

CURRICULUM VITAE

Date 31 December 2004

Name: WOOD, Christopher C.

Date of Birth: 03 May 1955

Citizenship: Canadian

Place of Birth: Kapuskasing, Ontario

1. **DEGREES AND DIPLOMAS**

<u>Degree or Diploma</u>	<u>Field</u>	<u>Institution</u>	<u>Year Granted</u>
B. Sc. (Honours)	Biology	Simon Fraser University	1977
Ph.D.	Fisheries Ecology	University of B.C.	1984

Title of Thesis or Dissertation

Foraging behaviour of common mergansers (Mergus merganser) and their dispersion in relation to the availability of juvenile Pacific salmon. Ph.D. Dissertation, University of British Columbia, Vancouver, B.C., 307 p.

2. **POSITIONS HELD WITH FISHERIES AND OCEANS CANADA**

2000 to present	Head, Conservation Biology Section Stock Assessment Division, Science Branch, Fisheries and Oceans, Canada Pacific Biological Station, Nanaimo, B.C., V9T 6N7
1998 to 2000	Research Scientist (SE-RES-4) Stock Assessment Division, Science Branch, Fisheries and Oceans, Canada Pacific Biological Station, Nanaimo, B.C., V9R 5K6
1994 to 1997	Head, North Coast Salmon Section, Stock Assessment Division, Science Branch, Fisheries and Oceans, Canada Pacific Biological Station, Nanaimo, B.C., V9R 5K6
1984 to 1994	Research Scientist, Salmon Production Section Biological Sciences Branch, Dept. of Fisheries and Oceans Pacific Biological Station, Nanaimo, B.C. V9R 5K6

1977 to 1979 Biologist, Groundfish Program
Fisheries Research Branch, Dept. of Fisheries and Oceans
Pacific Biological Station, Nanaimo, B.C. V9R 5K6

3. MAJOR FIELD OF SCHOLARLY OR PROFESSIONAL INTEREST

1. Conservation biology and conservation genetics, delineation of conservation units, prioritization and evaluation of conservation and rebuilding programs, risk assessment and policy development
2. Genetic and ecological studies of Pacific salmon and other marine fish including experimental studies to examine:
 - *evolutionary relationship between anadromous and non-anadromous forms*
 - *genetics of age at maturity and life history traits*
 - *genetic divergence of sub-populations and sympatric forms*
 - *migratory behaviour and cycles in abundance*
3. Fish stock assessments; studies to identify limitations to production, and spatial covariation in marine survival
4. Statistical development and application of stock identification techniques including those based on gene frequencies (allozymes, mtDNA and VNTR loci), parasite markers, and scale pattern variation.

4. MEMBERSHIPS AND OFFICES HELD IN LEARNED AND PROFESSIONAL SOCIETIES

1997 to present American Fisheries Society (AFS)
Genetics Section, AFS

1997 to 2001 Editorial Board, AFS
Associate Editor for Transactions of AFS (genetics)

2001 to present Society for Conservation Biology (SCB)
Marine Fish Section (SCB)

Marine Fish Species Specialist SubCommittee of the
Committee On the Status of Endangered Wildlife in Canada
(COSEWIC) (*re-appointed 2003-2006*)

5. APPOINTMENTS AT UNIVERSITIES

University Department Inclusive Years

Adjunct Assistant Professor Univ. of Victoria, Department of Biology
(July 1994 to July 2005)

Adjunct Professor Simon Fraser University, School of Resource and
Environmental Management (July 2003 to December 2007)

Visiting Professor, University of Toronto Department of Zoology (February to
December 2005)

