

## Authors Biographies

Richard (Dick) Beamish  
Senior Author for Canadian Review Paper



Dick Beamish is the Senior Scientist and former Director at the Pacific Biological Station in Nanaimo, British Columbia, Canada. He has published over 250 scientific articles on a range of topics from climate impacts on fish, to new species of fish. For the past 11 years he has been a Commissioner of the International Pacific Halibut Commission. He was appointed as the Department of Fisheries and Oceans representative on the New Pacific Fisheries Resource Conservation Council, an independent body that advises the Minister of Fisheries and Oceans on salmon and related management issues. He also was appointed by Canada to be a member of the four person Committee for Scientific Cooperation for the Pacific Salmon Commission. He currently is the chairman for the Committee on Scientific Research and Statistics (CSRS) for the North Pacific Anadromous Fish Commission. In February of 1999, he was awarded the Order of Canada for his discovery of the problem of acid rain in North America. As well, he was recently appointed as a Fellow of the Royal Society of Canada. He teaches a course each year on Pacific coast fisheries management at Malaspina University College and produces videos on famous scientists whose careers in aquatic science would be inspirational to students. His work on age determination included the recognition that many fish are long-lived and he has also contributed to the understanding of the impacts of climate on fish populations. Dick Beamish has been married for 33 years and has two daughters. He plays rugby, grows rhododendrons, and makes chocolates.



Mike Healey  
Co-Author for Canadian Review Paper

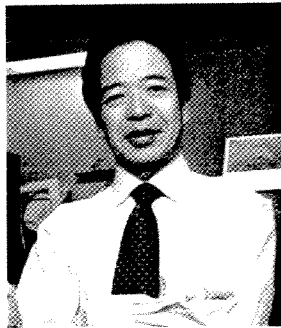


Mike Healey received his PhD from the University of Aberdeen, Scotland in 1969. From 1970 until 1990, Professor Healey was a scientist with the federal government working on freshwater fisheries from 1970 to 1974 and salmon fisheries from 1974 to 1990. In 1990 he joined the faculty at UBC as director of the Westwater Research Centre. Since 1995 he has been cross appointed in the Institute for Resources and Environment and Sustainability, the Fisheries Centre and the Department of Earth and Ocean Sciences. Mike Healey is recognized internationally as an expert in the ecology of Pacific salmon and as an expert in the design of resource management systems. He has served as a consultant to government and industry in Canada, the United States and Asia on the management of fish and fish habitat and on restoration of aquatic ecosystems. For the past five years he has been an advisor on ecosystem restoration to the CALFED Bay-Delta program in California. He is presently on sabbatical at the University of Rhode Island where he is writing a book on ecosystem based management of coastal resources.



Isobel Pearsall  
Co-Author for Canadian Review Paper

Born in Manchester, England, Isobel Pearsall did her undergraduate degree in Biology at Oxford University between 1984 and 1987. After working abroad in Japan for a number of years, she did her MSc in Biology at Dalhousie University, Nova Scotia, Canada between 1990–1992 and then her Ph.D. at the University of British Columbia in Vancouver, Canada between 1992–1998. She worked at the Pacific Biological Station as a post-doctoral fellow between September 1999 and January 2001. Since that time, she has established her own consulting business, and works primarily in fisheries and forestry consulting. She lives in Nanaimo on Vancouver Island, Canada, with her husband and two children. She enjoys kayaking and camping, organic gardening, and wine-making.

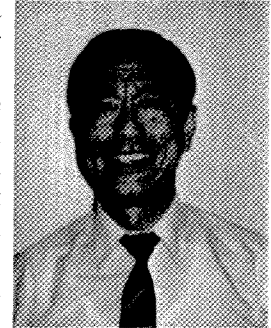


Hiroshi Mayama  
Senior Author for Japanese Review Paper

Hiroshi Mayama studied fishery biology at the Tokyo University of Fisheries, Japan. He has been employed at the National Salmon Resources Center (formerly the Hokkaido Salmon Hatchery), Sapporo in Hokkaido, for thirty-five years, where he has occupied position of research scientist in areas of salmon enhancement. Until 1970s, his research work focused on early life history of chum salmon to clarify the proper timing and size for effective release of juveniles from hatcheries. In 1985 he was appointed chief of ecology section of the research division of the Hokkaido Salmon Hatchery, Fishery Agency of Japan, and turned his attention to enhancement of masu salmon resources. He received a Ph.D. in Fisheries from the Hokkaido University, Japan in 1990 for his study on freshwater life and propagation technology of masu salmon. At present, he is director of research division of the National Salmon Resources Center.

