



Alaska Responsible Fisheries Management Certification

Notice of 4th Annual Surveillance Assessment Team Nomination

December 2015

Certificate Holder: Alaska Fisheries Development Foundation

On Behalf of the U.S. Alaska Salmon Commercial Fisheries

Based on the technical expertise required to carry out the above fishery assessment, Global Trust Certification Ltd., is pleased to confirm the Surveillance assessment team members for the fishery as follows.

Dr. Ivan Mateo, Lead Assessor

Dr. Ivan Mateo has over 15 years' experience working with natural resources population dynamic modeling. His specialization is in fish and crustacean population dynamics, stock assessment, evaluation of management strategies for exploited populations, bioenergetics, ecosystem-based assessment, and ecological statistical analysis. Dr. Mateo received a Ph.D. in Environmental Sciences with Fisheries specialization from the University of Rhode Island. He has studied population dynamics of economically important species as well as candidate species for endangered species listing from many different regions of the world such as the Caribbean, the Northeast US Coast, Gulf of California and Alaska. He has done research with NMFS Northeast Fisheries Science Center Ecosystem Based Fishery Management on bioenergetic modeling for Atlantic cod. He also has been working as environmental consultant in the Caribbean doing field work and looking at the effects of industrialization on essential fish habitats and for the Environmental Defence Fund developing population dynamics models for data poor stocks in the Gulf of California. Recently Dr. Mateo worked as National Research Council postdoc research associate at the NOAA National Marine Fisheries Services Ted Stevens Marine Research Institute on population dynamic modeling of Alaska sablefish.

Brian Allee, Ph.D. (Assessor)

Dr. Brian Allee attended the University of California Berkeley majoring in zoology. He received his Ph.D. from the University of Washington in fisheries. Dr. Allee has worked extensively with salmonid fish specializing in salmon research, restoration and enhancement of salmon and steelhead in freshwater, estuarine, and marine ecosystems in Alaska, Washington and Oregon.

After working in Washington and Oregon as a fisheries biologist, he first came to Alaska in 1982 and worked for Prince William Sound Aquaculture Association as operations manager and later as president. He subsequently served as Director of the Fisheries Rehabilitation and Enhancement, Development Division (FRED) of the Alaska Department of Fish and Game. His responsibilities included the statewide public hatchery program, the private non-profit permitting and planning program, and oversaw the genetic, pathology, limnology, and coded wire tagging laboratories, fisheries engineering and regional and area FRED staff. While serving as Director he was appointed by the Governor to the Alaska Science and Engineering Commission and the Alaska Science and Technology Foundation.

Dr. Allee returned to Alaska in 2003 to be the Alaska Sea Grant Director at the University of Alaska Fairbanks where he was active in funding fisheries research, education and extension for coastal Alaska. He more recently worked for the National Marine Fisheries Service in Portland on Mitchel Act hatchery funding in the Columbia River and participated on hatchery reform efforts.

In addition, he was past President of the Fish Culture Section of the American Fisheries Society and a member of the Scientific and Statistical Committee of the Pacific Fisheries Management Council. During Dr. Allee's 44 year career as a fisheries scientist and administrator he had broad management experience at the policy and technical level, supervising large and small organizations in public (state, federal and tribal), private and private non-profit sectors.

Scott Marshall (Assessor)

B.S. Fisheries Science Oregon State University, M.S. Fisheries Science University of Washington

1974 - 1980 Fisheries Scientist and Project Leader at the Fisheries Research Institute, University of Washington. My primary emphasis was on researching sockeye salmon productivity in the Chignik Lakes, Alaska, on determining the origins of Chinook salmon harvested by foreign vessels operating in the the North Pacific Ocean, and on the population dynamics of sockeye salmon in the Lake Washington watershed of Washington.

1980 - 2001. Alaska Dept. Fish and Game: I served in three primary capacities, Research Project Leader, Principal Fishery Scientist for Pacific Salmon Commission Affairs and Regional Supervisor. As a Project Leader I lead research teams in the study of population structure and dynamics of the state's Pacific Salmon and Pacific herring stocks. As a Principal Scientist I served as a Co-Chairman or as Alaska's senior representative on several international technical teams established by the the Pacific Salmon Treaty (e.g Chinook Salmon, Transboundary Rivers, Canadian/Alaska Boundary Area Fisheries, Interceptions Accounting Committee, Data Sharing Committee, Editorial board). I served on Scientific and Statistical Committee of the North Pacific Management Council. As the Division of



Commercial Fisheries Regional Supervisor for Southeast Alaska, I represented the Department at Alaska Board of Fisheries meetings, reviewed and/or critiqued numerous regulatory proposals for the fisheries of Southeast Alaska. I oversaw the daily research and management of the Southeast Region's commercial, personal use and subsistence fisheries. I served as Co-Chairman of the Transboundary Rivers Panel of the Pacific Salmon Commission. Undertook numerous administrative responsibilities, such as budgeting, hiring HR etc.

