

CURRICULUM VITAE

Name: Carin J. Ashjian
Senior Scientist
Biology Department
Woods Hole Oceanographic Institution
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EDUCATION:

B.A.: Cornell University, Biology, 1982
Ph.D.: University of Rhode Island, Oceanography, 1991

PROFESSIONAL EXPERIENCE:

August 2011 – Present	Senior Scientist Woods Hole Oceanographic Institution
November 2000 – August 2011	Associate Scientist Woods Hole Oceanographic Institution
October 1996 – Nov. 2000	Assistant Scientist Woods Hole Oceanographic Institution
June 1996 - October, 1996 January 1995 - June 1996	Postdoctoral Investigator Postdoctoral Scholar Woods Hole Oceanographic Institution
April 1994 -Nov. 1994	Postdoctoral Associate Rosenstiel School of Marine and Atmospheric Sciences University of Miami
March 1992 - March 1994	Research Associate Oceanographic and Atmospheric Sciences Division Brookhaven National Laboratory
1984 - 1991	Research Assistant Graduate School of Oceanography University of Rhode Island
1984	Assistant Scientist Sea Education Association Woods Hole, MA
1982 - 1983	Research Aide Cornell University

AWARDS:

Ada L. Sawyer Award, 1990, Graduate School of Oceanography, University of Rhode Island
Woods Hole Oceanographic Institution Postdoctoral Award in Ocean Science and Engineering,
January, 1995 - June, 1996
Woods Hole Oceanographic Institution Coastal Institute Fellow, Spring 2005
United States Coast Guard Meritorious Public Service Award, December 9, 2009
NASA Group Achievement Award, August 2, 2012
Woods Hole Oceanographic Institution Leadership Development Award, 2013

PROFESSIONAL AFFILIATIONS:

American Society of Limnology and Oceanography, American Geophysical Union, The
Oceanography Society, Arctic Institute of North America

RESEARCH INTERESTS:

Polar oceanography, zooplankton ecology, bio-physical interactions, remote sensing of
zooplankton (acoustic, video)

PROFESSIONAL ACTIVITIES:

WHOI (Non Education Related):

WHOI Arctic Coordinator, Fall 2014 – Present
Scientific Staff Executive Committee (elected), Jan. 2012 – Present, Chair: Jan. 2013-Dec. 2013
Biology Department Hiring Committee, 2009 – Present
Ocean and Climate Change Institute Advisory Committee, 2008 – Present
Marine Operations Committee, 2002 – present, Chair: June 2011 - Present
Staff Committee (elected), 2007 - 2009
Office of Applied Oceanography Advisory Group, 2007 – 2008
Women's Committee (elected), 2001-2003
Core Committee, WHOI Communications and Website Strategy Project, 2003
Fellow, NOAA/WHOI Cooperative Institute for Climate and Research (CICOR), Woods Hole
Oceanographic Institution, 1999-2003
Co-Coordinator, Biology Department Seminar Series, Woods Hole Oceanographic Institution,
1998 – 1999

Outside WHOI (Other than Attendance at Society/National Meetings):

NRC/National Academies Committee on Emerging Research Questions in the Arctic (Feb.
2013-April 2014)
Chief Scientist and Evaluator, Open Water Science Cruise, *R/V Sikuliaq*, September 2014
Science Oversight Committee, Regional Class Research Vessel, Feb. 2013 – Present
Synthesis of Arctic Research (NOAA/BOEM) Science Steering Committee, Summer 2011-
Present
Advanced Arctic Data and Information Service Advisory Committee, November 2011 – Present