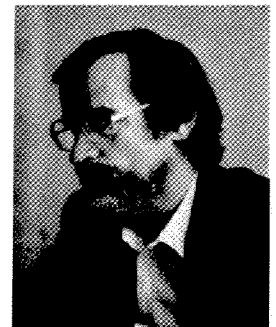
Yukimasa Ishida  
Co-Author for Japanese Review Paper

Yukimasa Ishida served for 16 years as research scientist at the National Research Institute of Far Seas Fisheries (NRIFSF) in Shimizu, Japan and for 3 years as the Research Coordinator of Oceanography and Resources at the Hokkaido National Fisheries Research Institute in Kushiro, Japan. He started salmon research at NRIFSF and studied salmon stock identification using scale pattern analysis. He also had interested in growth variation and carrying capacity of Pacific salmon. He surveyed salmon ecology in the North Pacific Ocean, Bering Sea and Okhotsk Sea several times. He served as CSRS Chairman from 1999 to 2001. Now he is a Director of Kuroshio Research Division, National Research Institute of Fisheries Science, in Kochi, Japan.



Vladimir Karpenko  
Senior Author for Russian Review Paper

Vladimir Karpenko is the Head of the Bering Sea Program and Chief Scientist of the Laboratory of Marine Salmon Investigations at KamchatNIRO, Russia. He was born in Ukraine. But from 1954 to 1973 he lived in Primorye Territory. In 1973 he graduated Far Eastern Fishery University and began his work as the Junior Scientist of the Laboratory of Marine Salmon Investigations at KamchatNIRO. Then he continued the scientific researches as the Senior Scientist (1984–1990), and as the Head Laboratory (1991–1997). During three years Vladimir Karpenko was a Deputy Director (1998–2001). From 2002 he is Chief Scientist of the Laboratory. In 1983 he finished Ph. dissertation (Institute of Marine Biology, Vladivostok) and in 1997 – Doctor's dissertation at Russian Federal Institute of Fisheries and Oceanography in Moscow. His laboratory conducts international cooperative research on stocks origins, distribution, migration, abundance, and ecology of Pacific salmon in the North Pacific Ocean, Bering Sea, and Okhotsk Sea. He is best known for his research on the early marine life history of juvenile salmon, relationships between salmon and other commercial fish species, and the role of salmon juveniles in coastal ecosystems. He is an international expert on methods used to catch Pacific salmon in coastal and offshore marine waters and to estimate the brood abundance of pink salmon and others species. Besides, Vladimir Karpenko is an international expert of IUCN SSG. He has more than 80 published works.





Richard Brodeur  
Senior Author for the United States Review Paper

Richard Brodeur is a Research Fisheries Oceanographer working in the Fish Ecology Division of the Northwest Fisheries Science Center, NOAA Fisheries, and is based in Newport, OR. Ric received his B.S. in Fishery Science from the University of Massachusetts, his M.S. in Oceanography from Oregon State University, and his Ph.D. in Fisheries from the University of Washington. His dissertation research examined the feeding ecology of juvenile salmon and its relationship to ocean carrying capacity. Following a year-long postdoctoral position at Pacific Biological Laboratory in Nanaimo, B.C. Canada, he began his career working on early life history and recruitment dynamics of walleye pollock in the Gulf of Alaska and Bering Sea for the Alaska Fisheries Science Center based in Seattle. He worked in this study for eight years but in 1999, he returned to Oregon to work again on habitat preferences and trophic ecology of juvenile salmon. Over the years, Ric has been heavily involved with the North Pacific Marine Science Organization (PICES) serving on several committees and working groups and organizing a number of special sessions. He is also on the Scientific Steering Committee of the U.S. GLOBEC program. During a temporary assignment to a lab in Monterey, California, he led a team of scientists in developing a NOAA Strategic Plan to study salmon in the ocean. He has published on a variety of topics ranging from satellite oceanography to fish bioenergetics to fisheries acoustics, but has focused much of his research on juvenile salmon.



John H. (Jack) Helle  
Co-Author for the United States Review Paper

John H. (Jack) Helle is Chairman of BASIS (Bering-Aleutian Salmon International Survey) Working Group for the NPAFC. He was appointed to his present position of Program Manager in 1996 for Ocean Carrying Capacity Research (OCC) with the National Oceanic and Atmospheric Administration (NOAA Fisheries) at the Alaska Fisheries Science Center's Auke Bay Laboratory in Juneau, Alaska. Previous research assignments at Auke Bay Laboratory included: directing salmonid stock identification research from 1982 to 1995, project leader for Pink and Chum Salmon Investigations at Olsen Bay Field Station from 1965 to 1981, and fishery research biologist at the Olsen Bay Field Station from 1960-1964. He received his B.S. (1958) and M.S. (1961) degrees in Fishery Management from the University of Idaho, spent a year as an Honorary Research Fellow (1964-65) at Marischal College, University of Aberdeen, Scotland, and completed the Ph.D. (1979) degree in Fisheries Science at Oregon State University. Jack Helle has been married (Marilyn) for 43 years and has two daughters.

