#### 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 REFERED JOURNALS

Williams<sup>™</sup> BC, KR Criddle GH Kruse. 2021. An agent-based model to examine parallel and divergent fishery management strategies for transboundary stocks. **Natural ResourceModeling** (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 (**Hippogosus stenderis**) 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. **Marine and Coestal Fisheries** 11(1):62-75. (http://dx.doi.org/10.1002/mcf2.10061)

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Sugihara G, KR Criddle, H Ye<sup>™</sup>, 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. **Regional Studes in Marine Science** 22: 70181. (https://doi.org/10.1016/j.rsma.2018.06.002)

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

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## EDITED CONFERENCE PROCEEDINGS AND TECHNICAL MEMORANDA

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

<sup>™</sup>denotes a student co-author 4 of 17

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

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Womack $^{\mathbb{M}}$ J, KR Criddle. Retrospective benefit-cost analysis of federally funded buyback programs for Southeast Alaska salmon purse seine permits. (in preparation)

## **SPONSORED PROJECTS**

<sup>™</sup>denotes a student co-author 6 of 17

#### **CONFERENCE PRESENTATIONS**

Criddle, KR. 2021. The evolution of property rights in the Eastern Bering Sea pollock fishery. Webinar XII All-Russian International Research and Training Conference on Natural Resources, their Current State Protection, Tracheand Technical Use, Kamchatka State Technical University, Petropavlovsk-Kamchatsky, Russia.

Gho™M, KR Criddle. 2021. Permit migrah]cb`]b`5`Ug\_Uīg`@]a ]hYX`9bffm salmon fisheries. **Alæka Marine Sience Symposium** Anchorage, AK.

Criddle KR. 2020. Impacts of Covid-19 on the seafood industry in Alaska. Webinar on **Fisheries Supply Chain Dynamics during Coid-19**. 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 CooperativeReserch Strategies or Integrating Industry Perspettives and Insights in Fisheries Science. Anchorage, AK.

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

Chenoweth™ E, KR Criddle. 2019. The economic impacts of humpback whale depredation on hatchery-released juvenile Pacific salmon in Southeast Alaska. A merican Fisheries Scriety Alaska Chapter, 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. Alaka MarineSienæSymposium Anchorage, AK.

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

Criddle KR, A Wardle™, J Shriver™. 2018. Attenuating durable use rights to public resources. **North Padic Fisheries Organization** (**PICES**), 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, **North Pacific Fisheries Organization (PICES)**, 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 (Institutefor HumaneStudies) and CGO (Center for Growth and Opportunity), Las Vegas, NV

Williams<sup>™</sup> BC, KR Criddle, GH Kruse. 2018. An agent-based model for examining parallel and divergent fishery management strategies for transboundary stocks. **Alæka Marine Sience Symposium** Anchorage, AK

Criddle KR. 2017. Durable entitlements and resilience in fishery social ecological systems. **North Padfic Fisheries Organization (PICES)**, Vladivostok, Russia.

Criddle KR, J Shriver<sup>™</sup>. 2017. Retrospective benefit-cost analysis of federally funded buyback programs for Southeast Alaska salmon purse seine permits. **North Padfic Fisheries Organization (PICES)**, Vladivostok, Russia.

Criddle K.R. 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, M.D.

Courtney<sup>™</sup>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. **American Fisherics Scorety**, Tampa, FI

Criddle KR. 2017. The economic importance of wild Pacific salmon. **European Association of Fisheries Economists (EAFE)**, Dublin, Ireland.

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

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Criddle KR. 2016. Trends in time series observations of human dimension indicator data for the North Pacific ecosystem. MSEAS Symposium: Understanding marine socio-ecological systems inducing the human dimension in Integrated Ecosystem Assessments Brest, France.

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

Criddle KR. 2015. Managing hotspots of ship-resource encounters to ensure natural and cultural protections from emerging cruise tourism in Arctic, Alaska. 5th Ecosptem Studies of Substantic Sees (ESSAS) Open Science Meeting Seattle, WA.

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Warpinski<sup>™</sup>S, M Herrmann, KR Criddle, J Greenberg. 2015. Econometric market model for Alaska sablefish. **North American Association of Fisheries Economists**8<sup>th</sup> Biennial Forum, Ketchikan, AK.

