

Curriculum Vitae: Kim D. Hyatt

Citizenship: Canadian

Education: B.Sc. in Biology 1971, University of Windsor.
Ph.D. in Zoology and Resource Ecology 1980, University of British Columbia.

Professional Experience:

Research Experience:

1980-present: Research Scientist, Fisheries and Oceans Canada, Science Branch, Stock Assessment Division, Pacific Biological Station, Hammond Bay Road, Nanaimo, B. C. V9T 6N7. Dr. Hyatt directs the Salmon in Regional Ecosystems Program in the Stock Assessment Division and is DFOs lead for ongoing development and implementation of Wild Salmon Policy Strategy-3. Between 1996 and 2010, Dr. Hyatt has written about 100 reports (see list below) dealing with peer reviewed and applied management topics focused principally on wild salmon within an ecosystem context.

Research interests:

- development and testing of ecosystem-based management elements (Strategy-3) of Canada's Wild Salmon Policy (*reference #'s 21, 22, 26, 29, 37, 43, 45, 57, 61, 62, 64, 74, 79, 81, 82, 97 below*),
- .
- the status of salmon populations in Canada's Pacific Region (*reference #'s 17, 21, 22, 26, 33, 37, 45, 46, 56, 73, 78, 85, 92*),
- sustainable management of natural resources in watersheds (*#'s 3, 16, 32, 79, 81, 91, 94, 96*),
- impact and adaptation responses of fish and fisheries to climate change (*#'s 1, 15, 24, 25, 48, 70, 71, 72, 89*),
- experimental & statistical analysis of mechanisms controlling production & recruitment variations of salmon populations in watersheds & marine ecosystems (*#'s 1, 2, 3, 4, 7, 9, 11, 12, 13, 15, 17, 19, 20, 23, 32, 41, 42, 47, 48, 50, 51, 54, 69, 70, 71, 83,84*), and
- assessment tools, models and information systems to improve the delivery of applied research results to habitat, stock assessment and fisheries resource managers (5, 8, 14, 16, 18, 27, 28, 30, 31, 32, 35, 4344, 49, 55, 66, 75, 76, 94, *#'s*),.

Recent projects:

- development and implementation of Strategy-3 (ecosystem-based management) of DFOs Wild Salmon Policy in the Barkley Sound WSP initiative;
- development of sockeye indicator stocks and testing alternate pre-season forecasting routines for application to the management of fisheries for sockeye salmon in Barkley Sound, B. C.;

- principal investigator in a multiyear project to develop biophysical models to improve decisions that fisheries and water managers make to satisfy competing objectives involving fish production, flood control, agricultural and municipal water use in British Columbia's Okanagan valley;
- ongoing assessments of effects of experimental additions of nutrients to BC lakes on food webs.

1975-1980: Doctoral dissertation, University of British Columbia, Department of Zoology. Mechanisms of food resource partitioning and the foraging strategies of rainbow trout (*Oncorhynchus gairdneri*) and kokanee (*O. nerka*) in Marion Lake, British Columbia. **Supervisor** – Dr. J. D. McPhail.

1973-1975: Research Associate, University of British Columbia, Institute of Animal Resource Ecology. Assessment of the effects of introduced threespine stickleback (*Gasterosteus aculeatus*) on the Marion Lake ecosystem.

Environmental Consulting Experience:

1979-1980: Project Manager and Fisheries Scientist, Beak Environmental Consultants Ltd., Vancouver, B. C. Directed assessment of the potential impact of hydroelectric development of the Stikine and Iskut rivers on the biological resources of the Stikine River.

1978: Fisheries Biologist, Entech Environmental Consultants, Vancouver, B. C. Assessment of the potential environmental impacts of the Kootenay Diversion on fish populations of the Kootenay and Upper Columbia rivers.

1972: Fisheries Biologist, Interdisciplinary Systems Ltd, 528 St. James Street, Winnipeg, Manitoba. Assessment of environmental impacts of pipeline construction on fish populations of the Mackenzie River system.

Academic Experience :

1980-present: Dr. Hyatt has held adjunct faculty positions in Environmental Studies or Biological Sciences Departments at: Royal Roads University (2006-2008), the University of British Columbia (2001-2004), Simon Fraser University (1986-1990) and the University of New Brunswick (2004-2007). He currently serves as the DFO supervisor for one MSc student at the University of British Columbia.

1980-present: Supervision and involvement in thesis committee activities of 12 MSc and 6 PhD students enrolled in biological science programs at the University of British Columbia (10), Simon Fraser University (6), Royal Roads (1) or the University of New Brunswick (1).

