

Curriculum Vitae of Gordon H. Kruse

C O N T A C T A D D R E S S

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E D U C A T I O N

Ph.D.	<i>Fisheries</i>	Oregon State University	1983
M.S.	<i>Fisheries</i>	Oregon State University	1981
B.A.	<i>Biostatistics</i>	Rutgers College, Rutgers University	1977

P R I M A R Y R E S E A R C H I N T E R E S T S

Applied marine fisheries research, including population dynamics, alternative management strategies, fisheries oceanography, and marine ecosystem dynamics and management.

S U M M A R Y O F P R O F E S S I O N A L E X P E R I E N C E

- 11/01 – pres. **President's Professor of Fisheries**, School of Fisheries & Ocean Sciences, University of Alaska Fairbanks, Juneau, Alaska
- 3/89 – 11/01 **Marine Fisheries Scientist**, Alaska Department of Fish and Game (ADF&G), Division of Commercial Fisheries, Juneau, Alaska
- 8/85 - 3/89 **Statewide Shellfish Biometrician**, ADF&G, Division of Commercial Fisheries, Juneau, Alaska
- 1/84 - 6/85 **Post-doctoral Research Fellow (Fisheries Biologist)**, Department of Fisheries and Oceans, St. John's, Newfoundland, Canada
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O T H E R P R O F E S S I O N A L E X P E R I E N C E

- 10/05 - pres. **Chair**, Fishery Science Committee (FIS), North Pacific Marine Science Organization (PICES), **U.S. delegate** since 8/95.
- 1/05 – pres. **Chair, Scientific and Statistical Committee**, North Pacific Fishery Mgt. Council, **Vice chair** (1/03 – 12/04), **member** (1/90 – 1/92 & since 10/02).
- 11/02 – 10/04 **Member, Science Panel**, North Pacific Marine Research Board.
- 11/00 – pres. **Chair, Editorial Board**, Alaska Fishery Research Bulletin, Alaska Department of Fish and Game, **member** (1/94 – present).
- 8/02 – 6/04 **Member, Scientific Technical Committee**, AYK Sustainable Salmon Initiative.

- 7/01 – 1/03 **Member, Committee on Alaska Groundfish Fishery and Steller Sea Lions**, National Academy of Sciences.
- 12/00 – 6/02 **Member, Committee on Effects of Bottom Trawling on Seafloor Habitats**, National Academy of Sciences.
- 11/00 – 11/01 **Chair, Alaska Steller Sea Lion Restoration Team**, appointed by Alaska Governor Tony Knowles.
- 8/96 – 11/01 **State of Alaska Representative, Ecosystem Committee**, North Pacific Fishery Management Council.
- 8/95 – 10/99 **State of Alaska Representative**, Coastal Marine Institute, Technical Steering Committee.
- 6/93 – 11/01 **Member, Scallop Plan Team**, North Pacific Fishery Management Council.
- 1/86 - 12/89 **Member, Crab Plan Team**, North Pacific Fishery Management Council.

P R O F E S S I O N A L A N D H O N O R S O C I E T I E S

American Association for the Advancement of Science	Phi Beta Kappa
American Fisheries Society	Sigma Xi
American Elasmobranch Society	Phi Sigma
National Shellfisheries Association	Phi Kappa Phi
American Statistical Association	

R E C E N T R E F E R E E D P U B L I C A T I O N S

- Kruse, G.H.** In press. Crab and shrimp. In R.B. Spies, ed. Long-term ecological change in the northern Gulf of Alaska. Elsevier, in press.
- Kruse, G.H.** In press. Species interactions. In R.B. Spies, ed. Long-term ecological change in the northern Gulf of Alaska. Elsevier, in press.
- Kruse, G.H.** In press. Long-term changes in crabs and shrimp in the northern Gulf of Alaska. In R.B. Spies, ed. Long-term ecological change in the northern Gulf of Alaska. Elsevier, in press.
- Kruse, G.H.**, and A.M. Springer. In press. Agents of ecosystem change: marine mammal harvesting and fishing. In R.B. Spies, ed. Long-term ecological change in the northern Gulf of Alaska. Elsevier, in press.
- Tojo, N., **G.H. Kruse**, and F.C. Funk. 2006. Migration dynamics of pre-spawning Pacific herring (*Clupea pallasii*) and response to spring environmental variability in the southeastern Bering Sea. Progress in Oceanography, in press.
- Zheng, J., and **G.H. Kruse**. 2006. Recruitment variation of eastern Bering Sea crabs: climate forcing or top-down effects? Progress in Oceanography 68: 184-204.