North Pacific Research Board Science Panel, January 2011 – Present
Science Advisory Board, Bering Ecosystem Study/Bering Sea Integrated Ecosystem Research Program, February 2008 - Present
Observing Change Panel, SEARCH (Study of Environmental Arctic Change), Feb. 2005 – Present
Cooperative Arctic Data and Information System Advisory Group, Aug. 2008 – 2011
UNOLS Polar Research Vessel Committee, November 2010 – December 2011
NSF *R/V Sikuliaq* Construction Review Panel, 2010-2012, 2014
Scientific Advisory Group, Barrow Arctic Science Consortium, Feb. 2005 – January 2012
Barrow Environmental Observatory Subcommittee, Barrow Arctic Science Consortium, Oct. 2007-2010
Scientific Committee on Ocean Research Working Group 130 on Automated Plankton Visual Identification, Associate Member, 2007 - 2010
NSF OPP Arctic Section Committee of Visitors, Oct. 2009
UNOLS Council Executive Committee, Oct. 2008 – Dec. 2009
UNOLS Council Ex-Officio (AICC) Member, Jan. 2007 – Dec. 2009
Arctic Icebreaker Coordinating Committee (UNOLS), Feb. 2003 – Jan. 2007, Co-Vice Chair, Jan. 2007 – Dec. 2009, Chair, Dec. 2009-Jan. 2013, Immediate Past Chair
External Advisory Committee, University of Miami Center for Oceans and Human Health, January 2004 – January 2010
Arctic Research Consortium of the US Board of Directors, May 2004 – May 2007
Arctic Instrumentation Steering Committee, Oct. 2002 – Oct. 2003
U.S. GLOBEC Georges Bank Program Executive Committee, 1999-2002
Organizing Committee, U.S. GLOBEC Georges Bank Krigging Workshop, March 2000
Fifth International Zooplankton Symposium, March 2011, Pucon, Chile. Invited Session Convener
International Union for Conservation of Nature/ Natural Resources Defense Council Workshop to Identify Ecologically Important and Vulnerable Marine Areas in the Arctic. La Jolla, CA, Nov. 2010. Invited Participant.
North American Marine Protected Areas Network – International Council for the Exploration of the Seas Study Group on Designing Marine Protected Areas, Nov. 2010, Woods Hole, MA. Invited Expert.
Department of Homeland Security Sponsored Workshop: Operating in the Arctic: Supporting U.S. Coast Guard Challenges through Research, Sept. 2010, Fairbanks, AK, Invited Participant
Circumpolar Biodiversity Monitoring Program Workshop to develop the Marine Integrated Monitoring Plan, Coral Gables, FL, Nov. 2009, Invited Participant
International Whaling Commission Climate Change Workshop, Feb. 2009, Siena, Italy. Invited Participant
USA-Swedish Workshop Planning Antarctic Research on Icebreaker Oden, Feb. 2008, Lejondals Slott, Sweden
Reviewer: National Science Foundation (Biological Oceanography, Polar Programs, Oceanographic Technology and Interdisciplinary Research), NOAA, AAAS, NURP, NPRB
Reviewer: Deep-Sea Research I and II, ICES Journal of Marine Science, Journal of Plankton Research, Journal of Marine Research, Progress in Oceanography, Ciencias Marinas,

Estuaries, Coastal and Shelf Science, Polar Biology, Fisheries Oceanography,
Oceanography, Continental Shelf Research, Journal of Geophysical Research
Guest Editor: Deep-Sea Research II Special Issue on the Bering Sea Program, Volumes I, II,
III, and IV

PARTICIPATION IN EDUCATION PROGRAM (at WHOI unless otherwise noted):

Research Adviser, Stephen Elliott, M.S. Candidate, AOSE, 2013-Present
Thesis Committee, Alex Bergan, Ph.D. Candidate, Biology, 2013-Present
Dissertation Committee, Heather McEachen, Ph.D. Candidate, University of Alaska Fairbanks,
2011-Present
Postdoctoral Sponsor, Joel Llopiz, Postdoctoral Scholar, 2010-2012
Chair of the Defense, Colleen Petrick, Ph.D. Biology, 2010
Thesis Committee, Joanna Gyory, Ph.D. Biology, 2007-2010
Summer Student Fellow Sponsor, Jessica McNally, Summer 2008
Thesis Proposal Defense Chair, Colleen Petrik, Ph.D. Candidate Biology, Fall 2007
Team Taught "The Arctic System", Fall 2007 (with Straneo, Das, Eglinton, Hughen)
Chair of the Biology Department Qualifying Exam Committee, 2007
Biology Department Qualifying Exam Committee, 2006
Chair of the Defense, Qiao Hu, Ph.D. AOSE, 2006
Summer Student Fellow Sponsor, Pincelli Hull, Summer 2003
Academic Advisory and Thesis Committees, Qinling Du, 2003-2005
Postdoctoral Sponsor, Mark Baumgartner, Postdoctoral Scholar, 2002-2004
Postdoctoral Sponsor, Stéphane Plourde, Postdoctoral Fellow, 2002-2003
Postdoctoral Sponsor, James Lerczak, Postdoctoral Scholar, 2000-2001
Academic Advisory and Thesis Committees, Gareth Lawson, Ph.D. Biology, 2000-2006
Unofficial Co-Advisor (with R. Beardsley), Adam Harter, 2000
Admissions Advisory Committee Biology Department, 2000-2001
Chair of the Defense, Bonnie Ripley, Ph.D. Biology, 1997

SUPERVISION AT WHOI:

Mari Butler, 1998, 2002

CRUISE PARTICIPATION AND ICE TIME:

58. March 13 – April 8, 2015 *R/V Sikuliaq*, Ice Trials, Chief Scientist.
57. September 12-18, 2014. *R/V Sikuliaq*, Sonar acceptance, noise and winch testing, and open water science trials cruise, Caribbean Sea, Chief Scientist.
56. August 18 – Sept. 7, 2014, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 7 days over ~3 weeks, Chief Scientist
55. May 13-June 23, 2014. *USCGC Healy*, Chukchi Sea.
54. August 17 – Sept. 6, 2013, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 7 days over ~3 weeks, Chief Scientist
53. July 29 – August 15, 2013, *USCGC Healy*, Chukchi Sea