2000- 2005. Idaho Department of Fish and Game I served as the Fisheries Bureau's Staff Biologist for Endangered Species Act Affairs. This included developing Biological Assessments, Applications for ESA Section 7 & 10 permits, and writing reports for incidental take of endangered Pacific salmon that occurred during the conduct of research activities, recreational fisheries and hatchery operations. I also served as the Department's representative on the Habitat Committee of the Pacific Fishery Management Council.

2005 - 2013 U.S Fish and Wildlife . I was a Fisheries Administrator in charge of the Lower Snake River Compensation Plan (a hatchery mitigation program to compensate for construction and operation of four hydroelectric dams on the Lower Snake River in Washington Oregon and Idaho). I developed, presented and negotiated budgets for the program to the Bonneville Power Administration (roughly \$30 million annually). I reviewed and negotiated annual budgets, contracts, annual spending and scientific reports developed by our fish and wildlife agency cooperators who implemented the program (3 state, 3 tribal agencies and several U.S Fish and Wildlife Service field offices). I developed a series of three Programmatic Reviews (one for each of the primary species raised in our hatcheries) as required by the Northwest Power Planning Council's implementation legislation.

Deirdre Hoare (Assessor)

Deirdre Hoare has a BSc in Marine Science and a MSc in Marine Zoology from the National University of Ireland, Galway and a post graduate diploma in Statistics from Trinity College Dublin. Deirdre has worked directly in fisheries stock assessment as an observer on international projects in NAFO and Ireland. For 5 years she worked as a Fisheries Assessment Analyst and as a Scientific and Technical Officer for the Marine Institute in Ireland. This work involved fisheries research and stock assessment for ICES working groups. The work also involved coordination and management of a Fisher Self sampling program in the Irish Sea, with particular emphasis on spatial and temporal discard measurement tools. Currently Deirdre is working as an independent Fisheries Consultant. Her work currently involves evaluation and verification of fisheries management and sustainability against international standards. She also performs fish stock assessments, evaluate data the date and outlines the limitations.

Marc Johnson (Assessor)

Key features of Marc's career in salmon fisheries as follows:

**Oregon Department of Fish and Wildlife
Corvallis Research Laboratory
28655 Highway 34
Corvallis, Oregon 97333**

**Oregon State University
Department of Fisheries and Wildlife
104 Nash Hall
Corvallis, Oregon 97391**

EDUCATION

PhD in Fisheries Science
Oregon State University
Corvallis, Oregon
Completed June of 2009

MSc in Ecology
University of Brasília
Brasília, Federal District (Brazil)
Completed June of 1999

BSc in Zoology
Oregon State University
Corvallis, Oregon
Completed June of 1996

EXPERIENCE IN FISHERIES RESEARCH

Oregon Department of Fish and Wildlife (Period: 2/2010 – present)

Location: Corvallis, Oregon

Position: Technical Analyst

Research Objective: Develop research and provide technical advice for studies of spring Chinook salmon (*Oncorhynchus tshawytscha*) and winter steelhead (*O. mykiss*) in support of the 2008 (NMFS) Willamette Valley Project Biological Opinion

Cooperative Institute for Marine Resources Studies (Period: 7/2009 – 8/2009)

Location: Newport, Oregon / Seattle, Washington

Position: Academic Wage Researcher

Research Objective: Design and use novel qPCR assays to investigate the influence of acclimation site exposure on olfactory receptor gene expression in juvenile spring Chinook salmon.

Oregon State University (Period: 9/2003 – 6/2009)

Location: Newport, Oregon

Position: Doctoral Student and Graduate Research Assistant

Research Objective: Use existing and develop new genetic markers to investigate the genetic structure of Oregon coastal coho salmon (*O. kisutch*); infer demographic and evolutionary processes.

