.
- Mankevich, E. M. (1962). *Biological characteristics of the separate groups of the Barents Sea cod* Retrieved from
- Marcoux, M., McMeans, B. C., Fisk, A. T., & Ferguson, S. H. (2012). Composition and temporal variation in the diet of beluga whales, derived from stable isotopes. *Marine Ecology Progress Series*, 471, 283-291. doi:10.3354/meps10029
- Marshall, H. D., Hart, K. A., Yaskowiak, E. S., Stenson, G. B., McKinnon, D., & Perry, E. A. (2010). Molecular identification of prey in the stomach contents of Harp Seals (*Pagophilus groenlandicus*) using species-specific oligonucleotides. *Mol Ecol Resour*, 10(1), 181-189. doi:10.1111/j.1755-0998.2009.02713.x
- Maslov, N. A. (1962). *Soviet investigations on the biology of the cod and other demersal fishes of the Barents Sea* Retrieved from
- Maslov, N. A. (1972). Migrations of the Barents Sea cod *Translation series (Fisheries Research Board of Canada); 2129* 43.
- Massom, R. A., Eicken, H., Haas, C., Jeffries, M. O., Drinkwater, M. R., Sturm, M., . . . Allison, I. (2001). Snow on Antarctic Sea ice. *Reviews of Geophysics*, 39(3), 413-445. doi:10.1029/2000rg000085
- Mathis, J. T., Cross, J. N., Monacci, N., Feely, R. A., & Stabeno, P. (2014). Evidence of prolonged aragonite undersaturations in the bottom waters of the southern Bering Sea shelf from autonomous sensors. *Deep-Sea*

- Research Part II-Topical Studies in Oceanography*, 109, 125-133. doi:10.1016/j.dsr2.2013.07.019
- Mathisa, J. T., Cooleyc, S. R., Luceyd, N., Colte, S., Ekstromf, J., Hurstg, T., . . . Feelya, R. A. (2014). Ocean acidification risk assessment for Alaska's fishery sector. *Progress in Oceanography*, *In Press, Corrected Proof*. doi:doi:10.1016/j.pocean.2014.07.001
- Matishov, G., Zuyev, A., Golubev, V., Adrov, N., Timofeev, S., Karamusko, . . . Levitus, S. (2004). *Climatic atlas of the Arctic seas 2004. Part 1, Database of the Barents, Kara, Laptev, and White seas : oceanography and marine biology* Retrieved from Silver Spring:
- Matley, J. K., Crawford, R. E., & Dick, T. A. (2012). Observation of common raven (*Corvus corax*) scavenging Arctic cod (*Boreogadus saida*) from seabirds in the Canadian High Arctic. *Polar Biology*, *35*(7), 1119-1122. doi:10.1007/s00300-011-1148-1
- Matley, J. K., Crawford, R. E., & Dick, T. A. (2012). Summer foraging behaviour of shallow-diving seabirds and distribution of their prey, Arctic cod (*Boreogadus saida*), in the Canadian Arctic. *Polar Research*, *31*. doi:10.3402/polar.v31i0.15894
- Matley, J. K., Fisk, A. T., & Dick, T. A. (2012). Seabird predation on Arctic cod during summer in the Canadian Arctic. *Marine Ecology Progress Series*, *450*, 219-228. doi:10.3354/meps09561
- Matley, J. K., Fisk, A. T., & Dick, T. A. (2013). The foraging ecology of Arctic cod (*Boreogadus saida*) during open water (July-August) in Allen Bay, Arctic Canada. *Marine Biology*, *160*(11), 2993-3004. doi:10.1007/s00227-013-2289-2
- Matta, M. E., & Kimura, D. K. (2012). *Age determination manual of the Alaska Fisheries Science Center Age and Growth Program*: US Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Scientific Publications Office.
- Mauritzen, C., Hansen, E., Andersson, M., Bex, B., Beszczynska-Moeller, A., Burud, I., . . . Riser, C. W. (2011). Closing the loop - Approaches to monitoring the state of the Arctic Mediterranean during the International Polar Year 2007-2008. *Progress in Oceanography*, *90*(1-4), 62-89. doi:10.1016/j.pocean.2011.02.010
- Mayer, M., & Piepenburg, D. (1996). Epibenthic community patterns on the continental slope off East Greenland at 75 degrees N. *Marine Ecology Progress Series*, *143*(1-3), 151-164. doi:10.3354/meps143151
- McAllister, D. E., Anderson, M. E., & Hunter, J. G. (1981). Deep-water eelpouts, *Zoarcidae*, from Arctic Canada and Alaska. *Canadian Journal of Fisheries and Aquatic Sciences*, *38*(7), 821-839.
- McBride, M., Hansen, J., Korneev, O., Titov, O., Stiansen, J., Tchernova, J., . . . Ovsyannikov, A. (2016). Joint Norwegian-Russian environmental status 2013.
- McBride, M. M., Dalpadado, P., Drinkwater, K. F., Godo, O. R., Hobday, A. J., Hollowed, A. B., . . . Loeng, H. (2014). Krill, climate, and contrasting future scenarios for Arctic and Antarctic fisheries. *Ices Journal of Marine Science*, *71*(7), 1934-1955. doi:10.1093/icesjms/fsu002
- McCann, H., McNeave, C., Collins, J., Pulsifer, P., Parsons, M., Gearheard, S., & Huntington, H. (2012). *Archiving local and traditional knowledge of the Arctic: Managing data and information in partnership with indigenous communities and earth scientists*. Paper presented at the Proceedings of the 24th Polar Libraries Colloquy.
- McCann, H., Pulsifer, P., Sheffield, B., & McNeave, C. (2013). Local and traditional knowledge stewardship: Managing data and information from the Arctic. *Witness the Arctic* *17*(2).
- McKinnell, S. M., Brodeur, R. D., Hanawa, K., Hollowed, A. B., Polovina, J. J., & Zhang, C. I. (2001). An introduction to the Beyond El Nino conference: climate variability and marine ecosystem impacts from the tropics to the Arctic. *Progress in Oceanography*, *49*(1-4), 1-6.
- McLaughlin, F. A., Carmack, E. C., Williams, W. J., Zimmermann, S., Shimada, K., & Itoh, M. (2009). Joint effects of boundary currents and thermohaline intrusions on the warming of Atlantic water in the Canada Basin, 1993-2007. *Journal of Geophysical Research-Oceans*, *114*. doi:10.1029/2008jc005001
- Mecklenburg, C. W., & Anderson, M. E. (2015). Reassessment of multiple species of *Gymnelus* (Teleostei: Zoarcidae) in the Pacific Arctic and boreal regions. *Zootaxa*, *3948*(2), 263-U279.
- Mecklenburg, C. W., & Anderson, M. E. (2015). Reassessment of multiple species of *Gymnelus* (Teleostei: Zoarcidae) in Pacific Arctic and boreal regions (vol 3948, pg 263, 2015). *Zootaxa*, *3964*(2), 300-300.
- Mecklenburg, C. W., Byrkjedal, I., Christiansen, J. S., Karamushko, O. V., Lynghammar, A., & R., M. P. (2013). *List of marine fishes of the Arctic region annotated with common names and zoogeographic characterizations*. Retrieved from Akureyri, Iceland: List of marine fishes of the Arctic region annotated with common names

and zoogeographic characterizations

- Mecklenburg, C. W., Byrkjedal, I., Karamushko, O. V., & Møller, P. R. (2014). Atlantic fishes in the Chukchi Borderland. *Marine Biodiversity*, *44*(1), 127-150. doi:10.1007/s12526-013-0192-1
- Mecklenburg, C. W., Mecklenburg, T. A., & Thorsteinson, L. K. (2002). *Fishes of Alaska*. Bethesda, Md.: American Fisheries Society.
- Mecklenburg, C. W., Møller, P. R., & Steinke, D. (2011). Biodiversity of arctic marine fishes: taxonomy and zoogeography. *Marine Biodiversity*, *41*, 109-140. doi:DOI 10.1007/s12526-010-0070-z
- Mecklenburg, C. W., Stein, D. L., Sheiko, B. A., Chernova, N. V., Mecklenburg, T. A., & Holladay, B. A. (2007). Russian-American long-term census of the Arctic: benthic fishes trawled in the Chukchi Sea and Bering Strait, August 2004. *Northwestern Naturalist*, *88*(3), 168-187.
- Mecklenburg, C. W., & Steinke, D. (2015). Ichthyofaunal baselines in the Pacific Arctic region and RUSALCA study area. *Oceanography*, *28*(3), 158-189.
- Mehlum, F., & Gabrielsen, G. W. (1993). The diet of high Arctic seabirds in coastal and ice-covered, pelagic areas near the Svalbard Archipelago. *Polar Research*, *12*(1), 1-20. doi:10.1111/j.1751-8369.1993.tb00417.x
- Mehlum, F., Hunt, G. L., Decker, M. B., & Nordlund, N. (1998). Hydrographic features, cetaceans and the foraging of thick-billed murres and other marine birds in the northwestern Barents Sea. *Arctic*, *51*(3), 243-252.
- Mehlum, F., Hunt, G. L., Klusek, Z., & Decker, M. B. (1999). Scale-dependent correlations between the abundance of Brunnich's guillemots and their prey. *Journal of Animal Ecology*, *68*(1), 60-72. doi:10.1046/j.1365-2656.1999.00267.x
- Mehlum, F., Hunt, G. L., Klusek, Z., Decker, M. B., & Nordlund, N. (1996). The importance of prey aggregations to the distribution of Brunnich's guillemots in Storfjorden, Svalbard. *Polar Biology*, *16*(8), 537-547.
- Melle, W., Abrahamsen, M., Valdemarsen, J. W., Ellertsen, B., & Knutsen, T. (2006). *Design and performance of a new macro-plankton trawl in combination with a multiple cod-end system*. SCOR Working Group 115. Paper presented at the Mini Symposium on Standards for the Survey and Analysis of Plankton., Plymouth, England.
- Mel'nikov, A. I. (1978). Hydrobiological research in the central Arctic Basin (Spring, 1978). *Oceanology of the Academy of Sciences of the USSR*, *18*(6), 748.
- Mel'nikov, I. (1997). The Arctic sea ice ecosystem. *Antarctic Science*, *9*(4), 457-458.
- Mel'nikov, I. A. (1976). Hydrobiological investigations in the central Arctic Ocean. *Oceanology of the Academy of Sciences of the USSR*, *16*(3), 314-315.
- Mel'nikov, I. A. (1981). Hydrobiological studies in the Arctic Ocean (NP-22, December, 1979 - april, 1980). *Okeanologiya*, *21*(2), 397-397.
- Mel'nikov, I. A. (1982). Hydrobiological studies on SP-22 in the Arctic Ocean (spring of 1981). *Okeanologiya*, *22*(1), 158-158.
- Mel'nikov, I. A. (1984). Peculiarities of distribution and behavior of the common species of cryopelagic fauna under drifting Arctic ice. *Zoologicheskyy Zhurnal*, *63*(1), 16-21.
- Mel'nikov, I. A. (2004). Sea ice export as an indicator of changing Arctic Ocean ecology. In S. Skreslet (Ed.), *Jan Mayen Island in Scientific Focus* (Vol. 45, pp. 113-122).
- Mel'nikov, I. A. (2005). Sea ice-upper ocean ecosystems and global changes in the Arctic. *Russian Journal of Marine Biology*, *31*(Suppl. 1), S1-S8.
- Mel'nikov, I. A. (2009). Recent sea ice ecosystem in the Arctic Ocean: a review. In J. C. J. Nihoul & A. G. Kostianoy (Eds.), *Influence of Climate Change on the Changing Arctic and Sub-Arctic Conditions* (pp. 57-71).
- Mel'nikov, I. A. (2011). The Panarctic Ice Drifting Expedition (April 2010). *Oceanology*, *51*(3), 535-537. doi:10.1134/S0001437011030167
- Mel'nikov, I. A. (1977). Hydrobiological investigations in the central part of Arctic Ocean (spring 1976). *Oceanology of the Academy of Sciences of the USSR*, *16*(6), 647.
- Mel'nikov, I. A. (1979). Cryobiological observations in the central Arctic Basin (methods and some results of the studies). *Oceanology of the Academy of Sciences of the USSR*, *19*(1), 93-96.
- Mel'nikov, I. A., & Bondarchuk, L. L. (1987). To the ecology of the mass aggregations of colonial diatom algae under the Arctic drifting sea ice. *Okeanologiya*, *27*(2), 317-321.
- Mel'nikov, I. A., & Chernova, N. V. (2013). Characteristics of under-ice swarming of polar cod *Boreogadus saida* (Gadidae) in the Central Arctic Ocean. *Journal of Ichthyology/Voprosy Ikhtiologii*, *53*(1), 7-15. doi:DOI:

<http://dx.doi.org/10.1134/S0032945213010086>

- Melnikov, I. A., Dikarev, S. N., Egorov, V. G., Kolosova, E. G., & Zhitina, L. S. (2005). Structure of the coastal ice ecosystem in the zone of sea-river interactions. *Oceanology*, 45(4), 511-519.
- Melnikov, I. A., Kolosova, E. G., Welch, H. E., & Zhitina, L. S. (2002). Sea ice biological communities and nutrient dynamics in the Canada Basin of the Arctic Ocean. *Deep-Sea Research Part I-Oceanographic Research Papers*, 49(9), 1623-1649. doi:10.1016/s0967-0637(02)00042-0
- Melnikov, I. A., & Lobishev, V. I. (1985). Fractionating of O-18 within snow-ice cover in the central Arctic Ocean. *Okeanologiya*, 25(2), 237-241.
- Mel'nikov, I. A., & Muraviev, V. B. (1978). Installation test of the air-filled manned undersea chamber "Sprut" under the Arctic drifting ice. *Oceanology of the Academy of Sciences of the USSR*, 18(6), 737-738.
- Mel'nikov, I. A., & Pavlov, G. L. (1978). Characteristics of organic carbon distribution in the waters and ice of the Arctic Basin. *Oceanology of the Academy of Sciences of the USSR*, 18(2), 163-167.
- Mel'nikov, I. A., & Tsynovsky, V. D. (1978). Hydrobiological studies in the Northern Arctic Ocean on NP-23 (May-October, 1977). *Oceanology of the Academy of Sciences of the USSR*, 18(2), 246-247.
- Michalsen, K., Dalpadado, P., Eriksen, E., Gjosaeter, H., Ingvaldsen, R. B., Johannesen, E., . . . Skern-Mauritzen, M. (2013). Marine living resources of the Barents Sea - Ecosystem understanding and monitoring in a climate change perspective. *Marine Biology Research*, 9(9), 932-947. doi:10.1080/17451000.2013.775459
- Michaud, J., Fortier, L., Rowe, P., & Ramseier, R. (1996). Feeding success and survivorship of Arctic cod larvae, *Boreogadus saida*, in the northeast water polynya (Greenland sea). *Fisheries Oceanography*, 5(2), 120-135. doi:10.1111/j.1365-2419.1996.tb00111.x
- Miller, L. A., Chierici, M., Johannessen, T., Noji, T. T., Rey, F., & Skjelvan, I. (1999). Seasonal dissolved inorganic carbon variations in the Greenland Sea and implications for atmospheric CO₂ exchange. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 46(6-7), 1473-1496. doi:10.1016/s0967-0645(99)00031-4
- Mina, M. V. (1968). Study of the relation between the weight of an otolith (sagitta) and the length of an individual in the cod population of the Barents and White Seas *Translation series (Fisheries Research Board of Canada)*; 990 10.
- Misund, O. A., Heggland, K., Skogseth, R., Falck, E., Gjøsæter, H., Sundet, J., . . . Lønne, O. J. (2016). Norwegian fisheries in the Svalbard zone since 1980. Regulations, profitability and warming waters affect landings. *Polar Science*, 10(3), 312-322.
- Moller, P. R., Jordan, A. D., Gravlund, P., & Steffensen, J. F. (2002). Phylogenetic position of the cryopelagic codfish genus *Arctogadus* Drjagin, 1932 based on partial mitochondrial cytochrome b sequences. *Polar Biology*, 25(5), 342-349. doi:10.1007/s00300-001-0348-5
- Møller, P. R., Nielsen, J. G., Knudsen, S. W., Poulsen, J. Y., Sünksen, K., & Jørgensen, O. A. (2010). A checklist of the fish fauna of Greenland waters. *Zootaxa*, 2378, 1-84.
- Monnett, C., & Treacy, S. D. (2005). *Aerial surveys of endangered whales in the Beaufort Sea, fall 2002-2004*. Retrieved from Anchorage, AK: <http://www.boem.gov/BOEM-Newsroom/Library/Publications/2005/2005-037.aspx>
- Moore, S. E. (2000). Variability of Cetacean distribution and habitat selection in the Alaskan Arctic, autumn 1982-91. *Arctic*, 53(4), 448-460.
- Moore, S. E., DeMaster, D. P., & Dayton, P. K. (2000). Cetacean habitat selection in the Alaskan Arctic during summer and autumn. *Arctic*, 53(4), 432-447.
- Moore, S. E., & Stabeno, P. J. (2015). Synthesis of Arctic Research (SOAR) in marine ecosystems of the Pacific Arctic. *Progress in Oceanography*(136), 1-11.
- Morales, L. V., Granger, J., Chang, B. X., Prokopenko, M. G., Plessen, B., Gradinger, R., & Sigman, D. M. (2014). Elevated ¹⁵N/¹⁴N in particulate organic matter, zooplankton, and diatom frustule-bound nitrogen in the ice-covered water column of the Bering Sea eastern shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 100-111. doi:10.1016/j.dsr2.2014.05.008
- Moran, O. (2000). Conduction of nervous impulse at low temperature in Polar fishes. *Italian Journal of Zoology*, 67, 67-71.
- Moran, O., & Melani, R. (2001). Temperature-dependent conduction properties in Arctic fish peripheral nerves. *Polar Biology*, 24(1), 9-15. doi:10.1007/s0030000000166
- Moran, S. B., Lomas, M. W., Kelly, R. P., Gradinger, R., Iken, K., & Mathis, J. T. (2012). Seasonal succession of net primary

- productivity, particulate organic carbon export, and autotrophic community composition in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 84-97.
doi:10.1016/j.dsr2.2012.02.011
- Moran, X. A. G., Lopez-Urrutia, A., Calvo-Diaz, A., & Li, W. K. W. (2010). Increasing importance of small phytoplankton in a warmer ocean. *Glob Chang Biol*, 16(3), 1137-1144. doi:10.1111/j.1365-2486.2009.01960.x
- Mordy, C. W., Cokelet, E. D., Ladd, C., Menzia, F. A., Proctor, P., Stabeno, P. J., & Wisegarver, E. (2012). Net community production on the middle shelf of the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 110-125. doi:10.1016/j.dsr2.2012.02.012
- Mork, K. A., Drinkwater, K. F., Jonsson, S., Valdimarsson, H., & Ostrowski, M. (2014). Water mass exchanges between the Norwegian and Iceland seas over the Jan Mayen Ridge using in-situ current measurements. *Journal of Marine Systems*, 139, 227-240. doi:10.1016/j.jmarsys.2014.06.008
- Moss, J. H., Murphy, J. M., Farley, E. V., Eisner, L. B., & Andrews, A. G. (2009). Juvenile pink and chum salmon distribution, diet, and growth in the northern Bering and Chukchi seas. *N. Pac. Anadr. Fish Comm. Bull*, 5, 191-196.
- Mumm, N., Auel, H., Hanssen, H., Hagen, W., Richter, C., & Hirche, H. J. (1998). Breaking the ice: large-scale distribution of mesozooplankton after a decade of Arctic and transpolar cruises. *Polar Biology*, 20(3), 189-197.
doi:10.1007/s003000050295
- Munk, P., Hansen, B. W., Nielsen, T. G., & Thomsen, H. A. (2003). Changes in plankton and fish larvae communities across hydrographic fronts off West Greenland. *Journal of Plankton Research*, 25(7), 815-830.
doi:10.1093/plankt/25.7.815
- Murphy, S. M., Mueter, F. J., & Braund, S. R. (2007). *Variation in the Abundance of Arctic cisco in the Colville River: Analysis of Existing Data and Local Knowledge, volumes I and II*. Retrieved from Anchorage, AK:
http://www.boem.gov/BOEM-Newsroom/Library/Publications/2007/2007_042.aspx
- Mychek-Londer, J. G., & Bunnell, D. B. (2013). Gastric evacuation rate, index of fullness, and daily ration of Lake Michigan slimy (*Cottus cognatus*) and deepwater sculpin (*Myoxocephalus thompsonii*). *Journal of Great Lakes Research*, 39(2), 327-335. doi:10.1016/j.jglr.2013.03.007
- Nahrgang, J., Camus, L., Broms, F., Christiansen, J. S., & Hop, H. (2010). Seasonal baseline levels of physiological and biochemical parameters in polar cod (*Boreogadus saida*): Implications for environmental monitoring. *Mar Pollut Bull*, 60(8), 1336-1345. doi:10.1016/j.marpolbul.2010.03.004
- Nahrgang, J., Camus, L., Carls, M. G., Gonzalez, P., Jonsson, M., Taban, I. C., . . . Hop, H. (2010). Biomarker responses in polar cod (*Boreogadus saida*) exposed to the water soluble fraction of crude oil. *Aquat Toxicol*, 97(3), 234-242. doi:10.1016/j.aquatox.2009.11.003
- Nahrgang, J., Camus, L., Gonzalez, P., Goksoyr, A., Christiansen, J. S., & Hop, H. (2009). PAH biomarker responses in polar cod (*Boreogadus saida*) exposed to benzo(a)pyrene. *Aquat Toxicol*, 94(4), 309-319.
doi:10.1016/j.aquatox.2009.07.017
- Nahrgang, J., Camus, L., Gonzalez, P., Jonsson, M., Christiansen, J. S., & Hop, H. (2010). Biomarker responses in polar cod (*Boreogadus saida*) exposed to dietary crude oil. *Aquat Toxicol*, 96(1), 77-83.
doi:10.1016/j.aquatox.2009.09.018
- Nahrgang, J., Christiansen, J. S., Hop, H., Sva, E., & Carnus, L. (2008). Seasonal variability of PAH biomarkers in the polar cod (*Boreogadus saida*) with applications for oil toxicity testing. *Mar Environ Res*, 66(1), 178-179.
- Nahrgang, J., Dubourg, P., Frantzen, M., Storch, D., Dahlke, F., & Meador, J. P. (2016). Early life stages of an arctic keystone species (*Boreogadus saida*) show high sensitivity to a water-soluble fraction of crude oil. *Environ Pollut*, 218, 605-614.
- Nahrgang, J., Jonsson, M., & Camus, L. (2010). EROD activity in liver and gills of polar cod (*Boreogadus saida*) exposed to waterborne and dietary crude oil. *Mar Environ Res*, 70(1), 120-123. doi:10.1016/j.marenvres.2010.02.003
- Nahrgang, J., Meier, S., Frantzen, M., Christiansen, J. S., Karamushko, L. I., Wasbotten, I., & Berge, J. (2012). Physiological responses to petroleum-related compounds in the Arctic key species polar cod (*Boreogadus saida*). *Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology*, 163(1), S52-S53.
doi:10.1016/j.cbpa.2012.05.155
- Nahrgang, J., Varpe, O., Korshunova, E., Murzina, S., Hallanger, I. G., Vieweg, I., & Berge, J. (2014). Gender Specific Reproductive Strategies of an Arctic Key Species (*Boreogadus saida*) and Implications of Climate Change.

