

CURRICULUM VITAE

Franz-Josef Mueter
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- 1993 - 94 Research Technician, Juneau Center, School of Fisheries and Ocean Science, University of Alaska Southeast, Juneau, AK
- 1988 - 92 Research Assistant / Graduate Student (M.S.), Institute of Marine Science, University of Alaska, Fairbanks, AK

Professional Services

- 2018-2020 Biologist, Biology
- 2018 Science Advisory Panel for the Climate Action for Alaska Leadership Team.
- 2017-2018 North Pacific Fishery Management Council Ecosystem Research Workshop Steering Committee.
- 2016-2017 Co-convener, ESSAS Open Science Meeting, Tromsø, Norway
- 2016-present** **Contributing Editor, Marine Ecology Progress Series.** As CE for MEPS I annually handle the review process and make decisions on 15-20 manuscripts submitted to MEPS in my areas of expertise.
- 2017-2018 Guest Editor, 31st Lowell Wakefield Symposium Proceedings
- 2016-2017 Co-chair, Steering Committee, 31st Lowell Wakefield Fisheries Symposium (<https://seagrant.uaf.edu/events/2017/wakefield-fish-dynamics>)
- 2015-2017 Scientific Expert for Eastern Bering Sea Vulnerability Assessment.
- 2014-present Co-chair, ESSAS Working Group on Arctic-Subarctic Interactions (WGASI). As co-chair of this WG, I help organize workshops and scientific sessions at meetings to bring together on experts in high-latitude marine research on advective and migratory exchanges between the Subarctic and Arctic.
- 2015-2017 Guest Editor, Special Issue on 'Arctic Ecosystem Integrated Survey' in Deep-Sea Research II (<https://www.sciencedirect.com/journal/deep-sea-research-part-ii-topical-studies-in-oceanography/vol/135>)
- 2014-2016 Guest Editor, Special issue on 'Ecology of Arctic Gadids' in Polar Biology (<https://link.springer.com/journal/300/39/6/page/1>)
- 2014 Scientific Expert (Fish) for Aleutian Bering Climate Vulnerability Assessment
- 2013-present Guest Editor, Gulf of Alaska project special issue in Deep-Sea Research II
- 2013-2014 Guest Editor, 28th Lowell Wakefield Symposium Proceedings (<https://seagrant.uaf.edu/bookstore/pubs/AK-SG-13-03.html>)
- 2011-2012 Chair, Steering Committee, 28th Lowell Wakefield Fisheries Symposium on Responses of Arctic Marine Ecosystems to Climate Change (<https://seagrant.uaf.edu/events/2013/wakefield-arctic-ecosystems>)
- 2011-present** **Co-chair, Ecosystem Studies of Sub-Arctic Seas (ESSAS).** As co-chair of ESSAS, along with Benjamin Planque (IMR, Norway) and Naomi Harada (JAMSTEC, Japan), I help organize and host Annual Science meetings that typically

draw 60-80 participants from the circumpolar North. ESSAS coordinates and actively fosters comparative analyses on the effects of climate variability and climate change on subarctic and Arctic marine ecosystems by bringing together researchers from its member countries to participate in workshops, sessions at scientific meetings, and periodic Open Science Meetings.

- 2011-present Member, PICES Section on Climate Change Effects on Marine Ecosystems (S-CCME).
- 2011-2012 Guest Editor, Theme Section on Gadid-Crustacean Interactions, Marine Ecology Progress Series (<https://www.int-res.com/abstracts/meps/v469/#theme>)
- 2008-2013 Co-chair, Working Group 4 on Climate Effects on Upper Trophic Levels, Ecosystem Studies of Sub-

Center for Distance Education teaching workshop (Spring 2011, 4 days)
 Qualitative Modelling Short Course (Jeffrey Dambacher, Juneau, Alaska, May 17-19, 2010)
 ADMB (Marc Maunder, AFS meeting, Anchorage, 2005, 2 days)
 Multivariate data visualization with GGOBI (Diane Cook, Palmer, July 2004, 2 days)
 Spatial Data Analysis (Dale Zimmermann, Fairbanks, July 2003, 2 days)
 Applied Logistic Regression (David Hosmer, Fairbanks, July 2001, 2 days)