- Collie, J.S., A.K. DeLong, and **G.H. Kruse**. 2005. Three-stage catch-survey analysis applied to blue king crabs Pages 683-714 *In* Kruse, G.H., V.F. Gallucci, D.E. Hay, R.I. Perry, R.M. Peterman, T.C. Shirley, P.D. Spencer, B. Wilson, and D. Woodby (eds.), Fisheries assessment and management in data-limited situations. Alaska Sea Grant College Program, University of Alaska Fairbanks.
- Kruse, G.H.**, J.P. Barnhart, and G.E. Rosenkranz. 2005. Management of the data-limited weathervane scallop fishery in Alaska. Pages 51-68 *In* Kruse, G.H., V.F. Gallucci, D.E. Hay, R.I. Perry, R.M. Peterman, T.C. Shirley, P.D. Spencer, B. Wilson, and D. Woodby (eds.), Fisheries assessment and management in data-limited situations. Alaska Sea Grant College Program, University of Alaska Fairbanks.
- Schumacher, J.D., and **G.H. Kruse**. 2005. Toward sustainable ecosystem services from the Aleutian Archipelago. *Fisheries Oceanography* 14(Suppl. 1): 277-291.
- National Research Council. 2003. Decline of the Steller sea lion in Alaskan waters: untangling food webs and fishing nets. National Academy Press, Washington, D.C. 204 p.
- Zheng, J., and **G.H. Kruse**. 2003. Stock-recruitment relationships for three major Alaskan crab stocks. *Fisheries Research* 65: 103-121.
- National Research Council. 2002. Effects of trawling and dredging on seafloor habitat. National Academy Press, Washington, D.C. 126 p.
- Paul, A.J., E.G. Dawe, R. Elner, G.S. Jamieson, **G.H. Kruse**, R.S. Otto, B. Sainte-Marie, T.C. Shirley, and D. Woodby (editors). 2002. Crabs in cold water regions: biology, management, and economics. University of Alaska Sea Grant, AK-SG-02-01, Fairbanks.
- Zheng, J., and **G.H. Kruse**. 2002. Retrospective length-based analysis of Bristol Bay red king crabs: model evaluation and management implications. Pages 475-494 *in* Paul, A.J., E.G. Dawe, R. Elner, G.S. Jamieson, **G.H. Kruse**, R.S. Otto, B. Sainte-Marie, T.C. Shirley, and D. Woodby (editors). Crabs in cold water regions: biology, management, and economics. University of Alaska Sea Grant, AK-SG-02-01, Fairbanks.
- Zheng, J., and **G.H. Kruse**. 2002. Assessment and management of crab stocks under uncertainty of massive die-offs and rapid changes in survey catchability. Pages 367-384 *in* Paul, A.J., E.G. Dawe, R. Elner, G.S. Jamieson, **G.H. Kruse**, R.S. Otto, B. Sainte-Marie, T.C. Shirley, and D. Woodby (editors). Crabs in cold water regions: biology, management, and economics. University of Alaska Sea Grant, AK-SG-02-01, Fairbanks.
- Kruse, G.H.**, N. Bez, A. Booth, M.W. Dorn, S. Hills, R.N. Lipcius, D. Pelletier, C. Roy, S.J. Smith, and D. Witherell (editors). 2001. Spatial processes and management of marine populations. University of Alaska Sea Grant, Report AK-SG-01-02, Fairbanks.
- Rosenkranz, G.E., A.V. Tyler, and **G.H. Kruse**. 2001. Effects of water temperature and wind on recruitment of Tanner crabs in Bristol Bay, Alaska. *Fisheries Oceanography* 10: 1-12.
- Zheng, J., **G.H. Kruse**, and D.R. Ackley. 2001. Spatial distribution and recruitment patterns of snow crabs in the eastern Bering Sea. Pages 233-255 *in* G.H. Kruse, N. Bez, A. Booth, M.W. Dorn, S. Hills, R.N. Lipcius, D. Pelletier, C. Roy, S.J. Smith, and D. Witherell

