

Wilbert A. Clemens fonds

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Fonds Description

Wilbert A. Clemens fonds. - 1910-1963, predominant 1922-1963

80 cm of textual records.

12 photographs : b&w.

3 blueprints.

Biographical Sketch

Wilbert Amie Clemens was born in Millbank, Ontario, in 1887. He attended the University of Toronto between 1908 and 1913, receiving a B.A. in Biology, with honours, in 1912 and an M.A. the following year. In 1915, Clemens received his Ph.D. from Cornell University. He was an instructor in the Department of Zoology at the University of Maine, 1915-1916. Later Clemens became a lecturer and Assistant Professor in Biology and Limnobiology at the University of Toronto between 1916 and 1924. As part of his educational training, Clemens conducted investigations for the Biological Board of Canada at Georgian Bay (1912), the New York State Conservation Commission (1916), the Atlantic Biological Station, St. Andrews, New Brunswick (1918), the Biological Board of Canada at Lake Erie (1920), and Lake Nipigon (1921-1923). In 1924 Clemens became the Director of the Pacific Biological Station of the Biological Board of Canada. He remained in that position until 1940 when he became Head of the Department of Zoology at the University of British Columbia. Between 1935 and 1948, Clemens was in charge of investigations at Okanagan Lake, Teslin Lake, and Paul Lake. Retiring in 1952, Clemens remained at UBC as a Professor Emeritus until he died in 1964. He continued as a Special Lecturer in the Department of Zoology until 1959 and served as Director of UBC's Institutes of Oceanography and Fisheries between 1954 and 1957. Between 1959 and 1964, he had various appointments as a Special Research Associate for the Department of Zoology and the Institute of Fisheries. Clemens was a member of numerous professional societies in North America, including the Royal Society of Canada (fellow and section President), the American Association for the Advancement of Science (fellow and member of the Executive Committee of the Western Division 1949-1952), the Fisheries Research Board of Canada (executive member), the Canadian Committee Freshwater Fisheries Research (President), and the Royal Commission on Fisheries, Saskatchewan (Chairman). A founding member of the Vancouver Public Aquarium, Clemens was also Vice-President of its association. Dr. Clemens received a Coronation Medal in 1953 in recognition of his scientific achievements.

Custodial History

After Clemens left the Department of Zoology, the Department maintained his papers until they were transferred to the University of British Columbia Archives in July 2003.

Scope and Content

The fonds consist of records relating to Clemen's research and his positions with the Pacific Biological Station of the Biological Board of Canada and the University of British Columbia and material relating to the research activities of other scholars in the areas of oceanography, fisheries and zoology. Fonds has been arranged into the following series: Academic papers (1923-1963), Correspondence (1932-1962), Course materials ([1939-1952]), and Subject files (1910-1960).

Notes

Researchers are strongly advised to check with the University Archives regarding permission to publish or otherwise use materials from this fonds.

File list available.

No further accruals expected.

Series Descriptions

Academic papers. - 1923-1963.

49 cm of textual records.

Series consists of manuscript and draft papers by Clemens and other scholars, relating to oceanography, fisheries, and zoology.

Correspondence. - 1932-1962.

5 cm textual records.

3 photographs : b&w.

Series consists of correspondence relating mainly to Clemens's research, publications, and positions with the Biological Board of Canada (Fisheries Research Board of Canada) and the University of British Columbia.

Course materials. - [1939-1952].

13 cm of textual records.

Series consists of notes, reports, clippings, manuscripts, publications and drawings used by Clemens to teach Zoology 301, 408 and 501.

Subject files. - 1910-1960.

13 cm of textual records.

9 photographs : b&w.

3 blueprints.

Series consists of subject files of notes, correspondence, papers, reports, clippings, publications, photographs, blueprints, and other material relating to areas of Clemens' research and his involvement in various projects and organizations. Includes material relating to his involvement with the Conservation Association of Canada, and his work at the University of British Columbia and as a Consultant to Staff for the International Pacific Salmon Commission.