52. August 18 – Sept. 12, 2012, *R/V Ukpik*, Chukchi and Beaufort Shelves, Arctic Ocean, 4 days over ~3 weeks, Chief Scientist
51. August 8 - 22, *USCGC Healy*, Chukchi Sea
50. November 7 – Dec. 17, 2011, *USCGC Healy*, Chukchi and Bering Seas, Chief Scientist
49. August 18 – Sept. 18, 2011, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 16 days over ~1 month, Chief Scientist
48. August 18 – Sept. 17, 2010, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 14 days over ~1 month, Chief Scientist
47. May 10 – June 15, 2010, *R/V Thomas G. Thompson*, Bering Sea, Chief Scientist
46. August 18 – Sept. 15, 2009, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 13 days over a month, Chief Scientist
45. April 3 – May 12, 2009, *USCGC Healy*, Bering Sea, Chief Scientist
44. August 18 – Sept. 13, 2008, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 10 days over a month, Chief Scientist
43. March 29 – May 6, 2008, *USCGC Healy*, Bering Sea, Chief Scientist
42. August 17 – Sept. 12, 2007, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 10 days over a month, Chief Scientist
41. August 17 – Sept. 13, 2006, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 17 days over a month, Chief Scientist
40. August 17 – Sept. 13, 2005, *R/V Annika Marie*, Chukchi and Beaufort Shelves, Arctic Ocean, 9 days over a month, Chief Scientist
39. July 18 – August 26, 2004 *USCGC Healy*, Chukchi and Beaufort Seas, Arctic Ocean
38. May 15 – June 23, 2004 *USCGC Healy*, Chukchi and Beaufort Seas, Arctic Ocean
37. Sept. 10 – Oct. 10, 2003 *USCGC Healy*, Chukchi and Beaufort Seas, Arctic Ocean
36. July 15 – August 28, 2002 *USCGC Healy*, Chukchi and Beaufort Seas, Arctic Ocean
35. April 9–May 21, 2002 *RVIB Nathaniel B. Palmer*, Marguerite Bay, Antarctic Peninsula
34. July 22 –Sept. 1, 2001 *RVIB Nathaniel B. Palmer*, Marguerite Bay, Antarctic Peninsula
33. April 23–June 4, 2001 *RVIB Nathaniel B. Palmer*, Marguerite Bay, Antarctic Peninsula
32. August 28-Sept. 15, 2000 *R/V Johann Ruud*, Barents Sea
31. June 5-23, 2000 *R/V Johann Ruud*, Barents Sea
30. March-April, 2000 *R/V Asterias*, Cape Cod Bay, 14 days during a 5-week period
29. June 24-July 17, 1999 *R/V Roger Revelle*, Sea of Japan
28. May 5-June 6, 1999 *R/V Endeavor*, Georges Bank,
27. March-April, 1999 *R/V Asterias*, Cape Cod Bay, 7 days during a 2 week period
26. July 4-August 13, 1998, Field work at the SHEBA ice camp, Arctic Ocean
25. May 14-June 2, 1998, Field work at the SHEBA ice camp, Arctic Ocean
24. March 11-April 2, 1998, Field work at the SHEBA ice camp, Arctic Ocean
23. Oct. 11-Nov. 13, 1997 Field work at the SHEBA ice camp, Arctic Ocean
22. June 9-22, 1997 *R/V Endeavor* Georges Bank, Chief Scientist.
21. April 19-May 2, 1997 *R/V Cape Hatteras*, Georges Bank
20. March 11-15, 1997 *SVS Peter W. Anderson*, Massachusetts and Cape Cod Bays
19. Febr. 19-28, 1997 *R/V Delaware II*, Georges Bank
18. Jan. 8-22, 1997 *R/V Endeavor*, Georges Bank
17. Dec. 12-17, 1996 *R/V Endeavor*, Georges Bank
16. June 7-19, 1995 *R/V Endeavor*, Georges Bank
15. March 27-April 8, 1995 *R/V Endeavor*, Georges Bank

14. Jan. 1-25, 1995 *R/V Endeavor*, Georges Bank
13. June 20-July 13, 1993 *R/V Wecoma*, California Current
12. July 18-August 20, 1993, *USCGC Polar Sea*, Northeast Water Polynya, Greenland Sea
11. July 15-August 18, 1992, *USCGC Polar Sea*, Northeast Water Polynya, Greenland Sea
10. August 14-21, 1991 *SSV Westward*, Gulf of Maine.
9. Nov. 21-Dec. 5, 1988, *R/V Atlantis II* and *DSRV Alvin*, Eastern Tropical Pacific
8. Oct. 10-23, 1988 *R/V Cape Hatteras*, Gulf Stream
7. April, 1998 *R/V Endeavor*, Great South Channel
6. Jan. 5-15, 1998 *R/V Atlantis II* and *DSRV Alvin*, Santa Catalina Basin
5. June, 1987 *R/V Powell* and Delta Submersible, Great South Channel
4. Febr. 26-March 3, 1987, *R/V Endeavor*, Gulf Stream
3. May, 1986 *R/V Delaware II*, Great South Channel
2. March-May, 1984 *R/V Westward*, Key West-Woods Hole
1. March-May, 1981 *R/V Westward*, Key West-Woods Hole

PAPERS IN REFEREED JOURNALS AND BOOKS:

National Research Council. *The Arctic in the Anthropocene: Emerging Research Questions*. Washington, DC: The National Academies Press, 2014.

