

Daniel J. Gillis

Citizenship: Canadian

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ACADEMIC

University of British Columbia; B.Sc., 1967
Simon Fraser University; M.Sc., 1986

THESIS

Physiological and Ultrastructural Aspects of Late Vitellogenesis and Ovulation in Pacific Herring, *Clupea harengus pallasii*.

SPECIALIZATION

Project initiation and management; Community economic development; Wood products production and marketing; Marine/aquatic resources research, management and culture; Marine resources development and marketing; Environmental monitoring and impact assessment.

PUBLICATIONS

- Gillis, D.J., and D.W. Ellis. 1994.** The Georgia Strait Herring "Stock" Problem, Inclusive of The First Nations TEK (Traditional Ecological Knowledge) Perspective, in D.E. Hay and P.B. McCarter (Eds), Proceedings of the Seventh Pacific Coast Herring Workshop, January 27-28, 1994, Vancouver, B.C. Can. Tech. Rep. Fish. Aquat. Sci. 2060; pp 171-178
- Gillis, D.J., 1994.** Some Impacts of Salmon Farming in British Columbia on Pacific Herring (*Clupea harengus pallasii*), in D.E. Hay and P.B. McCarter (Eds), Proceedings of the Seventh Pacific Coast Herring Workshop, January 27-28, 1994, Vancouver, B.C. Can. Tech. Rep. Fish. Aquat. Sci. 2060; pp 77-93
- Gillis, D.J., A.B. Evans and K.A. Maeba-Hawkes, 1993.** Case study of the Alert Bay Aboriginal economy. Submission for the Royal Commission on Aboriginal Peoples.
- Maeba-Hawkes, K.A. and D.J. Gillis, 1993.** A child-care rationale and strategy for Alert Bay's aboriginal community. Submission for the Royal Commission on Aboriginal Peoples.
- Black, E.A., D.J. Gillis, D.E. Hay, C. Haegele, and C.D. Levings. 1993.** Predation by caged salmon in British Columbia. Bull. Aquacul. Assoc. Canada. 92-3:58-60.
- Gillis, D.J., and D.E. Hay. 1993.** *In Situ* effects of net-pen salmon farms on Pacific herring eggs.
- Gillis, D.J., D.E. Hay, C. Haegele, E. Black, and others. 1993.** Predation by caged salmon.
- Hay, D.E., D.J. Gillis, E.A. Black and G.A. Vigers. 1990.** Studies of netpen impacts on wild salmon and herring. Poster presentation. Aquaculture International Congress and Exposition, Vancouver, B.C.
- Gillis, D.J., B.A. McKeown and D.E. Hay. 1990.** Physiological and Histological Aspects of Late Oocyte Provisioning, Ovulation, and Fertilization in Pacific Herring, (*Clupea harengus pallasii*). Can. J. Fish. Aquat. Sci. 1505-1512
- Gillis, D.J., B.A. McKeown and D.E. Hay. (1990).** Ultrastructural Observations on the Ovary and Eggs, and the Development of Egg Adhesion in Pacific Herring, (*Clupea harengus pallasii*). Can. J. Fish. Aquat. Sci. 47:1495-1504
- Gillis, D.J., C.A. Whiting, R.A. Radley, J.E.S. Wilcox, M.D. Ross and K. Jackson. (1982).** Herring Pumping and Impoundment Operations, Factors Affecting the Quality of Roe Herring Products. Can. Indust. Rep. of Fish. Aquatic. Sci. No. 130, vi + 61p.
- Gillis, D.J. (1979).** Ponding and Other Factors Affecting the Quality of Herring for the Food Industry. Fisheries Management, Pacific Industry Report No. 109.

PRINCIPAL WORK EXPERIENCE

September 2003 to September, 2008. Sawyer at **Thinwood Forestry**, Port Mellon. Sole proprietor: **AKARI Fine Woodworking**.

July 1998 to July 2002 Fisheries Adjustment Co-ordinator – CED Coordinator, Community Futures Development Corporation of the Sunshine Coast, Box 128, Sechelt, B.C. V0N 3A0. Tel. (604) 885-1959. FAX – (604) 885-2707
Director, South Coast Value Added Co-op

JAN/88 JUL/98 D.J. GILLIS & Assoc.

Fisheries and Oceans - Conducted an intensive sampling program for eulachon eggs and larvae in the Fraser River.