- PLoS One*, 9(5). doi:10.1371/journal.pone.0098452
- Nahrgang, J., Varpe, Ø., Korshunova, E., Murzina, S., Hallanger, I. G., Vieweg, I., & Berge, J. (2014). Gender specific reproductive strategies of an Arctic key species (*Boreogadus saida*) and implications of climate change. *PLoS One*, 9(5), e98452.
- Neidetcher, S. K., Hurst, T. P., Ciannelli, L., & Logerwell, E. A. (2014). Spawning phenology and geography of Aleutian Islands and eastern Bering Sea Pacific cod (*Gadus macrocephalus*). *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 204-214. doi:10.1016/j.dsr2.2013.12.006
- Nejstgaard, J. C., Frischer, M. E., Raule, C. L., Gruebel, R., Kohlberg, K. E., & Verity, P. G. (2003). Molecular detection of algal prey in copepod guts and fecal pellets. *Limnology and Oceanography-Methods*, 1(1), 29-38.
- Nejstgaard, J. C., Naustvoll, L. J., & Sazhin, A. (2001). Correcting for underestimation of microzooplankton grazing in bottle incubation experiments with mesozooplankton. *Marine Ecology Progress Series*, 221, 59-75. doi:10.3354/meps221059
- Nelson, R. J., Ashjian, C. J., Bluhm, B. A., Conlan, K. E., Gradinger, R. R., Grebmeier, J. M., . . . Joo, H. M. (2014). Biodiversity and biogeography of the lower trophic taxa of the Pacific Arctic region: sensitivities to climate change *The Pacific Arctic Region* (pp. 269-336): Springer.
- Nelson, R. J., Bouchard, C., Madsen, M., Praebel, K., Rondeau, E., von Schalburg, K., . . . Koop, B. F. (2013). Microsatellite loci for genetic analysis of the Arctic gadids *Boreogadus saida* and *Arctogadus glacialis*. *Conservation Genetics Resources*, 5(2), 445-448. doi:10.1007/s12686-012-9824-1
- Nilssen, K. T., Haug, T., Potelov, V., & Timoshenko, Y. K. (1995). Feeding-habits of harp seals (*Phoca groenlandica*) during early summer and autumn in the northern Barents Sea. *Polar Biology*, 15(7), 485-493.
- Nilssen, K. T., Pedersen, O. P., Folkow, L. P., & Haug, T. (2000). Food consumption estimates of Barents Sea harp seals. In G. A. Vikingsson & F. O. Kapel (Eds.), *Minke Whales, Harp and Hooded Seals: Major Predators in the North Atlantic Ecosystem* (Vol. 2, pp. 9-27).
- Nisovtsev, G. P. (1973). Results of a survey of young cod population in the Barents Sea in the autumn-winter period 1967/68 *NOO Trans* 580 3.
- Nizovtsev, G. P., & Trambachev, M. F. (1969). Soviet investigations on young cod of the O, I, II, and III age-groups in the Barents Sea *ICES CM (International Council for the Exploration of the Sea. Demersal Fish (Northern Committee); 1969/F:13* 3.
- Norcross, B. L., Brown, E. D., Foy, R. J., Frandsen, M., Gay, S. M., Kline, T. C., . . . Stokesbury, K. D. (2001). A synthesis of the life history and ecology of juvenile Pacific herring in Prince William Sound, Alaska. *Fisheries Oceanography*, 10(s1), 42-57.
- Norcross, B. L., Holladay, B. A., & Mecklenburg, C. W. (2013). *Recent and Historical Distribution and Ecology of Demersal Fishes in the Chukchi Sea Planning Area*. Retrieved from Fairbanks, AK: http://www.boem.gov/BOEM-Newsroom/Library/Publications/2012/CMI-2012-073_pdf.aspx
- www.data.boem.gov/PI/PDFImages/ESPIS/5/5291.pdf
- Norcross, B. L., Holladay, B. A., & Mütter, F. J. (1995). Nursery area characteristics of pleuronectids in coastal Alaska, USA. *Netherlands Journal of Sea Research*, 34(1), 161-175.
- Norcross, B. L., Raborn, S. W., Holladay, B. A., Gallaway, B. J., Crawford, S. T., Priest, J. T., . . . Meyer, R. (2013). Northeastern Chukchi Sea demersal fishes and associated environmental characteristics, 2009-2010. *Continental Shelf Research*, 67, 77-95. doi:10.1016/j.csr.2013.05.010
- Nordoy, E. S., Folkow, L. P., Potelov, V., Prischemikhin, V., & Blix, A. S. (2008). Seasonal distribution and dive behaviour of harp seals (*Pagophilus groenlandicus*) of the White Sea-Barents Sea stock. *Polar Biology*, 31(9), 1119-1135. doi:10.1007/s00300-008-0453-9
- Nordstrom, C. A., Benoit-Bird, K. J., Battaile, B. C., & Trites, A. W. (2013). Northern fur seals augment ship-derived ocean temperatures with higher temporal and spatial resolution data in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 257-273. doi:10.1016/j.dsr2.2013.03.022
- Norris, A. J., & McKinley, P. (2017). The central Arctic Ocean-preventing another tragedy of the commons. *Polar Record*, 53(1), 43-51.
- North Pacific Fishery Management Council (NPFMC). (2009). *Fishery Management Plan for Fish Resources of the Arctic Management Area*. Retrieved from Anchorage, AK:

- Nøttestad, L., Utne, K. R., Óskarsson, G. J., Jónsson, S. Þ., Jacobsen, J. A., Tangen, Ø., . . . Bernasconi, M. (2016). Quantifying changes in abundance, biomass, and spatial distribution of Northeast Atlantic mackerel (*Scomber scombrus*) in the Nordic seas from 2007 to 2014. *ICES Journal of Marine Science: Journal du Conseil*, 73(2), 359-373.
- Novikova, N. S. (1966). On the role of comb-jellies in the food of Barents Sea cod and haddock *Translation series (Fisheries Research Board of Canada)*; 753
- Novikova, N. S. (1966). Some problems concerning the food and the feeding behaviour of cod and haddock in the Barents Sea *Translation series (Fisheries Research Board of Canada)*; 774 116.
- Novikova, N. S., & Mikhalkovich, V. I. (1971). Observations on the feeding of cod and haddock in the Barents Sea by observations lasting several days *Translation series (Fisheries Research Board of Canada)*; 1666 46.
- Ohashi, R., Yamaguchi, A., Matsuno, K., Saito, R., Yamada, N., Iijima, A., . . . Imai, I. (2013). Interannual changes in the zooplankton community structure on the southeastern Bering Sea shelf during summers of 1994-2009. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 44-56. doi:10.1016/j.dsr2.2013.03.018
- Oigard, T. A., Lindstrom, U., Haug, T., Nilssen, K. T., & Smout, S. (2013). Functional relationship between harp seal body condition and available prey in the Barents Sea. *Marine Ecology Progress Series*, 484, 287-+. doi:10.3354/meps10272
- Olaso, I., Lombarte, A., & Velasco, F. (2004). Daily ration of Antarctic silverfish (*Pleuragramma antarcticum* Boulenger, 1902) in the eastern Weddell Sea. *Scientia Marina*, 68(3), 419-424.
- Olsen, A., Brown, K. R., Chierici, M., Johannessen, T., & Neill, C. (2008). Sea-surface CO₂ fugacity in the subpolar North Atlantic. *Biogeosciences*, 5(2), 535-547.
- Onarheim, I. H., Smedsrud, L. H., Ingvaldsen, R. B., & Nilsen, F. (2014). Loss of sea ice during winter north of Svalbard. *Tellus Series a-Dynamic Meteorology and Oceanography*, 66. doi:10.3402/tellusa.v66.23933
- O'Reilly, P. T., Canino, M. F., Bailey, K. M., & Bentzen, P. (2000). Isolation of twenty low stutter di- and tetranucleotide microsatellites for population analyses of walleye pollock and other gadoids. *J Fish Biol*, 56(5), 1074-1086. doi:10.1006/jfbi.2000.1230
- Orlova, E. L., Dolgov, A. V., Rudneva, G. B., Oganin, I. A., & Konstantinova, L. L. (2009). Trophic relations of capelin *Mallotus villosus* and polar cod *Boreogadus saida* in the Barents Sea as a factor of impact on the ecosystem. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 56(21-22), 2054-2067. doi:10.1016/j.dsr2.2008.11.016
- Orr, D. C., & Bowering, W. R. (1997). A multivariate analysis of food and feeding trends among Greenland halibut (*Reinhardtius hippoglossoides*) sampled in Davis Strait, during 1986. *ICES Journal of Marine Science*, 54(5), 819-829. doi:10.1006/jmsc.1996.0198
- Orr, J. C., Fabry, V. J., Aumont, O., Bopp, L., Doney, S. C., Feely, R. A., . . . Yool, A. (2005). Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. *Nature*, 437(7059), 681-686. doi:10.1038/nature04095
- Orr, J. W., & Matarese, A. C. (2000). Revision of the genus *Lepidopsetta* Gill, 1862 (Teleostei : Pleuronectidae) based on larval and adult morphology, with a description of a new species from the North Pacific Ocean and Bering Sea. *Fishery Bulletin*, 98(3), 539-582.
- Ortman, B. D., Bucklin, A., Pages, F., & Youngbluth, M. (2010). DNA Barcoding the Medusozoa using mtCOI. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 57(24-26), 2148-2156. doi:10.1016/j.dsr2.2010.09.017
- Overland, J. E., Wang, M., Wood, K. R., Percival, D. B., & Bond, N. A. (2012). Recent Bering Sea warm and cold events in a 95-year context. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 6-13. doi:10.1016/j.dsr2.2012.02.013
- Paakkonen, J. P. J., & Lyytikäinen, T. (2000). Oxygen consumption of burbot, *Lota lota* (L.), fed different rations of vendace, *Coregonus albula* L. *Journal of Applied Ichthyology-Zeitschrift Fur Angewandte Ichthyologie*, 16(6), 262-265. doi:10.1046/j.1439-0426.2000.00251.x
- Pálsson, Ó. K., Gislason, A., Guðfinnsson, H. G., Gunnarsson, B., Ólafsdóttir, S. R., Petursdóttir, H., . . . Valdimarsson, H. (2012). Ecosystem structure in the Iceland Sea and recent changes to the capelin (*Mallotus villosus*) population. *ICES Journal of Marine Science: Journal du Conseil*, 69(7), 1242-1254.
- Palsson, S., Kallman, T., Paulsen, J., & Arnason, E. (2009). An assessment of mitochondrial variation in Arctic gadoids. *Polar Biology*, 32(3), 471-479. doi:10.1007/s00300-008-0542-9

- Palsson, S., Paulsen, J., & Arnason, E. (2008). Rapid evolution of the intergenic T-P spacer in the mtDNA of Arctic cod *Arctogadus glacialis*. *Mar Biotechnol (NY)*, *10*(3), 270-277. doi:10.1007/s10126-007-9058-5
- PAME. (2011). *Report from the PAME Workshop on Ecosystem: Approach to Management. 22-23 January 2011, Tromsø, Norway*. Retrieved from
- Pan, M., & Huntington, H. P. (2016). A precautionary approach to fisheries in the Central Arctic Ocean: Policy, science, and China. *Marine Policy*, *63*, 153-157.
- Park, H., Sherstiukov, A. B., Fedorov, A. N., Polyakov, I. V., & Walsh, J. E. (2014). An observation-based assessment of the influences of air temperature and snow depth on soil temperature in Russia. *Environmental Research Letters*, *9*(6). doi:10.1088/1748-9326/9/6/064026
- Parker-Stetter, S. L., Horne, J. K., Farley, E. V., Barbee, D. H., Andrews, A. G., III, Eisner, L. B., & Nomura, J. M. (2013). Summer distributions of forage fish in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, *94*, 211-230. doi:10.1016/j.dsr2.2013.04.022
- Parker-Stetter, S. L., Horne, J. K., & Weingartner, T. J. (2011). Distribution of polar cod and age-0 fish in the US Beaufort Sea. *Polar Biology*, *34*(10), 1543-1557. doi:10.1007/s00300-011-1014-1
- Parmesan, C. (2006). Ecological and evolutionary responses to recent climate change *Annual Review of Ecology Evolution and Systematics* (Vol. 37, pp. 637-669).
- Parush, A., Pulsifer, P. L., Philip, K., & Dunn, G. (2006). Understanding through structure: The challenges of information and navigation architecture in cybercartography. *Cartographica*, *41*(1), 21-34.
- Paulic, J. E., & Papst, M. H. (2013). Larval and early juvenile fish distribution and assemblage structure in the Canadian Beaufort Sea during July-August, 2005. *Journal of Marine Systems*, *127*, 46-54. doi:10.1016/j.jmarsys.2012.03.006
- Pauly, D., & Swartz, W. (2007). Marine fish catches in North Siberia (Russia, FAO Area 18). *Reconstruction of marine fisheries catches for key countries and regions (1950-2005)*. *Fisheries Centre Research Reports*, *15*(2), 17-33.
- Pedersen, S. A. (1994). Shrimp trawl catches and stomach contents of redfish, Greenland halibut and starry ray from West Greenland during a 24-hour cycle. *Polar Research*, *13*(2), 183-196. doi:10.1111/j.1751-8369.1994.tb00448.x
- Pedersen, S. A., & Kannevorff, P. (1995). Fish on the west Greenland shrimp grounds, 1988-1992. *ICES Journal of Marine Science*, *52*(2), 165-182. doi:10.1016/1054-3139(95)80033-6
- Peklova, I., Hussey, N. E., Hedges, K. J., Treble, M. A., & Fisk, A. T. (2014). Movement, depth and temperature preferences of an important bycatch species, Arctic skate *Amblyraja hyperborea*, in Cumberland Sound, Canadian Arctic. *Endangered Species Research*, *23*(3), 229-240.
- Perovich, D., Gerland, S., Hendricks, S., Meier, W., Nicolaus, M., Richter-Menge, J., & Tschudi, M. (2013). Sea Ice [in Arctic Report Card 2013]. *Arctic Report Card 2013*.
- Petursdottir, H., Falk-Petersen, S., & Gislason, A. (2012). Trophic interactions of meso-and macrozooplankton and fish in the Iceland Sea as evaluated by fatty acid and stable isotope analysis. *ICES Journal of Marine Science: Journal du Conseil*, *69*(7), 1277-1288.
- Philippart, C. J. M., Anadon, R., Danovaro, R., Dippner, J. W., Drinkwater, K. F., Hawkins, S. J., . . . Reid, P. C. (2011). Impacts of climate change on European marine ecosystems: Observations, expectations and indicators. *Journal of Experimental Marine Biology and Ecology*, *400*(1-2), 52-69. doi:10.1016/j.jembe.2011.02.023
- Piechura, J., & Walczowski, W. (2009). Warming of the West Spitsbergen Current and sea ice north of Svalbard. *Oceanologia*, *51*(2), 147-164. doi:10.5697/oc.51-2.147
- Piepenburg, D., Blackburn, T. H., Vondorrien, C. F., Gutt, J., Hall, P. O. J., Hulth, S., . . . Schmid, M. K. (1995). Partitioning of benthic community respiration in the Arctic (Northwestern Barents Sea). *Marine Ecology Progress Series*, *118*(1-3), 199-213. doi:10.3354/meps118199
- Piepenburg, D., & Schmid, M. K. (1996). Brittle star fauna (Echinodermata: Ophiuroidea) of the Arctic northwestern Barents Sea: Composition, abundance, biomass and spatial distribution. *Polar Biology*, *16*(6), 383-392. doi:10.1007/bf02390420
- Pimm, S. L. (2009). Climate Disruption and Biodiversity. *Current Biology*, *19*(14), R595-R601. doi:10.1016/j.cub.2009.05.055
- Plaganyi, E. E., Bell, J. D., Bustamante, R. H., Dambacher, J. M., Dennis, D. M., Dichmont, C. M., . . . Zhou, S. (2011). Modelling climate-change effects on Australian and Pacific aquatic ecosystems: a review of analytical tools

