

## **VOLUME 1**

Family Petromyzontidae (Lampreys) 1.1  
through  
Family Syngnathidae (Pipefishes) 31.1

# **GEOGRAPHICAL DISTRIBUTION OF PUGET SOUND FISHES: MAPS AND DATA SOURCE SHEETS**

Bruce S. Miller and Steven F. Borton

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Studies supported by  
Washington Sea Grant Program and  
Washington State Department of Ecology

September 1980



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Bruce S. Miller

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## GEOGRAPHICAL DISTRIBUTION OF PUGET SOUND FISHES:

### MAPS AND DATA SOURCE SHEETS

#### INTRODUCTION

The accompanying maps and data source sheets constitute a comprehensive compilation of records of Puget Sound fish species through 1973. Most records were originally compiled for the *Checklist for Puget Sound Fishes* (DeLacy, Miller, and Borton 1972).

All records were from five main sources: The literature; catalogued entries in the University of Washington collection of fishes; log records from the University of Washington Friday Harbor Laboratories; boat log records from the University of Washington College of Fisheries; and miscellaneous records, the bulk of which were from logs of state, federal, and University of Washington research projects. Records are arranged on the data source sheets in columns under the aforementioned headings. This method facilitated compilation of the records and provides the best way to add records in the future. A data source sheet key is provided to interpret individual entries. We have tried to avoid any duplication of records and have attempted to avoid records of questionable validity.

The Puget Sound region (Figure 1), for faunistic purposes, is defined as an area south and east of the United States-Canada international boundary line and east of longitude 123°28' in the Strait of Juan de Fuca. The further division of the Puget Sound region into 12 areas is based in part on oceanographic conditions but also reflects an arbitrary and expedient definition of areas with some attention to the intensity of the collecting efforts. A dot on the map of a particular species represents one record of that species having been caught or observed at that location. For example, a dot may represent a single fish caught by hook and line or 500 fish caught in one haul of an otter trawl. There is a corresponding data source sheet entry for every dot, but there may not be a dot for every data source sheet entry since once an area was filled with dots no more were added.

A wide assortment of gear has been employed in the collection of fish represented here (beach seines, bottom trawls, gillnets, purse seines, traps, spearfishing, hook and line, poisoning, etc.). There is also a great variation in the number of fish caught per record. It would not be appropriate to include such information as number of fish caught without also including other important information such as gear type, net mesh size, depth, bottom type, date, and time of day. Information such as numbers of fish caught can easily be misinterpreted without considering all other information about the collection. Including all pertinent information would not be appropriate considering the time and size limitations and goals of this project. The information is designed to provide an extensive source listing for all collections of fish in Puget Sound. People having a need for collection information or biological data such as length and weight should obtain the original source.

The relative sampling effort has varied greatly in the various areas. In general, lower Georgia Strait, the inner Strait of Juan de Fuca, Admiralty Inlet, and Colvos Passage have been sampled less intensively than other areas. The map of an abundant species, such as the English sole (*Parophrys vetulus*) which is caught by most types of gear and found in a wide depth range, indicates areas most intensively fished. Large blank areas on a map cannot be interpreted to mean that a particular species is not found in those areas. It only means that we have, as yet, no records for that species in those areas. This is often the result of lack of sampling effort for those areas or for that particular species. It is evident, however, for some species that they are more abundant in certain areas of Puget Sound; for example, the blackfin sculpin (*Malacocottus kinaidii*) is most abundant in Hood Canal. Further study of original catch data reveals that the blackfin sculpin is most often caught in deep trawls in areas of dense shrimp populations, such as are known to occur in Hood Canal.



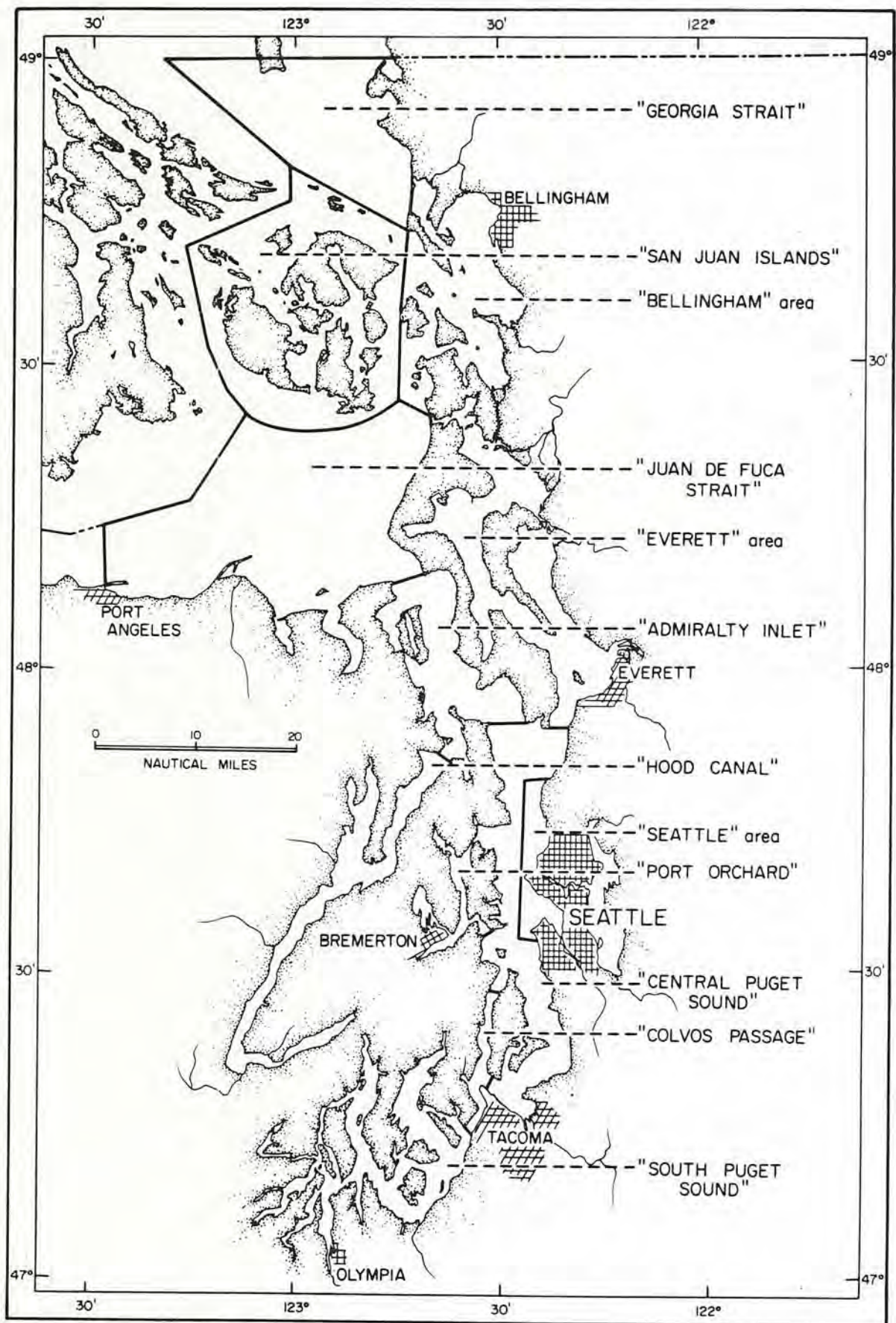


Figure 1. The 12 sampling areas used to group reports of fish occurrence in Puget Sound.