1976-1978: Faculty member, Biology Department, Okanagan University College, Kelowna, B. C. Instructor in charge of Biology 222 (introduction to principles of

ecology) and participated in Departmental team delivery of Biology 111 (introductory biology). Other courses taught included: human anatomy and physiology, cell physiology and ecology and man. Dr. Hyatt has also delivers an average of about 20 guest lectures and presentations per year at universities and professional meetings.

Professional Affiliations:

American Fisheries Society (AFS) Governing Board Member, Chair of the AFS Resource Policy Committee (2007-08), President of the Canadian Aquatic Resources Section of AFS (2005-2009). www.fisheries.org

Canadian Water Resources Association (CWRA) Member of CWRA and Editorial Board Member (appointed Feb. 2007) of the Canadian Water Resources Journal. www.cwra.ca

Member of the National Steering Committee (2004-08) of the Canadian Climate Impacts and Adaptation Research Network (C-CIARN) sponsored by Natural Resources Canada (NRCan). www.c-ciarn.ca

Manager and Science Advisor of the National C-CIARN Fisheries Office (2004-2008) of the C-CIARN Network. www.c-ciarn.ca/fisheries

Chair of the Salmon Subcommittee (2007-2009) of Fisheries and Oceans Canada's Pacific Science Advisory Review Committee. www.pac.dfo-mpo.gc.ca/sci/psarc/

Member of the Salmon Species Group of the International Union for the Conservation of Nature (IUCN). www.iucn.org

Research Director for the non-profit Northwest Ecosystem Institute (1996-present), Lantzville B. C. www.ecosystems.bc.ca

Member of the Pacific Salmon Commission's Transboundary Technical Committee (1986-present). www.psc.org

Recent Publications (1996-2010):

Refereed publications:

Submitted:

1. Selbie, D. T., J. N. Sweetman, P. Etherton, **K. D. Hyatt**, D. P. Rankin, B. P. Finney and J. P. Smol. 2010. Climate change modulates structural and functional lake ecosystem responses to introduced anadromous salmon. (in review CJFAS 2010).
2. Borstad, G., W. Crawford, J. M. Hipfner, R. Thomson and **K. Hyatt**. 2010. Environmental control of breeding success of rhinoceros auklets at Triangle Island, British Columbia.

3. **Hyatt, Kim D.**, Howie Wright, Donald J. McQueen, D. Paul Rankin and Shayla Lawrence. 2010. Skaha Lake (British Columbia) pelagic food web interactions among endemic kokanee (*Oncorhynchus nerka*), introduced *Mysis relicta*, lake whitefish (*Coregonus clupeaformis*) and hatchery-origin sockeye salmon (*O. nerka*). (Submitted as CJFAS Ms 20515).
4. **Hyatt, Kim D.**, D. Paul Rankin, Howie Wright, E. Vic Jensen and Donald J. McQueen. 2008b. "Squeeze play:" Responses of juvenile sockeye salmon to habitat changes driven by high epilimnetic temperature and low hypolimnetic oxygen in Osoyoos Lake, B.C. (Submitted 2009 to N. Am. J. Fish. Mgt.).

Published in Refereed Journals:

5. Shardlow, T. and **K. Hyatt**. 2010. The Tilt-tag: A microprocessor controlled tag for determining life-span in fish. (*in press* as Chapter in AFS sponsored book on Fish Tagging).
6. **Hyatt, K.**, T. Bigford, T. Dobson, B. McCay, V. Poage, B. Hughes, L. Reynolds and B. Czech. 2007. Economic growth and fish conservation. Report of the Resource Policy Committee. Fisheries: 32: 252-254.
7. McQueen, D. J., **K. D. Hyatt**, D. Paul Rankin and C. Ramcharan. 2007. Changes in algal species composition affected juvenile sockeye salmon production at Woss Lake, British Columbia: a lake fertilization and food web analysis. North Am. J. Fish. Management 27: 369-386.
8. Shardlow, T. F., **K. D. Hyatt** and S. R. Pearson. 2007. A new electronic fish tag for accurately estimating life span and survey life of spawning salmon. Aquat. Living Resour. 20: 197-203.
9. McQueen, D. J., **K. D. Hyatt**, D. Paul Rankin and C. Ramcharan. 2007. Changes in algal species composition affected juvenile sockeye salmon production at Woss Lake, British Columbia: a lake fertilization and food web analysis. North Am. J. Fish. Mgt. 27: 369-386.
10. Bigford, T., **K. Hyatt**, T. Dobson, V. Poage, L. Reynolds, B. Czech, B. Hughes, J. Meldrim, P. Angermeier, R. Gray, J. Whitehead, L. Hushak and F. Lupi. 2006. Economic growth and fish conservation. Report of the Resource Policy Committee. Fisheries: 31 (3) 104-107.
11. **Hyatt, K. D.**, C. Ramcharan, D. J. McQueen and K. L. Cooper. 2005. Trophic triangles and competition among vertebrate (*Oncorhynchus nerka*, *Gasterosteus aculeatus*) and macroinvertebrate (*Neomysis mercedis*) planktivores in Muriel Lake, British Columbia, Canada. Ecoscience 12(1): 11-26.
12. **Hyatt, K. D.**, K. L. Mathias, D. J. McQueen, B. Mercer, P. Milligan, and D. P. Rankin. 2005. Evaluation of hatchery versus wild sockeye salmon fry growth and survival in two British Columbia lakes. N.Am.J.Fish.Mgt. 25: 745-762.
13. **Hyatt, K. D.**, D. J. McQueen, K. S. Shortreed and D. P. Rankin. 2004. Sockeye salmon (*Oncorhynchus nerka*) nursery lake fertilization: Review and summary of results. Environ. Rev. 12: 133-162.
14. Shardlow, T. F. and **K. D. Hyatt**. 2004. Assessment of the counting accuracy of the Vaki infrared counter on chum salmon. N.Am.J.Fish.Mgt. 24: 249-252.
15. **Hyatt, K. D.**, M. M. Stockwell and D. P. Rankin. 2003. Impact and adaptation responses of Okanagan River sockeye salmon (*Oncorhynchus nerka*) to climate variation and change effects during freshwater migration: Stock restoration and fisheries management implications. Canadian Water Resources Journal 28: 689-711.

16. Johannes, M. R. S., **K. D. Hyatt**, J. K. Cleland, L. Hanslit and M. M. Stockwell. 2002. Assembly of map-based stream narratives to facilitate stakeholder involvement in watershed management. *J. Amer. Wat. Res. Assoc.* 38: 555-562.
17. McKinnell, S. M., C. C. Wood, D. T. Rutherford, **K. D. Hyatt** and D. W. Welch. 2001. The demise of Owikeno Lake sockeye salmon. *N.Am.J.Fish.Mgt.* 21: 774-791.
18. Beacham, T. D., K. D. Le., M. R. Raap, **K. Hyatt**, W. Luedke, and R. E. Withler. 2000. Microsatellite DNA variation and estimation of stock composition of sockeye salmon, *Oncorhynchus nerka*, in Barkley Sound, British Columbia. *Fish. Bull.* 98:14-24.
19. Ghan, D., **K. D. Hyatt** and J. D. McPhail. 1998. Benefits and costs of vertical migration by the freshwater copepod *Skistodiaptomus oregonensis*: Testing hypotheses through population comparison. *Can. J. Fish. Aquat. Sci.* 55: 1338-1349.
20. Ghan, D., J. D. McPhail and **K. D. Hyatt**. 1998. The temporal-spatial pattern of vertical migration by the freshwater copepod *Skistodiaptomus oregonensis* relative to predation risk. *Can. J. Fish. Aquat. Sci.* 55: 1350-1363.
21. **Hyatt, K. D.** 1996. Stewardship for biomass or biodiversity: A perennial issue for salmon management in Canada's Pacific Region. *Fisheries* 21:4-5.
22. Slaney, T. L., **K. D. Hyatt**, T. G. Northcote and R. J. Fieldon. 1996. Status of anadromous salmon and trout in British Columbia and the Yukon. *Fisheries* 21: 20-35.
23. **Hyatt, Kim D.**, Howie Wright, Donald J. McQueen, D. Paul Rankin and Shayla Lawrence. 2008a. Skaha Lake (British Columbia) pelagic food web interactions among endemic kokanee (*Oncorhynchus nerka*), introduced *Mysis relicta*, lake whitefish (*Coregonus clupeaformis*) and hatchery-origin sockeye salmon (*O. nerka*). (Submitted March 2008 as CJFAS Ms 20515).