- and management implications. *Marine and Freshwater Research* 62(9), 1132-1147
doi:<http://dx.doi.org/10.1071/MF10279>
- Pnyushkov, A. V., & Polyakov, I. V. (2012). Observations of tidally induced currents over the Continental Slope of the Laptev Sea, Arctic Ocean. *Journal of Physical Oceanography*, 42(1), 78-94. doi:10.1175/jpo-d-11-064.1
- Pnyushkov, A. V., Polyakov, I. V., Ivanov, V. V., & Kikuchi, T. (2013). Structure of the Fram Strait branch of the boundary current in the Eurasian Basin of the Arctic Ocean. *Polar Science*, 7(2), 53-71. doi:10.1016/j.polar.2013.02.001
- Poltermann, M. (2001). Arctic sea ice as feeding ground for amphipods - food sources and strategies. *Polar Biology*, 24(2), 89-96. doi:10.1007/s003000000177
- Polyakov, I., Walsh, D., Dmitrenko, I., Colony, R. L., & Timokhov, L. A. (2003). Arctic Ocean variability derived from historical observations. *Geophys Res Lett*, 30(6). doi:10.1029/2002gl016441
- Polyakov, I. V. (1994). Maintenance of the Arctic-Ocean large-scale baroclinic structure by the m2 tide. *Polar Research*, 13(2), 219-232. doi:10.1111/j.1751-8369.1994.tb00451.x
- Polyakov, I. V. (1994). On the maintenance mechanism of the Arctic-Ocean baroclinic fields structure by the tidal motion. *Doklady Akademii Nauk*, 335(5), 640-642.
- Polyakov, I. V. (1996). Diagnostic computations of the Arctic Ocean currents and sea level variations. *Izvestiya Akademii Nauk Fizika Atmosfery I Okeana*, 32(5), 690-703.
- Polyakov, I. V. (1996). On interannual variability of the Arctic Ocean winter baroclinic currents. *Okeanologiya*, 36(2), 179-188.
- Polyakov, I. V. (1999). Modeling seasonal variability in the Arctic Ocean. *Okeanologiya*, 39(4), 493-503.
- Polyakov, I. V. (2014). Estimates of the Dirichlet Kernel and Divergent Fourier Series in the Walsh-Kaczmarz System. *Mathematical Notes*, 95(1-2), 232-244. doi:10.1134/s0001434614010258
- Polyakov, I. V., Alekseev, G. V., Bekryaev, R. V., Bhatt, U., Colony, R. L., Johnson, M. A., . . . Yulin, A. V. (2002). Observationally based assessment of Polar amplification of global warming. *Geophys Res Lett*, 29(18). doi:10.1029/2001gl011111
- Polyakov, I. V., Alekseev, G. V., Bekryaev, R. V., Bhatt, U. S., Colony, R., Johnson, M. A., . . . Yulin, A. V. (2003). Long-term ice variability in Arctic marginal seas. *Journal of Climate*, 16(12), 2078-2085. doi:10.1175/1520-0442(2003)016<2078:liviam>2.0.co;2
- Polyakov, I. V., Alekseev, G. V., Timokhov, L. A., Bhatt, U. S., Colony, R. L., Simmons, H. L., . . . Zakharov, V. F. (2004). Variability of the intermediate Atlantic water of the Arctic Ocean over the last 100 years. *Journal of Climate*, 17(23), 4485-4497. doi:10.1175/jcli-3224.1
- Polyakov, I. V., Alexeev, V. A., Ashik, I. M., Bacon, S., Beszczynska-Moeller, A., Carmack, E. C., . . . Woodgate, R. (2011). Fate of early 2000s Arctic warm water pulse. *Bulletin of the American Meteorological Society*, 92(5), 561-566. doi:10.1175/2010bams2921.1
- Polyakov, I. V., Alexeev, V. A., Belchansky, G. I., Dmitrenko, I. A., Ivanov, V. V., Kirillov, S. A., . . . Yashayaev, I. (2008). Arctic Ocean freshwater changes over the past 100 years and their causes. *Journal of Climate*, 21(2), 364-384. doi:10.1175/2007jcli1748.1
- Polyakov, I. V., Alexeev, V. A., Bhatt, U. S., Polyakova, E. I., & Zhang, X. (2010). North Atlantic warming: patterns of long-term trend and multidecadal variability. *Climate Dynamics*, 34(2-3), 439-457. doi:10.1007/s00382-008-0522-3
- Polyakov, I. V., Bekryaev, R. V., Alekseev, G. V., Bhatt, U. S., Colony, R. L., Johnson, M. A., . . . Walsh, D. (2003). Variability and trends of air temperature and pressure in the maritime Arctic, 1875-2000. *Journal of Climate*, 16(12), 2067-2077. doi:10.1175/1520-0442(2003)016<2067:vatoat>2.0.co;2
- Polyakov, I. V., Beszczynska, A., Carmack, E. C., Dmitrenko, I. A., Fahrbach, E., Frolov, I. E., . . . Walsh, J. E. (2005). One more step toward a warmer Arctic. *Geophys Res Lett*, 32(17). doi:10.1029/2005gl023740
- Polyakov, I. V., Bhatt, U. S., Simmons, H. L., Walsh, D., Walsh, J. E., & Zhang, X. (2005). Multidecadal variability of North Atlantic temperature and salinity during the twentieth century. *Journal of Climate*, 18(21), 4562-4581. doi:10.1175/jcli3548.1
- Polyakov, I. V., Bhatt, U. S., Walsh, J. E., Abrahamsen, E. P., Pnyushkov, A. V., & Wassmann, P. F. (2013). Recent oceanic changes in the Arctic in the context of long-term observations. *Ecological Applications*, 23(8), 1745-1764. doi:10.1890/11-0902.1
- Polyakov, I. V., Bolton, R., Greve, R., Hutchings, J., Kim, S.-J., Kim, Y., & Lee, S. H. (2014). Promoting international, multidisciplinary efforts in detecting and understanding high-latitude changes, and searching for their global

- impacts. *Polar Science*, 8(2), 53-56. doi:10.1016/j.polar.2014.03.002
- Polyakov, I. V., & Doronin, N. Y. (1999). A diagnostic study of the Arctic Ocean winter density-driven circulation in 1973-79. *Polar Research*, 18(1), 27-38. doi:10.1111/j.1751-8369.1999.tb00275.x
- Polyakov, I. V., & Johnson, M. A. (2000). Arctic decadal and interdecadal variability. *Geophys Res Lett*, 27(24), 4097-4100. doi:10.1029/2000gl011909
- Polyakov, I. V., Kulakov, I. Y., Kolesov, S. A., Dmitriev, N. E., Pritchard, R. S., Driver, D., & Naumov, A. K. (1998). Coupled sea ice-ocean model of the Arctic Ocean. *Journal of Offshore Mechanics and Arctic Engineering-Transactions of the Asme*, 120(2), 77-84. doi:10.1115/1.2829527
- Polyakov, I. V., Kulakov, I. Y., Kolesov, S. A., Dmitriev, N. E., Pritchard, R. S., Driver, D., & Naumov, A. K. (1998). Thermodynamic ice-ocean model: Description and experiments. *Izvestiya Akademii Nauk Fizika Atmosfery i Okeana*, 34(1), 51-58.
- Polyakov, I. V., Pnyushkov, A. V., Rember, R., Padman, L., Carmack, E. C., & Jackson, J. M. (2013). Winter convection transports Atlantic water heat to the surface layer in the Eastern Arctic Ocean. *Journal of Physical Oceanography*, 43(10), 2142-2155. doi:10.1175/jpo-d-12-0169.1
- Polyakov, I. V., Pnyushkov, A. V., & Timokhov, L. A. (2012). Warming of the Intermediate Atlantic Water of the Arctic Ocean in the 2000s. *Journal of Climate*, 25(23), 8362-8370. doi:10.1175/jcli-d-12-00266.1
- Polyakov, I. V., Proshutinsky, A. Y., & Johnson, M. A. (1999). Seasonal cycles in two regimes of Arctic climate. *Journal of Geophysical Research-Oceans*, 104(C11), 25761-25788. doi:10.1029/1999jc900208
- Polyakov, I. V., & Timokhov, L. A. (1995). Thermohaline circulation of the Arctic-Ocean. *Doklady Akademii Nauk*, 342(2), 254-258.
- Polyakov, I. V., Timokhov, L. A., Alexeev, V. A., Bacon, S., Dmitrenko, I. A., Fortier, L., . . . Toolen, J. (2010). Arctic Ocean warming contributes to reduced Polar ice cap. *Journal of Physical Oceanography*, 40(12), 2743-2756. doi:10.1175/2010jpo4339.1
- Polyakov, I. V., Walsh, J. E., & Kwok, R. (2012). Recent changes of Arctic multiyear sea ice coverage and the likely causes. *Bulletin of the American Meteorological Society*, 93(2), 145-151. doi:10.1175/bams-d-11-00070.1
- Polyakova, E. I., Journel, A. G., Polyakov, I. V., & Bhatt, U. S. (2006). Changing relationship between the North Atlantic Oscillation and key North Atlantic climate parameters. *Geophys Res Lett*, 33(3). doi:10.1029/2005gl024573
- Polyanskii, Y. I., & Kulemina, I. V. (1966). On the parasite fauna of young cod in the Barents Sea *Translation series (Fisheries Research Board of Canada); 826*
- Ponomare, V. P. (1965). Gonad development and terms of spawning of Polar cod (*Boreogadus saida* Lepechin) in Barents Sea. *Dokl Akad Nauk SSSR*, 161(3), 697-&.
- Ponomarenko, I. Y. (1971). Feeding, biological indexes, and survival of "bottom" young cod in the Barents Sea *Translation series (Fisheries Research Board of Canada); 1903 34.*
- Ponomarenko, V. (2000). Eggs, larvae, and juveniles of polar cod *Boreogadus saida* in the Barents, Kara, and White Seas. *Journal of Ichthyology*, 40(2), 165-173.
- Ponomarenko, V. P. (1965). Natural, fishing and total mortalities of cod of the Barents Sea stock in 1946-1963 *Translation series (Fisheries Research Board of Canada); 557 5.*
- Ponomarenko, V. P. (1968). *Feeding of the larvae and fry of the Arctic cod (Boreogadus saida Lepechin) in the Barents and Kara Seas* Retrieved from
- Ponomarenko, V. P. (1969). On the effect of fishing on the rate of growth and maturation of the Barents Sea cod *Translation series (Fisheries Research Board of Canada); 1347 20.*
- Ponomarenko, V. P. (1970). Features of body fat dynamics of cod in the Barents Sea *Translation series (Fisheries Research Board of Canada); 1892*
- Ponomarenko, V. P. (1972). The effect of commercial fishing on the useable stock and recruitment of cod in the Barents Sea *Translation series (Fisheries Research Board of Canada); 2125*
- Ponomorenko, V. P. (1970). Biological substantiation of optimum fishing intensity in the cod fishery of the Barents Sea *Translation series (Fisheries Research Board of Canada); 1548 36.*
- Ponton, D., & Fortier, L. (1992). Vertical-distribution and foraging of marine fish larvae under the ice cover of southeastern hudson bay. *Marine Ecology Progress Series*, 81(3), 215-227. doi:10.3354/meps081215
- Ponton, D., Gagne, J. A., & Fortier, L. (1993). Production and dispersion of fresh-water, anadromous, and marine fish larvae in and around a river plume in sub Arctic Hudson Bay, Canada. *Polar Biology*, 13(5), 321-331.