A phylogenetic order of families and species is used in the maps and source sheets (see the List of Families and Species). This order follows the standard set by the American Fisheries Society (1970). We have used Hart (1973) as our reference in those cases where the American Fisheries Society does not list a name. A decimal paging system is used to facilitate the addition of new records and species during future updating. Each family is indicated by the number preceding the decimal point. Species are listed in alphabetical order within a given family and paged consecutively by numbers following the decimal points. Source sheets follow each map and are paged separately by species.

The bibliography is of published records only. A "bibliography" or explanation of source sheet categories (p. xvi) is provided for locating or citing sources.

The authors would like to emphasize that they welcome any additional information that readers may be prepared to provide. Data are stored on magnetic cards so that records may be added easily. Periodic updating of this information is contemplated. It is our hope that work may soon begin on a similar project to gather information of fish records from the outer Strait of Juan de Fuca and the Washington Coast.



# KEY TO SOURCE SHEETS

PS - Puget Sound, general  
GS - Georgia Strait  
JF - Juan de Fuca Strait  
SJ - San Juan Islands  
B - Bellingham area  
E - Everett area  
AI - Admiralty Inlet

HC - Hood Canal  
CS - Central Puget Sound  
PO - Port Orchard  
S - Seattle area  
CP - Colvos Passage  
SS - South Puget Sound

number of occurrences from this location from this source  
5-SS: (Fort Steilacoom): Girard, 1859.  
area location. specific location or locations within area

1-PS: Jordan & Starks, 1896.  
source gave location as "Puget Sound"--record is not mapped

1-CP: Jordan & Gilbert, 1882.  
record in this area, but either there was not a more specific location given by the source or two or more hauls in different locations were lumped by the source--record is not mapped unless it is the only record for that area

73-AI: (White Rock; Port Townsend; north of Olele Pt.): Evermann and Goldsborough, 1907.

This means that of these 3 Admiralty Inlet records, one was from White Rock, and one was from Port Townsend, and one was from north of Olele Pt.

If this number were 15+- then 5+ were from White Rock...etc.

If this number were 50+- (Fishing areas, etc.) then all locations mentioned (listed) would be 50+ each.

## Other information:

8-5206 A number preceding a boat log entry gives the number of occurrences in that collection or series of hauls at a certain location.

E (Gedney I.): Chapman and DeLacy 1933 (Duplicated by museum record).

No number indicates that there was a known but unmatched duplication (entry not mapped).



## EXPLANATION OF SOURCE CATEGORIES

### Published Records

See Bibliography. This includes a broad spectrum of printed material (many technical reports).

### University of Washington Museum Collection

These records are from notebooks listing the specimens preserved in the College of Fisheries Museum. The notebooks are kept in the museum.

### Friday Harbor Laboratory Log

These logs are of collections made largely in the San Juan Islands and in connection with class or research work at the University of Washington, Friday Harbor Laboratories and/or the College of Fisheries.

### University of Washington Boat Log

These logs list collections made using some of the research vessels (mainly the COMMANDO) of the College of Fisheries. Also listed are many of the class beach seine trips. The logs are available through the Dean's Office at the College of Fisheries.

### Miscellaneous Logs

This is a potpourri of any legitimate record or set of records which cannot be classified by the above categories. They range from logs of various research institutions to verified phone calls and photographs from marine scientists. The following is an alphabetized listing and explanation of the abbreviated citations of important logs in the miscellaneous category which need further explanation.

*FRI, Tyler Data Sheets, 1965.* Data sheets from a research project in Bellingham Bay conducted by the Fisheries Research Institute at the College of Fisheries.

*METRO, 1963-70.* Records from collections made by the Municipality of Metropolitan Seattle in areas near sewage treatment plants.

*NIH (date or collection number).* Records from trawl and beach seine collections made under the direction of Dr. Bruce S. Miller as part of various National Institute of Health grants.

*NMFS, COBB - (cruise or date of cruise).* Records from trawl collections of the R/V COBB made by the U.S. Department of Commerce, National Marine Fisheries Service.

*Sea Grant (date or collection number).* Records from trawl and beach seine collections made under the direction of Dr. Bruce S. Miller as part of several individual grants.

*U.W. Oceanography, 1964-67.* U.W. Oceanography, P.G. (Port Gardner) or P.O. (Port Orchard), and other variations. Records from research collections made under the direction of Dr. T. Saunders English of the University of Washington, Department of Oceanography. Most collections were made by beam trawl from the R/V HOH.

*Van Cleve, Trap, 1961-65.* Records from test collections made with a College of Fisheries automated bottom sampler under the direction of Dr. Richard Van Cleve.

*WSDF, Commercial catch comp., 1966-71.* Records compiled from commercial fishing data as part of the catch composition estimation program of the Washington State Department of Fisheries.



*WSDF, Groundfish trawl, (date).* Records from trawls made by the Washington State Department of Fisheries.

*WSDF, Gulf Georgia, 1969.* Records from trawl investigations made by the Washington State Department of Fisheries in the Gulf (Strait) of Georgia.

*WSDF, Sport Fish, 1965-70.* Records from information collected during the sport fishery boat check program of the Washington State Department of Fisheries.



# LIST OF FAMILIES AND SPECIES

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# BIBLIOGRAPHY

- Acena y Puntanilla, S. P. 1942. A new genus and three new species of digenetic trematodes from Puget Sound fishes. M.S. Thesis, Univ. Washington, Seattle.
- Allen, G. H. 1956. Migration, distribution, and movement of Puget Sound silver salmon. Ph.D. Dissertation, Univ. Washington, Seattle.
- Allen, G. H., A. C. DeLacy, and D. W. Gotshall. 1960. Quantitative sampling of marine fishes--a problem in fish behavior and fishing gear. Pages 448-511 in Waste disposal in the marine environment. Pergamon Press. [Also Univ. Washington, Coll. Fish. Contrib. 70.]
- American Fisheries Society. 1970. A list of common and scientific names of fishes from the United States and Canada. 3rd ed. Amer. Fish. Soc., Spec. Publ. 6, Washington, D.C. 150 pp.
- Anderson, R. D., and K. K. Chew. 1972. Preliminary study on the transient species of fish in Big Beef harbor. Trans. Amer. Fish. Soc. 101(4):726-729.
- Atkinson, C. E., J. H. Rose, and T. O. Duncan. 1967. Salmon on the North Pacific Ocean. Part IV. Spawning populations of North Pacific salmon. Int. N. Pac. Fish. Comm., Bull. 23:43-223.
- Batts, B. S. 1960. Further occurrence of the California pompano, *Palometa simillima* (Ayres) in Puget Sound, Washington. Copeia 1960 (2):146-147.
- Batts, B. S. 1961. Intertidal fishes as food of the common garter snake. Copeia 1961 (3):350-351.
- Bayliff, W. H. 1953. Marked salmon returns in 1952. Pages 33-38 in Puget Sound investigations. Washington State Dep. Fish., Prog. Rep. Dec. 1952-Feb. 1953.
- Bayliff, W. H. 1959. Notes on the taxonomy and distribution of certain zoarcid fishes in the northeastern Pacific. Copeia 1959 (1):78-80.
- Bean, B. A. 1899. Notes on the capture of rare fishes. Proc. U.S. Nat. Mus. 21:639-640.
- Bean, T. H. 1884. Notes on some fishes collected by James C. Swan in Washington Territory, including a new species of *Macrurus*. Proc. U.S. Nat. Mus. 6:362-364.
- Bean, T. H., and B. A. Bean. 1897. Fishes collected at Bering and Copper Islands by Nicolai A. Grebnitski and Leonhard Stejneger. Proc. U.S. Nat. Mus. 19:237-251.
- Bonham, K. 1954. Food of the dogfish, *Squalus acanthias*. Washington State Dep. Fish., Fish. Res. Paper 1(2):25-36.
- Bonham, K., and P. R. Olson. 1956. The white sea bass, *Cynoscion nobilis*, in Puget Sound. Copeia 1956 (1):64-65.
- Burke, C. V. 1930. Revision of the fishes of the family Liparidae. U.S. Nat. Mus., Bull. 150:i-xii, 1-204.
- Carter, W. R., III. 1965. Racial variations of the arrow goby, *Clevelandia ios* (Jordan and Gilbert) 1882 in Puget Sound and on the coast of Washington State. M.S. Thesis, Univ. Washington, Seattle.
- Chapman, W. M. 1942. Basking sharks on the Washington coast. Copeia 1942 (1):51.