Citta, J. Quakenbush, L.T., Okkonen, S.R., Druckenmiller, M.L., Maslowski, W., Clement-Kinney, J., Ashjian, C.J., George, J.C., Brower, H., Small, R.J., Harwood, L.A., Heide-Jorgensen, M.P. 2014. Ecological characteristics of core areas used by western Arctic bowhead whales, 2006-2012. *Prog. Oceanography* DOI: 10.1016/j.pocean.2014.08.012

Zhang, J., C. Ashjian, R. Campbell, V. Hill, Y. Spitz, M. Steele. The great 2012 Arctic Ocean summer cyclone enhanced biological productivity on the shelves. *Journal of Geophysical Research - Oceans*. V. 119, 1-16. doi: 10.1002/2013JC009301.

Laney, S.R., R. A. Krishfield, J. M. Toole, T. R. Hammar, and C. J. Ashjian. 2013. Assessing Phytoplankton Biomass and Bio-optical Distributions in Perennially Ice-Covered Polar Ocean Ecosystems. *Polar Science*. Published online, <http://dx.doi.org/10.1016/j.polar.2013.12.003>

Nelson, R.J., Ashjian, C.J., Bluhm, B.A., Conlan, K.E., Gradinger, R.R., Grebmeier, J.M., Hill, V.J., Hopcroft, R.R., Hunt, B.P.V., Joo, H.M., Kirchman, D.L., Kosobokova, K.N., Lee, S.H., Li, W.K.W., Connie Lovejoy, C., Poulin, M., Sherr, E., Young, K.V. 2014. Chapter 10: Biodiversity and Biogeography of the Lower Trophic Taxa of the Pacific Arctic Region: Sensitivities to Climate Change. In: J.M. Grebmeier and W. Maslowski (eds.), *The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment*. doi: 10.1007/978-94-017-8863-2_10, Springer Science+Business Media Dordrecht.

Ji, R., Ashjian, C.J., Campbell, R.G., Chen, C., Gao, G., Davis, C.S., Cowles, G.W., Beardsley, R.C. 2012. Life history and biogeography of *Calanus* copepods in the Arctic Ocean: An individual-based modeling study. *Progress in Oceanography*, 96: 40-56.

- Okkonen, S.R., Ashjian, C.J., Campbell, R.G., Clarke, J., Moore, S.E., Taylor, K.D. 2011. Satellite observations of circulation features associated with the Barrow area bowhead whale feeding hotspot. *Remote Sensing of Environment* 115: 2168-2174.
- Wiebe, P.H., Ashjian, C.J., Lawson, G.L., Piñones, A., Copley, N.J. 2011. Horizontal and vertical distribution of euphausiid species on the Western Antarctic Peninsula U.S. GLOBEC Southern Ocean study site. *Deep-Sea Research II* 58: 1630-1651. doi: 10.1016/j.dsr2.2010.11.015
- Ashjian, C.J., Braund, S.R., Campbell, R.G., George, J.C., Kruse, J., Maslowski, W., Moore, S.E., Nicolson, C.R., Okkonen, S.R., Sherr, B.F., Sherr, E.B., Spitz, Y. 2010. Climate variability, oceanography, bowhead whale distribution, and Iñupiat subsistence whaling near Barrow, AK. *Arctic* 63: 179-194.
- Moore, S.E., George, J.C., Sheffield, G., Bacon, J., Ashjian, C.J. 2010. Bowhead whale distribution and feeding in the western Alaskan Beaufort Sea during late summer, 2005-2006. *Arctic* 63: 195-205.
- Zhang, J., Spitz, Y., Steele, M., Ashjian, C., Campbell, R., Berline, L., Matrai, P. 2010. Modeling the impact of declining sea ice on the Arctic marine planktonic ecosystem. *J. Geophys. Res.*, 115, C10015, doi:10.1029/2010JC006302.
- Okkonen, S.R., Ashjian, C.J., Campbell, R.G., Maslowski, W., Clement-Kinney, J., Potter, R. 2009. Intrusion of warm Bering/Chukchi waters onto the shelf in the western Beaufort Sea. *J. Geophys. Res.*, 114, C00A11, doi:10.1029/2008JC004870.
- Campbell, R.G., Sherr, E.B., Ashjian, C.J., Plourde, S., Sherr, B.F., Hill, V., Stockwell, D.A. 2009. Mesozooplankton prey preference and grazing impact in the Western Arctic Ocean. *Deep-Sea Research II* 56: 1274-1289.
- Bérline, L., Spitz, Y.H., Ashjian, C.J., Campbell, R.G., Maslowski, W., Moore, S.E. 2008. Euphausiid transport in the Western Arctic Ocean. *Marine Ecology Progress Series* 360: 163-178.
- Ashjian, C.J., Davis, C.S., Gallagher, S.M., Wiebe, P.H., Lawson, G.L. 2008. Distribution of Larval Krill and Zooplankton in Association with Hydrography in Marguerite Bay, Antarctic Peninsula, in Austral Fall and Winter 2001 described using the Video Plankton Recorder. *Deep-Sea Research II* 55: 455-471.
- Lawson, G.L., Wiebe, P.H., Stanton, T.K., Ashjian, C.J. 2008. Euphausiid Distribution Along the Western Antarctic Peninsula – Part A: Development of Robust Multi-Frequency Acoustic Techniques to Identify Euphausiid Aggregations and Quantify Euphausiid Size, Abundance, and Biomass. *Deep-Sea Research II* 55: 412-431.
- Lawson, G.L., Wiebe, P.H., Ashjian, C.J., Stanton, T.K. 2008. Euphausiid Distribution Along the Western Antarctic Peninsula –Part B: Distribution of Euphausiid Aggregations and