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- Fu, C., T.J. Quinn, II, and **G.H. Kruse**. 2000. Analyses of harvest strategies for pandalid shrimp populations. *Journal of Northwest Atlantic Fishery Science* 27: 247-260.
- Kruse, G.H.**, L.C. Byrne, F.C. Funk, S.C. Matulich, and J. Zheng. 2000. Analysis of minimum size limit for the red king crab fishery in Bristol Bay, Alaska. *North American Journal of Fisheries Management* 20: 307-319.
- Zheng, J., and **G.H. Kruse**. 2000. Recruitment patterns of Alaskan crabs and relationships to decadal shifts in climate and physical oceanography. *ICES Journal of Marine Science* 57: 438-451.
- Zheng, J., and **G.H. Kruse**. 2000. Rebuilding probabilities under alternative rebuilding strategies for eastern Bering Sea Tanner crab. *Alaska Fishery Research Bulletin* 7: 1-10.
- Zhou, S., and **G.H. Kruse**. 2000. Modifications of cod pots to reduce Tanner crab bycatch. *North American Journal of Fisheries Management* 20: 897-907.
- Zhou, S., and **G.H. Kruse**. 2000. Capture efficiency and size selectivity of two types of pots for red king crabs in the Bering Sea. *Alaska Fishery Research Bulletin* 6(2): 94-103.
- Kruse, G.H.**, and J. Zheng. 1999. Are changes in Bering Sea crab and groundfish populations related? Pages 143-148 *in* Ecosystem approaches for fisheries management. University of Alaska Sea Grant Report 99-01, Fairbanks.
- Zheng, J., and **G.H. Kruse**. 1999. Evaluation of harvest strategies for Tanner crab stocks that exhibit periodic recruitment. *Journal of Shellfish Research* 18: 667-679.
- Collie, J.S., and **G.H. Kruse**. 1998. Estimating king crab abundance from commercial catch and research survey data. Pages 73-83 *in* G.S. Jamieson and A. Campbell, editors. Proceedings of the North Pacific Symposium on Invertebrate Stock Assessment and Management. Canadian Special Publication of Fisheries and Aquatic Sciences 125.
- Kruse, G.H.** 1998. Salmon run failures in 1997-1998: A link to anomalous ocean conditions? *Alaska Fishery Research Bulletin* 5(1): 55-63.
- Rosenkranz, G.E., A.V. Tyler, **G.H. Kruse**, and H.J. Niebauer. 1998. Relationship between wind and year class strength of Tanner crabs in the Southeastern Bering Sea. *Alaska Fishery Research Bulletin* 5(1): 18-24.
- Tyler, A.V., and **G.H. Kruse**. 1998. A comparison of year-class variability of red king crabs and Tanner crabs in the eastern Bering Sea. *Memoirs of the Faculty of Fisheries, Hokkaido University*, Vol. 45, No. 1: 90-95, Hakodate, Japan.
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Zhou, S., T.C. Shirley, and **G.H. Kruse**. 1998. Feeding and growth of the red king crab *Paralithodes camtschaticus* under laboratory conditions. Journal of Crustacean Biology 18: 337-345.

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Schumacher, J.D., **G.H. Kruse**, and S.A. Macklin, guest editors. 2005 The Aleutian ecosystem: processes controlling variability in productivity and ecosystem structure. Fisheries Oceanography 14 (Suppl. 1), 306 p.

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