6. SCHOLARLY AND PROFESSIONAL ACHIEVEMENTS

a. Articles Published in Refereed Journals

- 1) **Wood, C.C.**, K.S. Ketchen, and R.J. Beamish. 1979. Population dynamics of spiny dogfish (*Squalus acanthias*) in British Columbia waters. *J. Fish. Res. Board, Can.* 36:647-656.
- 2) **Wood, C.C.**, and C.M. Hand. 1985. Food-searching behaviour of the common merganser (*Mergus merganser*). I: Functional responses to prey and predator density. *Can. J. Zool.* 63:1260-1270.
- 3) **Wood, C.C.** 1985a. Food-searching behaviour of the common merganser (*Mergus merganser*) II: Choice of foraging location. *Can. J. Zool.* 63:1271-1279.
- 4) **Wood, C.C.** 1985b. Aggregative response of common mergansers (*Mergus merganser*): predicting flock size and abundance on Vancouver Island salmon streams. *Can. J. Fish. Aquat. Sci.* 42:1259-1271.
- 5) **Wood, C.C.** 1986. Dispersion of common merganser (*Mergus merganser*) breeding pairs in relation to the availability of juvenile Pacific salmon in Vancouver Island streams. *Can. J. Zool.* 64:756-765.
- 6) **Wood, C.C.**, S. McKinnell, T.J. Mulligan, and D.A. Fournier. 1987a. Stock identification with the maximum-likelihood mixture model: sensitivity analysis and application to complex problems. *Can. J. Fish. Aquat. Sci.* 44:866-881.
- 7) **Wood, C.C.**, B.E. Riddell, and D.T. Rutherford. 1987b. Alternative juvenile life histories of sockeye salmon (*Oncorhynchus nerka*) and their contribution to production in the Stikine River, northern British Columbia. p. 12-21. *In*: H.D. Smith, L. Margolis, and C.C. Wood. Sockeye salmon (*Oncorhynchus nerka*) population biology and future management. *Can. Spec. Publ. Fish. Aquat. Sci.* 96.
- 8) **Wood, C.C.** 1987a. Predation of juvenile Pacific salmon by the common merganser (*Mergus merganser*) on eastern Vancouver Island. I: Predation of seaward-migrating juvenile salmon. *Can. J. Fish. Aquat. Sci.* 44:941-949.
- 9) **Wood, C.C.** 1987b. Predation of juvenile Pacific salmon by the common merganser (*Mergus merganser*) on eastern Vancouver Island. II: Predation of stream-resident juvenile salmon by merganser broods. *Can. J. Fish. Aquat. Sci.* 44:950-959
- 10) Quinn, T.P., **C.C. Wood**, L. Margolis, B.E. Riddell, and K.D. Hyatt. 1987. Homing in wild sockeye salmon (*Oncorhynchus nerka*) populations as inferred from differences in parasite prevalence and allozyme allele frequencies. *Can. J. Fish. Aquat. Sci.* 44:1963-1971.

- 11) Mulligan, T.J., S. McKinnell, and **C.C. Wood**. 1988. Uncertainty in stock composition estimates of oceanic steelhead trout using electrophoretic characteristics: comments on a recent study. *Can. J. Fish. Aquat. Sci.* 45:432-442.
- 12) Foote, C.J., **C.C. Wood**, and R.E. Withler. 1989. A biochemical genetic study of the relationship between sockeye salmon and kokanee, the anadromous and non-anadromous forms of (*Oncorhynchus nerka*). *Can. J. Fish. Aquat. Sci.* 46:149-158.
- 13) **Wood, C.C.**, D.T. Rutherford, and S. McKinnell. 1989. Identification of sockeye salmon (*Oncorhynchus nerka*) stocks in mixed-stock fisheries in British Columbia and Southeast Alaska using biological markers. *Can. J. Fish. Aquat. Sci.* 46:2108-2120.
- 14) **Wood, C.C.** 1989. The utility of similarity dendrograms in stock composition analysis. *Can. J. Fish. Aquat. Sci.* 46:2121-2128.
- 15) Foote, C.J., **C.C. Wood**, C. Clarke, and J. Blackburn. 1989. The seawater adaptability of sympatric anadromous and non-anadromous sockeye salmon and their "hybrids". *Aquaculture* 82:377.
- 16) **Wood, C.C.**, and C.J. Foote. 1990. Genetic differences in the early development and growth of sympatric sockeye salmon and kokanee (*Oncorhynchus nerka*), and their hybrids. *Can. J. Fish. Aquat. Sci.* 47:2250-2260.
- 17) Levy, D.A., and **C.C. Wood**. 1991. Review of proposed mechanisms for sockeye salmon population cycles in the Fraser River. *Bull. Mathematical Biol.* Vol. 54:241-261.
- 18) **Wood, C.C.**, E.W. Carter, and B.T. Emmett. (*accepted*) Predation of wild sockeye salmon (*Oncorhynchus nerka*) and underyearling chinook salmon (*O. tshawytscha*) smolts by hatchery-reared salmonids released into the Stamp and Somass rivers, Vancouver Island. *In* P. Symons and B.E. Riddell (ed.) *Biological interactions between enhanced and wild salmonids*. *Can. Spec. Publ. Fish. Aquat. Sci.*
- 19) Foote, C.J., **C.C. Wood**, W.C. Clarke, and J. Blackburn. 1992. Circannual cycle of seawater adaptability in *Oncorhynchus nerka*: genetic differences between sympatric sockeye salmon and kokanee. *Can. J. Fish. Aquat. Sci.* 49:99-109.
- 20) **Wood, C.C.**, N.B. Hargreaves, D.T. Rutherford, and B. Emmett. 1992. Downstream and early marine migratory behaviour of sockeye salmon (*Oncorhynchus nerka*) smolts entering Barkley Sound, Vancouver Island. *Can. J. Fish. Aquat. Sci.* 50:1329-1337.
- 21) Foote, C.J., I. Mayer, **C.C. Wood**, W.C. Clarke, and J. Blackburn. 1994. On the developmental pathway to non-anadromy in sockeye salmon (*Oncorhynchus nerka*). *Can. J. Zool.* 72:397-405.
- 22) Cass, A.J., and **C.C. Wood**. 1994. An evaluation of the depensatory fishing hypothesis as an explanation for population cycles in Fraser River sockeye salmon (*Oncorhynchus nerka*). *Can. J. Fish. Aquat. Sci.* 51:1839-1854.
- 23) **Wood, C.C.**, B.E. Riddell, D.T. Rutherford, and R.E. Withler. 1994. Biochemical genetic survey of sockeye salmon (*Oncorhynchus nerka*) in Canada. *Can. J. Fish. Aquat. Sci.* 51 (Suppl.1):114-131.
- 24) Varnavskaya, N.V., **C.C. Wood**, and R.J. Everett. 1994. Genetic variation in sockeye salmon (*Oncorhynchus nerka*) populations of Asia and North America. *Can. J. Fish. Aquat. Sci.* 51 (Suppl.1):132-146.
- 25) Varnavskaya, N.V., **C.C. Wood**, R.J. Everett, R.L. Wilmot, V.S. Varnavsky, V.V. Midanaya, and T.P. Quinn. 1994. Genetic differentiation of subpopulations of sockeye salmon (*Oncorhynchus nerka*) within lakes of Alaska, British Columbia, and Kamchatka (Russia). *Can. J. Fish. Aquat. Sci.* 51 (Suppl.1):147-157.