Field Experience

- 2019 R/V *Sikuliaq*, Chukchi Sea, CODA/GO-WEST expedition. Under-ice sampling of zooplankton and fish, oceanography, zooplankton, acoustics (Co-PI)
- 2019 42ø"umkhh."Cwmg"Dc{."Dgtpgtu"Dc{."Gc ing"Dgcej."uc o rnkpi" | qq rncpmvqp"cpf" water, CTD profiles
- 2013 F/V *Bristol Explorer*, Chukchi Sea. Arctic Ecosystem Integrated Survey. Oceanography, zooplankton, acoustics, surface and midwater trawling (Lead PI)
- 1995-97 M/V *Tiglax*, Aleutian Islands, Alaska. Prey surveys by bottom trawl around sea lion rookeries; towed video observations; sediment collection; CTD transects; bird observations; hydroacoustic survey of midwater plankton and fish.
- 1996 M/V *Bering Explorer*, Cook Inlet, Alaska. Survey of juvenile groundfishes; bottom type assessment; CTD survey.
- 1995 F/V *Big Valley*, Shelikof Strait and Sitkinak Strait, Alaska: Survey of juvenile groundfishes by bottom trawl. Oceanographic surveys using CTD, sidescan sonar, Acoustic Doppler Current Profiler (ADCP), ROV, sediment grab, and bottom trawl.
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- 1994 52ø"Dquvqp"Y j cngt."ejkgh"uekgpvkuv."Mc | cmqh"Dc{."Chq i pcm"Kuncpf."Cncumc0" baseline survey of juvenile ground-fishes; CTD survey; sediment collection.
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R/V *Little Dipper*, Resurrection Bay, Alaska. Ichthyoplankton collections using Tucker trawl; CTD survey.

I contributed a segment on *Arctic Fisheries* to a Massive Open Online Course on the *Global Arctic* at the École Polytechnique Fédérale de Lausanne.

I have developed and taught several short courses (1-3 days) including *Beyond the linear model: Analyzing ecological data using generalized mixed-effects models*, *Introduction to R*, and *Multivariate Statistics for Ecologists*

Mentoring

Graduate students (thesis advisor, all UAF): Laurinda Marcello (M.S., 2011), Janelle Mueller (M.S., 2011), Brendan Coffin (M.S., 2014), Elizabeth Siddon (Ph.D., 2013), Megan Peterson (Ph.D., 2014), Mayumi Arimitsu (Ph.D. 2016), Jordan Watson (Ph.D., 2017), Jennifer Marsh (Ph.D., 2019), Lauren Wild (Ph.D., 2020), Tadayasu Uchiyama (Ph.D., current), Zane Chapman (M.S., current), Jared Weems (Ph.D., current), Wesley Strasburger (Ph.D., current).

Post-docs: Jason Waite (now ADF&G); Colleen Petrik (now Univ Texas); Cathleen Vestfals (now NOAA), Jen Marsh (current), Krista Oke (current).

Graduate Students (Committee Member):

MS (graduated): Nina Lundstrom (2021), Matt Callahan (2020), Justin Priest (2020), Michael Knutson (2020), Caitlin Forster (2019), Alicia Schuler (2019), Noel Sme (2019), Sarah Apsens (2017), Dan Olsen (2017), Jane Sullivan (2016), Michael Kohan (2015), Jessica Glass (2014), Karson Coutré (2014), Kevin Foley (2014), Wesley Strasburger (2012), Mayumi Arimitsu (2009)

MS (current): Kevin McNeel, Austin Flanigan, Lilian Hart, Tristan Sebens

PhD (graduated): Kelly Cates (2021), Janelle Badger (2021), Valentina Melica (2020), Wendel Raymond (2020), Fletcher Sewall (2020), Cheryl Barnes (2019), Julie Nielsen (2019), Michael Malick (Simon Fraser University, 2018), Stephanie Berkman (2017), Ellen Martinson (2017), Suzie Teerlink (2017), Lauren Divine (2016), Zachary Hoyt (2015), Vanessa von Biela (2015), Michael Litzow (University of Tasmania, 2014), Jonathan Richar (2014), Bev Agler (2012), Tammy Hoem-Neher (2012), Kray van Kirk (2012), Douglas Dasher (2010).

Ph.D. (current): Jeannette Gann, Robert Levine (University of Washington), Chris Sergeant, Laura Slater, Lauren Sutton.