Biomass, and Associations with Environmental Features. *Deep-Sea Research II* 55: 432-454.

Ashjian, C., Arnone, R., Davis, C., Jones, B., Kahru, M., Lee, C., B., Mitchell, B.G. 2006. Biological structure and seasonality in the Japan – East Sea. *Oceanography* 19(3): 122-133.

Ashjian, C.J., Davis, C.S., Gallagher, S.M., Alatalo, P. 2006. Erratum to: “Characterization of the zooplankton size composition and distribution in relation to hydrography of the Japan/East Sea” [*Deep-Sea Research II* 52(2005) 1363-1392]. *Deep-Sea Research II* 53: 442-449.

Cooper, L.W., Ashjian, C.J., Smith, S.L., Codispoti, L.A., Grebmeier, J., Campbell, R.G., Sherr, E.B. 2006. Rapid seasonal sea-ice retreat in the Arctic could be impacting Pacific walrus (*Odobenus rosmarus divergens*) recruitment. *Aquatic Mammals* 32: 98-102.

Lawson, G.L., Wiebe, P.H., Ashjian, C.J., Chu, D., Stanton, T.K. 2006. Improved parameterization of Antarctic krill target strength models. *Journal of the Acoustic Society of America* 119: 232-242.

Ashjian, C.J., Gallagher, S.M., Plourde, S. 2005. Transport of Plankton and Particles between the Chukchi and Beaufort Seas during Summer 2002, described using a Video Plankton Recorder. *Deep-Sea Research II* 52: 3259-3280.

Plourde, S., Campbell, R.G., Ashjian, C.J., Stockwell, D. 2005. Seasonal and Regional Patterns in Egg Production of *Calanus glacialis/marshallae* in the Chukchi and Beaufort Seas during Spring and Summer, 2002. *Deep-Sea Research II* 52: 3411-3426.

Ashjian, C.J., Davis, C.S., Gallagher, S.M., Alatalo, P. 2005. Characterization of the zooplankton community, size composition, and distribution in relation to hydrography in the Japan/East Sea. *Deep-Sea Research II* 52: 1363-1392.

Ashjian, C.J., Rosenwaks, G.A., Wiebe, P.H., Davis, C.S., Gallagher, S.M., Copley, N.J., Lawson, G.L., Alatalo, P. 2004. Distribution of Zooplankton on the Continental Shelf of Marguerite Bay, Antarctic Peninsula, during Austral Fall and Winter, 2001. *Deep-Sea Research II* 51: 2073-2098.

Lawson, G.L., Wiebe, P.H., Ashjian, C.J., Gallagher, S.M., Davis, C.S., Warren, J.D. 2004. Acoustically-inferred zooplankton distribution in relation to hydrography west of the Antarctic Peninsula. *Deep-Sea Research II* 51: 2041-2072.

Davis, C. S., Q. Hu, S. M. Gallagher, X. Tang, and C. J. Ashjian. 2004. Real-time observation of taxa-specific plankton distributions: an optical sampling method. *Marine Ecology Progress Series* 284: 66-75.