- 26) Bickham, J.W., **C.C. Wood**, and J.C. Patton. 1995. Biogeographic implications of cytochrome *b* sequences and allozymes in sockeye (*Oncorhynchus nerka*). *J. Heredity* 86:140-144.
- 27) Beacham, T.D., R.E. Withler, and **C.C. Wood**. 1995. Stock identification of sockeye salmon (*Oncorhynchus nerka*) using nuclear DNA variation. *N. Amer. J. Fish. Resource. Manag.* 15:249-265.
- 28) **Wood, C.C.** 1995. Life history variation and population structure in sockeye salmon. *Am. Fish. Soc. Sympos.* 17:195-216.
- 29) Taylor, E.B., C.J. Foote, and **C.C. Wood**. 1996. Molecular genetic evidence for parallel life history evolution within a Pacific salmon (sockeye salmon and kokanee, *Oncorhynchus nerka*). *Evolution* 50:401-416.
- 30) **Wood, C.C.**, and C.J. Foote. 1996. Evidence for sympatric genetic divergence of anadromous and non-anadromous morphs of sockeye salmon (*Oncorhynchus nerka*). *Evolution* 50:1265-1279.
- 31) Craig, J.K., C.J. Foote, and **C.C. Wood**. 1996. Evidence for temperature-dependent sex determination in sockeye salmon and kokanee, *Oncorhynchus nerka*. *Can. J. Fish. Aquat. Sci.* 53:141-147.
- 32) Foote, C.J., G. Brown, and **C.C. Wood**. 1997. Spawning success of jack sneaks in sockeye salmon, *Oncorhynchus nerka*. *Can. J. Fish. Aquat. Sci.* 54:1785-1795.
- 33) Quinn, T.P., E. Graynoth, **C.C. Wood**, and C.J. Foote. 1998. Genotypic and phenotypic divergence of sockeye salmon (*Oncorhynchus nerka*) in New Zealand from their ancestral British Columbia populations. *Trans. Am. Fish. Soc.* 127:517-534.
- 34) **Wood, C.C.**, C.J. Foote, and D.T. Rutherford. 1999. Ecological interactions between juveniles of reproductively isolated and non-anadromous morphs of sockeye salmon, *Oncorhynchus nerka*, sharing the same nursery lake. *Env. Biol. Fish.* 54:161-173.
- 35) Foote, C.J., K. Moore, K. Stenberg, K. Craig, J. Wenburg, and **C.C. Wood**. 1999. Genetic differentiation in gill-raker number and length in sympatric anadromous and nonanadromous morphs of sockeye salmon, *Oncorhynchus nerka*. *Env. Biol. Fish.* 54:263-274.
- 36) Beacham, T.D., and **C.C. Wood**. 1999. Application of microsatellite DNA variation to management of Nass River sockeye salmon (*Oncorhynchus nerka*). *Can. J. Fish. Aquat. Sci.* 56:297-310.
- 37) Beacham, T.D., **C.C. Wood**, R.E. Withler, and K.M. Miller. 2000. Application of microsatellite DNA variation to estimation of stock composition and escapement of Skeena River sockeye salmon (*Oncorhynchus nerka*). *North Pacific Anadromous Fish Commission Bulletin* 2:263-276.
- 38) McKinnell, S.M., **C.C. Wood**, D.T. Rutherford, K.D. Hyatt, and D.W. Welch. 2001 The demise of Owikeno Lake sockeye salmon. *North American Journal of Fisheries Management* 21:774-791.
- 39) Pyper, B.J., F.J. Mueter, R.M. Peterman, D.J. Blackbourn, and **C.C. Wood**. 2001. Spatial covariation in survival rates of Northeast Pacific pink salmon (*Oncorhynchus gorbuscha*). *Can. J. Fish. Aquat. Sci.* 58:1501-1515.
- 40) Smith, C.T., R. J. Nelson, **C.C. Wood** and B.F. Koop. 2001. Glacial biogeography of North American coho salmon (*Oncorhynchus kisutch*). *Molecular Ecology* 10:2775-2785.
- 41) Pyper, B.J., F.J. Mueter, R.M. Peterman, D.J. Blackbourn, and **C.C. Wood**. 2002. Spatial covariation in survival rates of Northeast Pacific chum salmon. *Transactions of the American Fisheries Society* 131:343-363.