Professional memberships

American Fisheries Society

American Statistical Association

American Association for the Advancement of Science

American Geophysical Union

Honors/Awards

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4242" Fgcpou" Tecognition Award for Outstanding Instructor

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2006 Robert L. Kendall Best Paper in Transactions of the American Fisheries Society Award

1998 NAS travel award to participate in a symposium to celebrate ø72" {gctu"qh"qegcp"fkueqxtg{." National Science Foundation 1950-4222ö"cv"vjg"Pcvkqpcn"Cecfg o {"qh"Uekgpegu." Y cujkipivqp." F0E0

1992 Outstanding graduate student, Graduate Program in Marine Science and Limnology

Current Grants

Utilization of the under-ice habitat by Arctic Cod in the western Arctic Ocean: a multidisciplinary collaborative study. BOEM/CMI (07/01/19 - 06/30/22) (\$258,439). PI: Franz Mueter

Assessing the potential for pollock growth and productivity in the northern Bering Sea. PCCRC (9/1/2019 - 8/31/2021) (\$122,494). PI: Franz Mueter.

Model-based Fish Distributions and Habitat Descriptions for Arctic Cod, Saffron Cod and Snow Crab in the Alaskan Arctic (July 17, 2019 ó July 8, 2021) (\$171,308), PI: Franz Mueter.

Environmental covariates of young of the year sablefish growth and recruitment in the Gulf of Alaska. Alaska Sea Grant (September 1, 2018 - August 31, 2021) (\$81,110.00), PI: Franz Mueter.

Ecological controls of Alaskan pollock weight-at-length and size-at-age under rapid environmental change. NOAA Saltonstall-Kennedy (September 1, 2019 - August 31, 2022) (\$199,082.00) PI: Franz Mueter

Arctic Integrated Ecosystem Survey (Arctic IES) Phase II. BOEM (June 1, 2017 - May 31, 2022), awarded May 15, 2017 (\$1,014,390.00) PI Franz Mueter.

A sustainable, integrated AMBON in the Chukchi Sea. ONR (08/01/19 - 07/31/22) (\$1,036,256). PI: Katrin Iken; Co-PIs: Seth Danielson, Russell Hopcroft, Franz Mueter.

Recent Grants

Go West: Sea-ice association of polar cod and its prey in the western Arctic Ocean. Arctic Research Icebreaker Consortium (ARICE) (September 1, 2019 - Lwpg"52."4242+*"p"777.963+0"RK<" J cwmg"Hnqtgu" (AWI, Germany), Franz Mueter, Alexei Pinchuk.

Solving a growing problem in marine carbon stable isotope research (07/11/19 - 06/30/20) (\$79,452). PI: Nicole Misarti, Franz Mueter.

Alaska Marine Biodiversity Observing Network. NOAA-NOPP, BOEM (November 1, 2014 - October 31, 2019) (\$5,607,492), PI Katrin Iken; Co-PIs: Eric Collins, Seth Danielson, Russell Hopcroft, Franz Mueter. (Mueter share: \$228,637)

Identifying Arctic Cod Hatch Dates and Location in the Alaskan Arctic (07/01/18 - 07/31/19) (\$25,000). PIs: Zane Chapman, Franz Mueter.

Alaska Chinook Salmon Production and Decline. State of Alaska, Alaska Department of Fish and Game (July 1, 2013 - June 30, 2018) (\$625,532). PI Milo Adkison; Co-PIs Jeffrey Falke, Larissa Horstmann, Megan Mcphee, Franz Mueter, Trent Sutton, Mark Wipfli (Mueter share: \$35,463).

Extension of CIFAR project 'Status of fishes and research in the central Arctic Ocean', Cooperative Institute for Alaska Research (July 1, 2017 - June 30, 2018) (\$14,307). PI Franz Mueter.

Fish & Fisheries in Central Arctic Ocean, Funded by Cooperative Institute For Alaska Research (May 1, 2016 - March 31, 2018) (\$15,704). PI: Franz Mueter.

Arctic Gadids in a Changing Climate, Funded by North Pacific Research Board (September 1, 2015 - January 31, 2018) (\$255,288)

Edited Volumes / Guest editor:

Mueter, F., Bouchard, C., Hop, H., Laurel, B., and Norcross, B. (2020) Arctic gadids in a rapidly changing environment. *Polar Biology* 43(8): 945-950.