- Chapman, W. M., and A. C. DeLacy. 1933. Notes on the fishes of the State of Washington. *Copeia* 1933 (2):102-103.
- Chapman, W. M., M. Katz, and D. W. Erickson. 1941. The races of herring in the State of Washington. Washington State Dep. Fish., Biol. Rep. 38A. 35 pp.
- Chew, K. K. 1970. Preliminary survey of macrofauna in Anderson Cove. A report prepared for Boise Cascade Properties, Inc. 43 pp.
- Chuinard, R. G. 1966. The natural history and pathology of epidermal papillomas of flathead sole, *Hippoglossoides elassodon*, from East Sound of Orcas Island, Washington. M.S. Thesis, Univ. Oregon, Eugene.
- Clemens, W. A., and G. V. Wilby. 1961. Fishes of the Pacific Coast of Canada. Fish. Res. Board Can., Bull. 68. 443 pp.
- Cobb, J. N. 1930. Pacific salmon fisheries. U.S. Bur. Fish., Rep. to Comm. Fish. 1930. Pp. 409-704. [Also Bur. Fish. Doc. 1092.]
- Collins, J. W. 1892. Report on the fisheries of the Pacific Coast of the United States. U.S. Comm. Fish and Fisheries, Rep. to Comm. 1888. Pp. 3-269.
- Cooney, R. T. 1967. Diel differences in trawl catches of some demersal fishes. M.S. Thesis, Univ. Washington, Seattle.
- Crawford, D. R. 1927. Records of rare fishes from the North Pacific during 1925. *Copeia* 1927 (160):182-184.
- Dayton, L. M. 1969. Morphological and physiological studies of the thyroid of the ratfish, *Hydrolagus colliei*. M.S. Thesis, Univ. Washington, Seattle.
- DeLacy, A. C., and W. M. Chapman. 1935. Notes on some elasmobranchs of Puget Sound, with descriptions of their egg cases. *Copeia* 1935 (2):63-67.
- DeLacy, A. C., and T. S. English. 1954. Variations in beach seine samples caused by net length and repeated hauls. *Ecology* 35(1):18-20.
- DeLacy, A. C., B. S. Miller, and S. F. Borton. 1972. Checklist of Puget Sound fishes. Washington Sea Grant Program WSG 72-3. 43 pp.
- DeLacy, A. C., and F. Neave. 1947. Migration of pink salmon in southern British Columbia and Washington in 1945. Fish. Res. Board Can., Bull. 74. [Also Washington State Dep. Fish., Biol. Rep. 47A, 11 pp.]
- DiDonato, G. 1969. The 1968 Washington trawl landings by Pacific Marine Fisheries Commission and state statistical area. Washington State Dep. Fish., Res. Div., Groundfish Data Rep., Ser. 5. 43 pp.
- el-Sayed, S. Z. 1959. Population dynamics of English sole (*Parophrys vetulus*, Girard) in Puget Sound, Washington, with special reference to the problems of sampling. Ph.D. Dissertation, Univ. Washington, Seattle.
- English, T. S. 1967. Preliminary assessment of the English sole in Port Gardner, Washington. J. Water Poll. Control Fed. 39(8):1337-1350.
- Evermann, B. W., and E. L. Goldsborough. 1907. The fishes of Alaska. U.S. Bur. Fish., Bull. 26:219-360.



- Evermann, B. W., and S. E. Meek. 1898. A report upon salmon investigations in the Columbia River Basin and elsewhere on the Pacific Coast in 1896. U.S. Fish. Comm., Bull. 17:15-84.
- Fishermen's News. 1963a. Sound gillnets take bonito. Seattle, Washington 19(1):8.
- Fishermen's News. 1963b. Unusual catch. Seattle, Washington 19(17):7.
- Fishermen's News. 1963c. Bonito. Seattle, Washington 19(19):8.
- Fishing and Hunting News. 1972a. Cutts returning to Camano Island. Seattle, Washington. July 22, 1972:2.
- Fishing and Hunting News. 1972b. Hat Island yields hefty salmon. Seattle, Washington. July 29, 1972:6.
- Fitzgerald, J. W. 1953. Puget Sound sport catch, chinooks and silvers, 1949-1952 by areas. Page 46 *in* Puget Sound investigations. Washington State Dep. Fish., Prog. Rep., Dec. 1952-Feb. 1953.
- Fowler, H. W. 1912. Notes on salmonoid and related fishes. Proc. Acad. Nat. Sci., Philadelphia 63:551-571.
- Garman, S. 1908. New Plagiostomia and Chismopnea. Harvard Coll. Bull. Mus. Comp. Zool. 51(9):251-256.
- Garman, S. 1913. The Plagiostomia (sharks, skates, and rays). Harvard Coll. Mem. Mus. Comp. Zool. 36:1-528.
- Gilbert, C. H. 1889. Description of a new species of *Bathymaster* (*B. jordani*), from Puget Sound and Alaska. Proc. U.S. Nat. Mus. 11:554.
- Gilbert, C. H. 1895. The ichthyological collections of the steamer "Albatross" during the years 1890 and 1891. U.S. Comm. Fish and Fisheries, Rep. to Comm. 1893. Pp. 393-476.
- Gilbert, C. H. 1904. Notes on fishes from the Pacific Coast of North America. Proc. California Acad. Sci., Ser. 3, 3:255-271.
- Gilbert, C. H. ; and J. C. Thompson. 1905. Notes on the fishes of Puget Sound. Proc. U.S. Nat. Mus. 28:973-987.
- Gill, T. 1863a. Descriptions of new species of Alepidosauroidae. Proc. Acad. Nat. Sci., Philadelphia 14:127-132.
- Gill, T. 1863b. On the classification of the families and genera of Squali of California. Proc. Acad. Nat. Sci., Philadelphia 14:483-501.
- Gill, T. 1865. Second contribution to the selachology of California. Proc. Acad. Nat. Sci., Philadelphia 16:147-151.
- Girard, C. 1856a. Characteristics of some cartilaginous fishes of the Pacific Coast of North America. Proc. Acad. Nat. Sci., Philadelphia 7:196-197.
- Girard, C. 1856b. Notice upon the viviparous fishes inhabiting the Pacific Coast of North America, with an enumeration of the species observed. Proc. Acad. Nat. Sci., Philadelphia 7:318-323.
- Girard, C. 1857a. Contributions to the ichthyology of the western coast of the United States, from specimens in the Museum of the Smithsonian Institution. Proc. Acad. Nat. Sci., Philadelphia 8:131-137.