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

Peterson<sup>™</sup> MJ, Mueter FJ, Carothers C, Criddle KR, Haynie AC. 2014. Toothed whale interactions with longline fisheries in Alaska and economic implications. **North Padfic Fisheries Organization** (**PICES**), Yeosu, Korea.

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Criddle KR. 2013. Towards a bioeconomic framework for reforming harvest control rules for Alaska groundfish. **North American Association of Fisheries Economists** St. Petersburg, FL.

Criddle KR. 2013. Evolution of property rights in the Eastern Bering Sea pollock fishery. **European Association of Fisheries Economists (EAFE)**, Edinburgh, Scotland.

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

Criddle K.R. 2013. Evolution of property rights in the Eastern Bering Sea pollock fishery. 3rd Ecosystem Studies of Sub-Ardic Sees (ESSAS) Open Science Meeting Hakodate, Japan.

Criddle KR, J Strong<sup>™</sup>. 2012. Straddling the line: cooperative and non-cooperative strategies for management of Bering Sea pollock. **North Padfic Fisheries Organization (PICES)**, Hiroshima, Japan.

Criddle KR, E Steiner™: 2012. Balancing biological sustainability with the economic needs cZ 5 'Lg\_Us sockeye salmon fisheries. Resource Modeling Association, Brisbane, Australia.

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

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

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NAAEA (National Association of Agricultural Economics Administrators), San Antonio, T.X. November 2003.

Focus on Trade A searbly, Sundance, UT. October 2003.

Western Water W-190 Conference Kona, HI. October 2003

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

WAAEA (Western Association of Agricultural Economics Achrinistrators), San Luis Obispo, CA. October 2002.

PERC (**Property and Environment Research Center**), 12<sup>th</sup> Political Economy Forum, Big Sky, MT. March 2002.

AFS (American Fisheries Society), Annual Meeting, Phoenix, AZ. August 2001.

WAEA (Western A gicultural Economics A ssociation), Logan, UT. July 2001.

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

NAAFE (North American Association of Fisheries Economists), New Orleans, LA. April 2001

AFS (A merican Fisheries Society) Bonneville Chapter meeting, St. George, UT. February 2001.

AFS (American Fisheries Society) Alaska Chapter meeting, Fairbanks, AK, November 2000

WAAEA (Western Association of Agricultural Economics Administrators), Tucson, AZ. October 2000.

IIFET (International Institute of Fisheries Economics and Trade), Corvallis, OR. July 2000.

WAEA (Western Agricultural Economics Association), Vancouver, BC. June 2000.

WRSA (Western Regional Science Association), Kauai, HI. February 2000

NAAEA (National Association of Agricultural Economics Administrators), Kansas City. MO. November 1999.

Lowell Wakefield Symposium on Spatial Processes & Management of Marine Populations, Anchorage, A.K. October 1999.

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

**National Fishery Law Symposium** University of Washington, Seattle, WA. March 1999.

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

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

AACSB (American Assembly of Collegiate Schools of Business), 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 (American Fisheries Society), Alaska Chapter meeting, Fairbanks, AK. November 1996.

AFS (American Fisheries Society), Annual Meeting, Dearborn, MI. August 1996

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

International Ardic Science Committee Bering Sea Impacts Workshop (BESIS), Fairbanks, AK. September 1995

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

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

NCAR (National) Center for Atmospheric Research), 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.

Fisheries Management: Global Trends Symposium, Seattle, W.A. June 1994.

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

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

International Symposium of the Conference of Pan-Pacific University Presidents, Anchorage, A.K. September 1993.

AFS (American Fisheries Society), Annual Meeting Portland, OR. August 1993.

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

Alaska Marine Resource Economics Workshop, Anchorage, AK, February 1993.

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## **INSTRUCTION AND ADVISING**

## **INSTRUCTIONAL MATERIALS**

Criddle KR. 2011. Letture Notes on State Space Modeling of Time Series,  $2^{nd}$  edition. 170p.

Criddle KR. 2004. Lecture Notes on State Space Modeling of Time Series 140p.

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

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# TECHNICAL ASSISTANCE PROJECTS AND EXPERT TESTIMONY

#### INTERNATIONAL TECHNICAL ASSISTANCE PROJECTS

Far Eastern Center for Economic Development, Vladivostok, RUSSIA, 08/30 ì 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 Busines 36 567.6OET567

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