- 42) Nelson, R.J., **C.C. Wood**, G. Cooper, C. Smith, and B. Koop. 2003. Population structure of sockeye salmon of the central coast of British Columbia: implications for recovery planning. *North American Journal of Fisheries Management* 23:703-720.
- 43) Plate, E.M., **C.C. Wood**, and C.W. Hawryshyn. 2003. GnRH affects activity and jumping frequency in adult sockeye salmon, *Oncorhynchus nerka*. *Fish Physiology and Biochemistry* 28:245-248
- 44) Craig, J.K., C.J. Foote, and **C.C. Wood**. 2005. Countergradient variation in carotenoid use between sympatric morphs of sockeye salmon (*Oncorhynchus nerka*) exposes non-anadromous hybrids in the wild by their mismatched spawning colour. *Biological Journal of the Linnean Society* 84 (*in press*).
- 45) Haeseker, S. L., R. M. Peterman, Z. Su, and **C.C. Wood**. 2005. Retrospective evaluation of pre-season forecasting models for pink salmon (*Oncorhynchus gorbuscha*). *North American Journal of Fisheries Management* (*in press*).
- 46) Irvine, J.R., M.R. Gross, **C.C. Wood**, L.B. Holtby, N.D. Schubert, and P.G. Amiro. *accepted*. Canada's "Endangered" Salmon. *Fisheries* (Bethesda)
- 47) **Wood, C.C.** *accepted*. Managing biodiversity of Pacific salmon: Lessons from the Skeena River sockeye salmon fishery in British Columbia. *In: Proceedings of the Fourth World Fisheries Congress, Am. Fish. Soc., Bethesda*
- 48) Fu, C., J. Schweigert, and **C. C. Wood**. *accepted*. A framework for evaluating conservation reference points and harvest strategies in Pacific herring. *In: Proceedings of the Fourth World Fisheries Congress, Am. Fish. Soc., Bethesda*

b. Books, Chapters, Monographs

- 1) Smith, H.D., L. Margolis, and **C.C. Wood** (ed.). 1987. Sockeye salmon (*Oncorhynchus nerka*) population biology and future management. *Can. Spec. Publ. Fish. Aquat. Sci.* 96:500 p.
- 2) **Wood, C.C.**, and L.B. Holtby. 1998. Defining conservation units for Pacific salmon using genetic survey data. p. 233-250 *In: B. Harvey, C. Ross, D. Greer, and J. Carolsfeld (ed.). Action Before Extinction: An International Conference on Conservation of Fish Genetic Diversity. World Fisheries Trust, Victoria, Canada*
- 3) **Wood, C.C.** 2001. Managing biodiversity in Pacific Salmon: the evolution of the Skeena River sockeye salmon fishery in British Columbia *chapter in: B. Harvey and D. Duthie (ed.). Blue Millennium: Managing Global Fisheries for Biodiversity, UN Environmental Program CD, also available at <http://www.unep.org/bpsp/HTML%20files/TS-Fisheries2.html>*
- 4) Akçakaya, H. R., M.A. Burgman, O. Kindvall, **C.C. Wood**, P. Sjögren-Gulve, J. Hatfield, and M.A. McCarthy (ed.). 2004. *Species Conservation and Management: Case Studies*, Oxford University Press.
- 5) Fu, C., **C.C. Wood**, and J. Schweigert. 2004. Pacific herring (*Clupea pallasii*) in Canada: generic framework for evaluating conservation limits and harvest strategies. Pp. 256-269 *in H. R. Akçakaya, M.A. Burgman, O. Kindvall, C.C. Wood, P. Sjögren-Gulve, J. Hatfield, and M.A. McCarthy (ed.) Species Conservation and Management: Case Studies, Oxford University Press.*
- 6) **Wood, C.C.** 2004. Modeling viability of fish populations: an overview. Chapter 17 *in H. R. Akçakaya, M.A. Burgman, O. Kindvall, C.C. Wood, P. Sjögren-Gulve, J. Hatfield, and M.A. McCarthy (ed.) Species Conservation and Management: Case Studies, Oxford University Press.*