<https://doi.org/10.1007/s00300-020-02696-1>

Ormseth, O.A.,

97. Marsh, J.M., **Mueter, F.J.**, Quinn II, T.J. (2020) Environmental and biological influences on the distribution and population dynamics of Arctic cod (*Boreogadus saida*) in the US Chukchi Sea. *Polar Biology* 43(8): 1055-1072. <https://doi.org/10.1007/s00300-019-02561-w>

85. Nielsen, J., Mueter, F.J., Adkison, M.A., Loher, T., McDermott, S., Seitz, A. (2019). Effect of study area bathymetric heterogeneity on parameterization and performance of a depth-based geolocation model for demersal fishes. *Ecological Modeling* 402: 18-32.
<https://doi.org/10.1016/j.ecolmodel.2019.03.023>
84. Sullivan, J.Y., Kruse, G.H., Mueter, F.J. (2018). Do Environmental and Ecological Conditions Explain Declines in Size-at-age of Pacific Halibut in the Gulf of Alaska? *In: Mueter, F., Baker, M., Dressel, S., Hollowed, A. (eds.)*. Impacts of a Changing Environment on the Dynamics of High-latitude Fish and Fisheries. Alaska Sea Grant, University of Alaska Fairbanks.
83. Holsman, K., Ito, S.-I., Hollowed, A, Bograd, S., Hazen, E., King, J., **Mueter, F.**, Perry, I. (2018). Chapter 6: The North Pacific & Pacific Arctic. *In: Barange, M., Bahri, T., Beveridge, M.C.M., Cochrane, K.L., Funge-Smith, S., and Poulain, F. (eds.)* Impacts of climate change on fisheries and aquaculture: synthesis of current knowledge, adaptation and mitigation options. FAO Fisheries and Aquaculture Technical Paper No. 627, Rome.
82. Wild, L.A., Chenoweth, E.M., Mueter, F.J., Straley, J.M. (2018). Evidence for dietary time series in layers of cetacean skin using stable carbon and nitrogen isotope ratios. *Rapid Communications in Mass Spectrometry* 32(16): 1425-1438.
<https://doi.org/10.1002/rcm.8168>
81. Watson, J.T., **Mueter, F.J.**, (2018). Vessel monitoring systems (VMS) reveal an increase in fishing efficiency following regulatory changes in a demersal line fishery

75. Coutré, K.M., Beaudreau, A.H., Courtney, D., **Mueter, F.J.**, Malecha, P., Rutecki, T.L. (2017). Vertical movement patterns of juvenile Sablefish in coastal Southeast Alaska. *Marine and Coastal Fisheries* 9: 161-169, <https://doi.org/10.1080/19425120.2017.1285377>
74. Malick M.J., Cox S.P., **Mueter F.J.**, Dorner, B., Peterman, R.M. (2017). Effects of the North Pacific Current on the productivity of 163 Pacific salmon stocks. *Fisheries Oceanography* 26(3): 268-281, <https://doi.org/10.1111/fog.12190>
73. Divine, L.M., Bluhm B.A., **Mueter, F.J.**, Iken K. (2017). Diet analysis of Alaska Arctic snow crabs (*Chionoecetes opilio*)

63. Petrik, C.M., Duffy-Anderson, J.T., Castruccio, F., Curchitser, E.N., Danielson, S., Hedstrom, K., **Mueter, F.** (2016). Modeled connectivity between Walleye Pollock (*Gadus chalcogrammus*) spawning and age-0 nursery areas in warm and cold years with implications for juvenile survival. ICES Journal of Marine Science 73: 1890-1900, <https://doi.org/10.1093/icesjms/fsw004>

62.

in the southeastern Bering Sea. *Deep Sea Research II* 109: 172-180.
<https://doi.org/10.1016/j.dsr2.2013.10.007>