Kwakiutl Band Council - A preliminary assessment of the biophysical condition of Hardy Bay, with reference to a current lease application for a booming ground.

Ministry of Ag. Fish and Food, and Fisheries and Oceans - Continuation of predation studies regarding predation by farmed Atlantic salmon on invertebrates and juvenile fishes.

Kwakiutl Band Council - Preparation and presentation of evidence for *R. v Hunt et al.*, a trial intended to interpret fishing rights provided for under the Band's Douglas Treaty in the modern context.

Kwakiutl Band Council - Ongoing marine resources development focusing on the production of food products and abalone feed from kelp resources.

Royal Commission on Aboriginal Peoples and the Nimpkish Band Council - Economic development studies concerning Aboriginal Peoples.

Kwakiutl Band Council - Assistance with comprehensive marine resource development plan, including clam culture, urchin fishery development, abalone re-stocking planning, early development of salmonid enhancement in Treaty area streams and rivers, seaweed resource development and marketing, and others.

Fisheries and Oceans - Manuscript preparation; assistance with the 1992 larval herring field program.

Kwakiutl Band Council - Technical assistance with 1992 commercial spawn-on-kelp fisheries under license J33, production, processing and marketing. Completed a comprehensive inventory of Beaver Harbour kelps and seaweeds in preparation for wild harvesting and culture. Co-management planning; Fishery development planning.

Kwakiutl and Tsulquate Band Councils - Technical assistance with 1991 commercial spawn-on-kelp fisheries under licenses J31 and J33, production, processing and marketing. Co-management planning; related proposal preparation.

Ministry of Agriculture and Fisheries, and Fisheries and Oceans Canada - Study of energy flow from salmon farm feed input to local wild teleost communities, using fatty acid analysis and profiles. Organizational, liaison, sampling, and some analytical aspects.

Kwakiutl Band Council - Assistance with 1990 pilot spawn-on-kelp fishery, related training, planning for commercial-scale production.

Fisheries and Oceans Canada - Basic research: Coordination of *in situ* and laboratory aspects on the Development of Methods to Assess the Effects of Salmon Farms on Herring Eggs and Larvae.

Ministry of Agriculture and Fisheries - Basic research: The Utilization of Wild Feed by Impounded Salmon.

Heiltsuk Tribal Council. - Technical assistance with the 1988 roe-on-kelp season. Technical improvements significantly increased the economic return from the Council's licence by means of yield and quality improvements and a decrease by half of the production and processing time.

Heiltsuk Tribal Council. - Feasibility study and marketing plan for the re-opening of clam fisheries in the Bella Bella area.

Heiltsuk Tribal Council. - Preparation of a fishery resource co-management proposal and plan for the Bella Bella area. Development of a plan and negotiations with DFO.

MAY/86 TO JAN/88: Principal, McKay, Gillis, Rivard & Co. Ltd. Principal and Oceans Intertrade Ltd.
Chehalis Band Council. - Preparation of a five-year enhancement and fishery development plan. Re-negotiation of the Band's CEDP contract.
Heiltsuk Tribal Council. - Preparation of a diversification plan for the Council's new fish processing facility. Stock availability, fishing, processing and marketing aspects were addressed.
Sto:Lo Tribal Council. - Preparation of co-management plan and proposal and plan for the lower Fraser watershed. Negotiations for project funding.
Sto:Lo Tribal Council. - Preparation and presentation of evidence at court hearings regarding historic fishing rights and practices.
Kwakiutl District Council. - Phase I. District-wide marine resource inventory. Preparations for Phase II.
Technology Resources Inc. - Salmonid habitat assessment work for a major supermarket site in Coquitlam. Recommendations were made regarding the protection and enhancement of coho habitat.
Bamfield Sport Fishing and Resorts Ltd. - Feasibility study and project design for the enhancement of late-run coho in the Bamfield area.
Chehalis Band Council. - Planning aspects of the Band's 1987 terminal chum salmon fishery, including fishing, transportation, processing and marketing aspects.
Sto:Lo Tribal Council. - Preparation of a ministerial submission paper regarding the August, 1986 DFO/Sto:Lo fishery confrontations.
Kwakiutl Band, Fort Rupert. - Marine resources aspects of an economic development strategy based on revenues derived from the sale of timber on Malcolm Island.
Chehalis Band Council. - Feasibility study concerning the economic utilization of Chehalis and Harrison river, and Weaver Creek surplus chum salmon stocks. Coordination of fishing, transportation, processing and marketing aspects of a 9,000 piece fishery.

