

RESEARCH AND TEACHING INTERESTS

My research explores the intersection between the natural sciences, economics, and public policy and is driven by an interest in the sustainable management of living marine resources of the North Pacific. I direct graduate projects in bioeconomics, statistical inference, and policy analysis and teach courses in resource and environmental economics, econometrics and time series analysis, operations research and decision theory, fisheries law, policy analysis, and economic development for fisheries-dependent communities.

RESEARCH PUBLICATIONS, PRESENTATIONS, AND GRANTS

REFEREED JOURNALS

Williams[™] BC, KR Criddle GH Kruse. 2021. An agent-based model to examine parallel and divergent fishery management strategies for transboundary stocks. (DOI: 10.1111/nrm.12305)

Figus[™] E, KR Criddle. 2019. Characterizing preferences of fishermen to inform decision-making: a case study of the Pacific halibut (*Hoplunnichthys pacificus*) fishery off Alaska. *PLoS ONE* 14(3):e0212537 (doi.org/10.1371/journal.pone.0212537)

Chenoweth[™] E, KR Criddle. 2019. The economic impacts of humpback whale depredation on hatchery-released juvenile Pacific salmon in Southeast Alaska. *Journal of Environmental Economics and Management* 11(1):62-75. (http://dx.doi.org/10.1002/mcf2.10061)

Figus[™] E, KR Criddle. 2019. Comparing self-reported incidental catch among fishermen targeting Pacific halibut and a fishery-independent survey. *Journal of Environmental Economics and Management* 100: 371-381. (https://doi.org/10.1016/j.marpol.2018.12.008)

Sugihara G, KR Criddle, H Ye[™], A Lee, G Pao, C James, E Saberski, A Giron-Nava. 2018. Comprehensive incentives for reducing Chinook salmon bycatch in the Bering Sea walleye pollock fishery: Individual Tradable Encounter Credits. *Journal of Environmental Economics and Management* 22: 70-81. (https://doi.org/10.1016/j.rsma.2018.06.002)

Criddle KR, S Macinko. 2000. A requiem for the IFQ in US fisheries?
24: 461-469. (<http://9>)

EDITED CONFERENCE PROCEEDINGS AND TECHNICAL MEMORANDA

Carothers C, KR Criddle, CP Chambers, PJ Cullenberg, JA Fall, AH Himes-

Herrmann M, ST Lee, C Hamel™, KR Criddle, HT Geier, JA Greenberg, CE Lewis. 2001. An economic assessment of the sport fisheries for halibut, and Chinook and coho salmon in Lower Cook Inlet: final report. University of Alaska Coastal Marine Institute/U.S. Mineral Management Service. 135p. www.data.boem.gov/PI/PDFImages/ESPIS/1/1878.pdf

Womack[™] J, KR Criddle. Retrospective benefit-cost analysis of federally funded buyback programs for Southeast Alaska salmon purse seine permits.
()

SPONSORED PROJECTS

CONFERENCE PRESENTATIONS

Criddle, KR. 2021. The evolution of property rights in the Eastern Bering Sea pollock fishery. Webinar

, Kamchatka State Technical University, Petropavlovsk-Kamchatsky, Russia.

Gho™ M, KR Criddle. 2021. Permit migration of Bristol Bay salmon fisheries. , Anchorage, AK.

Criddle KR. 2020. Impacts of Covid-19 on the seafood industry in Alaska. Webinar on , College of Fisheries, Central Agricultural University, Tripura, India.

Criddle KR. 2019. The Pollock Conservation Cooperative Research Center (PCCRC): a successful model of industry-university cooperative research. Lowell Wakefield Symposium on , Anchorage, AK.

Gho™ M, KR Criddle. 2019. The persistence of heterogeneity in the Bristol Bay Pacific Salmon drift gillnet fishery. , Sitka, AK.

Chenoweth™ E, KR Criddle. 2019. The economic impacts of humpback whale depredation on hatchery-released juvenile Pacific salmon in Southeast Alaska. , Sitka, AK.

Gho™ M, KR Criddle, MD Adkison, B Twomley, B Brown. 2019. Dual permit operations in the Bristol Bay Pacific salmon drift gillnet fishery. , Anchorage, AK.