- Posgay, J., & Marak, R. (1980). The MARMAP bongo zooplankton samplers. *J. Northw. Atl. Fish. Sci.*, 1, 91-99.
- Potelov, V., Nilssen, K. T., Svetochev, V., & Haug, T. (2000). Feeding habits of harp (*Phoca groenlandica*) and hooded seals (*Cystophora cristata*) during late winter, spring and early summer in the Greenland Sea. In G. A. Vikingsson & F. O. Kapel (Eds.), *Minke Whales, Harp and Hooded Seals: Major Predators in the North Atlantic Ecosystem* (Vol. 2, pp. 40-49).
- Praebel, K., & Ramlov, H. (2005). Antifreeze activity in the gastrointestinal fluids of *Arctogadus glacialis* (Peters 1874) is dependent on food type. *Journal of Experimental Biology*, 208(13), 2609-2613. doi:10.1242/jeb.01666
- Proshutinsky, A. Y., Polyakov, I. V., & Johnson, M. A. (1999). Climate states and variability of Arctic ice and water dynamics during 1946-1997. *Polar Research*, 18(2), 135-142. doi:10.1111/j.1751-8369.1999.tb00285.x
- Pulsifer, P., Gearheard, S., Huntington, H. P., Parsons, M. A., & McNeave, C. (2012). The role of data management in engaging communities in Arctic research: overview of the Exchange for Local Observations and Knowledge of the Arctic (ELOKA). *Polar Geography*, 35(3-4), 271-290. doi:
<http://dx.doi.org/10.1080/1088937X.2012.708364>
- Pulsifer, P., & Taylor, D. R. F. (2007). Spatial data infrastructures: Implications for sovereignty in the Canadian Arctic, *Meridian Newsletter of the Canadian Polar Commission*(Spring/Summerr), 1-5.
- Pulsifer, P. L. (2005). Antarctic data management and geographic information. *Newsletter for the Canadian Antarctic Research Network*, 19, 12.
- Pulsifer, P. L., Caquard, S., & Taylor, D. R. F. (2006). Toward a new generation of community atlases—The Cybercartographic Atlas of Antarctica. In W. Cartwright, M. Peterson, & G. Gartner (Eds.), *Multimedia Cartography* (Second Edition ed., pp. 195-216): Springer-Verlag.
- Pulsifer, P. L., Hayes, A., Fiset, J. P., & Taylor, D. R. F. (2008). An education and outreach atlas based on geographic infrastructure: Lessons learned from the development of an on-line Polar atlas. *Geomatica* 62(2), 169-188.
- Pulsifer, P. L., Hayes, A., Fiset, J.-P., & Taylor, D. R. F. (2008). An open source development framework in support of cartographic integration. In M. Peterson (Ed.), *International Perspectives on Maps and the Internet* (pp. 165-185.). Berlin: Springer.
- Pulsifer, P. L., Laidler, G. J., Taylor, D. R. F., & Hayes, A. (2011). Towards an Indigenist data management program: reflections on experiences developing an atlas of sea ice knowledge and use. *Canadian Geographer / Le Géographe canadien*, 55(1), 108-124. doi:10.1111/j.1541-0064.2010.00348.x
- Pulsifer, P. L., Parush, A., Lindgaard, G., & Taylor, D. R. F. (2005). The development of the Cybercartographic Atlas of Antarctica. In D. R. F. Taylor (Ed.), *Cybercartography: Theory and Practice* (pp. 461-490). Amsterdam: Elsevier.
- Pulsifer, P. L., & Taylor, D. R. F. (2005). The cartographer as mediator: Cartographic representation from shared geographic information. In D. R. F. Taylor (Ed.), *Cybercartography: Theory and Practice*, (pp. 149-179). Amsterdam: Elsevier.
- Pulsifer, P. L., Taylor, D. R. F., & Laidler, G. (2010). Creating an online cybercartography atlas of Indigenous sea ice knowledge and use. In I. Krupnik, C. Aporta, S. Gearheard, L. K. Holm, & G. Laidler (Eds.), *SIKU: Arctic Residents Document Sea Ice and Climate Change: Assessing Arctic Environmental and Social Change*. Berlin: Springer.
- Pulsifer, P. L., Yarmey, L., Godøy, O., Friddell, J., Parsons, M., Vincent, W. F., . . . Huck, J. (2014). Towards an international Polar data coordination network. *Data Science Journal*, 13, PDA94-PDA102. doi:<http://dx.doi.org/10.2481/dsj.IFPDA-16>
- Quast, J. C. (1974). Density distribution of juvenile Arctic cod, *Boreogadus saida*, in eastern Chukchi sea in fall of 1970. *Fishery Bulletin*, 72(4), 1094-1105.
- Rainville, L., & Winsor, P. (2008). Mixing across the Arctic ocean: Microstructure observations during the Beringia 2005 expedition. *Geophys Res Lett*, 35(8). doi:10.1029/2008gl033532
- Rand, K. M., & Logerwell, E. A. (2011). The first demersal trawl survey of benthic fish and invertebrates in the Beaufort Sea since the late 1970s. *Polar Biology*, 34(4), 475-488. doi:10.1007/s00300-010-0900-2
- Rand, K. M., Whitehouse, A., Logerwell, E. A., Ahgeak, E., Hibpshman, R., & Parker-Stetter, S. (2013). The diets of polar cod (*Boreogadus saida*) from August 2008 in the US Beaufort Sea. *Polar Biology*, 36(6), 907-912. doi:10.1007/s00300-013-1303-y
- Rass, T. (1968). Spawning and development of polar cod. *Rapp PV Reun Cons Perm Int Explor Mer*, 158, 135-137.
- Reigstad, M., Carroll, J., Slagstad, D., Ellingsen, I., & Wassmann, P. (2011). Intra-regional comparison of productivity,

- carbon flux and ecosystem composition within the northern Barents Sea. *Progress in Oceanography*, 90(1-4), 33-46. doi:10.1016/j.pocean.2011.02.005
- Reist, J. D., Wrona, F. J., Prowse, T. D., Power, M., Dempson, J. B., Beamish, R. J., . . . Sawatzky, C. D. (2006). General effects of climate change on Arctic fishes and fish populations. *AMBIO: A Journal of the Human Environment*, 35(7), 370-380.
- Renaud, P. E., Berge, J., Varpe, O., Lonne, O. J., Nahrgang, J., Ottesen, C., & Hallanger, I. (2012). Is the poleward expansion by Atlantic cod and haddock threatening native polar cod, *Boreogadus saida*? *Polar Biology*, 35(3), 401-412. doi:10.1007/s00300-011-1085-z
- Renaud, P. E., Morata, N., Carroll, M. L., Denisenko, S. G., & Reigstad, M. (2008). Pelagic–benthic coupling in the western Barents Sea: processes and time scales. *Deep Sea Research Part II: Topical Studies in Oceanography*, 55(20), 2372-2380.
- Renaud, P. E., Tessmann, M., Evenset, A., & Christensen, G. N. (2011). Benthic food-web structure of an Arctic fjord (Kongsfjorden, Svalbard). *Marine Biology Research*, 7(1), 13-26. doi:10.1080/17451001003671597
- Renner, H. M., Drummond, B. A., Benson, A.-M., & Paredes, R. (2014). Reproductive success of kittiwakes and murrens in sequential stages of the nesting period: Relationships with diet and oceanography. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 251-265. doi:10.1016/j.dsr2.2014.03.006
- Renner, H. M., Mueter, F., Drummond, B. A., Warzybok, J. A., & Sinclair, E. H. (2012). Patterns of change in diets of two piscivorous seabird species during 35 years in the Pribilof Islands. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 273-291. doi:10.1016/j.dsr2.2012.02.014
- Renner, M., & Huntington, H. P. (2014). Connecting subsistence harvest and marine ecology: A cluster analysis of communities by fishing and hunting patterns. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 293-299. doi:10.1016/j.dsr2.2014.03.005
- Ressler, P. H., De Robertis, A., Warren, J. D., Smith, J. N., & Kotwicki, S. (2012). Developing an acoustic survey of euphausiids to understand trophic interactions in the Bering Sea ecosystem. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 184-195. doi:10.1016/j.dsr2.2012.02.015
- Rice, J. C., & Secretariat, C. S. A. (2005). *Ecosystem effects of fishing: impacts, metrics, and management strategies* (Vol. 272): International Council for the Exploration of the Sea.
- Richard, P. R., Heide-Jorgensen, M. P., & St Aubin, D. (1998). Fall movements of belugas (*Delphinapterus leucas*) with satellite-linked transmitters in Lancaster Sound, Jones Sound, and northern Baffin Bay. *Arctic*, 51(1), 5-16.
- Ricketts, B., Osadetz, K. G., & Embry, A. K. (1985). Volcanic style in the Strand Fiord Formation (Upper Cretaceous), Axel Heiberg Island, Canadian Arctic Archipelago. *Polar Research*, 3(1), 107-122. doi:doi: 10.1111/j.1751-8369.1985.tb00497.x
- Ross, D. A. N., Hamel, J.-F., & Mercier, A. (2013). Bathymetric and interspecific variability in maternal reproductive investment and diet of eurybathic echinoderms. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 333-342. doi:10.1016/j.dsr2.2013.03.005
- Rowe, S., Jones, I. L., Chardine, J. W., Elliot, R. D., & Veitch, B. G. (2000). Recent changes in the winter diet of murrens (*Uria* spp.) in coastal Newfoundland waters. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 78(3), 495-500. doi:10.1139/cjz-78-3-495
- Rudels, B. (2010). Constraints on exchanges in the Arctic Mediterranean-do they exist and can they be of use? *Tellus Series a-Dynamic Meteorology and Oceanography*, 62(2), 109-122. doi:10.1111/j.1600-0870.2009.00425.x
- Rudels, B. (2012). Arctic Ocean circulation and variability - advection and external forcing encounter constraints and local processes. *Ocean Science*, 8(2), 261-286. doi:10.5194/os-8-261-2012
- Ryabov, S. I., Polyakov, I. V., Lind, V. A., Petukhova, V. V., Andreeva, E. N., Kayukov, I. G., . . . Rummyantsev, A. S. (1996). Perfection of local therapeutic service in conditions of introduction of insurance medicine. *Terapevticheskii Arkhiv*, 68(1), 12-15.
- Rysgaard, S., Bendtsen, J., Pedersen, L. T., Ramlov, H., & Glud, R. N. (2009). Increased CO₂ uptake due to sea ice growth and decay in the Nordic Seas. *Journal of Geophysical Research-Oceans*, 114(C9), C09011. doi:10.1029/2008jc005088
- Saether, B. S., Christiansen, J. S., & Jobling, M. (1999). Gastrointestinal evacuation of particulate matter in polar cod *Boreogadus saida*. *Marine Ecology Progress Series*, 188, 201-205.
- Sainsbury, K. J., Campbell, R., Lindholm, R., & Whitelaw, A. W. (1997). Experimental management of an Australian

- multispecies fishery: examining the possibility of trawl-induced habitat modification. In E. L. Pikitch, D. D. Huppert, & M. P. Sissenwine (Eds.), *Global trends: fisheries management*. Bethesda, Maryland: American Fisheries Society
- Sakshaug, E. (1997). Biomass and productivity distributions and their variability in the Barents Sea. *ICES Journal of Marine Science*, 54(3), 341-350. doi:10.1006/jmsc.1996.0170
- Saloranta, T. A., & Haugan, P. A. (2004). Northward cooling and freshening of the warm core of the West Spitsbergen Current. *Polar Research*, 23(1), 79-88. doi:10.1111/j.1751-8369.2004.tb00131.x
- Saloranta, T. M., & Haugan, P. M. (2001). Interannual variability in the hydrography of Atlantic water northwest of Svalbard. *Journal of Geophysical Research-Oceans*, 106(C7), 13931-13943. doi:10.1029/2000jc000478
- Sandblom, E., Davison, W., & Axelsson, M. (2012). Cold Physiology: Postprandial Blood Flow Dynamics and Metabolism in the Antarctic Fish *Pagothenia borchgrevinki*. *PLoS One*, 7(3). doi:10.1371/journal.pone.0033487
- Sando, A. B., Gao, Y., & Langehaug, H. R. (2014). Poleward ocean heat transports, sea ice processes, and Arctic sea ice variability in NorESM1-M simulations. *Journal of Geophysical Research-Oceans*, 119(3), 2095-2108. doi:10.1002/2013jc009435
- Satterthwaite, W. H., & Mangel, M. (2012). Behavioral models as a common framework to predict impacts of environmental change on seabirds and fur seals. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 304-315. doi:10.1016/j.dsr2.2012.02.016
- Schauer, U., & Beszczynska-Moeller, A. (2009). Problems with estimation and interpretation of oceanic heat transport - conceptual remarks for the case of Fram Strait in the Arctic Ocean. *Ocean Science*, 5(4), 487-494.
- Schauer, U., Fahrbach, E., Osterhus, S., & Rohardt, G. (2004). Arctic warming through the Fram Strait: Oceanic heat transport from 3 years of measurements. *Journal of Geophysical Research-Oceans*, 109(C6). doi:10.1029/2003jc001823
- Schauer, U., Loeng, H., Rudels, B., Ozhigin, V. K., & Dieck, W. (2002). Atlantic Water flow through the Barents and Kara Seas. *Deep-Sea Research Part I-Oceanographic Research Papers*, 49(12), 2281-2298. doi:10.1016/s0967-0637(02)00125-5
- Schewe, I. (2001). Small-sized benthic organisms of the Alpha Ridge, central Arctic Ocean. *International review of hydrobiology*, 86(3), 317-335.
- Schiermeier, Q. (2007). Life in a warming world. *Nature*, 446(7132), 135-135.
- Schiermeier, Q. (2007). The new face of the Arctic. *Nature*, 446(7132), 133-135. doi:10.1038/446133a
- Schram, T. A. (1980). The parasitic copepods *Clavella adunca* (Strom), *Haemobaphes cyclopterina* (Fabricius), and *Sphyrion lumpi* (Kroyer) on Polar cod, *Boreogadus saida* (Lepechin) from Spitsbergen. *Sarsia*, 65(3-4), 273-286.
- Schurmann, H., & Christiansen, J. S. (1994). Behavioral thermoregulation and swimming activity of 2 Arctic teleosts (subfamily Gadinae) - the Polar cod (*Boreogadus saida*) and the navaga (*Eleginus navaga*). *Journal of Thermal Biology*, 19(3), 207-212. doi:10.1016/0306-4565(94)90032-9
- Scott, C. L., Falk-Petersen, S., Sargent, J. R., Hop, H., Lonne, O. J., & Poltermann, M. (1999). Lipids and trophic interactions of ice fauna and pelagic zooplankton in the marginal ice zone of the Barents Sea. *Polar Biology*, 21(2), 65-70. doi:10.1007/s003000050335
- Secretariat, A. C. (2017). Ecosystem Approach; Progress Report 2015-2017.
- Secretariat, A. C. (2017). State of the Arctic Marine Biodiversity summary report; Key findings and advice on monitoring: 2017.
- Serreze, M. C., & Barry, R. G. (2011). Processes and impacts of Arctic amplification: A research synthesis. *Global and Planetary Change*, 77(1-2), 85-96. doi:10.1016/j.gloplacha.2011.03.004
- Shadwick, E. H., Thomas, H., Chierici, M., Else, B., Fransson, A., Michel, C., . . . Tremblay, J. E. (2011). Seasonal variability of the inorganic carbon system in the Amundsen Gulf region of the southeastern Beaufort Sea. *Limnology and Oceanography*, 56(1), 303-322. doi:10.4319/lo.2011.56.1.0303
- Shaffer, S. A., Gabrielsen, G. W., Verreault, J., & Costa, D. P. (2006). Validation of water flux and body composition in glaucous gulls (*Larus hyperboreus*). *Physiological and Biochemical Zoology*, 79(4), 836-845. doi:10.1086/504611
- Shephard, G. E., Dalen, K., Peldszus, R., Aparicio, S., Beumer, L., Birkeland, R., . . . Linde, P. W. (2016). Assessing the added value of the recent declaration on unregulated fishing for sustainable governance of the central Arctic