Other refereed contributions:

24. **Hyatt, K. D.** 2008. BC Fisheries and Climate Change. Contributed section (p.344-346) to the BC Chapter (p. 329-386) in *From Impacts to Adaptation: Canada in a Changing Climate 2007*, edited by D. S. Lemmen, F. J. Warren, J. Lacroix and E. Bush; Government of Canada, Ottawa.
25. Cohen, S., D. Nielsen and **K. D. Hyatt**. 2008. Climate Change Impacts in the Okanagan Valley. Contributed section (p. 365-370) to the BC Chapter (p.329-386) in *From Impacts to Adaptation: Canada in a Changing Climate 2007*, edited by D. S. Lemmen, F. J. Warren, J. Lacroix and E. Bush; Government of Canada, Ottawa.
26. **Hyatt, K. D.**, M. S. Johannes and M. M. Stockwell. 2006. Appendix I: Pacific Salmon in B. Lucas, S. Verrin and R. Brown eds. *Ecosystem Overview: Pacific North Coast Integrated Management Area (PNCIMA)*. *Can. Tech. Rep. Fish. Aquat. Sci.* No. 2667.
27. **Hyatt, K.**, W. Luedke, D. P. Rankin, J. Till, and D. Lewis. 2003. Review of the 2002 return of Barkley Sound sockeye salmon and forecasts for 2003. Canadian Science Advisory Secretariat Research Document 2003/033. Available at: www.dfo-mpo.gc.ca/csas/
28. **Hyatt, K.**, W. Luedke, J. Till, D. Lewis and P. Rankin. 2002. Review of the 2001 return of Barkley Sound sockeye salmon and forecasts for 2002. PSARC Working Paper S2002-06.
29. **Hyatt, K. D.** and B. Riddell. 2000. The importance of "stock" conservation definitions to the concept of sustainable fisheries. Chapter 4. pp. 51-62 in E.E. Knudsen, D.D. MacDonald, J. E.

Williams and D. W. Reiser eds. Sustainable Fisheries Management: Pacific Salmon. Lewis Publishers, Boca Raton, Florida.

30. **Hyatt, K.**, W. Luedke, J. Till, P. Rankin and D. Lewis. 2000a. Review of the 1999 return of Barkley Sound sockeye salmon and forecasts for 2000. PSARC Working Paper S2000-06.
31. **Hyatt, K. D.**, D. P. Rankin and B. Hanslit. 2000b. Acoustic and trawl based estimates of juvenile sockeye salmon (*Oncorhynchus nerka*) production from 1976-1999 brood year adults returning to Smith Inlet and Long Lake, British Columbia. PSARC Working Paper S2000-21.
32. **Hyatt, K. D.** and D. P. Rankin. 1999. A habitat based evaluation of Okanagan sockeye salmon escapement objectives. Canadian Stock Assessment Secretariat Research Document 99/191. www.dfo-mpo.gc.ca/csas/
33. Slaney, T. L., **K. D. Hyatt**, T. G. Northcote and R. J. Fieldon. 1997. Status of anadromous cutthroat trout in British Columbia pp 77-79 in J. Hall (ed.) Searun Cutthroat Trout: Biology, Management and Future Conservation. Oregon Chapter, American Fisheries Society.
34. Shardlow, T. F. and **K. D. Hyatt**. 2008. A microprocessor-based tag for accurately estimating life span and survey life for area under the curve estimates of spawning salmon. (Submitted May 2008 as Chapter in American Fisheries Society Tagging Symposium).

Non-refereed contributions:

35. **Hyatt, K. D.** and M. M. Stockwell. 2010. Okanagan fish-and-water management tools project assessments: Record of management strategy and decisions for the 2006-2007 water year. Can. Ms. Rep. Fisheries and Aquatic Sciences No. 2913. 65p.
36. Summit Environmental Consultants. 2010. Summary Report prepared for the Okanagan Basin Water Board (OBWB), Kelowna, BC, Okanagan Water Supply and Demand Project: Phase 2, 82p. plus 15 Appendices on CD.
37. **Hyatt, K. D.**, M. Stockwell and D. P. Rankin. 2009a. Sockeye salmon index stocks: Regional overview of trends and 2007 returns in DFO, 2009. State of the Pacific Ocean 2008. DFO Sci. Ocean Status Reports. 2009/01.
38. **Hyatt, K. D.**, D. P. Rankin and M. M. Stockwell. 2009b. Okanagan fish-and-water management tools (FWMT) project assessments: Osoyoos Lake juvenile sockeye salmon (*Oncorhynchus nerka*) production associated with 2001-2007 brood year returns of adults to the Okanagan River, B. C. Report to file: JSIDS-SRe03-2009. 15p. Salmon in Regional Ecosystems Program, Fisheries and Oceans Canada, Nanaimo, B. C. V9T 6N7.
39. **Hyatt, K.**, M. Stockwell, H. Wright, L. Wiens, and P. Askey. 2009c. Okanagan fish-and-water management tools project assessments: Brood year 2008 salmon (*Oncorhynchus nerka*) abundance and biological traits. Report to file: JSIDS-SRe04-2009. 27p. Salmon in Regional Ecosystems Program, Fisheries and Oceans Canada, Nanaimo, B. C. V9T 6N7.
40. **Hyatt, K. D.** and M. M. Stockwell. 2009d. Okanagan fish-and-water management tools project assessments: Post-season summary of the record of management strategies and decisions for the 2008-2009 fish-and-water year. Draft report to the Canadian Okanagan Basin Technical Working Group. Nov. 2009. 24p.
41. **Hyatt, K. D.**, D. McQueen and D. P. Rankin. 2009e. Woss and Vernon Lake sockeye salmon nursery lake fertilization program: Interim progress report 2009 to the Nimpkish Resource Management Board.