c. Other Publications

- 1) Butler, T.H., A.N. Yates, and **C.C. Wood**. 1973. *G.B. Reed* shrimp cruise 73-S-1, May 7-23, 1973. Fish. Res. Board, Can. MS. Rep. No. 1255:46 p.
- 2) Beamish, R.J., M. Smith, R. Scarsbrook, and **C. Wood**. 1976. Hake and pollock study, Strait of Georgia cruise *G.B. Reed*, June 16-27, 1975. Fish. Mar. Serv. Data Rep. No.1:174 p.
- 3) Beamish, R.J., **C. Wood**, and C. Houle. 1978. A summary of sablefish tagging studies conducted during 1977 by the Pacific Biological Station. Fish. Mar. Serv. Data Rep. No. 77:103 p.
- 4) Beamish, R.J., C. Houle, **C. Wood**, and R. Scarsbrook. 1978. A summary of sablefish tagging studies conducted during 1978 by the Pacific Biological Station. Can. Data Rep. Fish. Aquat. Sci. No.162:113 p.
- 5) **Wood, C.C.**, B.E. Riddell, D.T. Rutherford, and K. Rutherford. 1987. Variation in biological characters among sockeye salmon populations of the Stikine River with potential application for stock identification in mixed-stock fisheries. Can. Tech. Rep. Fish. Aquat. Sci. No. 1535:61 p.
- 6) **Wood, C.C.**, G.T. Oliver, and D.T. Rutherford. 1988. Comparison of several biological markers used for stock identification of sockeye salmon (*Oncorhynchus nerka*) in northern British Columbia and Southeast Alaska. Can. Tech. Rep. Fish. Aquat. Sci. 1624:44 p..
- 7) Rutherford, D.T., **C.C. Wood**, and J.R. Candy 1988. Stock assessments and biological investigations of kokanee (*Oncorhynchus nerka*) in Cowichan Lake, British Columbia, 1984 to 1987. Can MS. Rep. Fish. Aquat. Sci. 1915:33 p.
- 8) Rutherford, D.T., **C.C. Wood**, K.D. Hyatt, L. Margolis, T.E. McDonald, B.E. Riddell, and R.E. Withler. 1992. Biological characteristics of coastal populations of sockeye salmon (*Oncorhynchus nerka*) in British Columbia. Can. Tech. Rep. Fish. Aquat. Sci. 1849:47 p.
- 9) **Wood, C.C.** 1992. Problems with modelling numerical responses of predators of juvenile salmonids. p. 24-25 *In* C.D. Levings and G.A. Hunter (*ed.*). An account of a workshop on research approaches to predation/competition questions in river fish communities. Can. Man. Rep. Fish. Aquat. Sci. 2150
- 10) Rutherford, D.T., **C.C. Wood**, A.L. Jantz, and D.R. Southgate. 1994. Biological characteristics of Nass River sockeye salmon (*Oncorhynchus nerka*) and their utility for stock composition analysis of test fishery samples. Can. Tech. Rep. Fish. Aquat. Sci. 1988:65 p.
- 11) **Wood, C.C.**, D.T. Rutherford, D. Peacock, S. Cox-Rogers, and L. Jantz. 1997. Assessment of recruitment forecasting methods for major sockeye and pink salmon stocks in northern British Columbia. Can. Tech. Rep. Fish. Aquat. Sci. 2187:85 p.
- 12) **Wood, C.C.**, D.T. Rutherford, D. Bailey, and M. Jakubowski. 1998. Assessment of sockeye salmon production in Babine Lake, British Columbia with forecast for 1998. Can. Tech. Rep. Fish. Aquat. Sci. 2241: 50 p.
- 13) McKinnell, S.M., **C.C. Wood**, M. Lapointe, J.C. Woodey, K.E. Kostow, R.J. Nelson, and K.D. Hyatt. 1999. Reviewing the evidence that adult sockeye salmon strayed from the Fraser River and spawned in other rivers in 1997. PICES Scientific Report No. 10, pp. 73-75.
- 14) McKinnell, S.M., **C.C. Wood**, D.T. Rutherford, K.D. Hyatt and D.W. Welch. 1998. The collapse of the Rivers Inlet fishery: the case against a freshwater cause. NPAFC Technical Rep. No. 1, 27-29.
- 15) Rutherford, D.T., **C.C. Wood**, M. Cranny, and B. Spilsted. 1999. Biological characteristics of Skeena River sockeye salmon (*Oncorhynchus nerka*) and their utility for stock composition analysis of test fishery samples. Can. Tech. Rep. Fish. Aquat. Sci. 2295: 48p.

16) Mueter, F.J., B.J. Pyper, R.M. Peterman, **C.C. Wood** and D.J. Blackbourn. 2002. Opposite effects of sea-surface temperature on survival rates of Pacific salmon from northern and southern areas. NPAFC Technical Rep. No. 4:22-23.

17) **Wood, C.** 2003. Sakinaw Lake sockeye salmon, *Oncorhynchus nerka*. COSEWIC Status Report. 39 p.

Pacific Stock Assessment Review Committee (PSARC) Working Papers (These reports provide technical documentation of stock assessments that are used by DFO to manage fish stocks. They are considered important contributions because they establish the scientific basis for stock management in the Pacific Region. They are reviewed by referees and by the relevant subcommittee of PSARC. Although not public documents prior to 1992, summaries of the working papers are compiled and published annually in the Can. Man. Rep. Fish. Aquat. Sci. series; since 1997, approved PSARC Working Papers are made available as Canadian Secretariat of Stock Assessment Research Documents at <http://www.dfo-mpo.gc.ca/csas/>).