- Girard, C. 1857b. Notice upon the species of the genus *Salmo*, of authors, observed chiefly in Oregon and California. Proc. Acad. Nat. Sci., Philadelphia 8:217-220.
- Girard, C. 1858. Notice upon new genera and new species of marine and freshwater fishes from western North America. Proc. Acad. Nat. Sci., Philadelphia 9:200-202.
- Girard, C. 1859. Fishes, Part IV. Pages 1-400 in Reports of explorations and surveys, to ascertain the most practicable and economical route for a railroad from the Mississippi River to the Pacific Ocean. 33rd Congress, 2nd Session House Executive Doc. 91, 11(10).
- Good, H. V. 1940. A study of an epithelial tumor of *Parophrys vetulus*. M.S. Thesis, Univ. Washington, Seattle.
- Greenfield, D. W., and R. B. Grinols. 1965. *Cyprinodon variegatus* on the Olympic Peninsula, Washington. Copeia 1965 (1):115-116.
- Greenwood, M. R. 1957. Bottom trawling exploration in the Strait of Juan de Fuca--February to March 1956. Comm. Fish. Rev. 19(3):1-10.
- Gunther, A. 1860. Catalogue of the fishes in the British Museum. Printed by order of the Trustees, London 2. 548 pp.
- Gunther, A. 1862. Catalogue of the fishes in the British Museum. Printed by order of the Trustees, London 4. 534 pp.
- Gunther, A. 1864. Catalogue of the fishes in the British Museum. Printed by order of the Trustees, London 5. 455 pp.
- Gunther, A. 1866. Catalogue of the fishes in the British Museum. Printed by order of the Trustees, London 6. 368 pp.
- Halkett, A. 1913. Checklist of the fishes of the Dominion of Canada and Newfoundland. King's Printer, Ottawa. 138 pp.
- Halstead, B. W. 1950. The capture of a wattled eel pout, *Lycodes palearis*, from Fidalgo Island, Washington, and the distributional record of this species. Copeia 1950 (4):317.
- Hanson, D. 1967. Cardiovascular dynamics and aspects of gas exchange in Chondrichthyes. Ph.D. Dissertation, Univ. Washington, Seattle.
- Harris, J. A. 1965. A comparative study of a new bottom-sampler with a Van Veen grab and an otter trawl. M.S. Thesis, Univ. Washington, Seattle.
- Hart, J. F. 1935. Cestoda from fishes of Puget Sound. Ph.D. Dissertation, Univ. Washington, Seattle.
- Hart, J. L. 1973. Pacific fishes of Canada. Fish Res. Board Can., Bull. 180:740 pp.
- Haw, F., and R. M. Buckley. 1971. Saltwater fishing in Washington. Stanley N. Jones, Seattle. 192 pp.
- Heath, H. 1910. The association of a fish with a hydroid. Biol. Bull. 19(2):73-78.
- High, W. L. 1966. Recent captures of the California pompano (*Palometa simillima*) and the sandfish (*Trichodon trichodon*) in Puget Sound. Washington State Dep. Fish., Fish. Res. Papers 2(4):53-54.
- Holland, G. A. 1969. Age, growth and mortality of races of English sole (*Parophrys vetulus*) in Puget Sound, Washington. Pac. Mar. Fish. Comm., Bull. 7:35-50.



- Horn, A. D. 1932. An ecological survey of the marine life of Long Tree Point, Skagit Bay, Puget Sound. M.S. Thesis, Univ. Washington, Seattle.
- Hubbs, C. L. 1921. The latitudinal variation in the number of vertical fin rays in *Leptocottus armatus*. Univ. Michigan Mus. Zool., Occas. Papers 94:1-7.
- Hubbs, C. L. 1926. Descriptions of new genera of cottoid fishes related to *Artedius*. Univ. Michigan Mus. Zool., Occas. Papers 170:1-18.
- Hubbs, C. L. 1928. A check-list of the marine fishes of Oregon and Washington. J. Pan-Pac. Res. Inst. 3(3):9-16.
- Hubbs, C. L.; and L. P. Schultz. 1933. Descriptions of two new American species referable to the rockfish genus *Sebastes* with notes on related species. Univ. Washington Publ. Biol. 2(2):15-44.
- Idyll, C. P. 1951. Saltwater tagging experiments on sockeye salmon (*Oncorhynchus nerka*). Ph.D. Dissertation, Univ. Washington, Seattle.
- Jamison, D. W. 1966. Comparative anatomy and histology of the olfactory apparatus of some cottid fishes. M.S. Thesis, Univ. Washington, Seattle.
- Jamison, D. S. 1970. Design of a long-term benthic, marine biological, pollution-monitoring program--evaluation of selected habitats, variables, and communities. Ph.D. Dissertation, Univ. Washington, Seattle.
- Jensen, H. M. 1953. 1952 Puget Sound reef net tagging at Bush Point. Pages 72-84 in Puget Sound investigations. Washington State Dep. Fish., Prog. Rep. March-June 1953.
- Johnson, D. R. 1952. Gillnet test drifts in Port Gardner and Port Susan. Pages 3-4 in Puget Sound investigations. Washington State Dep. Fish., Prog. Rep. July-Nov. 1952.
- Johnson, M. S. 1970. Lactate dehydrogenase variation in the crested blenny, *Anoplarchus*. M.S. Thesis, Univ. Washington, Seattle.
- Jordan, D. S. 1884. Fishes. Pages 169-682 in G. B. Goode. The fisheries and fishery industries of the United States. Sect. I. U.S. Comm. Fish and Fisheries. U.S. Government Printing Office, Washington, D.C.
- Jordan, D. S. 1885. The mountain or salmon trout of Oregon. U.S. Fish Comm., Bull. 5:310 pp.
- Jordan, D. S. 1887. The fisheries of the Pacific Coast. Pages 591-629 in G. B. Goode. The fisheries and fishery industries of the United States. Sect. II. U.S. Comm. Fish and Fisheries. U.S. Government Printing Office, Washington, D.C.
- Jordan, D. S., and C. H. Gilbert. 1881a. Description of a new species of *Nemichthys* (*Nemichthys avocetta*), from Puget Sound. Proc. U.S. Nat. Mus. 3:409-410.
- Jordan, D. S., and C. H. Gilbert. 1881b. Descriptions of two new species of flounders (*Parophrys ischyryus* and *Hippoglossoides elassodon*) from Puget Sound. Proc. U.S. Nat. Mus. 3:276-280.
- Jordan, D. S., and C. H. Gilbert. 1881c. List of the fishes of the Pacific Coast of the United States, with a table showing the distribution of the species. Proc. U.S. Nat. Mus. 3:452-458.