42. Wright, H., K. Long, D. McQueen, **K. D. Hyatt**, D. P. Rankin, M. Walsh, G. Traxler, S. Wolski, S. Lawrence, J. Tamblyn, L. Wiens, E. Tonasket, F. Joseph. 2009. Experimental re-introduction of sockeye salmon (*Oncorhynchus nerka*) into Skaha Lake: 2007 Brood Year Report, Year 4 of 12. Prepared for Grant County Public utility District by the Okanagan Nation Alliance. Westbank, BC. 150pp.
43. ESSA Technologies Ltd. and Solander Ecological Research. 2009. Instream Flow Needs Analysis for the Okanagan Water Supply & Demand Project. Report prepared for the Okanagan Basin Water Board (OBWB), Kelowna, BC, Okanagan Water Supply and Demand Project: Phase 2, Appendix H. 152 p.
44. Anonymous. 2009. Forecast return of Barkley Sound sockeye salmon to Great Central and Sproat Lakes in 2009. South Coast Stock Assessment, DFO, Nanaimo. February 2008.
45. **Hyatt, K. D.**, K. Hunter, M. Stockwell and D. P. Rankin. 2008. Sockeye salmon index stocks: Regional overview of trends and 2007 returns. Pp. 57-61 in DFO, 2008. State of the Pacific Ocean 2007. DFO Sci. Ocean Status Reports. 2008/01.
46. **Hyatt, K. D.** 2008. Proceedings of the PSARC Salmon Subcommittee Meeting June 13-14, 2007. DFO Can. Sci. Advis. Sec. Proceed. Ser. 2008/013. 19p.
47. **Hyatt, K. D.**, D. McQueen and D. P. Rankin. 2008. Woss and Vernon Lake sockeye salmon nursery lake fertilization program: Interim progress report 2007 to the Nimpkish Resource Management Board.
48. **Hyatt, K. D.** 2007. Implications of climate change for salmon and salmon fisheries in British Columbia. Pp. 40-54 in P. Gallagher and L. Wood eds. Proceedings of the Speaking for the Salmon Town Hall Meeting, Fraser sockeye salmon: moving from talk to action. Monday, June 04, 2007. Presentation available at www.sfu.ca/cstudies/science/missingfish.htm
49. **Hyatt, K. D.** and C. Bull. 2007. Fish and water management tool project assessments: Record of management strategy and decisions for 2005. Can. Ms. Rep. Fish. Aquat. Sci. No. 2808. 37 p.
50. **Hyatt, Kim D.**, M. M. Stockwell. 2007a. Fish and water management tool (FWMT) project assessments: Observations of Okanagan sockeye salmon (*Oncorhynchus nerka*) egg incubation success, fry emergence timing and associated environmental conditions between 1952-2006. Report to file: JSIDS SRe: 04-07, June, 2007. Salmon in Regional Ecosystems Program, Fisheries and Oceans Canada, Nanaimo, B.C., V9T 6N7
51. **Hyatt, Kim D.**, M. M. Stockwell and D. Paul Rankin. 2007b. Fish and water management tool assessments: Miscellaneous observations of Okanagan sockeye salmon (*Oncorhynchus nerka*) smolt abundance, size, migratory timing and associated environmental conditions between 1957 and 2006. Report to file: JSIDS SRe: 04-06, June 08, 2007. Salmon in Regional Ecosystems Program, Fisheries and Oceans Canada, Nanaimo, B.C., V9T 6N7
52. **Hyatt, Kim D.** 2007. Annual Report of the Canadian Aquatic Resources Section of the American Fisheries Society (AFS) to the AFS Governing Board, Bethesda Maryland.
53. **Hyatt, Kim D.** 2007. Annual Report of the Resource Policy Committee of the American Fisheries Society (AFS) to the AFS Governing Board, Bethesda Maryland.
54. Wright, H., K. Long, D. McQueen, **K. D. Hyatt**, D. P. Rankin, M. Walsh, G. Traxler, S. Wolski, S. Lawrence, J. Tamblyn, L. Wiens, E. Tonasket, F. Joseph. 2007. Experimental re-introduction of sockeye salmon (*Oncorhynchus nerka*) into Skaha Lake: 2005 Brood Year Report, Year 2 of 12.