- Ocean. *Marine Policy*, 66, 50-57.
- Sherr, E. B., Sherr, B. F., & Ross, C. (2013). Microzooplankton grazing impact in the Bering Sea during spring sea ice conditions. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 57-67. doi:10.1016/j.dsr2.2013.03.019
- Shleinik, V. N. (1971). On the fecundity of polar cod (*Boreogadus saida*) in the Barents Sea ICES CM (International Council for the Exploration of the Sea. Demersal Fish (Northern) Committee); 1971/F:7 5.
- Siddon, E. C., Heintz, R. A., & Mueter, F. J. (2013). Conceptual model of energy allocation in walleye pollock (*Theragra chalcogramma*) from age-0 to age-1 in the southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 140-149. doi:10.1016/j.dsr2.2012.12.007
- Sigler, M. F., Kuletz, K. J., Ressler, P. H., Friday, N. A., Wilson, C. D., & Zerbini, A. N. (2012). Marine predators and persistent prey in the southeast Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 292-303. doi:10.1016/j.dsr2.2012.02.017
- Sigler, M. F., Stabeno, P. J., Eisner, L. B., Napp, J. M., & Mueter, F. J. (2014). Spring and fall phytoplankton blooms in a productive subarctic ecosystem, the eastern Bering Sea, during 1995-2011. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 71-83. doi:10.1016/j.dsr2.2013.12.007
- Simmons, H. L., & Polyakov, I. V. (2004). Restoring and flux adjustment in simulating variability of an idealized ocean. *Geophys Res Lett*, 31(16). doi:10.1029/2004gl020197
- Sirevaag, A., & Fer, I. (2009). Early Spring Oceanic Heat Fluxes and Mixing Observed from Drift Stations North of Svalbard. *Journal of Physical Oceanography*, 39(12), 3049-3069. doi:10.1175/2009jpo4172.1
- Skern-Mauritzen, M., Johannesen, E., Bjorge, A., & Oien, N. (2011). Baleen whale distributions and prey associations in the Barents Sea. *Marine Ecology Progress Series*, 426, 289-301. doi:10.3354/meps09027
- Skjoldal, H. R. (2004). *The Norwegian Sea Ecosystem*. Trondheim: Tapir Academic Press.
- Skjoldal, H. R., & Mundy, P. (2013). *Large Marine Ecosystems (LMEs) of the Arctic area revision of the Arctic LME map: PAME-led Group of Experts on the Ecosystem Approach to Management*. Retrieved from Akureyri, Iceland:
- Slagstad, D., Ellingsen, I. H., & Wassmann, P. (2011). Evaluating primary and secondary production in an Arctic Ocean void of summer sea ice: An experimental simulation approach. *Progress in Oceanography*, 90(1-4), 117-131. doi:10.1016/j.pocean.2011.02.009
- Smart, T. I., Duffy-Anderson, J. T., Horne, J. K., Farley, E. V., Wilson, C. D., & Napp, J. M. (2012). Influence of environment on walleye pollock eggs, larvae, and juveniles in the southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 196-207. doi:10.1016/j.dsr2.2012.02.018
- Smart, T. I., Siddon, E. C., & Duffy-Anderson, J. T. (2013). Vertical distributions of the early life stages of walleye pollock (*Theragra chalcogramma*) in the Southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 201-210. doi:10.1016/j.dsr2.2013.03.030
- Smedsrud, L. H., Esau, I., Ingvaldsen, R. B., Eldevik, T., Haugan, P. M., Li, C., . . . Sorokina, S. A. (2013). The role of the Barents Sea in the Arctic climate system. *Reviews of Geophysics*, 51(3), 415-449. doi:10.1002/rog.20017
- Smedsrud, L. H., Ingvaldsen, R., Nilsen, J. E. O., & Skagseth, O. (2010). Heat in the Barents Sea: transport, storage, and surface fluxes. *Ocean Science*, 6(1), 219-234.
- Smith, T. G. (2001). Marine mammals as oceanographic sampling platforms. *Arctic*, 54(3), 350-353.
- Smith, T. G., & Harwood, L. A. (2001). Observations of neonate ringed seals, *Phoca hispida*, after early break-up of the sea ice in Prince Albert Sound, Northwest Territories, Canada, spring 1998. *Polar Biology*, 24(3), 215-219. doi:10.1007/s003000000198
- Solberg, I., Klevjer, T. A., & Kaartvedt, S. (2012). Continuous acoustic studies of overwintering sprat *Sprattus sprattus* reveal flexible behavior. *Marine Ecology Progress Series*, 464, 245-256. doi:10.3354/meps09877
- Sormo, E. G., Salmer, M. P., Jenssen, B. M., Hop, H., Baek, K., Kovacs, K. M., . . . Skaare, J. U. (2006). Biomagnification of polybrominated diphenyl ether and hexabromocyclododecane flame retardants in the polar bear food chain in Svalbard, Norway. *Environ Toxicol Chem*, 25(9), 2502-2511. doi:10.1897/05-591r.1
- Spiridonov, V. A., & Zalota, A. K. (2017). Understanding and forecasting dispersal of non-indigenous marine decapods (Crustacea: Decapoda) in East European and North Asian waters. *Journal of the Marine Biological Association of the United Kingdom*, 1-21.
- Srivastava, S. P., Varma, H., & Macnab, R. (2005). The Lomonosov, Alpha, and Mendeleev Ridges: Tectonic Scenarios in the Arctic Ocean and the Test of Appurtenance in UNCLOS Article 76 *American Geophysical Union, Fall*

Meeting 2005, abstract #T12C-05

- Stabeno, P. J., Farley, E. V., Jr., Kachel, N. B., Moore, S., Mordy, C. W., Napp, J. M., . . . Sigler, M. F. (2012). A comparison of the physics of the northern and southern shelves of the eastern Bering Sea and some implications for the ecosystem. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 14-30. doi:10.1016/j.dsr2.2012.02.019
- Stabeno, P. J., Kachel, N. B., Moore, S. E., Napp, J. M., Sigler, M., Yamaguchi, A., & Zerbini, A. N. (2012). Comparison of warm and cold years on the southeastern Bering Sea shelf and some implications for the ecosystem. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 31-45. doi:10.1016/j.dsr2.2012.02.020
- Stange, K., & Klungsoyr, J. (1997). Organochlorine contaminants in fish and polycyclic aromatic hydrocarbons in sediments from the Barents Sea. *ICES Journal of Marine Science*, 54(3), 318-332. doi:10.1006/jmsc.1996.0163
- Stauffer, B. A., Goes, J. I., McKee, K. T., Gomes, H. d. R., & Stabeno, P. J. (2014). Comparison of spring-time phytoplankton community composition in two cold years from the western Gulf of Alaska into the southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 57-70. doi:10.1016/j.dsr2.2014.03.007
- Steele, M., & Boyd, T. (1998). Retreat of the cold halocline layer in the Arctic Ocean. *Journal of Geophysical Research-Oceans*, 103(C5), 10419-10435. doi:10.1029/98jc00580
- Steffensen, J. F., Schurmann, H., & Bushnell, P. G. (1994). Oxygen consumption in 4 species of teleosts from Greenland - no evidence of metabolic cold adaptation. *Polar Biology*, 14(1), 49-54.
- Stein, D. L., Felley, J. D., & Vecchione, M. (2005). ROV observations of benthic fishes in the Northwind and Canada Basins, Arctic Ocean. *Polar Biology*, 28(3), 232-237.
- Steinacher, M., Joos, F., Froelicher, T. L., Plattner, G. K., & Doney, S. C. (2009). Imminent ocean acidification in the Arctic projected with the NCAR global coupled carbon cycle-climate model. *Biogeosciences*, 6(4), 515-533. doi:doi:10.5194/bg-6-515-2009
- Stern, G. A., & Macdonald, R. W. (2005). Biogeographic provinces of total and methyl mercury in zooplankton and fish from the Beaufort and Chukchi seas: Results from the SHEBA drift. *Environ Sci Technol*, 39(13), 4707-4713. doi:10.1021/es0482278
- Steur, L., Pickart, R. S., Torres, D. J., & Valdimarsson, H. (2015). Recent changes in the freshwater composition east of Greenland. *Geophys Res Lett*, 42(7), 2326-2332.
- Stevenson, D. E., & Lauth, R. R. (2012). Latitudinal trends and temporal shifts in the catch composition of bottom trawls conducted on the eastern Bering Sea shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 251-259. doi:10.1016/j.dsr2.2012.02.021
- Stoecker, D. K., Weigel, A., & Goes, J. I. (2014). Microzooplankton grazing in the Eastern Bering Sea in summer. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 145-156. doi:10.1016/j.dsr2.2013.09.017
- Stoecker, D. K., Weigel, A. C., Stockwell, D. A., & Lomas, M. W. (2014). Microzooplankton: Abundance, biomass and contribution to chlorophyll in the Eastern Bering Sea in summer. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 134-144. doi:10.1016/j.dsr2.2013.09.007
- Stoker, S. W. (1981). Benthic invertebrate macrofauna of the eastern Bering/Chukchi continental shelf. In D. W. Hood & J. A. Calder (Eds.), *The eastern Bering Sea shelf: oceanography and resources* (Vol. 2, pp. 1069-1090). Seattle, Wash. : University of Washington Press.
- Strasburger, W. W., Hillgruber, N., Pinchuk, A. I., & Mueter, F. J. (2014). Feeding ecology of age-0 walleye pollock (*Gadus chalcogrammus*) and Pacific cod (*Gadus macrocephalus*) in the southeastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 172-180. doi:10.1016/j.dsr2.2013.10.007
- Sufke, L., Piepenburg, D., & von Dorrien, C. F. (1998). Body size, sex ratio and diet composition of *Arctogadus glacialis* (Peters, 1874) (Pisces : Gadidae) in the Northeast Water Polynya (Greenland). *Polar Biology*, 20(5), 357-363. doi:10.1007/s003000050314
- Sullivan, M. E., Kachel, N. B., Mordy, C. W., Salo, S. A., & Stabeno, P. J. (2014). Sea ice and water column structure on the eastern Bering Sea shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 39-56. doi:10.1016/j.dsr2.2014.05.009
- Sundby, S., & Drinkwater, K. (2007). On the mechanisms behind salinity anomaly signals of the northern North Atlantic. *Progress in Oceanography*, 73(2), 190-202. doi:10.1016/j.pocean.2007.02.002
- Suydam, R. S., Lowry, L. F., Frost, K. J., O'Corry-Crowe, G. M., & Pikok, D. (2001). Satellite tracking of eastern Chukchi