SEP/83 TO MAY/86 - D.J. GILLIS & Associates, and full time student at Simon Fraser University.

Kwakiutl District Council. Preparation & presentation of evidence at the West Coast Offshore Environmental Review Panel hearings. The potential impacts of oil exploration and production activity on District resources were determined. Specific aspects addressed included:

1. Potential impact of hydrocarbon release on Native resources under a variety of scenarios, with emphasis on salmon and herring.
2. Physical factors influencing the movement of spilled oils in marine environments.
3. Ageing of spilled oils, with emphasis on biodegradation.

Results were presented in written and verbal formats at the hearings.

Nisga'a Tribal Council. - Preparation and presentation of evidence at the West Coast Offshore Environmental Review Panel hearings.

Kwakiutl District Council. - An economic feasibility study was conducted in collaboration with associates. Development opportunities in forestry, marine resources and arts marketing were investigated and reported.

Nimkish Indian Band. - An impact assessment was conducted regarding the loss of ten seine vessels to Alert Bay's economy.

1980-1982. SCHULTZ INTERNATIONAL LTD. - Marine Biologist

Stohtert Engineering. - An environmental impact assessment was prepared regarding the expansion of wood chip trans-shipment facilities located on the Fraser River near Maple Ridge.

Fisheries and Oceans Canada. - A report was prepared concerning inventory, habitat and enhancement aspects for Fraser River watershed Chinook salmon.

Fisheries and Oceans Canada. - Supervised five and monitored one of the 1981 herring impoundment studies. The five projects examined commercial and production aspects of impounding herring to improve roe quality and yield. The results indicated strongly positive prospects for the method.

Kwakiutl District Council. - An inventory of the District's fifty most productive salmon bearing streams was conducted. Inventory, habitat quality, enhancement potential and opportunities, and other aspects were examined and reported.

British Silback Mines and Westmin Resources. Participated in the initiation of two impact assessments. Coordination of initial field surveys.

1976-1979. NIMPKISH INDIAN BAND. - Marine Biologist. Prepared proposals and completed studies on the ocean ranching of Nimkish River chum salmon. The work included feasibility, project design and conceptual engineering. As interim Assistant Band Manager, managed the operation of the net loft,

shipyard, cafeteria, wet bar, oyster-culture project, and salmonid enhancement activity in the Nimpkish Valley. In consultation with Fisheries and Oceans, designed the salmon enhancement projects for the Nimpkish Watershed. Habitat inventory, enumeration, hatchery design, siting, construction, and lake-fertilization base-line studies were important constituents in this continuing work. Pilot-scale salmon aquaculture program as designed and initiated. Hatchery and impoundment facilities were designed and constructed. Coho salmon were hatched and reared to market size. A training program was initiated for employees. This was the first dedicated aquaculture training program in B.C. designed and conducted a three-year study on oyster-culture in Booker Lagoon, near Alert Bay. Simple growth experiments were followed by economic scale growing.

Fisheries and Oceans Canada. - Research was conducted into the effects of impoundment on the quality of herring produced for the food industry. The effects of pumping, handling and transportation were also assessed.

1975-1976. NORTH ISLAND COLLEGE. - Coordinator. As the first coordinator for the region, initiated college services for Port Hardy, Port McNeill, Port Alice, Holberg, Woss, Nimpkish, Kokish and Coal Harbour. Fifty-five courses were organized and offered and were attended by 550 students in the first year of operation. Courses of study included undergraduate level academic, industrial training, and community interest programs.

1971-1975. UTAH MINES, PORT HARDY. - Marine Biologist. Participated in a large-scale program to identify the effects of mine tailings on the physical, chemical and biological nature of the Quatsino Inlet system. An intensive and extensive sampling and analytical program was conducted. Results were reported quarterly.

1967-1968. UNIVERSITY OF MANITOBA. - Senior Laboratory instructor. The first year biology laboratory program was coordinated and taught. Forty lab instructors were interviewed and hired. Lab manuals were written and printed. The studies of 850 students were supervised. All teaching and laboratory exams were conducted by using then-innovative closed circuit television.

1964-1966. SHELL CANADA LTD. - Technician. While an undergraduate, worked as a technician on survey vessels during initial seismic surveys of the B.C. Coast. Duties - maintenance and deployment of seismic instrumentation and navigation using loran.

Additional Interests – Woodworking, Photography, Digital graphics, Sailing