Prepared for Grant County Public utility District by the Okanagan Nation Alliance. Westbank, BC. 204pp.

55. Anonymous. 2007. Forecast return of Barkley Sound sockeye salmon to Great Central and Sproat Lakes in 2007. South Coast Stock Assessment, DFO, Nanaimo. February 2007.
56. **Hyatt, K.** 2007. Proceedings of the PSARC Salmon Subcommittee Meeting, October 18, 2006. DFO Can. Sci. Advis. Sec. Proceed. Ser. 2006/027. 19p.
57. **Hyatt, K. D., K. Hunter, D. P. Rankin and M. Stockwell.** 2007c. Sockeye salmon index stocks: Regional overview of trends and 2006 returns. Pp. 57-61 in DFO, 2007. State of the Pacific Ocean 2006. DFO Sci. Ocean Status Reports. 2007/01.
58. **K. Hunter, K. Hyatt and M. Johannes.** 2007. C-CIARN Fisheries Annual Report 2005-06. June, 2007. Available upon request from the authors or through C-CIARN Fisheries at www.fishclimate.ca
59. **Hyatt, Kim D.** and D. Paul Rankin. 2006. Fish and water management tools (FWMT) project assessments: Osoyoos Lake juvenile sockeye salmon (*Oncorhynchus nerka*) production associated with the 2001- 2005 brood year returns of adults to the Okanagan River. Report to file: JSIDS-SRE 03-07. Salmon in Regional Ecosystems Program, Fisheries and Oceans Canada, Nanaimo, B.C., V9T 6N7
60. **Hyatt, K.** 2006. Proceedings of the PSARC Salmon Subcommittee Meeting, October 18, 2006. DFO Can. Sci. Advis. Sec. Proceed. Ser. 2006/027. 19p.
61. **Hyatt, K. D.** 2006a. Ecologically and biologically significant species- Forage Fish pp. 2-4 in J. Rice ed. Background scientific information for candidate criteria for considering species and community properties to be ecologically significant. DFO. Can. Sci. Advis. Sec. Res. Doc. 2006/089.
62. **Hyatt, K. D.** 2006b. Ecologically and biologically significant species- Energy or nutrient importers/exporters. Pp.43-50 in J. Rice ed. Background scientific information for candidate criteria for considering species and community properties to be ecologically significant. DFO. Can. Sci. Advis. Sec. Res. Doc. 2006/089.
63. **Johannes, M., and K. Hyatt** 2006. C-CIARN Fisheries Annual Report 2004-05. April, 2006. Available upon request from the authors or through C-CIARN Fisheries at www.fishclimate.ca
64. Anonymous 2005. Canada's Policy for the Conservation of Wild Pacific Salmon. Fisheries and Oceans Canada, Vancouver. Available at http://www-comm.pac.dfo-mpo.gc.ca/publications/wsp/default_e.htm
65. **Johannes, M., K. Hyatt and J. Cleland.** 2005. C-CIARN Fisheries Annual Report 2004-05. April, 2005. Available upon request from the authors or through C-CIARN Fisheries at www.fishclimate.ca
66. **Hyatt, K. D., B. Symonds, A. Wilson, C. Peters, B. Guy, C. Alexander, M. Stockwell, H. Wright, B. Phillips, P. Rankin, C. Daniel, H. Andrusak, D. Machin, C. Bull, and D. Marmorek.** 2004. The Okanagan Fish-Water Management (OKFWM) Tool: Balancing water objectives in real time. Proceedings of the International Conference for Natural Channel Systems, Ottawa, Ontario, Oct. 2004.
67. **Bull, C.J., K. D. Hyatt, R. Newbury and M. Gaboury.** 2004. Keeping it working: New ways of solving old problems on the Okanagan River. Proceedings of the International Conference for Natural Channel Systems, Ottawa, Ontario, Oct. 2004.