52. Sigler, M.F., Stabeno, P.J., Eisner, L.B., Napp, J.M., and **Mueter, F.J.** (2014). Spring and fall phytoplankton blooms in a productive subarctic ecosystem, the eastern Bering Sea, during 1995-2011. *Deep Sea Research II* 109: 71-83. <https://doi.org/10.1016/j.dsr2.2013.12.007>
51. Peterson, M.J., **Mueter, F.J.**, Criddle, K., and Haynie, A.C. (2014). Costs incurred by Alaskan sablefish, Pacific halibut and Greenland turbot longliners due to killer whale depredation. *PloS ONE* **9**:e88906. <https://doi.org/10.1371/journal.pone.0088906>
50. Litzow, M.A., **Mueter, F.J.**, and Hobday, A.J. (2014). Reassessing regime shifts in the North Pacific

42. Peterson, M.J., **Mueter, F.J.**, Hanselman, D., Lunsford, C., Matkin, C., and Fearnbach, H. (2013). Killer whale (*Orcinus orca*) depredation effects on catch rates of six groundfish species: Implications for commercial longline fisheries in Alaska. *ICES Journal of Marine Science* 70(6): 1220-1232. <https://doi.org/10.1093/icesjms/fst045>
41. Litzow, M.A., **Mueter, F.J.**, and Urban, J.D. (2013). Rising catch variability preceded historical fisheries collapses in Alaska. *Ecological Applications* 23(6): 1475-1487.
40. 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* 94: 140-149.
39. **Mueter, F.J.**, Dawe, E.G., and Pálsson, Ó. (2012). Effects of climate and predation on subarctic crustacean populations. *Marine Ecology Progress Series* 469: 191-193.
38. Marcello L.A., **Mueter F.J.**, Dawe EG, and Moriyasu M. (2012) Effects of temperature and gadid predation on snow crab recruitment: Comparisons between the Bering Sea and Atlantic Canada. *Marine Ecology Progress Series* 469: 249-261.
37. Bundy, A., Bohaboy, E.C., Hjermann, D.O., **Mueter, F.J.**, Fu, C., and Link, J.S. (2012). Common patterns, common drivers: comparative analysis of aggregate surplus production across ecosystems. *Marine Ecology Progress Series* 459: 203-218.
36. Renner, H.M., **Mueter, F.J.**, Drummond, B.A., Warzybok, J.A., and 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* 65-70: 273-291.
35. **Mueter, F.J.**, Siddon, E.C., and Hunt Jr., G.L. (2011). Climate change brings uncertain future for subarctic marine ecosystems and fisheries. Pages 329-357 in A. L. Lovecraft cpf" J0"Gkemp."gfkvqtu0" Pqtvj"d{"4242<Rgtur gev kxgu"qp"Cncumcøu"Changing Social-Ecological Systems. University of Alaska Press, Fairbanks.
34. Hunt Jr., G.L., Coyle, K.O., Eisner, L.B., Farley, E.V., Heintz, R.A., **Mueter, F.**, Napp, J.M., Overland, J.E., Ressler, P.H., Salo, S., and Stabeno, P.J. (2011) Climate impacts on eastern Bering Sea food webs: A synthesis of new data and an assessment of the Oscillating Control Hypothesis. *ICES Journal of Marine Science* 68(6): 1230-1243.
33. Ianelli, J.N., Hollowed, A.B., Haynie, A.C., **Mueter, F.J.**, and Bond, N.A. (2011). Evaluating management strategies for Eastern Bering Sea walleye pollock (*Theragra chalcogramma*) in a changing environment. *ICES Journal of Marine Science* 68(6): 1297-1304.
32. Siddon, E. C., Duffy-Anderson, J. T., and **Mueter, F. J.** (2011). Community-level response of fish larvae to environmental variability in the southeastern Bering Sea. *Marine Ecology Progress Series* 426: 225-239.
31. **Mueter, F.J.**, Bond, N.A., Ianelli, J.N., and Hollowed, A.B. (2011). Expected declines in recruitment of walleye pollock (*Theragra chalcogramma*) in the eastern Bering Sea under future climate change. *ICES Journal of Marine Science* 68(6): 1284-1296. <https://doi.org/10.1093/icesjms/fsr010>
30. Coyle, K.O., Eisner, L.B., **Mueter, F.J.**, Pinchuk, A., Janout, M.A., Ciecziel, K., Farley, E.V., and Andrews, A.G. (2011). Climate change in the southeastern Bering Sea: impacts on

pollock stocks and implications for the Oscillating Control Hypothesis. *Fisheries Oceanography* **20**(2): 139-156.