- 1) **Wood, C.C.**, and D.T. Rutherford. 1988. Status of regional capabilities for coast-wide stock identification for sockeye salmon. PSARC Working Paper S88-7:35 p.
- 2) **Wood, C.C.** and K. McGivney. 1989. Adaptive management of Fraser River sockeye. PSARC Working Paper S89-3:17 p.
- 3) **Wood, C.C.** 1989. Experimental rebuilding of off-year cycles in selected Fraser River sockeye stocks: further recommendations from the Cyclic Dominance Working Group. PSARC Working Paper S90-6:8 p.
- 4) **Wood, C.C.**, and R.A.C. Johnston. 1990. Stock status of Stikine sockeye. PSARC Working Paper S90-7:56 p.
- 5) Henderson, M.A., A. Cass, **C.C. Wood**, D. Rutherford, R. Diewert, and L. Jantz. 1991. Assessment of the status of Nass River sockeye salmon (*Oncorhynchus nerka*). PSARC Working Paper S91-11:36 p.
- 6) **Wood, C.C.**, R.B. Morley, M.R.S. Johannes, R.A.C. Johnston, and P. Etherton. 1993. Review of the spawning escapement target for Tahltan Lake sockeye salmon. PSARC Working Paper S93-1:23 p.
- 7) Rutherford, D.T., S. McKinnell, **C.C. Wood**, K.D. Hyatt, and R.D. Goruk. 1995. Assessment of the status of Rivers Inlet sockeye salmon. PSARC Working Paper S95-05:36 p.
- 8) **Wood, C.**, D. Rutherford, K. Pitre, and K. Chapman. 1995. Assessment of freshwater production of sockeye salmon in Babine Lake. PSARC Working Paper S95-06:42 p.
- 9) Rutherford, D.T., and **C.C. Wood**. 1995. Stock status and 1996 forecast of Smith Inlet sockeye salmon. PSARC Working Paper S95-08:19 p.
- 10) **Wood, C.**, D. Rutherford, D. Peacock, and S. Cox-Rogers. 1995. Assessment of recruitment forecasting methods for selected salmon stocks in northern British Columbia. PSARC Working Paper S95-12:65p.
- 11) **Wood, C.**, D. Rutherford, D. Peacock, and S. Cox-Rogers. 1996. Preseason 1997 run size forecasts for major sockeye, pink and chum salmon stocks in northern British Columbia. PSARC Working Paper S96-20:62 p.
- 12) Shortreed, K.S., J.M.B. Hume, and **C.C. Wood**. 1997. Recommended escapements to secondary sockeye nursery lakes in the Skeena River system. PSARC Working Paper S97-9. 48p.

- 13) **Wood, C.**, D. Rutherford, D. Bailey, and M. Jakubowski. 1997. Babine Lake sockeye salmon: stock status and forecasts for 1998. CSAS Res. Doc. 97/45. 56p.
- 14) Rutherford, D.T., **C.C. Wood**, and S. McKinnell. 1998. Rivers Inlet sockeye salmon: stock status update. CSAS Res. Doc. 98/91 35p.
- 15) **Wood, C.C.**, D.T. Rutherford, and L. Jantz. 1999. Trends in abundance and pre-season 1999 stock size forecasts for major sockeye, pink, and chum salmon stocks in northern British Columbia. CSAS Res. Doc. 99/126 51p.
- 16) Rutherford, D.T., and **C.C. Wood**. 2000a. Trends in abundance and pre-season 2000 stock size forecasts for major sockeye, pink, and chum salmon stocks in the central coast and selected salmon stocks in northern British Columbia. CSAS Res. Doc. 2000/114. 57p.
- 17) Rutherford, D.T., and **C.C. Wood**. 2000b. Assessment of Rivers and Smith Inlet sockeye salmon, with commentary on small sockeye salmon stocks in Statistical Area 8. CSAS Res. Doc. 2000/162. 56p.
- 18) Murray, C., and **C. Wood**. 2002. Status of Sakinaw Lake sockeye salmon (*Oncorhynchus nerka*). CSAS Res. Doc. 2002/088. 109 p.
- 19) Fu, C., J. Schweigert, and **C. C. Wood**. 2004. An evaluation of alternative age-structured models for risk assessment of Pacific herring stocks in British Columbia. Canadian Science Advisory Secretariat. Research Document 2004/011:59 p.
- 20) **Wood, C.C.**, and C.K. Parken. *in press*. Forecasted status of Cultus and Sakinaw sockeye salmon in 2004. Canadian Science. Advisory Secretariat Research Document 2005/xxx:63 p.
- 21) Bradford, M., and **C. Wood**. *in press*. A review of biological principles and methods involved in setting minimum population sizes and recovery objectives for the September 2004 drafts of the Cultus and Sakinaw Lake sockeye salmon and Interior Fraser coho salmon recovery plans. Canadian Science. Advisory Secretariat Research Document 2005/xxx:47 p.
- 22) Godbout, L., J. R. Irvine, **C.C. Wood**, C. Fu, and G. Jamieson. *in press*. Critical Habitat Case Study – Sakinaw Lake Sockeye Salmon. Canadian Science. Advisory Secretariat Research Document 2005/xxx 44 p.
- 23) Dobson, D., and **C. Wood**. *accepted*. Status of ‘inside sockeye stocks’: those adjacent to the Strait of Georgia, north-eastern Vancouver Island and Johnstone Strait. Canadian Science. Advisory Secretariat Research Document 2005/xxx 51 p + Appendices..
- 24) Schweigert, J., C. Fu., **C.C. Wood** and T. Therriault. 2005. A risk assessment for Pacific herring stocks in British Columbia. PSARC Working Paper P2005- 01: 140 p.