File List

Box 1

ACADEMIC PAPERS

- 1-1 Miscellaneous MSS: File A [1931-1952]
The Skeena River and its salmon production - W.A. Clemens
Fresh water fish of B.C. and problems in conservation - W.A. Clemens
Science and our Pacific Coast fisheries - W.A. Clemens
The work of the Biological Board of Canada on the Pacific Coast - [unknown]
The life of David Starr Jordan - W.A. Clemens
Growth - W.A. Clemens
Population versus resources - A.G. Huntsman
Wandering versus homing in salmon - A.G. Huntsman
Effects of thyroid hormone on the metabolism of goldfish - W.S. Hoar
Fabulous wealth in the waters of Departure Bay - [unknown]
- 1-2 Miscellaneous MSS: File C [1936-1949]
Bibliography of nutrition of artificially reared salmonide - H.H. MacKay
How may the theory...that there is a west-to-east migration of pilchards to the westcoast of Vancouver Island be tested... - H.H. MacKay
What can be done to determine what factors influence the northward migration of pilchards to the west coast of Vancouver Island each year - H.H. MacKay
Nanaimo River investigation - C.M. Mottley and G.C. Carl
A synopsis of the investigations at Cultus Lake, British Columbia, conducted by the Biological Board of Canada into the life history and propagation of sockeye salmon, 1924-1937 - R.E. Foerster and W.E. Ricker
Methods of measuring and evaluating the productivity of lakes and streams - W.A. Clemens
Progress in knowledge of causes of variations in abundance of North American Atlantic fisheries - [unknown]
Memorandum re: training additional students to fish biology - D.H. Sutherland
The fisheries of British Columbia and their conservation - W.A. Clemens
Report on relative efficiencies of various types of fishing gear with special reference to Kamloops trout - [P.A. Larkin]

- 1-3/4 Miscellaneous MSS: File D [1936-1940]
Scientific investigations and conservation of wild life in British Columbia - W.A. Clemens
The Pilchard - W.A. Clemens
The Spawning of the Herring - W.A. Clemens
Comprehensive research for fish culture - [unknown]
Inheritance of sex in the California oyster (*Ostrea lurida*) - W.R. Coe
Predicting sockeye salmon runs in British Columbia and a statement regarding the 1938 season - W.A. Clemens
Statement regarding assistance given to the Biological Board of Canada through the University of B.C. - W.A. Clemens
How fast do salmon travel? - W.A. Clemens
A Preliminary study of the genus *Prosopium*, with special reference to *Prosopium Williamsoni* (Girard) - J. Laurence McHugh
Report on the preliminary clam survey of the area from Dodd Narrows to Sydney, B.C., December 1937 - [unknown]
Report re: Sixth Pacific Science Congress - W.A. Clemens
The Herring and its ways - Albert L. Tester
Some Fisheries Research - W.A. Clemens
- 1-5 Miscellaneous MSS: File E [1930-1938]
The predator and coarse fish problem in relation to fish culture - W.A. Clemens
The migration of fishes - W.A. Clemens
The blackfish - *Globiocephalu Seammonii*, Cope. - [unknown]
The Orca, or killer - [unknown]
Tagging of Pacific salmon in B.C. waters - [unknown]
List of marine mammals - [unknown]
A study of some biological problems in Iowa Lakes - [Prescott]
The Kokanee - [unknown]
The Red Salamander (*Ensatina eschscholtzi* Gray) on Vancouver Island - G.C. Carl
Some ecological conditions in a brackish lagoon - G.C. Carl
The fisheries research programme of the Fisheries Research Board of Canada on the Pacific coast - W.A. Clemens
Order Heterosomata (flat fish) - [unknown]
Saving the poor fish - G.C. Carl
Report on the 1929 Expedition against Sea Lions on the coast of British Columbia - [unknown]
Parasitic Copipods, Van. Is. Region - [unknown]