Criddle KR. 2018. Successes and failures of regulatory requirements to rebuild depleted stocks in U.S. fisheries. (), Annual Science Meeting, Yokohama, Japan.

Criddle KR, A Wardle™, J Shriver™. 2018. Attenuating durable use rights to public resources. (), Annual Science Meeting, Yokohama, Japan.

Criddle KR. 2018. Durable entitlements and resilience in fishery social ecological systems subject to environmental forcing. Understanding Changes in Transitional Areas of the Pacific, (), La Paz, BCS, Mexico.

Criddle KR. 2018. Successes and failures of regulatory requirements to rebuild depleted fish stocks. Pressing Issues in Public Land Management, IHS () and CGO (), Las Vegas, NV

Williams™ BC, KR Criddle, GH Kruse. 2018. An agent-based model for examining parallel and divergent fishery management strategies for transboundary stocks. , Anchorage, AK

Criddle KR. 2017. Durable entitlements and resilience in fishery social ecological systems. (), Vladivostok, Russia.

Criddle KR, J Shriver™. 2017. Retrospective benefit-cost analysis of federally funded buyback programs for Southeast Alaska salmon purse seine permits. (), Vladivostok, Russia.

Criddle KR. 2017. Alternative visions for fisheries governance: the rights of individuals versus the interests of their communities. Mathematics of Planet Earth 2013+: Workshop on Chesapeake Bay Fisheries, Solomons, MD

Courtney™ D, KR Criddle. 2017. Characterizing habitat use of Pacific sleeper sharks in the North Pacific Ocean from time-series analysis of archived electronic tag data and environmental data. , Tampa, FL.

Criddle KR. 2017. The economic importance of wild Pacific salmon. (), Dublin, Ireland.

Criddle KR, S Warpinski™, M Herrmann, JA Greenberg. &™ 5™ U™ U™ sablefish fishery after Individual Fishing Quota Program implementation: a bioeconomic analysis. 9™ Biennial Forum, La Paz, Mexico.

Criddle KR, J Shriver™. 2017. Retrospective Benefit-Cost Analysis of federally funded buyback programs for Southeast Alaska Salmon Purse Seine Permits. , Washington, DC

Figus™ E, KR Criddle. 2017. Comparing experiences with bycatch across fishermen targeting Pacific halibut (). , Anchorage, AK.

Criddle KR, S Warpinski™, A™ Yffa Ubbz™ S™ ; f™ YbVf[™ "™ &™ %™ "™ 5™ U™ U™ sablefish fishery after Individual Fishing Quota Program implementation: a bioeconomic analysis. (), San Diego, USA.

Criddle KR. 2016. Observability and controllability of fishery social ecological systems. , Kansas City, MO.

Criddle KR, S Warpinski™, M Herrmann, J Greenberg. 2016. Changes in 5™ U™ U™ sablefish fishery: untangling biology, markets, and management. , Flagstaff, AZ.

Criddle KR. 2016. Trends in time series observations of human dimension indicator data for the North Pacific ecosystem. MSEAS Symposium: , Brest, France.

Criddle KR. 2016. La machine infernale: How the interplay of social, ecological, and environmental factors influences the observability and controllability of fishery social ecological systems. MSEAS Symposium: , Brest, France.

Di Lorenzo E, A Bundy, KR Criddle. 2015. Towards a social-ecological-environmental system approach for the coastal ocean. (), Qingdao, China.

Criddle KR. 2015. Managing hotspots of ship-resource encounters to ensure natural and cultural protections from emerging cruise tourism in Arctic, Alaska. 5™ ecoAdd™ (), Seattle, WA.

Criddle KR. 2015. La machine infernale: How the interplay of social, ecological, and environmental factors influences the observability and controllability of fishery social ecological systems. , Center for Discrete Mathematics & Theoretical Computer Science, Washington, DC

Warpinski™ S, M Herrmann, KR Criddle, J Greenberg. 2015. Econometric market model for Alaska sablefish. 8™ Biennial Forum, Ketchikan, AK.

Criddle KR. 2014. Resilience in fishery social ecological systems subject to ecological forcing. (), Yeosu, Korea.

Peterson™ MJ, Mueter FJ, Carothers C, Criddle KR, Haynie AC. 2014. Toothed whale interactions with longline fisheries in Alaska and economic implications. (), Yeosu, Korea.