PEER-REVIEWED PUBLICATIONS

Sard, N. M., K. G. O'Malley, D. P. Jacobson, M. J. Hogansen, **M. A. Johnson** and M. A. Banks (2015) Factors influencing spawner success in a spring Chinook salmon (*Oncorhynchus tshawytscha*) reintroduction program. *Canadian Journal of Fisheries and Aquatic Sciences*

Van Doornik, D. M., M. A. Hess, **M. A. Johnson**, D. J. Teel, T.A. Friesen and J. M. Myers (2015) Genetic population structure of Willamette River steelhead and the influence of introduced stocks. *Transactions of the American Fisheries Society* 144(1): 150-162

Johnson M. A. and T.A. Friesen. (2014) Genetic diversity and population structure of Chinook salmon from the upper Willamette River, Oregon. *North American Journal of Fisheries Management* 34:853-862

Johnson M. A. and T.A. Friesen. (2013) Age at maturity, fork length and sex ratio of upper Willamette River hatchery spring Chinook salmon. *North American Journal of Fisheries Management* 33:318-328

Johnson M. A. and M. A. Banks (2011). Sequence conservation among orthologous vomeronasal type 1 receptor-like (ora) genes does not support the differential tuning hypothesis in Salmonidae. *Gene* 485(1):16-21.

Johnson, M. A. and M A. Banks, (2009) Interlocus variance of *Fst* provides evidence for selection over an olfactory receptor gene in coho salmon (*Oncorhynchus kisutch*) populations. *Marine Genomics* 2:127-131

Johnson M. A. and M. A. Banks (2008) Genetic structure, migration and patterns of allelic richness among coho salmon (*Oncorhynchus kisutch*) populations of the Oregon Coast. *Canadian Journal of Fisheries and Aquatic Science* 75(7): 1274-1285

Johnson M. A., J. S. Marinho-Filho and W. M. Tomas (2004) Species-habitat association of the spiny rat, *Proechimys roberti* (Rodentia: Echimyidae), in the National Park of Brasília, DF, Brazil. *Studies on Neotropical Fauna and Environment* 39(2):103-108

Johnson M. A., P. Saraiva and D. Coelho (1999) The role of gallery forests in the distribution of Cerrado mammals. *Revista Brasileira de Biologia* 59(3):421-427

Johnson M. A., W. M. Tomas and N. M. R. Guedes (1997) Density of young manduvi (*Sterculia apetala*), the hyacinth macaw's nesting tree, under three different management conditions in the Pantanal wetland, Brazil. *Ararajuba* (Brazilian Ornithological Society Journal) 5(2):185-188

RECENT PRESENTATIONS



Johnson, M. A., T. A. Friesen, D. J. Teel, D. M. Van Doornik. The genetic structure of steelhead and spring Chinook salmon in the upper Willamette River, Oregon. Oral presentation at the USACE Willamette Fisheries Science Review, Corvallis, OR, Feb. 5-7, 2013.

Jacobson, D. P., N. Sard, M. J. Hogansen, K. Schroeder, **M. A. Johnson**, K. G. O'Malley, and M. A. Banks. Total lifetime fitness and cohort replacement rate for Chinook salmon outplanted above Cougar Dam, South Fork McKenzie River, Oregon. Oral presentation at the USACE Willamette Fisheries Science Review, Corvallis, OR, Feb. 5-7, 2013.

May D., **M. A. Johnson** and A. Dittman. Tributary and acclimation site specific patterns of olfactory mRNA expression in a spring Chinook salmon population. Poster presentation at the national meeting of the American Fisheries Society, September 4-8, 2011, Seattle, WA.

Johnson M. A. and Friesen T A. Declines in age and size of upper Willamette River spring Chinook salmon. Oral presentation at the Co-manager Workshop and Conference on Age and Size at Maturity of Pacific Salmon and Steelhead, May 17-19, 2011, Portland, OR.

Johnson M. A. and Friesen T A. Effects of release strategies and broad-scale environmental conditions on upper Willamette River hatchery spring Chinook. Oral presentation at the Willamette Basin Fisheries Science Review, January 24-26, 2011, Grand Ronde, OR

Associate Editor (Fish Ecology) of *Northwest Science*

Assistant Professor at Department of Fisheries and Wildlife, Oregon State University

Comments and for further Information

Jean Ragg

Programme Administrator

Tel: +353 (0)42 9320912

Fax: +353 (0)42 9386864

Email: Jean.Ragg@saiglobal.com