Katherine (Kate) Myers  
Co-Author for the United States Review Paper

Katherine (“Kate”) W. Myers is a fishery research biologist with a B.Sc. in Fisheries from the University of Washington (1976), an M.Sc. in Fisheries from Oregon State University (1980), and a Ph.D. in Fisheries from Hokkaido University (1998). Throughout her career, Kate’s work has focused on the biology, life history, ecology, and stock interactions of Pacific salmon and steelhead trout in river estuaries and in the North Pacific Ocean and Bering Sea. Kate is currently the Principal Investigator of the long-term (since 1953) High Seas Salmon Research Program at the School of Fishery and Aquatic Sciences, University of Washington, Seattle, which conducts international cooperative research on salmon and steelhead trout in the North Pacific Ocean and Bering Sea. Her research specialties include tagging experiments to determine salmon ocean distribution and migration patterns, scale pattern analyses for age, growth, and stock composition of salmon in mixed-stock research and commercial fishery catches, and marine food habits studies of salmon for bioenergetic and carrying capacity models. Her contributions to this NPAFC Bulletin were funded by the Auke Bay Laboratory, Alaska Fisheries Science Center, National Marine Fisheries Service (NOAA Contract 50-ABNF-1-0002).



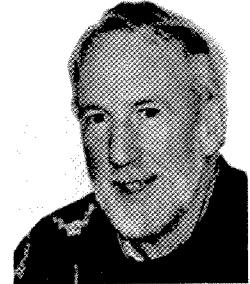
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## Reviewers Biographies

Sandy Argue  
Reviewer for the Canadian Paper

Sandy Argue currently is A/Director Seafood Development for the British Columbia Ministry of Agriculture, Food and Fisheries (MAFF). His career in fisheries spans 40 years starting with Pacific Region, Fisheries and Oceans Canada (DFO), first as a Summer Student, then as Senior Management Biologist for the Johnstone Strait - Strait of Georgia Division. In this capacity during the 1960s and 1970s he conducted extensive tagging and nearshore seining surveys for juvenile chinook and coho salmon. He left DFO in 1978 to take a position as Senior Scientist for tuna stock assessment with the South Pacific Commission in Noumea, New Caledonia. In 1984 he returned to Canada where he consulted in fisheries resource assessment and management until returning to DFO Pacific Region in the International and Intergovernmental Affairs Division. In this capacity he advised the Canadian government on fisheries issues under negotiation with the United States and other Pacific nations. In 1994 he assumed the position of International Advisor at DFO and in 2001 he began working with MAFF.



Kees Groot  
Reviewer for the Canadian Paper

Kees Groot was born in Modjokerto, on Java, Indonesia, in 1928. After spending three years in a concentration camp during the Second World War, he went to Holland in 1946 and studied biology at the Universities of Amsterdam and Leyden. He immigrated to Canada in 1956 and a year later joined the Fisheries Research Board of Canada (now the Department of Fisheries and Oceans) as a fish behaviourist (ethologist) at the Pacific Biological Station in Nanaimo, British Columbia. There, under the guidance of Dr. J.R. (Roly) Brett, he worked on problems related to a major threat to Fraser River salmon because of a proposal to build multiple dams on the main stem of this river for the generation of hydroelectric power. After this multiple dam construction plan was rejected because of the high likelihood that migrating salmon stocks would be destroyed, he concentrated his studies on long distance migration, orientation, and navigation of Pacific salmon and used the data of these studies to obtain his Ph. D. degree (cum laude) at the University of Leyden in Holland in 1965. In 1966, soon after receiving his doctorate degree, Kees Groot was appointed Biological Director of the Netherlands Institute of Sea Research in Holland. In 1968 he was invited to return to Canada and again join the staff of the Pacific Biological Station at Nanaimo. His studies then have centered on 1) problems of Pacific salmon migration, specifically on how these fish find their way during long distance journeys, 2) on problems related to salmonid enhancement, and 3) on the potential effects of global climate change on Canada's west coast fisheries resources. Kees Groot has acted as research supervisor for a number of M.Sc. and Ph.D. candidates of British Columbia universities and has taught as visiting professor at Simon Fraser University and, several times, at the Bamfield Marine Station. In 1993 he retired from the Department of Fisheries and Oceans, became scientist emeritus and started his own biological consulting business - Yellow Point Bio-Research.