- Jordan, D. S., and C. H. Gilbert. 1881d. Observations on the salmon of the Pacific. Amer. Nat. 15:177-186.
- Jordan, D. S., and C. H. Gilbert. 1882a. Notes on the fishes of the Pacific Coast of the United States. Proc. U.S. Nat. Mus. 4:29-70.
- Jordan, D. S., and P. L. Jouy. 1882b. Check list of duplicates of fishes from the Pacific Coast of North America, distributed by the Smithsonian Institution in behalf of the United States National Museum. Proc. U.S. Nat. Mus. 4:1-18.
- Jordan, D. S., and E. C. Starks. 1896. The fishes of Puget Sound. Proc. California Acad. Sci., Ser. 2, 5:785-855.
- Katz, M. 1942. The herring races of Washington, with a note on the fecundity of the Seal Rock population. M.S. Thesis, Univ. Washington, Seattle.
- Kelly, T. K. 1946. The commercial fisheries of Washington. Ph.D. Dissertation, Univ. Washington, Seattle.
- Kendall, A. W., Jr. 1966. Sampling juvenile fishes on some sandy beaches of Puget Sound, Washington. M.S. Thesis, Univ. Washington, Seattle.
- Kilambi, R. V. 1965. Heterogeneity among three spawning populations of the surf smelt, *Hypomesus pretiosus* (Girard), in the State of Washington. Ph.D. Dissertation, Univ. Washington, Seattle.
- Kilambi, R. V., and A. C. DeLacy. 1967. Heterogeneity of surf smelt, *Hypomesus pretiosus* (Girard), in the State of Washington, as judged by incidence of larval *Anisakis* (Nematoda). J. Fish. Res. Board Can. 24(3):629-633.
- Kilambi, R. V., F. M. Utter, and A. C. DeLacy. 1965. Differentiation of spawning populations of the surf smelt *Hypomesus pretiosus* (Girard) by serological methods. J. Mar. Biol. Assoc. India 7(2):364-368. [Also Univ. Washington Coll. Fish. Contrib. 230.]
- Kincaid, T. 1919. An annotated list of Puget Sound fishes. Washington State Dep. Fish., F.M. Lamborn Public Printer, Olympia. 51 pp.
- Kohlruss, F. J. 1933. Studies on the morphology of some fish trematodes from Puget Sound. M.S. Thesis, Univ. Washington, Seattle.
- Leach, G. C. 1925. Artificial propagation of shad. U.S. Bur. Fish., Rep. U.S. Comm. Fish. 1924. Pp. 459-486. [Also Bur. Fish. Doc. 981.]
- Leong, C. 1967. Fecundity of surf-smelt, *Hypomesus pretiosus* (Girard), in the State of Washington. M.S. Thesis, Univ. Washington, Seattle.
- Lloyd, L. C. 1936. Some digenetic trematodes from Puget Sound fish. Ph.D. Dissertation, Univ. Washington, Seattle.
- Lord, J. K. 1866. The naturalist in Vancouver Island and British Columbia. Richard Bentley, London, 2 vol., 358 pp., 375 figs.
- McArn, G. E., R. G. Chuinard, B. S. Miller, R. E. Brooks, and S. R. Wellings. 1968. Pathology of skin tumors found on English sole and starry flounder from Puget Sound, Washington. J. Nat. Cancer Inst. 41:229-242.
- MacPhee, C., and W. A. Clemens. 1962. Fishes of the San Juan Island Archipelago, Washington. Northwest Sci. 36(2):27-38.



- Meek, S. E. 1899. Notes on a collection of cold-blooded vertebrates from the Olympic Mountains. Field Columbian Mus. Zool., Ser. Publ. 31, 1(12):225-232.
- Menasveta, D. 1958. Migration and fishing mortality of English sole (*Parophrys vetulus*) in Saratoga Passage, and adjacent waters. M.S. Thesis, Univ. Washington, Seattle.
- Miles, W. R. 1918. Experiments on the behavior of some Puget Sound shore fishes (Blenniidae). Publ. Puget Sound Biol. Sta. 2(37):79-94.
- Miller, B. S. 1965. Food and feeding studies on the adults of two species of pleuronectids (*Platichthys stellatus* and *Psettichthys melanostictus*) in East Sound, Orcas Island (Washington). M.S. Thesis, Univ. Washington, Seattle.
- Miller, B. S. 1967. Stomach contents of adult starry flounder and sand sole in East Sound, Orcas Island, Washington. J. Fish. Res. Board Can. 24(12):2515-2526.
- Miller, B. S. 1969. Life history aspects of normal and tumor-bearing flathead sole in East Sound, Orcas Island (Washington). Ph.D. Dissertation. Univ. Washington, Seattle.
- Miller, B. S. 1970. The food of flathead sole (*Hippoglossoides elassodon*) in East Sound, Orcas Island, Washington. J. Fish. Res. Board Can. 27(9):1661-1665.
- Miller, B. S. 1971a. Seahurst County Park fish survey. 18 Pages in A. J. Kohn et al. An ecological survey of Seahurst County Park. Report submitted to King County Design Commission in June 1971.
- Miller, B. S. 1971b. Inshore fish survey of Dumas Bay Park, King County, Washington. 20 pp. in D. R. Paulson et al. An ecological survey of Dumas Bay County Park. Report submitted to King County Design Commission in August 1971.
- Miller, B. S., and D. W. Greenfield. 1965. A juvenile six-gilled shark (*Hexanchus corinus*) from the San Juan Islands, Washington. J. Fish. Res. Board Can. 22(3):857-859.
- Miller, B. S., and S. R. Wellings. 1971. Epizootiology of tumors on flathead sole (*Hippoglossoides elassodon*) in East Sound, Orcas Island (Washington). Trans. Amer. Fish. Soc. 100(2):247-266.
- Miller, D. M., and G. D. Stauffer. 1967. Study of the migration and spawning distribution of the runs of chinook and coho in the Green-Duwamish River system in the fall of 1965. Univ. Washington, Fish. Res. Inst. Circ. 67-4. 21 pp.
- Norman, J. R. 1933. Notes on the flat-fishes (Heterosomata) IV. A synopsis of the genera of the subfamily Pleuronectidae. Annu. Mag. Nat. Hist., Ser. 10, 9:214-222.
- Norman, J. R. 1934. A systematic monograph of the flatfishes (Heterosomata), vol. 1. Psettodidae, Bothidae, Pleuronectidae. Brit. Mus. Nat. Hist. i-viii, 459 pp., 317 figs.
- O'Malley, H., and W. H. Rich. 1920. Migration of adult sockeye salmon in Puget Sound and Fraser River. U.S. Bur. Fish., Rep. to U.S. Comm. Fish. 1918 Append. viii. 39 pp. [Also Bur. Fish. Doc. 873.]
- Pacis, M. R. 1932. An epithelial tumor of *Parophrys vetulus*. M.S. Thesis, Univ. Washington, Seattle.
- Parr, A. E. 1926. Investigations on the Cyclopterini. Bergen Mus. Aarb. 1924-1925. Naturvidensk. raekk nr. 7:1-31.