d. Professional Activities

(record since 1988)

- | | |
|------------|---|
| 1988-pres. | Member of Salmon Subcommittee of Pacific Stock Assessment Review Committee |
| 1988-92 | Science Branch representative on Joint (Canada-U.S.) Transboundary River Technical Committee of the Pacific Salmon Commission |
| 1988-92 | Science Branch representative on the Salmonid Enhancement Program Evaluation Framework Steering Committee |

- 1988-90 Chairman of the Cyclic Dominance Working Group created by PSARC to develop experimental rebuilding options for Fraser River sockeye; comprised members from Science Branch, Program Planning and Economics Branch, Fisheries Branch, Salmonid Enhancement Program, and the University of British Columbia.
- 1988-89 Pacific Biological Station representative on the International North Pacific Albacore Working Group
- 1988 Member of Canadian delegation at the Bilateral Meetings of Soviet and Canadian scientists, Khabarovsk, U.S.S.R., August.
- 1989-91 Member of Organizing Committee for the International Symposium on Biological Interactions between Enhanced and Wild Salmonids, held in Nanaimo, 17-20 June.
- 1990 Invited to visit Soviet fisheries research laboratories in Moscow (VNIRO), St. Petersburg (Academy of Science), Sakhalin (SakhTINRO) and field research stations in the Crimea and Kuril Islands as part of a 3-month scientific exchange program. All expenses in the U.S.S.R. paid by TINRO and KoTINRO. Dr. Wood was the first Canadian fisheries scientist to participate in this exchange program.
- 1990 Invited (expenses paid) as Canadian expert on the relationship between the anadromous and non-anadromous forms of sockeye salmon to participate in meeting coordinated by Nat. Mar. Fish. Serv. staff in Seattle, Washington charged with recommending whether Snake River sockeye should be listed under the U.S. Endangered Species Act.
- 1991-92 Member of the Snake River Sockeye Restoration Consultation Team (one of two Canadian members, travel expenses to Idaho and Washington paid by Idaho Fish & Game)
- 1991 Member of Nass Stock Assessment Working Group
- 1991 Invited (expenses paid) to visit University of Washington Fisheries Research Institute field stations in Alaska to inspect field programs and to facilitate future collaborations.
- 1992 Member of Salmon Enhancement Program Incremental Production Modelling Group. Dr. Wood was responsible for producing the final report from this group to advise senior executive in DFO about the extent to which salmon enhancement activities have adversely affected or replaced wild salmon production.
- 1992 Member of the Upstream Enumeration Audit Group of the Fraser River Investigative Team, which provided technical reviews of sockeye enumeration techniques for the Pearse-Larkin investigation of the "missing" Fraser River sockeye.
- 1992 Participated in meeting with U.S. representatives to plan joint Canada-U.S. genetic stock identification research on chinook salmon, Vancouver, B.C. 23 July
- 1992 Co-editor of proceedings of the International Symposium on Biological Interactions Between Enhanced and Wild Salmonids to be published in the Can. Spec. Publ. of Fish. Aquat. Sci. series (P. Symons, B. E. Riddell, and C.C. Wood, [ed.]).
- 1993-94 Organized symposium on Pacific salmon behaviour/genetics for the 9th biennial Ecological and Evolutionary Ethology of Fishes Conference held at the Univ. of Victoria in June 1994.
- 1993-96 Science Branch representative on the Skeena Green Plan Technical Committee.
- 1993-2000 Member of Joint Northern Boundary Technical Committee of Pacific Salmon Commission