29. **Mueter, F.J.**, Broms, C., Drinkwater, K.F., Friedland, K.D., Hare, J.A., Hunt Jr., G.L., Melle, W., & Taylor, M. (2009). Ecosystem responses to recent oceanographic variability in high-latitude Northern Hemisphere ecosystems. *Progress in Oceanography* **81**: 93-110.
28. Drinkwater, K., **Mueter, F.J.**, Friedland, K., Taylor, M., Hunt, G., Hare, J., Melle, W., and Broms Årnes, C., (2009). Comparison of 4 Northern Hemisphere regions: Physical oceanographic responses to recent climate variability. *Progress in Oceanography* **81**: 10-28. <https://doi.org/10.1016/j.pocean.2009.04.018>
27. Link, J.S., Stockhausen, W., Skaret, G., Overholtz, W., Megrey, B.A., Gjøsæter, H., Gaichas, S., Dommasnes, A., Falk-Petersen, J., Kane, J., **Mueter, F.**, Friedland, K., and Hare, J. (2009). A comparison of biological trends from four marine ecosystems: synchronies, differences, and commonalities. *Progress in Oceanography* **81**: 29-46.
26. North, E.W. and **Mueter, F.J.** (2009). Marine science with global vision: creating a place for early career scientists. An introduction to selected articles from the 2007 Early Career Scientists Conference. *ICES Journal of Marine Science* **66**: 334-335.
25. Peterman, R.M., Pyper, B.J., **Mueter, F.J.**, Haeseker, S.L., Su, Z., and Dorner, B. (2009). Statistical models of Pacific salmon that include environmental variables and habitat capacity. *In* Pacific Salmon Environment and Life History Models. *Edited by* E. Knudson, H. Michael, and C. Steward. American Fisheries Society Symposium 71, Bethesda, Maryland, pp. 125-146.
24. **Mueter, F.J.**, and Litzow M.A. (2008). Sea ice retreat alters the biogeography of the Bering Sea continental shelf. *Ecological Application* **18**: 309-320.
23. Aydin, K., and **Mueter, F.J.** (2007). The Bering Sea - A dynamic food web perspective.

17. **Mueter, F.J.**, Pyper, B.J. and Peter

- R8. Hunt, G. L., Jr, B. M. Allen, R. P. Angliss, T. Baker, N. NBond, G. Buck, G. V. Byrd, K. O. Coyle, A. Devol, D. M. Eggers, L. Eisner, R. Feely, S. Fitzgerald, L. W. Frits, E. V. Gritsay, C. Ladd, W. Lewis, J. Mathis, C. W. Mordy, **F. J. Mueter**, J. Napp, E. Sherr, D. Shull, P. Stabeno, M. A. Stepanenko, S. Strom, and T. E. Whitley. 2010. Status and trends of the Bering Sea region, 2003-2008. Pages 196-267 *In* S. M. McKinnell and M. Dagg (editors). Marine ecosystems of the North Pacific Ocean, 2003-2008.
- R7. Mundy, P. R., D. M. Allen, J. L. Boldt, N. A. Bond, S. Dressel, E. V. Farley Jr., D. H. Hanselman, J. Heifetz, R. R. Hopcroft, M. A. Janout, C. Ladd, R. C. Lam, P. A. Livingston, C. R. Lunsford, J. T. Mathis, **F. J. Mueter**, C. N. Rooper, N. Sarkar, S. A. K. Shotwell, M. V. Sturdevant, A. C. Thomas, T. J. Weingartner, and D. Woodby (2010). Status and trends of the Gulf of Alaska Coastal region, 2003-2008. pp. 142-195, *In* S. M. McKinnell and M. Dagg (editors). Marine ecosystems of the North Pacific Ocean, 2003-2008. PICES Special Publication 4.
- R6. **Mueter, F. J.** (2010). Evaluation of stock assessment and modeling options to assess sablefish population levels and status in the Northern Southeast Inside (NSEI) management area. Alaska Department of Fish and Game, Anchorage. Special Publication No. 10-01. 115pp.
- R5. Litzow, M. A., and **F. J. Mueter** (2009). Four decades of climate-biology covariation in the Northeast Pacific: 98 updated ecosystem indicators, 1965-2006. Final Report to the North Pacific Research Board. 46pp.
- R4. Moulton, L. L., and **F.J. Mueter**. (2008). Feasibility study for estimating broad whitefish production in tapped lakes of the Colville Delta, final report. ConocoPhillips Alaska, Inc., Anchorage, Alaska, 52pp.
- R3. Murphy, S. M., **Mueter, F. J.** and 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: Final Report. Unpublished report by ABR, Inc. to U. S. Department of the Interior, Minerals Management Service (MMS), Alaska Outer Continental Shelf Region, Anchorage, AK. Technical Report No. MMS 2007-042. Available from ABR, Inc. P.O. Box 80410, Fairbanks, Alaska 99708-0410, USA.
- R2. Norcross, B.L., **Mueter, F.J.**, and Holladay, B.A. (1995). Habitat models for juvenile pleuronectids around Kodiak Island, Alaska, USA. *In* Proceedings of the International Symposium on North Pacific Flatfish. *Edited by* Anonymous. Alaska Sea Grant College Program Report No. 95-04, Fairbanks. pp. 151-175.
- R1. Mathisen, O. A., and **F. J. Mueter**. 1994. Salmon investigations in the Egegik watershed in 1993. Juneau Center for Fisheries and Ocean Sciences, Juneau, Alaska. 19pp.