- Problems in the conservation of game and fur-bearing mammals - J.R. Dymond
Migrations of Fish - types, factors involved, measurement of and significance for conservation - [unknown]
- 1-6 Miscellaneous MSS: File F [1935-1949]
Usefulness of electrical fishing techniques - F.F. Elson
History and use of fish poisons in U.S.A. - V.E.F. Salman
Use of poisons for the control of undesirable fishes, in Canadian freshwaters - M.W. Smith
Utilization of phosphorus in trout as studied by injection of radioactive phosphorus - F.R. Hayes and L.H. Jodrey
Measuring fish catches - J.L. Hart
Assays for Thiamine, Riboflavin and Vitamin A in some hatchery foods for trout - R.A. MacLeod
Rates of fishing and natural mortality from the data of marking experiments - Michael Graham
Modern theory of exploiting a fishery and application to north sea trawling - Michael Graham
Piscatorials (Radio talk, Nov. 7, 1970)
A summary of information on the bass of Spider Lake - Albert L. Tester
- 1-7 Miscellaneous MSS: File G [1935-1940]
More game fish (Radio broadcast) - W.A. Clemens
Stanley Park Aquarium - W.A. Clemens
Migrations of fish - W.A. Clemens
Tidal circulation in Juan de Fuca Strait - J.P. Tully
The effect of reduction of predaceous fish populations upon the survival of young sockeye salmon (*Oncorhynchus nerka*) at Cultus Lake, B.C. - R.E. Foerster and W.E. Ricker
Furunculosis in British waters - Editor of The Fishing News, Oct. 26, 1935
Examine questions on fish - [unknown]
Observations on the behaviour of adult sockeye salmon during the spawning migration - W.E. Ricker and A. Robertson
Scale counting methods and their significance, in relation to certain trout - F. Neave
Progress in knowledge of causes of variations in abundance of North American Atlantic fisheries - [unknown]

Box 2

- 2-1 Miscellaneous MSS: File H [1932-1947]
The commercial shrimps of British Columbia - A.A. Berkeley
A review of the herring investigation with comments on the present herring situation - A.L. Tester
A cheap supply of warm water for winter hatching and feeding of speckled trout - B.W. Taylor
Who harvests the Pacific? - Dr. J.L. Kask
Conservation - its meaning and scope - W.A. Clemens
The effect of salinity on the development of the eggs of the lemon sole, *paophrys vetutus* (Secord) - F.H.C. Taylor
A preliminary report on the Tullibee investigation in Great Slave Lake, 1946 - W.A. Kennedy
Summary report by Dr. Carter on his mission to Japan, July-December, 1946 - Neal M. Carter
The consumption of young sockeye salmon by Predaceous fish - W.E. Ricker
The artificial culture of tissues and whole organs - [unknown]
Revised list of bulletins and leaflets on Ohio fishes and related subjects - [unknown]
Statement re: W.A. Clemens by Dr. Hart - [unknown]
- 2-2 Miscellaneous MSS: File I [1940-1948]
The statistical analysis of Creel Census data - C.M. Mottley
Report on the Cowichan River investigation - Ferris Neave
New evidence on the passability of Hell's Gate to salmon, 1915-1944 - W.E. Ricker
The Hell's Gate blockade and the salmon - W.F. Thompson
Hell's Gate blockade and the salmon. Section II. - W.F. Thompson
Fisheries research in the post-war period - W.A. Clemens
- 2-3 Miscellaneous MSS: File J [1941-1949]
Final report on the 1945-46 and 1946-47 surveys of Lake Manitoba - W.A. Kennedy
Salmon migration - [unknown]
Canadian uses of electrical fish shocking devices - P.A. Larkin
Odontosyllis at Bermuda and Lunar periodicity - A.G. Huntsman
Periodic fluctuations in the numbers of animals - C.D. Fowle
Conservation and scientific forecast - R.C. Murphy
The departments of Zoology in the universities of Canada and problems in