68. Johannes, M., **K. Hyatt** and J. Cleland. 2004. C-CIARN Fisheries Annual Report 2003-04. April, 2004. Available upon request from the authors or through C-CIARN Fisheries at www.fishclimate.ca
69. **Hyatt, K. D.**, D. J. McQueen, D. P. Rankin, B. Hanslit, S. Sutey and E. Carrie, H. Nelson and B. Svanik. 2004. Lake fertilization and enhanced growth of juvenile sockeye salmon at Woss Lake, British Columbia: A food-web analysis. Can. Fish. Aquat. Sci. Ms Rep. No. 2689. 169 p.
70. **Hyatt, K. D.** and M. M. Stockwell. 2003. Analysis of seasonal thermal regimes of Okanagan Lake kokanee and Okanagan River sockeye salmon habitats for the Fish and Water Management Tools (FWMT) Project. Canadian Manuscript Report of Fisheries and Aquatic Sciences, No.2618.
71. **Hyatt, Kim. D.** and J. Cleland. 2003. Case Study: Impact and adaptation responses of fish, water managers and fisheries to the summer 2002 fall drought in British Columbia. Pp. 28-32 in Proceedings of the Workshop on Adapting to Climate Change in the Coastal Pacific Northwest: Challenges for Ecosystems, Communities, Industries and Institutions. Victoria, B. C. May 23, 2003. Air and Waste Management Association of B. C., Capital Regional District of Victoria, BC Ministry of Water Land and Air Protection and Canadian Climate Impacts and Adaptation Research Network.
72. Johannes, M., **K. Hyatt** and J. Cleland. 2003. C-CIARN Fisheries Annual Report 2002-03. April 17, 2003. Available upon request from the authors or through C-CIARN Fisheries at www.fishclimate.ca
73. Stockwell, M. M. and **K. D. Hyatt**. 2003. A summary of Okanagan sockeye salmon (*Oncorhynchus nerka*) survey observations by date and river segment from 1947 to 2001. Can. Fish. Aquat. Sci. Data Rep. No. 1106.
74. **Hyatt, K. D.** 2003. Ecosystem-based management and salmon recovery. Fresh H2O Outlook. 14: 22-23.
75. **Hyatt, K. D.** and C. Peters. 2002. A simple sockeye production model for the Fish and Water Management Tools (FWMT) Project. Draft Design Document , August, 2002. Fisheries and Oceans Canada, Stock Assessment Division, Pacific Biological Station, Nanaimo, BC. 42 p.
76. **Hyatt, K. D.** and M. M. Stockwell. 2002. Status report on reconstructing seasonal thermal regimes of Okanagan Lake kokanee and Okanagan River sockeye salmon habitats for the Fish and Water Management Tools (FWMT) Project. Report to file ASIDS-02-02. Stock Assessment Division, Pacific Biological Station, Nanaimo, BC. 27 p.
77. Rankin, D. P., **K. D. Hyatt** and B. Hanslit. 2002. Long Lake (Smith Inlet) sockeye brood year 2000 juvenile abundance and lake survey status report. Fisheries and Oceans Canada, Stock Assessment Division, Report to file: JSIDS SRe 01-02. 5 p plus 1 appendix.
78. Rankin, D. P. and **K. D. Hyatt**. 2002. Status report on assessment of sockeye salmon smolts from Skidegate and Yakoun lakes (Brood years 1981 through 1998). Fisheries and Oceans Canada, Stock Assessment Division, Report to file: JSIDS SRe 01-02. 10p.
79. Anonymous. 2001. Watershed-Based Fish Sustainability Planning: Conserving B. C. Fish Populations and their Habitat: A Guidebook for Participants. 85 p.
80. Anonymous. 2001. Pacific Salmon Commission Transboundary Technical Committee Report: Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek Rivers, 2001. Report TCTR (01)-