- Sea beluga whales into the Arctic Ocean. *Arctic*, 54(3), 237-243.
- Swain, D. P., Sinclair, A. F., Castonguay, M., Chouinard, G. A., Drinkwater, K. F., Fanning, L. P., & Clark, D. S. (2003). Density-versus temperature-dependent growth of Atlantic cod (*Gadus morhua*) in the Gulf of St. Lawrence and on the Scotian Shelf. *Fisheries Research*, 59(3), 327-341. doi:10.1016/s0165-7836(02)00027-9
- Tadesse, M., Gulliksen, B., Strom, M. B., Styrvold, O. B., & Haug, T. (2008). Screening for antibacterial and antifungal activities in marine benthic invertebrates from northern Norway. *J Invertebr Pathol*, 99(3), 286-293. doi:10.1016/j.jip.2008.06.009
- Tadesse, M., Strom, M. B., Svenson, J., Jaspars, M., Milne, B. F., Torfoss, V., . . . Haug, T. (2010). Synoxazolidinones A and B: Novel Bioactive Alkaloids from the Ascidian *Synoicum pulmonaria*. *Organic Letters*, 12(21), 4752-4755. doi:10.1021/ol101707u
- Tadesse, M., Svenson, J., Jaspars, M., Strom, M. B., Abdelrahman, M. H., Andersen, J. H., . . . Haug, T. (2011). Synoxazolidinone C; a bicyclic member of the synoxazolidinone family with antibacterial and anticancer activities. *Tetrahedron Letters*, 52(15), 1804-1806. doi:10.1016/j.tetlet.2011.02.027
- Tadesse, M., Svenson, J., Sepicic, K., Trembleau, L., Engqvist, M., Andersen, J. H., . . . Haug, T. (2014). Isolation and Synthesis of Pulmonarins A and B, Acetylcholinesterase Inhibitors from the Colonial Ascidian *Synoicum pulmonaria*. *Journal of Natural Products*, 77(2), 364-369. doi:10.1021/np401002s
- Tadesse, M., Tabudravu, J. N., Jaspars, M., Strom, M. B., Hansen, E., Andersen, J. H., . . . Haug, T. (2011). The Antibacterial ent-Eusynstyelamide B and Eusynstyelamides D, E, and F from the Arctic Bryozoan *Tegella cf. spitzbergensis*. *Journal of Natural Products*, 74(4), 837-841. doi:10.1021/np100499c
- Tadesse, M., Torfoss, V., Strom, M. B., Hansen, E., Andersen, J. H., Stensvag, K., & Haug, T. (2010). Isolation and biological activity of (E)-1-(4-hydroxystyryl)guanidine from the sub-Arctic ascidian, *Dendrodoa aggregata*. *Biochemical Systematics and Ecology*, 38(4), 827-829. doi:10.1016/j.bse.2010.04.002
- Talbot, S. L., Sage, G. K., Sonsthagen, S. A., & Fowler, M. C. (2014). *Arctic Cod Pilot Genomics Study: Preliminary Results from Analyses of Mitochondrial DNA*. Retrieved from Anchorage, AK: http://www.boem.gov/uploadedFiles/BOEM/BOEM_Newsroom/Library/Publications/BOEM-2014-050.pdf
- Tamelander, T., Renaud, P. E., Hop, H., Carroll, M. L., Ambrose, W. G., Jr., & Hobson, K. A. (2006). Trophic relationships and pelagic-benthic coupling during summer in the Barents Sea Marginal Ice Zone, revealed by stable carbon and nitrogen isotope measurements. *Marine Ecology Progress Series*, 310, 33-46. doi:10.3354/meps310033
- Tarverdieva, M. I. (1963). *Some data on the feeding of the Barents Sea cod Gadus morhua morhua L. in experimental conditions* Retrieved from
- Thanassekos, S., & Fortier, L. (2012). An Individual Based Model of Arctic cod (*Boreogadus saida*) early life in Arctic polynyas: I. Simulated growth in relation to hatch date in the Northeast Water (Greenland Sea) and the North Water (Baffin Bay). *Journal of Marine Systems*, 93, 25-38. doi:10.1016/j.jmarsys.2011.08.003
- Thanassekos, S., Robert, D., & Fortier, L. (2012). An Individual Based Model of Arctic cod (*Boreogadus saida*) early life in Arctic polynyas: II. Length-dependent and growth-dependent mortality. *Journal of Marine Systems*, 93, 39-46. doi:10.1016/j.jmarsys.2011.08.001
- Thedinga, J. F., Johnson, S. W., Neff, A. D., Hoffman, C. A., & Maselko, J. M. (2013). Nearshore Fish Assemblages of the Northeastern Chukchi Sea, Alaska. *Arctic*, 66(3), 257-268.
- Thibault, D., Head, E. J. H., & Wheeler, P. A. (1999). Mesozooplankton in the Arctic Ocean in summer. *Deep-Sea Research Part I-Oceanographic Research Papers*, 46(8), 1391-1415. doi:10.1016/s0967-0637(99)00009-6
- Thomas, C. D., Cameron, A., Green, R. E., Bakkenes, M., Beaumont, L. J., Collingham, Y. C., . . . Williams, S. E. (2004). Extinction risk from climate change. *Nature*, 427(6970), 145-148. doi:10.1038/nature02121
- Thomas, H., Shadwick, E., Dehairs, F., Lansard, B., Mucci, A., Navez, J., . . . Monnin, C. (2011). Barium and carbon fluxes in the Canadian Arctic Archipelago. *Journal of Geophysical Research-Oceans*, 116. doi:10.1029/2011jc007120
- Thorsteinson, L. K., Jarvela, L. E., & Hale, D. A. (1992). *Arctic Fish habitat Use Investigations: Nearshore Studies in the Alaskan Beaufort Sea, Summer 1990*. Retrieved from Anchorage, AK: http://www.boem.gov/BOEM-Newsroom/Library/Publications/1992/92_0011.aspx
- Tittlemier, S. A., Fisk, A. T., Hobson, K. A., & Norstrom, R. J. (2002). Examination of the bioaccumulation of halogenated dimethyl bipyrrroles in an Arctic marine food web using stable nitrogen isotope analysis. *Environ Pollut*, 116(1), 85-93. doi:10.1016/s0269-7491(01)00144-0

- Tomy, G. T., Budakowski, W., Halldorson, T., Helm, P. A., Stern, G. A., Friesen, K., . . . Fisk, A. T. (2004). Fluorinated organic compounds in an eastern Arctic marine food web. *Environ Sci Technol*, 38(24), 6475-6481. doi:10.1021/es049620g
- Tomy, G. T., Halldorson, T., Chemomas, G., Bestvater, L., Danegerfield, K., Ward, T., . . . Palace, V. P. (2014). Polycyclic Aromatic Hydrocarbon Metabolites in Arctic Cod (*Boreogadus saida*) from the Beaufort Sea and Associative Fish Health Effects. *Environ Sci Technol*, 48(19), 11629-11636. doi:10.1021/es502675p
- Tomy, G. T., Pleskach, K., Ferguson, S. H., Hare, J., Stern, G., Macinnis, G., . . . Loseto, L. (2009). Trophodynamics of Some PFCs and BFRs in a Western Canadian Arctic Marine Food Web. *Environ Sci Technol*, 43(11), 4076-4081. doi:10.1021/es900162n
- Torstensson, A., Chierici, M., & Wulff, A. (2012). The influence of increased temperature and carbon dioxide levels on the benthic/sea ice diatom *Navicula directa*. *Polar Biology*, 35(2), 205-214. doi:10.1007/s00300-011-1056-4
- Tortell, P. D., Mills, M. M., Payne, C. D., Maldonado, M. T., Chierici, M., Fransson, A., . . . Arrigo, K. R. (2013). Inorganic C utilization and C isotope fractionation by pelagic and sea ice algal assemblages along the Antarctic continental shelf. *Marine Ecology Progress Series*, 483, 47-66. doi:10.3354/meps10279
- Treacy, S. D. (2002). *Aerial Surveys of Endangered Whales in the Beaufort Sea, Fall 2000*. Retrieved from Anchorage, AK: <http://www.boem.gov/BOEM-Newsroom/Library/Publications/2002/2002-014.aspx>
- Treacy, S. D. (2002). *Aerial Surveys of Endangered Whales in the Beaufort Sea, Fall 2001*. Retrieved from Anchorage, AK: <http://www.boem.gov/BOEM-Newsroom/Library/Publications/2002/2002-061.aspx>
- Tremblay, J. E., Belanger, S., Barber, D. G., Asplin, M., Martin, J., Darnis, G., . . . Gosselin, M. (2011). Climate forcing multiplies biological productivity in the coastal Arctic Ocean. *Geophys Res Lett*, 38(18), L18604. doi:10.1029/2011gl048825
- Tremblay, J.-É., & Gagnon, J. (2009). The effects of irradiance and nutrient supply on the productivity of Arctic waters: a perspective on climate change. In J. C. J. Nihoul & A. G. Kostianoy (Eds.), *Influence of Climate Change on the Changing Arctic and Sub-Arctic Conditions* (pp. 73-93). Dordrecht, The Netherlands: Springer Netherlands.
- Trenberth, K. E., & Caron, J. M. (2001). Estimates of meridional atmosphere and ocean heat transports. *Journal of Climate*, 14(16), 3433-3443. doi:10.1175/1520-0442(2001)014<3433:eomaa0>2.0.co;2
- Trepos, R., Cervin, G., Hellio, C., Pavia, H., Stensen, W., Stensvag, K., . . . Svenson, J. (2014). Antifouling Compounds from the Sub-Arctic Ascidian *Synoicum pulmonaria*: Synoxazolidinones A and C, Pulmonarins A and B, and Synthetic Analogues. *Journal of Natural Products*, 77(9), 2105-2113. doi:10.1021/np5005032
- Tsubouchi, T., Bacon, S., Garabato, A. C. N., Aksenov, Y., Laxon, S. W., Fahrbach, E., . . . Ingvaldsen, R. B. (2012). The Arctic Ocean in summer: A quasi-synoptic inverse estimate of boundary fluxes and water mass transformation. *Journal of Geophysical Research-Oceans*, 117. doi:10.1029/2011jc007174
- Tsukazaki, C., Ishii, K.-I., Saito, R., Matsuno, K., Yamaguchi, A., & Imai, I. (2013). Distribution of viable diatom resting stage cells in bottom sediments of the eastern Bering Sea shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 22-30. doi:10.1016/j.dsr2.2013.03.020
- Tsvetkova, N. M., Phillips, B. L., Krishnan, V. V., Feeney, R. E., Fink, W. H., Crowe, J. H., . . . Yeh, Y. (2002). Dynamics of antifreeze glycoproteins in the presence of ice. *Biophysical Journal*, 82(1), 464-473.
- Tynan, C. T., & DeMaster, D. P. (1997). Observations and predictions of Arctic climatic change: Potential effects on marine mammals. *Arctic*, 50(4), 308-322.
- U.S. Department of the Interior Minerals Management Service Alaska OCS Region. (2008). *Aerial Surveys of Endangered Whales in the Beaufort Sea, Fall 2005*. Retrieved from Anchorage, AK: http://www.boem.gov/BOEM-Newsroom/Library/Publications/2008/2008_023.aspx
- Underwood, M. J., Rosen, S., Engas, A., & Eriksen, E. (2014). Deep Vision: An In-Trawl Stereo Camera Makes a Step Forward in Monitoring the Pelagic Community. *PLoS One*, 9(11). doi:10.1371/journal.pone.0112304
- Untersteiner, N. (1988). On the ice and heat-balance in Fram Strait. *Journal of Geophysical Research-Oceans*, 93(C1), 527-531. doi:10.1029/JC093iC01p00527
- Ushakov, N. G., & Prozorkevich, D. V. (2002). The Barents Sea capelin - a review of trophic interrelations and fisheries. *ICES Journal of Marine Science*, 59(5), 1046-1052. doi:10.1006/jmsc.2002.1230
- Utne, K. R., Hjøllø, S. S., Huse, G., & Skogen, M. (2012). Estimating the consumption of *Calanus finmarchicus* by planktivorous fish in the Norwegian Sea using a fully coupled 3D model system. *Marine Biology Research*, 8(5-6), 527-547. doi:10.1080/17451000.2011.642804