- the teaching of zoology - W.A. Clemens
Scientific research - C.J. Mackenzie
- 2-4 Miscellaneous MSS: File K [1935-1937]
The sea as nature's laboratory - W.A. Clemens and N.M. Carter
Distribution of some Cladocera and Copipods in B.C. - G.C. Carl
Trout investigation in British Columbia - W.A. Clemens
Organization of trout work in B.C. - [unknown]
Statement prepared by Dr. Mottley in regard to the appointment of a
conservation officer for the Cowichan River system - C.M. Mottley
Nanaimo River investigation - [unknown]
Relation of birds to fish production - W.A. Clemens
The sea as nature's storehouse of food materials - W.A. Clemens
Marine fish of B.C. waters - [unknown]
Red "Water-blood" in B.C. waters - W.A. Clemens
Nanaimo's ocean of blood - [unknown]
Conservation problems in the ling cod fishery - G.V. Wilby
An ecological study of four interior lakes of B.C. in relation to the coarse fish
problem - Craig MacPhee
- 2-5 Miscellaneous MSS: File L [1944-1948]
Hell's gate and the sockeye - W.E. Rickers
Canadian wildlife personnel - list of men available for work in fisheries and
other wildlife projects in Canada, 1944
Game fish culture and some problems related thereto - W.A. Clemens
An interim report on an experiment to introduce Atlantic lobsters into
Canadian Pacific coast waters - J.R. Adams
Insects of trout and non-trout streams in central southern Ontario - F.P. Ide
and F.T. Knapp
The relation between natural food available and the growth and production
of lake trout - F.E.J. Fry and R.R. Tasker
Temperature relations of salmonoids - F.E.J. Fry
The determination of the maximum yield of the Lake Ontario whitefish
fishery - F.E.J. Fry and E.J. Hamley
The value of British Columbia sport fish as a natural resource - W.A. Clemens
Problems of the game resources of British Columbia - [Committee chaired by
W.A. Clemens]
- 2-6 Miscellaneous MSS: File M [ca. 1935-1947]
Scientific fish stories - W.A. Clemens

- Sea serpents - W.A. Clemens
The relation of the universities to researches in the conservation of the fish and wildlife resources of Canada - W.A. Clemens
Game fish problems in British Columbia - W.A. Clemens
Conservation of Canada's Pacific fisheries - W.A. Clemens
Fisheries Research Board of Canada - Talk to Fisheries officers - W.A. Clemens
- 2-7 Miscellaneous MSS: File N 1941-[195-]
Cycle of life in the sea - W.A. Clemens
Sea shore life - W.A. Clemens
Conservation of the renewable natural resources of British Columbia - W.A. Clemens
Report of Committee on Hydrobiology and fish culture - James W. Moffett
The flow of life - W.A. Clemens
- Box 3
- 3-1/2 Miscellaneous MSS: File O 1932-1953
The Emperor Penguins - N.J. Berrill
Species of penguins - [unknown]
Report on the investigation of Albacore, 1949 - J.L. Hart
Report on the 1949 Albacore fishery - J.M. Partlo
Drawings: Fish lifting device - [unknown]
The control of stream pollution in British Columbia - N.J. Goode
The bark-beetle problem in Douglas Fir management in the interior - K. Graham
Some difficulties associated with taxonomy of Ciscoes (Leucichthys) - J.J. Keleher
Estimation of herring population size by means of echo-sounder tracings and its application to herring research - Alan S. Hourston
The implications of the absence of the 1952-53 herring fishery on herring research - J.C. Stevenson
Circular letter to Public Bodies interested in the Faculty of Arts and Science, 1932 - [unknown]
Statement regarding the assistance given to the Biological Board of Canada by the Dept. of Bacteriology of the University of B.C. - W.A. Clemens
Report of the FAO Fisheries Conference, February 1948 - [unknown]
Columbia Panels - At U.B.C. in 1954 - [unknown]