- Patten, B. G., D. T. Rodman, and K. D. Waldron. 1965. The Pacific bonito *Sarda chiliensis* (Cuvier), in Puget Sound, Washington. California Fish and Game 51(4):298-299.
- Peden, A. E. 1966. Reexamination of two species in the stichaeid genus, *Anoplarchus*. Copeia 1966 (2):340-345.
- Powers, E. B. 1921. Experiments and observations on the behavior of marine fishes toward the hydrogen-ion concentration of the seawater in relation to their migratory movements and habitat. Publ. Puget Sound Biol. Sta. 3(57):1-22.
- Pritchard, A. L., and A. C. DeLacy. 1944. Migration of pink salmon (*Oncorhynchus gorbuscha*) in southern British Columbia and Washington in 1943. Fish. Res. Board Can., Bull. 66. [Also Washington State Dep. Fish., Biol. Rep. 44A. 23 pp.]
- Pruter, A. T., and R. Van Cleve. 1954. A preliminary study of the population of English sole (*Parophrys vetulus*), in Holmes Harbor, Washington. Washington State Dep. Fish., Fisheries Res. Papers 1(2):3-18.
- Rathbun, R. 1894. Summary of the fishery investigations conducted in the North Pacific Ocean and Bering Sea from July 1, 1888, to July 1, 1892, by the U.S. Fish Commission steamer "Albatross." U.S. Fish Comm., Bull. 12:127-201.
- Rathbun, R. 1900. A review of the fisheries in the contiguous waters of the State of Washington and British Columbia. U.S. Comm. Fish and Fisheries, Rep. to Comm. 1899. Pp. 251-350.
- Read, L. J., Jr. 1969. Aspects of nitrogen metabolism and osmoregulation in lower vertebrates with emphasis on the class Chondrichthyes. Ph.D. Dissertation, Univ. Washington, Seattle.
- Richardson, J. 1836. Fishes, Part 3, 24 pls. In Fauna Boreali-Americana; or the zoology of the northern parts of British America containing descriptions of the objects of natural history collected on the late northern land expeditions, under command of Sir John Franklin, R. N. Richard Bentley, London.
- Rosenblatt, R. H. 1964. A new gunnel, *Pholis clemensi*, from the coast of western North America. J. Fish. Res. Board Can. 21(5):933-939.
- Rosenblatt, R. H., and D. Wilkie. 1963. A redescription of the rare cottid fish, *Artedius meanyi*, new to the fauna of British Columbia. J. Fish. Res. Board Can. 20(6):1505-1511.
- Rounsefell, G. A., and E. H. Dahlgren. 1933. Tagging experiments on the Pacific herring, *Clupea pallasii*. J. Cons. 8(3):371-384.
- Salo, E. O. 1969. Final report for the period June 1, 1965-Sept. 30, 1968, estuarine ecology research project. Univ. Washington, Fish. Res. Inst.
- Schaefer, M. B. 1936. Contribution to the life history of the surf smelt (*Hypomesus pretiosus*) in Puget Sound. Washington State Dep. Fish., Biol. Rep. 35B. 45 pp.
- Schultz, L. P. 1930. Miscellaneous observations on fishes of Washington. Copeia 1930 (4):137-140.
- Schultz, L. P. 1935. The species of salmon and trout in the northwestern United States. Proc. 5th Pac. Sci. Congr. 1933. Pp. 3772-3782.



- Schultz, L. P., and W. M. Chapman. 1934. A new Osmerid fish, *Spirinchus dilatatus*, from Puget Sound. Annu. Mag. Nat. Hist., Ser. 10, 13:67-78.
- Schultz, L. P., and A. C. DeLacy. 1935-36. Fishes of the American northwest, a catalogue of the fishes of Washington and Oregon, with distributional records and a bibliography. J. Pan-Pac. Res. Inst. (five parts in five issues) 1935, 10(4):365-380; 1936, 11(1):63-78, 11(2):127-142, 11(3):211-226, 11(4):275-290. [Published as part of Mid-Pac. Mag. 48(4), 49(1), 49(2), 49(3), and 49(4), respectively.]
- Schultz, L. P., and H. A. Hanson. 1935. Salmonoid game fishes in the national forests of northwestern United States. U.S. Dep. Agric., For. Serv., Seattle. 26 pp. [Also Washington Sportsman, July 1935.]
- Schultz, L. P., J. L. Hart, and F. J. Gunderson. 1932. New records of marine west coast fishes. Copeia 1932 (2):65-68.
- Schultz, L. P., and A. D. Welander. 1935. A review of the cods of the northeastern Pacific with comparative notes on related species. Copeia 1935 (3):127-139.
- Seattle Times. 1976. Experts puzzled about shark. Seattle, Washington. October 13, 1976.
- Shelford, V. E., A. O. Weese, L. A. Rice, D. I. Rasmussen, and A. Maclean. 1935. General survey of the communities. Pages 251-332 in Some marine biotic communities of the Pacific Coast of North America. Ecol. Monogr. 5.
- Shimada, B. M. 1948. Records of lanternfish in Puget Sound. Copeia 1948 (3):227.
- Sivalingam, S. 1953. Age and growth of *Taeniotoxa lateralis*. M.S. Thesis, Univ. Washington, Seattle.
- Sjolseth, D. E. 1969. Studies of juvenile salmon in the Nooksack River system and Bellingham Bay. M.S. Thesis, Univ. Washinton, Seattle.
- Slipp, J. W. 1948a. Notes on halibut, *Hippoglossus stenolepis*, in southern Puget Sound. Tacoma Natural History Bull. 1(4):4 pp.
- Slipp, J. W. 1948b. Basking sharks in Puget Sound and Washington coastal waters. Tacoma Natural History Bull. 1(6):2-4.
- Slipp, J. W., and A. C. DeLacy. 1952. On the distribution and habits of the wattled eel-pout, *Lycodes palearis*. Copeia 1952 (3):201-203.
- Smiley, C. W. 1885. Notes upon fish and the fisheries. U.S. Fish Comm., Bull. 5:337-352.
- Smith, R. T. 1936. Report on the Puget Sound otter trawl investigations. Washington State Dep. Fish., Biol. Rep. 36B. 61 pp. [Also M.S. Thesis, Univ. Washington, Seattle, 1937.]
- Smith, R. T. 1937. Observation on the shrimp fishery in Puget Sound. Washington State Dep. Fish., Biol. Rep. 36D. 19 pp.
- Smoker, W. A. 1954. A preliminary review of salmon fishing trends on inner Puget Sound. Washington State Dep. Fish., Res. Bull. 2. 55 pp.
- Sommani, P. 1969. Growth and development of sand sole post larvae (*Psettichthys melanostictus*). M.S. Thesis, Univ. Washington, Seattle.