Masahide Kaeriyama  
Reviewer for the Japanese Paper

Masahide Kaeriyama is a Professor of Marine Ecology at the Department of Marine Science and Technology, School of Engineering, Hokkaido Tokai University, Japan. His research has focused on the life history and population dynamics of Pacific salmon, particularly on feeding ecology and trophic dynamics of Pacific salmon in the ocean, population density-dependent effect, salmon as the key to upstream transport of marine nutrients onto land ecosystems, and aspects related to biological interaction between wild and hatchery salmon. He is author or co-author of more than 30 scientific papers. He serves on the Affiliate Professor of Fisheries, University of Alaska Fairbanks, on the Lecturer in Fish Biology, Hokkaido University, on the Member of counseling committee of the Ichthyological Society of Japan and the Japanese Society of Fisheries Science.



Hiroshi Kawamura  
Reviewer for the Japanese Paper

Hiroshi Kawamura was born in Fukuoka, Kyushu of Japan, in 1950. He received his MA from Hokkaido University and dropped out of the doctoral course to work at Hokkaido Fish Hatchery, in 1975. He had studied on migration behavior and predation of juvenile chum salmon, and a life history of masu salmon at Erimo, Makkari and Mashike branches and Eniwa Center of the Hatchery since 1975. Now his study is focused on stock enhancement, conservation and restoration of masu and chum salmon at Kumaishi Branch.

Victor Bugayev  
Reviewer for the Russian Paper

Victor Bugayev is an ichthyologist, pisciculturist, and fishery biologist, and has been working in Kamchatka Research Institute of Fisheries and Oceanography (KamchatNIRO) since 1973, as Scientific Worker in 1973–1983, Senior Scientist Worker in 1983–1990, and Leading Scientist Worker in 1991–2002. Every year he did 2–3 months or more scientific ichthyologist expedition in different rivers and lakes in Kamchatka Peninsula. He published more than 120 scientific articles on growth of fishes and determination of age composition using the scales, influence of feeding and climate on year-to-year variations on growth of sockeye salmon, life history of threespine stickleback in Kamchatka and masu salmon in Asia, etc., and published a book “Asian Sockeye Salmon *Oncorhynchus nerka* (freshwater period, local structure, abundance dynamics)” in 1995. He received his Ph.D. in Biological Science from Russian Federal Research Institute of Fisheries and Oceanography (VNIRO), Moscow, Russia, in 1994. Victor Bugayev was awarded with a medal “Honorary Workman of Fish Industry of Russian Federation” in 2002.



William (Bill) Heard  
Reviewer for the United States Paper

Bill Heard has been a student of Pacific salmon ecology and other Alaska fishes at NOAA’s Alaska Fisheries Science Center’s Auke Bay Laboratory for over 40 years. He originally came to Alaska as a graduate student from Oklahoma State University where he received his first degree in zoology and a Master’s degree in fisheries. After working in warm water fisheries in Oklahoma, Alabama, and Arkansas, the lure of Alaska became too much and he has lived and worked in the Great Land since 1960. Initially working with sockeye salmon and associated fishes at Brooks Lake in Bristol Bay, he subsequently has studied pink, coho, and chinook salmon, mostly in Southeast Alaska where he has been associated with the year-round Biological Field Station at Little Port Walter. Presently he is Program Manager for Marine Salmon Interactions where research is focused on early marine ecology of salmon, stock enhancement aquaculture, hatchery-wild stock interactions, long-term monitoring of biophysical parameters and variability in salmon populations, and strategies to help protect ESA listed species. He currently resides in Auke Bay with his wife and is an avid enthusiast of sport fishing, along with boating, birding, diving, hiking, and most other elements of Alaska’s natural history.





William (Bill) Percy  
Reviewer for the United States Paper

William (Bill) Percy is a Professor Emeritus of Biological Oceanography in the College of Oceanic and Atmospheric Sciences at Oregon State University. His research interests include fisheries oceanography and the ocean ecology of salmonids, and is author of a book on the Ocean Ecology of North Pacific Salmonids. In the past he has published papers on the ecology and distribution of coastal and deep-sea animals, including benthic and pelagic fishes, squids and shrimps. He received his B.S. and M.S. degrees from Iowa State University and his Ph.D. from Yale. He has served on committees of U.S. GLOBEC and PICES and was awarded American Fisheries Society-Oscar E. Sette, Outstanding Marine Fishery Biologist Award and the American Institute of Fishery Research Biologists, Outstanding Achievement Award. He is presently the co-chair of Independent Multidisciplinary Science Team for Oregon Salmon Plan.

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