- Våge, K., Moore, G., Jónsson, S., & Valdimarsson, H. (2015). Water mass transformation in the Iceland Sea. *Deep Sea Research Part I: Oceanographic Research Papers*, 101, 98-109.
- Van Pelt, T., Huntington, H., Romanenko, O., & Mueter, F. (2017). The missing middle: Central Arctic Ocean gaps in fishery research and science coordination. *Marine Policy*, 85, 79-86.
- Vanreusel, A., Clough, L., Jacobsen, K., Ambrose, W., Jivaluk, J., Ryheul, V., . . . Vincx, M. (2000). Meiobenthos of the central Arctic Ocean with special emphasis on the nematode community structure. *Deep Sea Research Part I: Oceanographic Research Papers*, 47(10), 1855-1879.
- Verde, C., Balestrieri, M., de Pascale, D., Pagnozzi, D., Lecointre, G., & di Prisco, G. (2006). The oxygen transport system in three species of the boreal fish family gadidae - Molecular phylogeny of hemoglobin. *Journal of Biological Chemistry*, 281(31), 22073-22084. doi:10.1074/jbc.M513080200
- Vestfals, C. D., Ciannelli, L., Duffy-Anderson, J. T., & Ladd, C. (2014). Effects of seasonal and interannual variability in along-shelf and cross-shelf transport on groundfish recruitment in the eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 109, 190-203. doi:10.1016/j.dsr2.2013.09.026
- Vikebo, F. B., Husebo, A., Slotte, A., Stenevik, E. K., & Lien, V. S. (2010). Effect of hatching date, vertical distribution, and interannual variation in physical forcing on northward displacement and temperature conditions of Norwegian spring-spawning herring larvae. *ICES Journal of Marine Science*, 67(9), 1948-1956. doi:10.1093/icesjms/fsq084
- Vincenzi, S., & Mangel, M. (2013). Linking food availability, body growth and survival in the black-legged kittiwake *Rissa tridactyla*. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 192-200. doi:10.1016/j.dsr2.2013.03.029
- Vollen, T., Albert, O. T., & Nilssen, E. M. (2004). Diet composition and feeding behaviour of juvenile Greenland halibut (*Reinhardtius hippoglossoides*) in the Svalbard area. *Journal of Sea Research*, 51(3-4), 251-259. doi:10.1016/j.seares.2003.08.006
- von Appen, W.-J., Koszalka, I. M., Pickart, R. S., Haine, T. W., Mastropole, D., Magaldi, M. G., . . . Krahnemann, G. (2014). The East Greenland Spill Jet as an important component of the Atlantic meridional overturning circulation. *Deep Sea Research Part I: Oceanographic Research Papers*, 92, 75-84.
- Von Dorrien, C., Piepenburg, D., & Schmid, M. (1991). On the abundance of Arctic cod *Arctogadus glacialis* in Northeast Water. *Polar Record*, 27(163), 362-364.
- Walkusz, W., Majewski, A., & Reist, J. D. (2013). Distribution and diet of the bottom dwelling Arctic cod in the Canadian Beaufort Sea. *Journal of Marine Systems*, 127, 65-75. doi:10.1016/j.jmarsys.2012.04.004
- Walkusz, W., Paulic, J. E., Williams, W. J., Kwasniewski, S., & Papst, M. H. (2011). Distribution and diet of larval and juvenile Arctic cod (*Boreogadus saida*) in the shallow Canadian Beaufort Sea. *Journal of Marine Systems*, 84(3-4), 78-84. doi:10.1016/j.jmarsys.2010.09.001
- Walther, G.-R. (2010). Community and ecosystem responses to recent climate change. *Philosophical Transactions of the Royal Society B-Biological Sciences*, 365(1549), 2019-2024. doi:10.1098/rstb.2010.0021
- Walther, G. R., Post, E., Convey, P., Menzel, A., Parmesan, C., Beebee, T. J. C., . . . Bairlein, F. (2002). Ecological responses to recent climate change. *Nature*, 416(6879), 389-395. doi:10.1038/416389a
- Wang, M., Overland, J. E., & Stabeno, P. (2012). Future climate of the Bering and Chukchi Seas projected by global climate models. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 46-57. doi:10.1016/j.dsr2.2012.02.022
- Warner, N. A., Norstrom, R. J., Wong, C. S., & Fisk, A. T. (2005). Enantiomeric fractions of chiral polychlorinated biphenyls provide insights on biotransformation capacity of arctic biota. *Environ Toxicol Chem*, 24(11), 2763-2767. doi:10.1897/05-121r.1
- Wassmann, P. (2011). Arctic marine ecosystems in an era of rapid climate change. *Progress in Oceanography*, 90(1-4), 1-17. doi:10.1016/j.pocean.2011.02.002
- Wassmann, P., Duarte, C. M., Agusti, S., & Sejr, M. K. (2011). Footprints of climate change in the Arctic marine ecosystem. *Glob Chang Biol*, 17(2), 1235-1249. doi:10.1111/j.1365-2486.2010.02311.x
- Wassmann, P., Reigstad, M., Haug, T., Rudels, B., Carroll, M. L., Hop, H., . . . Pavlova, O. (2006). Food webs and carbon flux in the Barents Sea. *Progress in Oceanography*, 71(2-4), 232-287. doi:10.1016/j.pocean.2006.10.003
- Wathne, J. A., Haug, T., & Lydersen, C. (2000). Prey preference and niche overlap of ringed seals *Phoca hispida* and harp seals *P. groenlandica* in the Barents Sea. *Marine Ecology Progress Series*, 194, 233-239.

doi:10.3354/meps194233

- Weber, J. R. (1987). Maps of the Arctic Basin sea-floor: 2. Bathymetry and gravity of the alpha-ridge - THE 1983 Cesar Expedition. *Arctic*, 40(1), 1-15.
- Wegge, N. (2015). The emerging politics of the Arctic Ocean. Future management of the living marine resources. *Marine Policy*, 51, 331-336. doi:doi:10.1016/j.marpol.2014.09.015
- Welch, H. E., Bergmann, M. A., Siferd, T. D., Martin, K. A., Curtis, M. F., Crawford, R. E., . . . Hop, H. (1992). Energy-flow through the marine ecosystem of the Lancaster Sound Region, Arctic Canada. *Arctic*, 45(4), 343-357.
- Welch, H. E., Crawford, R. E., & Hop, H. (1993). Occurrence of Arctic cod (*Boreogadus saida*) schools and their vulnerability to predation in the Canadian high Arctic. *Arctic*, 46(4), 331-339.
- Wenneek, T. d. L., Falkenhaus, T., & Bergstad, O. A. (2008). Strategies, methods, and technologies adopted on the R.V. G.O. Sars MAR-ECO expedition to the Mid-Atlantic Ridge in 2004. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 55(1-2), 6-28. doi:10.1016/j.dsr2.2007.09.017
- Weslawski, J. M., Ryg, M., Smith, T. G., & Oritsland, N. A. (1994). Diet of ringed seals (*Phoca hispida*) in a fjord of west Svalbard. *Arctic*, 47(2), 109-114.
- Weslawski, J. M., Stempniewicz, L., & Galaktionov, K. (1994). Summer diet of seabirds from the Franz Josef-land archipelago, Russian Arctic. *Polar Research*, 13(2), 173-181.
- Whitehouse, G. A., Aydin, K., Essington, T. E., & Hunt, G. L., Jr. (2014). A trophic mass balance model of the eastern Chukchi Sea with comparisons to other high-latitude systems. *Polar Biology*, 37(7), 911-939. doi:10.1007/s00300-014-1490-1
- Whiteley, N. M., Christiansen, J. S., & Egginton, S. (2006). Polar cod, *Boreogadus saida* (Gadidae), show an intermediate stress response between Antarctic and temperate fishes. *Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology*, 145(4), 493-501. doi:10.1016/j.cbpa.2006.08.023
- Wiebe, P. H., Rudels, B., Cadrin, S. X., Drinkwater, K. F., & Lavin, A. (2012). Introduction to variability of the North Atlantic and its marine ecosystems, 2000-2009, the proceedings of an ICES/NAFO symposium held in Santander, Spain, 10-12 May 2011. *Ices Journal of Marine Science*, 69(5), 697-702. doi:10.1093/icesjms/fss090
- Wienerroither, R., Johannesen, E., Dolgov, A., Byrkjedal, I., Bjelland, O., Drevetnyak, K., . . . Langøy, H. (2011). Atlas of the Barents Sea fishes. *IMR/PINRO Joint Report Series*, 1(2011), 1-272.
- Wiese, F. K., Van Pelt, T. I., & Wiseman, W. J., Jr. (2012). Bering Sea linkages Introduction. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 2-5. doi:10.1016/j.dsr2.2012.03.001
- Wilderbuer, T., Stockhausen, W., & Bond, N. (2013). Updated analysis of flatfish recruitment response to climate variability and ocean conditions in the Eastern Bering Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 94, 157-164. doi:10.1016/j.dsr2.2013.03.021
- Williams, W. J., & Carmack, E. C. (2015). The 'interior'shelves of the Arctic Ocean: Physical oceanographic setting, climatology and effects of sea-ice retreat on cross-shelf exchange. *Progress in Oceanography*, 139, 24-41.
- Wisz, M., Broennimann, O., Grønkvær, P., Møller, P. R., Olsen, S. M., Swingedouw, D., . . . Pellissier, L. (2015). Arctic warming will promote Atlantic-Pacific fish interchange. *Nature Climate Change*, 5(3), 261-265.
- Wong, S., Walkusz, W., Hanson, M., & Papst, M. H. (2013). The influence of the Mackenzie River plume on distribution and diversity of marine larval fish assemblages on the Canadian Beaufort Shelf. *Journal of Marine Systems*, 127, 36-45. doi:10.1016/j.jmarsys.2013.02.004
- Wood, K. R., Bond, N. A., Danielson, S. L., Overland, J. E., Salo, S. A., Stabeno, P. J., & Whitefield, J. (2015). A decade of environmental change in the Pacific Arctic region. *Progress in Oceanography*, 136, 12-31.
- Woodgate, R. A., Aagaard, K., Swift, J. H., Smethie, W. M., Jr., & Falkner, K. K. (2007). Atlantic water circulation over the Mendeleev Ridge and Chukchi Borderland from thermohaline intrusions and water mass properties. *Journal of Geophysical Research-Oceans*, 112(C2). doi:10.1029/2005jc003416
- Wyllie-Echeverria, T., & Wooster, W. S. (1998). Year to-year variations in Bering Sea ice cover and some consequences for fish distributions. *Fisheries Oceanography*, 7(2), 159-170. doi:10.1046/j.1365-2419.1998.00058.x
- Yamamoto-Kawai, M., McLaughlin, F. A., Carmack, E. C., Nishino, S., & Shimada, K. (2009). Aragonite Undersaturation in the Arctic Ocean: Effects of Ocean Acidification and Sea Ice Melt. *Science*, 326(5956), 1098-1100. doi:10.1126/science.1174190
- Yashnov, V. A. (1966). Water masses and plankton. 4. *Calanus finmarchicus* and *Dimophyes arctica* as indicators of Atlantic waters in the Polar Basin. *Oceanology of the Academy of Sciences of the USSR*, 6(3), 404-412.

- Yurevich, V. I., Gorny, S. G., Polyakov, I. V., & Afonyushkin, A. A. (2014). Aberration beam shaping in laser cutting with large aspect ratios. *High-Power Laser Materials Processing: Lasers, Beam Delivery, Diagnostics, and Applications Iii*, 8963. doi:10.1117/12.2035496
- Zadulskaja, E. S., & Smirnov, K. S. (1964). Diurnal pattern of feeding of cod on the fishing grounds of the Barents Sea. *Translation series (Fisheries Research Board of Canada)*; 483 18.
- Zatsepin, V. I., & Patrova, N. S. (1964). The food of the commercial stocks of cod in the southern part of the Barents Sea (from observations made in 1934-1938) *Translation series (Fisheries Research Board of Canada)*; 498 248.
- Zauke, G.-P., Savinov, V., Ritterhoff, J., & Savinova, T. (1999). Heavy metals in fish from the Barents Sea (summer 1994). *Science of the Total Environment*, 227(2), 161-173.
- Zeller, D., Booth, S., Pakhomov, E., Swartz, W., & Pauly, D. (2011). Arctic fisheries catches in Russia, USA, and Canada: baselines for neglected ecosystems. *Polar Biology*, 34(7), 955-973.
- Zeller, D., & Pauly, D. (2012). Reconstruction of marine fisheries catches for key countries and regions (1950-2005).
- Zenkevitch, L. A. (1963). *Biology of the seas of the U.S.S.R.* (T. b. S. Botcharskaya, Trans.). London: George Allen & Unwin Ltd.
- Zhang, J., Woodgate, R., & Mangiameli, S. (2012). Towards seasonal prediction of the distribution and extent of cold bottom waters on the Bering Sea shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 65-70, 58-71. doi:10.1016/j.dsr2.2012.02.023
- Zhuang, X., Yang, C., Fevolden, S.-E., & Cheng, C. H. C. (2012). Protein genes in repetitive sequence-antifreeze glycoproteins in Atlantic cod genome. *BMC Genomics*, 13. doi:10.1186/1471-2164-13-293
- Zwanenburg, K. C. T., Bowen, D., Bundy, A., Drinkwater, K., Frank, K., O'Boyle, R., . . . Sinclair, M. (2002). Decadal changes in the Scotian shelf large marine ecosystem. In K. Sherman & H. R. Skjodal (Eds.), *Large Marine Ecosystems of the North Atlantic: Changing States and Sustainability* (pp. 105-150).