81. **Hyatt, K. D.** 2001a. Progress towards development of an ecosystem-based management and salmon recovery program in the Okanagan River Basin. Proceedings of DFO's Habitat Conservation & Stewardship Program Mid-term Review Meeting. April 19, 2001 Richmond B. C.
82. **Hyatt, K. D.** 2001b. Ecosystem considerations for implementation of Fisheries and Oceans Canada's Wild Salmon Policy. Proceedings of the Wild Salmon Policy Implementation Workshop, Mar. 13-14, 2001. Pacific Biological Station, Nanaimo, B. C.
83. McQueen, D. J. and **K. D. Hyatt**. 2001. Year 2000 fertilization of Woss Lake and comparisons with Vernon Lake which served as an unfertilized control. Progress Report to DFO (Science Branch, HEB) and the Nimpkish Watershed Co-management Bd. 38 p.
84. Rankin, D. Paul, B. Hanslit, **K. D. Hyatt** and H. Wright. 2001. Surveys to determine the status of *Mysis relicta*, juvenile sockeye salmon and biophysical conditions in Osoyoos and Skaha Lakes during 2000. Progress Report to DFO (HRSEP) and to the Okanagan Nation Fisheries Commission. JSIDS Status Report 01-2001.
85. Anonymous. 2001. Fish Stocks of the Pacific Coast. Fisheries and Oceans Canada, Vancouver, British Columbia. 152 p.
86. Ross, C., S. Riecken, B. Harvey, J. Carolsfeld, J. Nelson and **K. Hyatt**. 2001. Genetic analysis of Clayoquot Sound sockeye and coho salmon. First steps towards balanced rebuilding of a fishery. World Fisheries Trust Technical Report, Victoria B.C.
87. Stockwell, M. M., **K. D. Hyatt** and D. P. Rankin. 2001. A compendium of historic physical variable observations including air temperature, water temperature, river discharge and dissolved oxygen conditions in selected portions of the Okanagan Basin in Canada and the United States. Can. Data Rep. Fish. Aquat. Sci. No. 1078. 8p plus a CD-ROM.
88. Anonymous. 2000. Pacific Salmon Commission Transboundary Technical Committee Report: Salmon management and enhancement plans for the Stikine, Taku and Alsek Rivers, 2000. Report TCTR (00)-02. 40 p.
89. Anonymous. 2000. Final report of the March 29, 2000 workshop on impacts and adaptation to climate change: Developing a regional and national research network. Environment Canada, Atmospheric section, Pacific and Yukon Region, Vancouver, B. C. 32 p.
90. **Hyatt, K. D.** 2000. Provisional limit reference points (LRP's) for West Coast Vancouver Island (WCVI) sockeye stocks. In summary report from the workshop on development of provisional reference points for key salmon stocks. Feb 1-2, 2000. Pacific Biological Station, Nanaimo, B. C.
91. Johannes, M. R. S., C. L. K. Robinson and **K. D. Hyatt**. 1999. Kennedy Watershed Atlas Series – Volume I: Watershed Overview, A Working Atlas. Northwest Ecosystem Institute, Lantzville, BC. 35p.
92. **Hyatt, K. D.** and W. Luedke. 1999. West Coast Vancouver Island Sockeye. DFO Stock Status Report D6-05 (1999). 7p. Department of Fisheries and Oceans, Pacific Science Advisory Review Committee, Pacific Biological Station, Nanaimo, B.C.
93. **Hyatt, K. D.** and W. Luedke. 1999. An update on the 1998 stock status and 1999 forecasts of Barkley sound sockeye. PSARC Working Paper S99-8. Department of Fisheries and Oceans, Pacific Science Advisory Review Committee, PBS, Nanaimo.
94. Johannes, Mark R. S. and **Kim D. Hyatt**. 1998. The Kennedy Watershed Restoration Project: Identification of forest harvest impacts and opportunities for salmon stock and habitat

- rehabilitation in Clayoquot Sound, British Columbia. Pp 389-401 in M. K. Brewin and D. M. A. Monita, Tech. Coords. Proceedings of the May 1996 Fish-Forestry Interactions Conference, Calgary, Alberta.
95. **Hyatt, K. D.** and W. Luedke. 1998. An update on the 1997 stock status and 1998 forecasts of Barkley sound sockeye. PSARC Working Paper S98-4. Department of Fisheries and Oceans, Pacific Science Advisory Review Committee, PBS, Nanaimo.
 96. Gill, Ian, Peter K. Schoonmaker and **Kim Hyatt**. 1997. The Kennedy Lake Technical Working Group pp.189-192 in Schoonmaker, von Hagen and Wolf (eds.) The Rain Forests of Home: Profile of a North American Bioregion. Island Press, Washington, D. C.
 97. **Hyatt, K. D.** 1996. Salmon as barometers of the state of marine and aquatic environments on Canada's west coast. pp. 37-39 in Hay, D. E., R. D. Waters and T. A. Boxwell (eds). Proceedings, Marine Ecosystem Monitoring Network Workshop, Nanaimo, B. C., March 28-30, 1995. Can. Tech. Rep. Fish. Aquat. Sci. No. 2108.