- Wiebe, P.H., C. J. Ashjian, S. M. Gallagher, C. S. Davis, G. L. Lawson, and N. J. Copley. 2004. Using a high powered strobe light to increase the catch of Antarctic krill. *Marine Biology*. 144 (3): 493 - 502.
- Ashjian, C.J., Campbell. R.G., Welch, H.E., Butler, M. and D. Van Keuren. 2003. Annual cycle in abundance, distribution, and size in relation to hydrography of important copepod species in the Western Arctic Ocean. *Deep-Sea Research I* 50: 1235-1261.
- Ashjian, C.J., S.L. Smith, C.N. Flagg, and N. Idrisi. 2002. Distribution, annual cycle, and vertical migration of acoustically derived biomass across a 900 km transect in the Arabian Sea during 1994-1995. *Deep-Sea Research II*, 49: 2377-2402.
- Ashjian, C.J., C.S. Davis, S.M. Gallagher, and P. Alatalo. 2001. Distribution of plankton, particles, and hydrographic features across Georges Bank described using the Video Plankton Recorder. *Deep-Sea Research II*, 48: 245-282.
- Lynch, D.R, Naimie, C.E., Ip, J.T., Lewis, C.V., Werner, F.E., Luettich, R., Blanton, B.O., Quinlan, J., McGillicuddy, D.J. Jr., Ledwell, J.R., Churchill, J. Kosnyrev, V., Davis, C.S., Gallagher, S.M., Ashjian, C.J., Lough, R.G., Manning, J., Flagg, C.N., Hannah, C.G., Groman, R.C. 2001. Real-Time Data Assimilative Modeling on Georges Bank. *Oceanography* 14: 65-77.
- Ashjian, C. J., S. L. Smith, C. N. Flagg, and C. Wilson. 1998. Patterns and occurrence of diel vertical migration of zooplankton in the Mid-Atlantic Bight measured by the acoustic Doppler current profiler. *Continental Shelf Research* 18: 831-858.
- Pésant, S., L. Legendre, M. Gosselin, C. Ashjian, B. Booth, K. Daly, L. Fortier, H.-J. Hirche, J. Michaud, R.E.H. Smith, S. Smith, and W. O. Smith, Jr. 1998. Pathways of carbon cycling in the euphotic zone; the fate of large-sized phytoplankton in the Northeast Water Polynya. *Journal of Plankton Research*, 20: 1267-1291.
- Ashjian, C., S. Smith, F. Bignami, T. Hopkins, and P. Lane. 1997. Distribution of zooplankton in the Northeast Water Polynya during Summer 1992. *Journal of Marine Systems*, 10: 279-298.
- Clough, L. M., W. G. Ambrose, Jr., C. J. Ashjian, D. Piepenburg, P. E. Renaud, and S. L. Smith. 1997. Meroplankton in the Northeast Water Polynya: Insights from oceanographic parameters and benthic abundance patterns. *Journal of Marine Systems* 10: 343-357.
- Mariano, A. J., G. L. Hitchcock, C. J. Ashjian, D. Olson, T. Rossby, E. Ryan, and S.L. Smith. 1996. Principal component analysis of biological and physical variability in a Gulf Stream meander crest. *Deep-Sea Research*, 43: 1531-1565.
- Ashjian, C. J., S. L. Smith, and P. V. Z. Lane. 1995. The Northeast Water Polynya during Summer, 1992: Distribution and aspects of secondary production of copepods. *Journal of Geophysical Research, Leads and Polynyas Special Section*, 100: 4371-4388.

Wishner, K. F., C. J. Ashjian, C. Gelfman, M. M. Gowing, L. Kann, L. A. Levin, L. S. Mullineaux, and J. Saltzman. 1995. Pelagic and benthic ecology of the lower interface of the Eastern Tropical Pacific oxygen minimum zone. *Deep-Sea Research*, 42: 93-115

Ashjian, C. J., S. L. Smith, C. N. Flagg, A. J. Mariano, W. J. Behrens, and P. V. Z. Lane. 1994. The influence of a Gulf Stream meander on the distribution of zooplankton biomass in the Slope Water, the Gulf Stream, and the Sargasso Sea described using a shipboard acoustic Doppler current profiler. *Deep-Sea Research*, 41: 23-50.

Olson, D. B., G. L. Hitchcock, A. J. Mariano, C. J. Ashjian, G. Peng, R. W. Nero, and G. P. Podesta. 1994. Life on the Edge: Marine Life and Fronts. *Oceanography* 7: 52-60.

Ashjian, C. J. 1993. Trends in copepod species abundances across and along a Gulf Stream Meander: Evidence for entrainment and detrainment of fluid parcels from the Gulf Stream. *Deep-Sea Research*, 40: 461-482.

Ashjian, C. J. and K. F. Wishner. 1993. Temporal consistency of copepod species groups in the Gulf Stream. *Deep-Sea Research*, 40: 483-516.

Ashjian, C. J. and K. F. Wishner. 1993. Temporal and spatial changes in body size and reproductive state of *Nannocalanus minor* (Copepoda) females across and along the Gulf Stream. *Journal of Plankton Research*, 15: 67-98.