Presentations (2008-present, first-author/presenter only):

- Mueter, F.J.** Assessing and managing fish stocks in a rapidly changing environment. (Keynote). Ecosystem Studies of the Subarctic and Arctic Seas. Virtual Meeting. May 31, 2021.

Mueter, F.J.

Mueter, F.J. (Invited). Responses of Arctic Marine Ecosystems to a Changing Climate. Y qtmujqr":C"7ÅE"Ctevk"kp"c"4ÅE"Y qtnfø."Wpkqp"Vjgqni kecn"Ug o kpct{."Eqnw o dkc" University, New York City, July 20, 2016.

Mueter, F.J., Marsh, J. (Oral). Northern Gadids in a Changing Climate: 'Winners' and 'Losers'. Ecosystem Studies of the Subarctic and Arctic Seas (ESSAS) Annual Meeting, Yokohama, Japan, March 8, 2016.

Mueter, F.J., Sigler, M. (Oral). Responses of Fish to Climate Change in a Changing Arctic. Workshop on Resilience and Adaptive Capacity of Arctic marine systems under a changing climate (Belmont Forum), Hakodate, Japan, March 2, 2016.

Mueter, F.J., Drinkwater, K. (Oral) Responses of Arctic Marine Ecosystems to a Changing Climate. Workshop on Resilience and Adaptive Capacity of Arctic marine systems under a changing climate (Belmont Forum), Hakodate, Japan, March 1, 2016.

Mueter, F.J. (Department Seminar). A tale of 2 poles: High-latitude ecosystems in a changing climate. UAF Fisheries Division Seminar. Juneau, Alaska, February 19, 2016

Ladd, C., **Mueter, F.J.** (Oral, joint presentation).

Siddon, E.C., Kristiansen, T., **Mueter, F.J.**, Holsman, K.K., Heintz, R.A., Farley, E.V. (Oral). Spatial match-mismatch between juvenile walleye pollock (*Gadus chalcogrammus*) and zooplankton prey in the eastern Bering Sea may contribute to recruitment variability. PICES 2015 Annual Meeting, Yeosu, South Korea, October 23, 2014.

Peterson, M.J., **Mueter, F.J.**, Carothers, C. Criddle, K.R., Haynie, A.C. (Oral) Toothed whale interactions with longline fisheries in Alaska & economic implications. PICES 2015 Annual Meeting, Yeosu, South Korea, October 23, 2014.

Mueter, F.J., Danielson, S., Drinkwater, K., and Gjøsæter, H. (Oral) Variability in the Subarctic to Arctic transition region and implications for fish populations in the Arctic Ocean. IMBER Open Science Conference FUTURE OCEANS. Bergen, Norway, June 25, 2014

Mueter, F.J. (Invited) Correlation, Inference and Causality: Challenges to understanding linkages between juvenile and adult salmon population dynamics. AYK SSI Juvenile Chinook Salmon Workshop: Risks and Benefits of Using Juvenile Salmonid Research to Understand Adult Population Dynamics. Anchorage, Alaska, April 23, 2014.