- 1993-2000 Member of DFO/Council of Haida Nations Salmon Technical Committee (as Science Branch Representative)
- 1993-94 Member of the Biological Objectives Working Group of the Pacific Stock Assessment Review Committee (as Salmon Section representative)
- 1993-94 Invited to participate in international workshop (Vancouver March 1993) to investigate possible causes of collapse in sockeye smolt production from two Alaskan lakes following overescapements associated with *Exxon Valdez* oil spill; and to be external referee (Anchorage, AK 1994; expenses paid) for research funded by the *Exxon Valdez* Oil Spill Trust Council.
- 1993 Invited to attend Genetic Stock Identification Consortium Meeting, Auke Bay Lab, Juneau AK, May 1993.
- 1993 Participated in Coho Salmon Workshop, Masset, B.C., July 1993
- 1994 Participated in the Japan-Canada workshop on Pacific salmon production, Cowichan Bay, B.C., February.
- 1995 Organized and participated in the Coho Salmon Assessment Strategy Forum to develop a framework for coho salmon research in British Columbia, Nanaimo, January
- 1995 Chaired working group, and prepared report on methods and guidelines for rebuilding wild Pacific salmon stocks with special consideration of the Quickstart captive broodstock initiative.
- 1996-2000 Science Branch representative on the DFO steering committee that referees all Quickstart captive breeding initiatives in British Columbia.
- 1996 Member of working group to review and report on conservation reference points with special consideration of the threshold reference point for Pacific herring in British Columbia.
- 1996 Coordinated development of a more precautionary Integrated Fishery Management Plan for the Rivers Inlet sockeye fishery.
- 1997-2000 Associate Editor for Transactions of the American Fisheries Society (with specialty in genetics)
- 1997-1999 Member of Risk of Extinction Working Group (a national team of DFO scientists to review IUCN criteria for assessing risk of extinction)
- 1999-2000 Member of Species At Risk Act Working Group (*as DFO Pacific region Science Branch representative*)
- 1999 Chair of DFO's Wild Salmon Policy drafting group (Sept-Dec)
- 2000 Invited Participant (*expenses paid by World Conservation Union and DFO Ottawa*) in IUCN Criteria Review Workshop on Marine Species Criteria, Tokyo, Japan, 16-17 January 1999
- 2000 Invited Participant International Workshop on Risk Assessment of Threatened Species at the University of Tokyo, Japan, 14-15 January 1999.

- 2000 Invited participant in think tank on genetic interactions at workshop on Aquaculture and the Protection of Wild Salmon, Simon Fraser University, 2-3 March 2000
- 2000 Invited participant at Species at Risk Workshop to develop DFO policy for implementation of proposed endangered species legislation, Ottawa, 12-14 September
- 2001 Participated in the Annual Meeting of the Society for Conservation Biology Conference in Hilo, Hawaii, 29 July-2 August.
- Invited by R. Waples (NMFS, Seattle) to participate in meeting of US Recovery Science Review Panel with the Willamette and Lower Columbia River Technical Recovery Teams 27-28 August, Seattle WA.
- 2001-04 Organized and chaired a symposium entitled "Fish biology: behaviour, conservation and evolutionary genetics" at the Canadian Conference For Fisheries Research in Vancouver, 3-5 January 2001; and a symposium in the Species At Risk 2004 conference, 2-5 March 2004, Victoria BC. Invited to participate in the Parks Canada *Pacific Coast Species at Risk Symposium* held 22 October 2002 in Vancouver
- Membership on 3 SARA recovery teams: Pacific Leatherback Turtle, Sakinaw Lake Sockeye Salmon, and Cultus Lake Sockeye Salmon.
- Contracted by the US National Oceanic and Atmospheric Administration (NOAA) to review 3 research programs (Recovery Planning, Watershed Ecology, and Riverine Ecology) conducted at the Northwest Fisheries Science Center, Seattle, WA..
- invited by Washington Department of Fish & Wildlife, Olympia, to participate in a scientific survey and to review a new tool (RAMP) for modelling genetic impacts of hatcheries on wild salmon.
- invited (*all expenses paid*) by the Commission for Environmental Cooperation (CEC) to participate in the international workshop "Towards the Conservation of Marine Species & Spaces of Common Concern in North America", 23-26 March 2004 in San Francisco, USA, and to draft the North American Conservation Action Plan for the Pacific Leatherback Turtle.
- served as member of numerous national committees and working groups of Fisheries and Oceans Canada including the DFO-COSEWIC Coordinating Committee (DC3) and related National Advisory Process meetings on COSEWIC issues (e.g., NAP meetings held in Halifax 18-22 March 2002 and 9-13 December 2002), Species at Risk Prioritization Criteria Working Group, General Status Assessment of Marine Fish Working Group, Working Group to develop policy for Scientific Sampling in Sensitive Habitats, PVAT (Population Viability Analysis Tool) Advisory Committee,; as well as national steering committees for two workshops on "Quantitative Methods for Measuring the Critical Habitat of Aquatic Species At Risk" (2-5 December 2002 in Montreal) and "Distinct Populations in Aquatic Species At Risk" (4-7 February 2003), and a follow-up regional workshop on critical habitat (26-28 March 2003 in Nanaimo).
- served on numerous regional committees and working groups of Fisheries and Oceans Canada including Pacific Region Species at Risk Working Group, Salmon Subcommittee of PSARC, Bute Inlet Technical Committee (pilot project on ocean ranching), Chuckwalla-Kilbella Chinook Captive Breeding Technical Group, Enhancement Subcommittee of the Cultus Lake Sockeye Technical Recovery Team, Objectives-Based Fishery Management Working Group, and Marbled Murrelet Bycatch Working Group.

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