OTHER PUBLICATIONS:

Grebmeier, J. Pickart, R., Cooper, L., Frey, K., He, J., Itoh, M., Kedra, M., Kikuchi, T., Moore, S., Nelson, J., Vagle, S. 2012. Ecosystem observations in Barrow Canyon: A focus for the International Distributed Biological Observatory (DBO), [in Arctic Report Card 2012], <http://www.arctic.noaa.gov/reportcard>

Sigler, M.F., Harvey, H.R., Ashjian, C.J., Lomas, M.W., Napp, J.M., Stabeno, P.J., Van Pelt, T.I. 2010. How does climate change affect the Bering Sea ecosystem? *EOS* 91: 457-458.

Beckendorf, K., Ashjian, C., Moore, S., Braund, S. 2008. In search of whale food. *Science Scope* 31: 42-47.

Toole, J., Krishfield, R., Proshutinsky, A., Ashjian, C. Doherty, K., Frye, D. Hammar, T., Kemp, J., Peters, D., Timmermans, M.-L., von der Heydt, K. 2006. Ice-tethered profilers sample the upper Arctic Ocean. *EOS* 87: 434, 438.

Proshutinsky, A., Plueddemann, A., Toole, J., Ashjian, C., Krishfield, R., Carmack, E., Dethloff, K., Fahrback, E., Gascard, J.-C., Perovich, D., Pryamikov, S. 2004. An array of ice-based observatories for Arctic studies. *EOS Transactions of the American Geophysical Union*, 85 (46): 484-485.

Ashjian, C. 2004. Life in the Arctic Ocean. *Oceanus* 43(2): 4-7.

- Ashjian, C. 1998. Ice Camp Research examines Zooplankton Adaptation - 1998 WHOI Annual Report
- Ashjian, C., C. Davis, S. Gallager, and P. Alatalo. 1997. Distribution of plankton and particles across Georges Bank during 1994-1995 GLOBEC Cruises: Results of Cross-Bank Surveys using the Video Plankton Recorder. ICES CN 1997/T:04, 17pp.
- Davis, C. S., C. J. Ashjian, and P. A. Alatalo. 1996. Zooplankton diversity. *Oceanus* 39: 7-11.
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- Ashjian, C. Understanding Arctic Marine Ecosystems in a Changing Climate. MIT/WHOI Joint Program/MIT Earth Science Initiative/Oceans at MIT Symposium "Watching the Arctic Melt", November 19, 2012, MIT, Cambridge, MA.
- Ashjian, C. and Ji, R. The future of Arctic Marine Ecosystems. AOMIP/FAMOS School for Young Scientists, Oct. 23, 2012. Woods Hole, MA.
- Ashjian, C. Baleen Whales and Climate Change in the Pacific Arctic Region: Bowhead and Gray Whales. International Whaling Commission Climate Change Workshop, Feb. 21-25, 2009, Certosa di Pontignano Congress Centre, Siena, Italy.
- Ashjian, C. Bowhead Whale Feeding Variability in the Western Beaufort Sea – Feeding Observations and Oceanographic Measurements and Analyses. U.S. and Canada Northern

Oil and Gas Research Forum: Current Status and Future Directions in the Beaufort Sea, North Slope and Mackenzie Delta. Oct. 29, 2008, Anchorage AK.

Ashjian, C. Episodic Upwelling of Zooplankton within a Bowhead Whale Feeding Area near Barrow, AK. MMS Alaska OCS Region Eleventh Information Transfer Meeting, Oct. 20, 2008, Anchorage, AK.

Ashjian, C. Climate Variability, Oceanography, Bowhead Whale Distribution, and Iñupiat Subsistence Whaling near Barrow, AK. Symposium on Arctic Sea Ice and Climate, Nov. 5, 2008, Woods Hole, MA.

Ashjian, C. Bridging the gap between biology and physics: recent studies in the Arctic and Antarctic. Old Dominion University, The Center for Coastal Physical Oceanography, Spring 2007 Seminar series, February 19, 2007

Ashjian, C. Bridging the gap between biology and physics: insights from the Video Plankton Recorder. National Marine Fisheries, Northwest Fisheries Science Center Monster Jam Seminar Series, March 4, 2004, Seattle, WA.

Ashjian, C. Upper ocean food webs: zooplankton communities in Western Arctic and Antarctic Peninsula ecosystems. INVITED. Gordon Research Conference on Polar Marine Science, March 16-21, 2003, Ventura, CA.

PAPERS PRESENTED AT MEETINGS (PRESENTER UNDERLINED):

Ashjian, C. J., Campbell, R. G., Okkonen, S. R. Zooplankton of the Chukchi and Northern Bering Seas in Late Fall/Early Winter 2011. Ocean Sciences Meeting, February 26, 2014, Honolulu, HI. Oral.