Criddle KR. 2014. Resilience in fishery social ecological systems subject to ecological forcing. , Vilnius, Lithuania.

Criddle KR, M Makino. 2014. Social and economic indicators for status and change within North Pacific ecosystems. (), Bergen, Norway.

Therriault TW, RI Perry, M Makino, KR Criddle. 2014. Large-Scale ecosystem and societal (i)-1D5™ nBT/F5 9™ Tf1 00 61ETJTJETe a:iaum iv(d)-6™ S™ r™ i™ n™ d™

Mitsutaku M, KR Criddle. 2013. Why do we need human dimensions for the FUTURE program? **North Pacific Fisheries Organization**), Nanaimo, Canada.

Criddle KR 2013. Bioeconomic harvest control rules for sustainable management of fisheries in a nonstationary environment. , Kodiak, AK

Criddle KR. 2013. Towards a bioeconomic framework for reforming harvest control rules for Alaska groundfish. , St. Petersburg, FL.

Criddle KR. 2013. Evolution of property rights in the Eastern Bering Sea pollock fishery. (), Edinburgh, Scotland.

DebRoy™P, R Jayaraman, KR Criddle, M Krishnan. 2013. Importance of mangrove conservation and valuation to women: a case study of Pichavaram mangroves in India. . Yeosu, Korea

Criddle KR. 2013. Evolution of property rights in the Eastern Bering Sea pollock fishery. (), Hakodate, Japan.

Criddle KR, J Strong™. 2012. Straddling the line: cooperative and non-cooperative strategies for management of Bering Sea pollock. (), Hiroshima, Japan.

Criddle KR, E Steiner™. 2012. Balancing biological sustainability with the economic needs of U.S. sockeye salmon fisheries. , Brisbane, Australia.

Criddle KR. 2012. University of Alaska Fisheries, Seafood, and Maritime Initiative. . Anchorage, AK.

Criddle KR, J Strong™. 2012. Dysfunction by design: the effects of limitations on transferability of catch shares in the Alaska pollock fishery

ICES () Annual Science Conference in Reykjavik, Iceland. September 2013.

PICES () NPESR and WOA workshop on human dimensions in North Pacific marine ecosystems. Honolulu. June 2013.

NAAFE (), St. Petersburg, FL. May 2013.

EAFE (), Edinburgh, Scotland. April 2013.

AMSS (), Anchorage, AK. January 2013.

ESSAS () 3rd Open Science Meeting, Hakodate, Japan. January 2013.

AFS () Alaska Chapter meeting, Kodiak, AK. October 2011.

PICES (North Pacific Fisheries Organization). Hiroshima, Japan. October 2012.

RMA (), International Conference on Natural Resource Modeling, Brisbane, Australia. July 2012.

Yeosu, Korea.

May 2012

PFT () Annual Conference. Anchorage, AK. February 2012.

AMSS (), Anchorage, AK. January 2012.

JMS () Boston, MA, January 2012.

AFS () Alaska Chapter meeting, Girdwood, AK. November 2011.

PICES (), Annual Science Meeting, Khabarovsk, RU. October 2011.

, Anchorage, AK. September 2011

PERC (), Lessons Learned in Rights-Based Fisheries Management, Bozeman, MT. July 2011.

RMA (), International Conference on Natural Resource Modeling, Ottawa, Canada. June 2011.

ESSAS () 1st Open Science Meeting, Seattle, WA. May 2011.

NAAFE (), Honolulu, HI. May 2011.

International Conference on Marine Debris, Honolulu, HI. March 2011.

AMSS (), Anchorage, AK. January 2011.

Energy use in fisheries: improving efficiency and technological innovations from a global perspective, Seattle, WA. November 2010.

, Anchorage, AK. November 2010.

AFS () Alaska Chapter meeting, Juneau, AK. November 2010.

PICES (), Annual Science Meeting. Portland, OR. October 2010.

PICES (), Human Dimensions of Ecosystem Based

H043.77 212.69 Tm0 g0 G>WñBT/F1 9 Tf1 0 0 1 128.3 249.17 Tm0 g0 G(Se)-10(a)6(ttle)3(,)612 792 reWñBT0 4(e)4(-)-442(M)-6(e(S 0 050 GeV

NAAEA (), San Antonio, TX. November 2003.