- Twelfth International Limnological Congress - J.R. Dymond
Composition and Preparation of Pearl Essence - [unknown]
- 3-3/4 Miscellaneous MSS: File P 1923, 1948-1956
Rabies in Ontario - C.D. Fowle
The Skeena River Sockeye Salmon Problem - W.A. Clemens
Um Caso de Mortandade de Peixes e Sua Sausa - Herman Kleerkoper
The Future of the Humanities - J.P. Corbett
Nutrient Studies in Lakes - F.R. Hayes
Relation of Fraser Outflow to Fish - A.G. Huntsman
These Peculiar Penguins - Frank L. Beebe
A Preliminary report on the Food and the Enemies of the Young Pacific
Salmon in Fresh Water - R. Earle Foerster
The Work of the Fisheries Research Board - A.G. Huntsman
Carbon Dioxide Asphyxiation of Some British Columbia Fresh-water Fishes -
II Results for 1951 - Edgar C. Black
Appendix "A" - Physiology of Fishes - Edgar C. Black
The Role of Scientists in Liberal Education - John A. Irving
Biological Oceanography - W.A. Clemens
Fish Hatcheries and Research - Dr. Nursall, University of Alberta
- 3-5 Miscellaneous MSS: File P -- Zoography in the Pacific 1953
Distributional Provinces of Marine Bryozoa in the Indo-Pacific region -
Yaichiro Okada and Shizuo Mawatari
The Nature and Evolution of the Hawaiian Shallow-water Fish Fauna -
William A. Gosline
Some Problems on Marine Biogeographical Micro-Provinces Surrounding
Japan - Tadashige Habe, Tokubei Kuroda and Denzaburo Miyadi
Distribution of Marine Fishes in South East Asian Waters - J.D.F. Hardenberg
Marine Provinces of the Indo-West Pacific - A.W.B. Powell
Some Problems in Marine Biogeographical Micro-Provinces Surrounding
Japan - Tadashige Habe, Tokubei Kuroda and Denzaburo Miyadi
The Zoogeographical Distribution of the Indo-Pacific Littoral Holothurioidea
- Jose S. Domantay
The Marine Mollusca of the Kermadec Islands in relation to Molluscan
Faunas in the South West Pacific - R.K. Dell
A New Approach to the Distribution of Fishes in the Indo-West-Pacific Area -
Leonard F. Schultz
Deep-water Biological Provinces of the Indo-Pacific - Rolf L. Bolin

- 3-6 Acad. Papers & Documents -- Misc. [193-]
Key to the Genera and Species of Osmeridae - [unknown]
[Various untitled] - [unknown]
- 3-7 Conservation 1941-1942
Conservation - Its Meaning and Scope - W.A. Clemens
The Conservation of the Renewable Natural Resources of British Columbia -
W.A. Clemens
The Conservation in British Columbia of Renewable Natural Resources -
W.A. Clemens
Fisheries Research in the Post-War Period - W.A. Clemens Conservation and
Rehabilitation for British Columbia - [Unnamed Committee]
The University of British Columbia Conservation Series: Forests - Thomas G.
Wright
The Fishery Resources of British Columbia and their Conservations - [W.A.
Clemens]
- 3-8 A Contribution to the Biology of the Fishes of the San Juan Region,
Washington / A Survey of the Fishes of the San Juan Region, Washington:
Notes / draft papers 1950-1959
- Box 4
- 4-1 Contribution to the Biology of the Fishes of the San Juan Island Region,
Washington by W.A. Clemens and Craig MacPhee- Unrevised Copy 1950-
1959
- 4-2 Contribution to the Biology of the Fishes of the San Juan Island Region,
Washington - Revised copy 1959
- 4-3 Descriptions of Four Immature Fishes from San Juan Island, Washington -
Quick Carlson 1959
- 4-4 An Ecological Study of the Fish Population in Three Tide Pools on San Juan
Island, Washington - Douglas A. James 1950
- 4-5 Food of Young Fish, San Juan Islands Area: Notes / draft 1950
- 4-6 [Index to unknown work, notes] n.d.

- 4-7 Notes on Fishes for Manuscript 1930-1943
- 4-8 Oceanographical Investigations off the Pacific Coast of Canada -- Methods Employed - Neal M. Carter and John P. Tully, Pacific Biological Station [193-]
- 4-9 Spring Salmon, New Zealand: Data 1952
- 4-10/11 MSS Papers and Correspondence 1959-1963
 - Ectology: A Future Science - A.G. Huntsman
 - Studies of the Structure and Production of Fish Populations - J.E. Paloheimo and L.M. Dickie
 - Development of Oceanographic Studies in the Latin-American Countries of the Pacific Coast - Parmenio Yanez
 - Production in Bodies of Water - [W.A. Clemens?]
 - References on the Crossopterygii and Dipnoi - Compiled by R.R. Miller