Campbell, R. G., Gelfman, C. Dennis, M. McCoy, I. Ashjian, C.J. Population Genetics Of the *Calanus glacialis/marshallae* Species Complex in the Bering and Western Arctic Seas. Ocean Sciences Meeting, February 24, 2014, Honolulu, HI. Poster.

Okkonen, S. R., Ashjian, C. A., Campbell, R. G., Stafford, K. M., Clarke, J. T. Variability Of Late Summer Oceanographic Conditions In Barrow Canyon. Ocean Sciences Meeting, February 24, 2014, Honolulu, HI. Oral.

Campbell, R.G., Ashjian, C., Banas N, Lessard, E., Pinchuk, A., Sherr, B., Sherr, E., Zhang, J. Linking sea ice retreat to plankton community structure and function in the Bering Sea: data integration and synthesis. Bering Sea Open Science Meeting, February 22, 2014, Honolulu, HI.

Ashjian, C., Okkonen, S., Campbell, R.G., Alatalo, P. Inter-annual and Shorter-Term Variability in Physical and Biological Characteristics across Barrow Canyon in August – September 2005-2013. Alaska Marine Science Symposium, January 20, 2014. Poster

- Banas, N.S., Campbell, R.G., Ashjian, C., Lessard, E., Pinchuk, A., Sherr, E., Sherr, B., Zhang, J. Linking sea-ice retreat and increasing water temperature to plankton community structure and function in the eastern Bering Sea. PICES Meeting, October 2013, Nanaimo, BC.
- Grebmeier, J., Cooper, L., Ashjian, C., Bluhm, B., Campbell, R., Dunton, K., Moore, J., Okkonen, S., Sheffield, G., Trefry, J., Yamin-Pasternak, S. The Pacific Marine Arctic Regional Synthesis (PacMARS). 2013 Wakefield Fisheries Symposium, March 29, 2013. Anchorage AK. Oral
- Ji, R. Ashjian, C., Campbell, R.G., Chen, C., Gao, G., Davis, C.S., Cowles, G.W., Beardsley, R.C. What determines the distributions of *Calanus* spp. endemic and expatriate species in the Arctic Ocean? 2013 Wakefield Fisheries Symposium, March 27, 2013. Anchorage AK. Oral
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- Dunton, K., Ashjian, C., Campbell, R., Cooper, L., Grebemeier, J., Harvey, R., Konar, B., Maidment, D., Schonberg, S., Trefry, J., Weingartner, T. An integrated ecosystem field study of Hanna Shoal, Northern Chukchi Sea, Alaska. January 22, 2013, Alaska Marine Science Symposium, Anchorage AK. Oral
- Ashjian, C., Campbell, R., Okkonen, S., Alatalo, P. Year to year variability of krill abundance at a bowhead whale feeding hotspot near Barrow, AK: 2005- 2012. January 21, 2013, Alaska Marine Science Symposium, Anchorage AK. Poster.
- Grebmeier, J., Cooper, L., Ashjian, C., Bluhm, B., Campbell, R., Dunton, K., Moore, J., Okkonen, S., Sheffield, G., Trefry, J., Yamin-Pasternak, S. The Pacific Marine Arctic Regional Synthesis (PacMARS). January 21, 2013, Alaska Marine Science Symposium, Anchorage AK. Poster.
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Ashjian, C. J.; Campbell, R. G.; Kuletz, K. J.; Laney, S. R.; Longnecker, K. L.; Mordy, C. W.; Okkonen, S. R.; Stockwell, D. A. A Winter Expedition to Explore the Biological and Physical Conditions of the Bering, Chukchi, and Southern Beaufort Seas. January 16, 2012, Alaska Marine Science Symposium, Anchorage AK. Poster.

Okkonen, S., Jones, D., Ashjian, C., Baumgartner, M., Campbell, R.G., Citta, J., George, C., Goetz, K., Maslowski, W., Mocklin, J., Rugh, D., Quakenbush, L., Stafford, K., Vatt Brattstrom, L. A year in the life of the bowhead whale: an educational outreach product in calendar form. January 16, 2012, Alaska Marine Science Symposium, Anchorage AK. Poster.

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- Nicolson, C.R., S. Braund, C. George, J. Kruse, C. Ashjian. Hunting bowhead in Northern Alaska 1980-2005: Iñupiat Adaptation and Resilience to Climate Variability. Arctic Forum, Washington, DC, May 24, 2007. Poster.
- Ashjian, C.J., Gallagher, S.M., Plourde, S. Transport of Plankton and Particles between the Chukchi and Beaufort Seas during Summer 2002, described using a Video Plankton Recorder. Gordon Conference on Polar Marine Science, Ventura, CA, March 28-29, 2007. Poster.
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Barry Sherr, Evelyn Sherr, Jennifer Crain, Carin Ashjian, Robert Campbell. SBI - Microzooplankton : roles as herbivores & as food for mesozooplankton in Arctic Ocean food webs. ARCUS, Arlington, Virginia, May 28-29, 2003

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