- Starks, E. C. 1896a. Description of a new genus and species of cottoid fish from Puget Sound. Proc. Acad. Nat. Sci., Philadelphia 47:410-412.
- Starks, E. C. 1896b. List of fishes collected at Port Ludlow, Washington. Proc. California Acad. Sci., Ser. 2, 6:549-562.
- Starks, E. C. 1911. Results of an ichthyological survey about the San Juan Islands, Washington. Ann. Carn. Mus. 7:162-213.
- Starks, E. C., and W. F. Thompson. 1911. A review of the flounders belonging to the genus *Pleuronichthys*. Proc. U.S. Nat. Mus. 38: 277-287.
- Steindachner, F. 1877. Ichthyologische Beitrage (V). Sitz. Akad. Wiss. Wien 1876, 74(1):1-190.
- Steindachner, F. 1879. Ichthyologische Beitrage (VII). Sitz. Akad. Wiss. Wien. 1878, 78(1):377-400.
- Stober, Q. J., and E. O. Salo. 1970a. Biological studies of the Kiket Island nuclear-power site. Annual report for the period September 1, 1969-August 31, 1970. Univ. Washington, Fish. Res. Inst.
- Stober, Q. J., and E. O. Salo. 1970b. Biological studies of the Kiket Island nuclear-power site. Report to the Washington State Dep. Fish. of 1970 fish and shellfish collection. Univ. Washington, Fish. Res. Inst.
- Suckley, G. 1860. Report upon the fishes collected on the survey. Pages 307-368 in Reports of explorations and surveys, to ascertain the most practicable and economical route for a railroad from the Mississippi River to the Pacific Ocean. 36th Congr., 1st Session House Executive Doc. 56, 12(2).
- Suckley, G. 1862a. Descriptions of several new species of Salmonidae from the northwest coast of America. Ann. Lyc. Nat. Hist. New York 7:1-10.
- Suckley, G. 1862b. Notices of certain new species of North American Salmonidae, chiefly in the collection of the Northwest Boundary Commission. Ann. Lyc. Nat. Hist. New York 7:306-313.
- Suckley, G. 1874. On the North American species of salmon and trout. U.S. Comm. Fish and Fisheries, Rep. Comm. 1872 and 1873. Pp. 91-160.
- Suomela, A. J. 1931. The age and growth of *Cymatogaster aggregatus* Gibbon collected in Puget Sound, Washington. M.S. Thesis, Univ. Washington, Seattle.
- Swan, J. G. 1881. The eulachon or candle-fish of the northwest coast. Proc. U.S. Nat. Mus. 3:257-264.
- Swan, J. G. 1883. Shad in Puget Sound. U.S. Fish Comm., Bull. 1882, 2:152.
- Swan, J. G. 1887. Codfish in the Pacific. U.S. Fish Comm., Bull. 6:131.
- Tanner, Z. L. 1894. Report upon the investigations of the U.S. Fish Commission steamer "Albatross" for the year ending June 30, 1892. U.S. Comm. Fish and Fisheries, Rep. to Comm. 1892. Pp. 1-64.
- Thompson, W. F., and N. L. Freeman. 1930. History of the Pacific halibut fishery. Int. Fish Comm. Rep. 5:61 pp.



- Ting, R. Y.-M. 1955. Ecology of demersal animals; problems in sampling. Ph.D. Dissertation, Univ. Washington, Seattle.
- Townsend, L. D. 1935. The variation in the meristic characters of certain Pacific flounders. M.S. Thesis, Univ. Washington, Seattle.
- Tyler, R. W. 1964. Distribution and migration of young salmon in Bellingham Bay, Washington. Univ. Washington, Fish. Res. Inst. Circ. 212. 26 pp.
- Van Cleve, R., and A. T. Pruter. 1956. Problems of sampling a Puget Sound population of English sole, *Parophrys vetulus*. Cons. Int. Explor. Mer Rapp. P.-V. 140(1):87-93.
- Walker, E. T. 1953. Records of uncommon fishes from Puget Sound. Copeia 1953 (4):239.
- Washington State Department of Fisheries. 1967. 1967 Annual Report. State Printing Plant, Olympia.
- Washington State Department of Fisheries. 1969. 1969 Annual Report. State Printing Plant, Olympia.
- Weiss, E. F., Jr. 1969. The age and growth of the marine cottid *Leptocottus armatus*. Proc. Montana Acad. Sci. 29:63-71.
- Welander, A. D., and D. L. Alverson. 1954. New and little known fishes of the Eastern Pacific. Washington State Dep. Fish., Fish. Res. Papers 1(2):1-8.
- Williams, R. W. 1959. The fishery for herring (*Clupea pallasii*) on Puget Sound. Washington State Dep. Fish., Fish. Res. Papers 2(2):5-30.
- Wisner, N. M., and J. H. Swanson. 1935. A study of the communities of a restricted area of soft bottom in San Juan Channel. Pages 333-354 in Some marine biotic communities of the Pacific Coast of North America. Ecol. Monogr. 5.
- Yap-Chiongco, J. V. 1941. *Hypomesus pretiosus*: Its development and early life history. Ph.D. Dissertation, Univ. Washington, Seattle.
- Zebold, S. L. 1970. Inter- and intraspecific comparisons of the diel distributions and the food and feeding habits of five species of demersal fishes from the Duwamish Head, Puget Sound, Washington. M.S. Thesis, Univ. Washington, Seattle.

# INDEX TO COMMON NAMES

[Family names are capitalized]

## A

56.3 alligatorfish, smooth  
14.1 American shad  
15 Anchovies  
8 Angel Sharks  
47.1 arrow goby  
59.1 arrowtooth flounder

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18 Barracudinas  
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32 Basses, Temperate  
47.3 bay goby  
31.1 bay pipefish  
57.10 Bering snailfish  
56.6 bigeye poacher  
10.1 big skate  
26.5 blackbelly eelpout  
26.3 black eelpout  
47.2 blackeye goby  
56.7 blackfin poacher  
55.23 blackfin sculpin  
40.10 black prickleback  
52.15 black rockfish  
10.2 black skate  
57.1 blacktail snailfish  
56.13 blacktip poacher  
40.8 bluebarred prickleback  
21.3 blue lanternfish  
52.17 blue rockfish  
6.1 blue shark  
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52.20 bocaccio  
55.5 bonehead sculpin  
49.1 bonito, Pacific  
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5.1 brown cat shark  
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## D

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55.31 darter sculpin  
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40.4 decorated warbonnet  
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## E

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## F

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59 Flounders, Righteye  
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55.32 grunt sculpin  
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 21.1 headlightfish, California  
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 40.2 high cockscomb

39.1 northern ronquil  
 55.17 northern sculpin  
 56.1 northern spearnose poacher

## O

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 60.1 ocean sunfish

## I

55.16 Irish lord, brown  
 55.15 Irish lord, red

## P

8.1 Pacific angel shark  
 37.1 Pacific barracuda  
 49.1 Pacific bonito  
 24.1 Pacific cod  
 9.1 Pacific electric ray  
 24.2 Pacific hake  
 59.5 Pacific halibut  
 14.2 Pacific herring  
 1.1 Pacific lamprey  
 52.2 Pacific ocean perch  
 34.1 Pacific pomfret  
 50.1 Pacific pompano  
 58.1 Pacific sanddab  
 38.1 Pacific sandfish  
 46.1 Pacific sand lance  
 14.3 Pacific sardine  
 27.1 Pacific saury  
 7.1 Pacific sleeper shark  
 57.2 Pacific spiny lumpsucker  
 55.22 Pacific staghorn sculpin  
 24.3 Pacific tomcod  
 55.1 padded sculpin  
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 29.1 king-of-the-salmon