CORRESPONDENCE

- 4-12/13 Miscellaneous Correspondence 1932-1962
- UBC 75.2/1 Embrotoea - showing liberation of young - Black and white photograph ; 10 x 7 cm. [193-]. sp
- UBC 75.2/2 Ling cod - Black and white photograph ; 16 x 11.5 cm. 1931. p
- UBC 75.2/3 Ling cod - Black and white photograph ; 13 x 8.5 cm. [193-]. p
- 4-14 Personal Correspondence 1938-1940

Box 5

COURSE MATERIAL

- 5-1 Zoology 301 - Comparative Morphology (Professor Spencer's notes from Dr. F.'s Lectures [191-?])
- 5-2 Zoology 301 - Entoprocta, Bryozoa, Echiurida, Brachiopoda, Phoronida, Dipunculida [ca. 1947]

- 5-3 Zoology 301 - Mollusca [194-]
- 5-4 Zoology 301 - Phylum Annulata 1939-1948
- 5-5/6 Zoology 301 - Platyhelmenthes, Nemathelmenthes [194-?]
- 5-7 Zoology 301 - Porefera, Coelenterata, Ctenophora [194-?]
- 5-8 Zoology 301 - Protozoa 1952
- 5-9/10 Zoology 408 / Instructions for Preparation of Theses, Reports, etc. 1910-1954
- 5-11 Zoology 501 - Crustacea [194-]
- 5-12 Zoology 501 - Introduction [195-]
- 5-13 Zoology 501 - D. Lilford - Ecol Classification - History of Oceanography n.d.
- 5-14 Zoology 501 - Miscellaneous [194-]

- Box 6

- 6-1 Zoology 501 - Pelecypoda [ca. 1950]

SUBJECT FILES

- 6-2 Applications -- Professor of Fisheries 1944-1945
- 6-3 Biological Sciences - Official Opening 1950
- 6-4 Chlorination [of Vancouver Water Supply] 1943-1945
- 6-5 Conservation Association of Canada 1952-1953
- 6-6 Cybernetics, Communication and Publicity 1945-1958
- 6-7 Fishes from Hudson Bay / Crustacea from Alaska [ca. 1947]-1951

- 6-8 History of Limnology and Fresh Water Fisheries Research in Canada 1948-1952
- 6-9 Hydro Work, Lake Ontario 1922
- UBC 75.4/1 Submarine cable data. General view of stern of Tug Jos. L. Russell - Black and white photograph ; 13.5 x 8 cm. October 3, 1922. p
- UBC 75.4/2 Submarine cable data. View taken at Sounding No. 5. Dr. Clemens ascertaining oxygen content of water - Black and white photograph ; 13.5 x 8 cm. October 3, 1922. p
- UBC 75.4/3 Submarine cable data. Soundings and dredgings, Lake Ontario. Close up view of apparatus - Black and white photograph ; 13.5 x 8 cm. October 3, 1922. p
- 6-10 Marine Fish Bulletin Material [193-]
- UBC 75.4/4 [Fish larvae] - Black and white photograph ; 25 x 19 cm. [193-]. p
- UBC 75.4/5 *Nautichthys oculafasciatus* (Girard) - Black and white photograph ; 25 x 18 cm. [193-]. p
- UBC 75.4/6 *Nematonurus cyclolepis*, x2, from the type - Black and white photograph ; 25 x 20 cm. [193-]. p
- UBC 75.4/7 *Macrourus acroleps* - Black and white photograph ; 25 x 20 cm. [193-]. p
- UBC 75.4/8 *Chalinura tilitera* - Black and white photograph ; 24 x 20 cm. [193-]. p
- 6-11 Nass River 1925-1941
- 6-12 Parasitic copepods, Vancouver Island region 1928
- 6-13/14 Paul Lake Material 1946-1955
- 6-15 Peace River Fishes and Misc. Notes and Correspondence - Dymond, Hubbs, Schultz, etc. 1934-1942, 1960

UBC 75.4/9 *Trachypterus rex-salmonorum*, Gonzales Bay - Black and white
photograph ; 9.5 x 7 cm. May 11, 1942. sp

6-16 Salmon Commission 1952

6-17 "Ground cover composition of 8 Yukon sites" Table n.d.