, Sundance, UT. October 2003.

, Kona, HI. October 2003.

RMA (), International Conference on Natural Resource Modeling, Beaufort, NC. June 2003

WAAEA (), San Luis Obispo, CA. October 2002.

PERC (), 12th Political Economy Forum, Big Sky, MT. March 2002.

AFS (), Annual Meeting, Phoenix, AZ. August 2001.

WAEA (), Logan, UT. July 2001.

RMA (), International Conference on Natural Resource Modeling, Logan, UT. June 2001

NAAFE (), New Orleans, LA. April 2001

AFS () Bonneville Chapter meeting, St. George, UT. February 2001.

AFS () Alaska Chapter meeting, Fairbanks, AK, November 2000.

WAAEA (), Tucson, AZ. October 2000.

IIFET (), Corvallis, OR. July 2000.

WAEA (), Vancouver, BC. June 2000.

WRSAA (), Kauai, HI. February 2000.

NAAEA (), Kansas City, MO. November 1999.

, Anchorage, AK. October 1999.

AFS () Bonneville Chapter meeting, Moab, UT. March 1999.

, University of Washington, Seattle, WA. March 1999.

, U.S. Department of Interior, U.S. National Marine Fisheries Service, and Alaska Department of Fish & Game, Anchorage, AK. December 1997

, Arctic Research Consortium of the US, Seattle, WA. October 1997

AACSB (), Continuous Improvement Symposium, San Diego, CA. October 1997

Workshop on the Impacts of Global Change on the Western Arctic/Bering Sea Region, Fairbanks, AK. June 1997.

AFS (), Alaska Chapter meeting, Fairbanks, AK. November 1996.

AFS (), Annual Meeting, Dearborn, MI. August 1996.

AFS (), Alaska Chapter meeting, Wasilla, AK. November 1995.

Bering Sea Impacts Workshop (BESIS), Fairbanks, AK. September 1995

AAAS (), Special Workshop on Preparing for an Uncertain Future, Impacts of Short & Long-term Climate Change on Alaska, Fairbanks, AK. September 1995.

RMA (), International Conference on Natural Resource Modeling, Juneau, AK. June 1995.

NCAR (), Institute on the Economics of the Climate Resource, Boulder, CO. June 1995.

Yukon River salmon stock modeling, US Fish & Wildlife Service, Fairbanks, AK. February 1995.

, Seattle, WA. June 1994.

CAEC chaos workshop: predicting ocean survival for Pacific salmon using chaos-based models, Battelle Pacific Northwest Laboratories, Portland, OR. April 1994.

AFS (), Alaska Chapter meeting, Fairbanks, AK. November 1993.

Anchorage, AK. September 1993.

AFS (), Annual Meeting Portland, OR. August 1993.

International C.35 541.3m-109(Naye / E5 9 310 01 549 46 614 02 Tm 0 g
Bergen, Norway. May 1993

RMA (), International Conference on Natural Resource Modeling, Tucson, AZ. May 1993.

, Anchorage, AK, February 1993.

AFS (),

™denotes a student co-author

INSTRUCTION AND ADVISING

INSTRUCTIONAL MATERIALS

Criddle KR. 2011.
edition. 170p.

, 2nd

Criddle KR. 2004.

. 140p.

G

Peterson MJ. 2014. Qualitative and quantitative investigations into cetacean depredation on Alaskan longline fisheries. Directed by F Mueter and C

TECHNICAL ASSISTANCE PROJECTS AND EXPERT TESTIMONY

INTERNATIONAL TECHNICAL ASSISTANCE PROJECTS

Far Eastern Center for Economic Development, Vladivostok, RUSSIA, 08/30-9/15/08.

Far Eastern Center for Economic Development, Vladivostok, RUSSIA, 09/01-10/05.

Far Eastern Center for Economic Development, Vladivostok and Far-Eastern Chamber of Commerce and Industry, Khabarovsk, RUSSIA, 03/08-19/05.

Review of Utah State University distance education programs, partnerships and prospective partnerships in China, Singapore, and Hong Kong. 09/04-18/04.

Far Eastern Center for Economic Development; World Economics Department, Institute of Management and Business (Bus) 57.36 600