Mueter, F.J. (Invited) The role of ocean survival and fishing in recent Chinook salmon declines. Workshop on "Fostering Yukon Chinook Resilience: A UAF Chapman Chair Workshop Honoring C.S. Holling", Fairbanks, Alaska, April 1, 2014.

Weems, J. and **Mueter, F.J.** (Department Seminar). Fish and shellfish in the Chukchi Sea and

Studies of the Subarctic Seas (ESSAS) Annual Science Meeting, Hakodate, Japan, January 9, 2013.

Mueter, F.J. (Department Seminar). Fishes of Alaska's Arctic and the Arctic Ecosystem Integrated Survey. UAF Fisheries Division seminar, Juneau, Alaska, November 30, 2012.

Mueter, F.J. (Invited). Forage fish in Alaska's Arctic (with a focus on Arctic cod). Alaska Beluga Whale Committee Annual Meeting, November 14, 2012

Mueter, F.J. (Keynote). Ecosystems, complexity, and sustainability from global to regional to local scales. American Fisheries Society, Alaska Chapter, Annual Meeting. Kodiak, Alaska, October 24, 2012.

Mueter, F.J., Litzow, M.A., Lauth, R.L., Danielson, S.L., and Spencer, P.D. (Oral) The roles of temperature, abundance and advection in modifying the spatial dynamics of groundfish at the Subarctic-Arctic boundary in the eastern Bering Sea. PICES 2012 Annual Meeting, Hiroshima, Japan, October 12, 2012.

Mueter, F.J. (Invited seminar), Limits to the northward movement of fishes in the Eastern Bering Sea. Nome, AK, Strait Science Series, May 29, 2012.

Mueter, F.J., Duffy-Anderson, J.T., Curchitser, E., Danielson, D. and Hedstrom, K. (Oral) Ocean forcing and effects of distribution of walleye pollock early life history stages: a

- Mueter, F.J.**, Carol Ladd, Phyllis Stabeno, Ron Heintz, Ken Coyle, Gordon H. Kruse. (oral) Environmental controls of gadid year class strength in the eastern Bering Sea. Alaska Marine Science Symposium, January 21, 2010, Anchorage, AK.
- Mueter, F.J.**, Gordon H. Kruse, Vernon Byrd, and Heather Renner (Poster). Covariation among major fish, seabird, and mammal populations in the Eastern Bering Sea. Alaska Marine Science Symposium, January 20, 2010, Anchorage, AK.
- Mueter, F.J.** (Invited) Climate change impacts on fisheries. Alaska Community-Based Climate Change Adaptation Outreach Program Development Workshop, November 16-18, 2009. Videoconference from Juneau to Fairbanks.
- Mueter, F.J.** and M.A. Litzow (Invited). The spatial footprint of biological re-organization in a demersal community. PICES XVIII Science Board Symposium, Cheju Island, Korea, October 26, 2009.
- Mueter, F.J.** (Department Seminar). Climate effects on Bering Sea food webs and fisheries. University of Alaska Fairbanks, Fairbanks, AK. September 30, 2009.
- Mueter, F.J.**, Siddeek Shareef, Jie Zheng. (oral) Gadid-crustacean interactions in the Eastern Bering Sea and Gulf of Alaska. Ecosystem Studies of Subarctic Seas (ESSAS) Annual Meeting. June 18, 2009.
- Mueter, F.J.** (Invited seminar). Environmental and Ecological Indicators for the Eastern Bering Sea. NOAA, NMFS, Ted Stevens Marine Research Institute. May 4, 2009.
- Mueter, F.J.** (Invited seminar). Climate effects on Bering Sea food webs and fisheries. NOAA, NMFS Alaska Regional Office. Juneau, Alaska. February 25, 2009.
- Mueter, F.J.** (Department Seminar). Climate effects on Bering Sea food webs and fisheries. Juneau Center, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks. Juneau, Alaska, January 23, 2009.
- Mueter, F.J.** irbanks.

- presented at ICES Annual Meeting. Helsinki, Finland, September 19, 2007 (**G. Hunt**)
- presented at PICES XVI, Victoria, B.C., Canada. November 2, 2007.
- presented at Ocean Sciences Meeting, Orlando, Florida, March 4, 2008 (**G. Hunt**)