## L

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 21 Lanternfishes  
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 54.4 lingcod  
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 41.2 longfin gunnel  
 55.21 longfin sculpin  
 17.4 longfin smelt  
 20.1 longnose lancetfish  
 10.3 longnose skate  
 54.6 longspine combfish  
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40.11 rock prickleback  
59.7 rock sole  
41.6 rockweed gunnel  
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55.6 rosytip sculpin  
52.23 rosy rockfish  
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52.1 rougheye rockfish  
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## S

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46 Sand Lances  
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27 Sauries  
55.2 scalyhead sculpin  
55 Sculpins  
35.1 seabass, white  
36.3 seaperch, striped  
2.2 sevengill shark  
14.1 shad, American  
40.5 shanny, daubed  
2-8 Sharks  
52.26 sharpchin rockfish  
55.9 sharpnose sculpin  
28.1 sheepshead minnow  
36.2 shiner perch  
26.2 shortfin eelpout  
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57.8 showy snailfish  
52.5 silvergray rockfish  
55.7 silverspotted sculpin  
36.4 silver surfperch  
2.1 sixgill shark  
10 Skates  
40.1 slender cockscomb  
59.8 slender sole  
55.30 slim sculpin  
57.7 slipskin snailfish  
17 Smelts  
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55.3 smoothhead sculpin  
57 Snailfishes, Lumpfishes  
40.6 snake prickleback  
13 Snipe Eels  
16.4 sockeye salmon  
55.14 soft sculpin  
58.2 speckled sanddab

7.2 spiny dogfish  
56.5 spinycheek starsnout  
55.12 spinyhead sculpin  
57.2 spiny lumpsucker, Pacific  
52.8 splitnose rockfish  
55.20 spotfin sculpin  
57.3 spotted snailfish  
55.22 staghorn sculpin, Pacific  
59.11 starry flounder  
10.4 starry skate  
56.4,5 starsnouts  
30 Sticklebacks  
32.1 striped bass  
36.3 striped seaperch  
52.25 stripetail rockfish  
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12 Sturgeons  
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17.2 surf smelt

## T

55.29 tadpole sculpin  
57.9 tadpole snailfish  
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3.1 thresher shark  
55.26 tidepool sculpin  
57.6 tidepool snailfish  
52.19 tiger rockfish  
22 Toadfishes  
24.3 tomcod, Pacific  
16 Trouts, Salmons  
56.12 tubenose poacher  
30.1 tube-snout

## V

52.16 vermilion rockfish

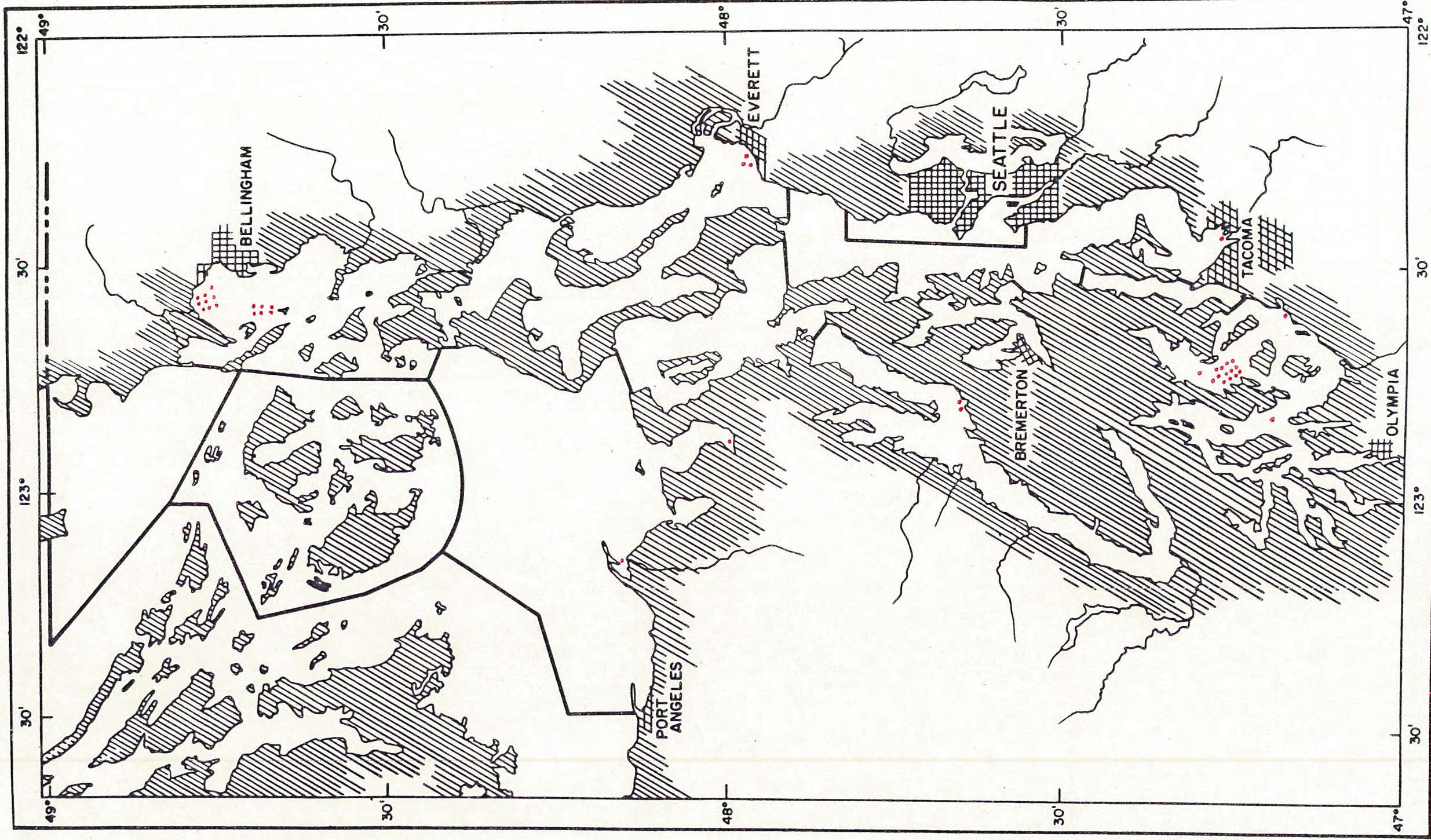
## W

24.4 walleye pollock  
40.3,4 warbonnets  
56.10 warty poacher  
26.4 wattled eelpout  
17.1 whitebait smelt  
40.9 whitebarred prickleback  
35.2 white croaker  
35.1 white seabass  
36.5 white seaperch  
54.3 whitespotted greenling  
12.2 white sturgeon  
52.11 widow rockfish  
42.1 wolf-eel  
42 Wolffishes  
44 Wrymouths

## Y

52.24 yelloweye rockfish  
52.12 yellowtail rockfish







*Entosphaerus tridentatus*

Petromyzontidae

Published Records

- 1-SS (Fort Steilacoom):  
 Girard, 1859. Small (4-inch),  
 probably in F.W.
- 1-PS: Kincaid, 1919.
- 1-PS: Jordan and Gilbert, 1882.
- 1-PS: Jordan and Starks, 1896.
- 6-B (north of Eliza Island):  
 Tyler, 1964.
- 1-HC (Big Beef Harbor):  
 Anderson and Chew, 1972.
- 9-B (fyke net, Fellingham Bay, north  
 of Eliza Island): Tyler, 1964.

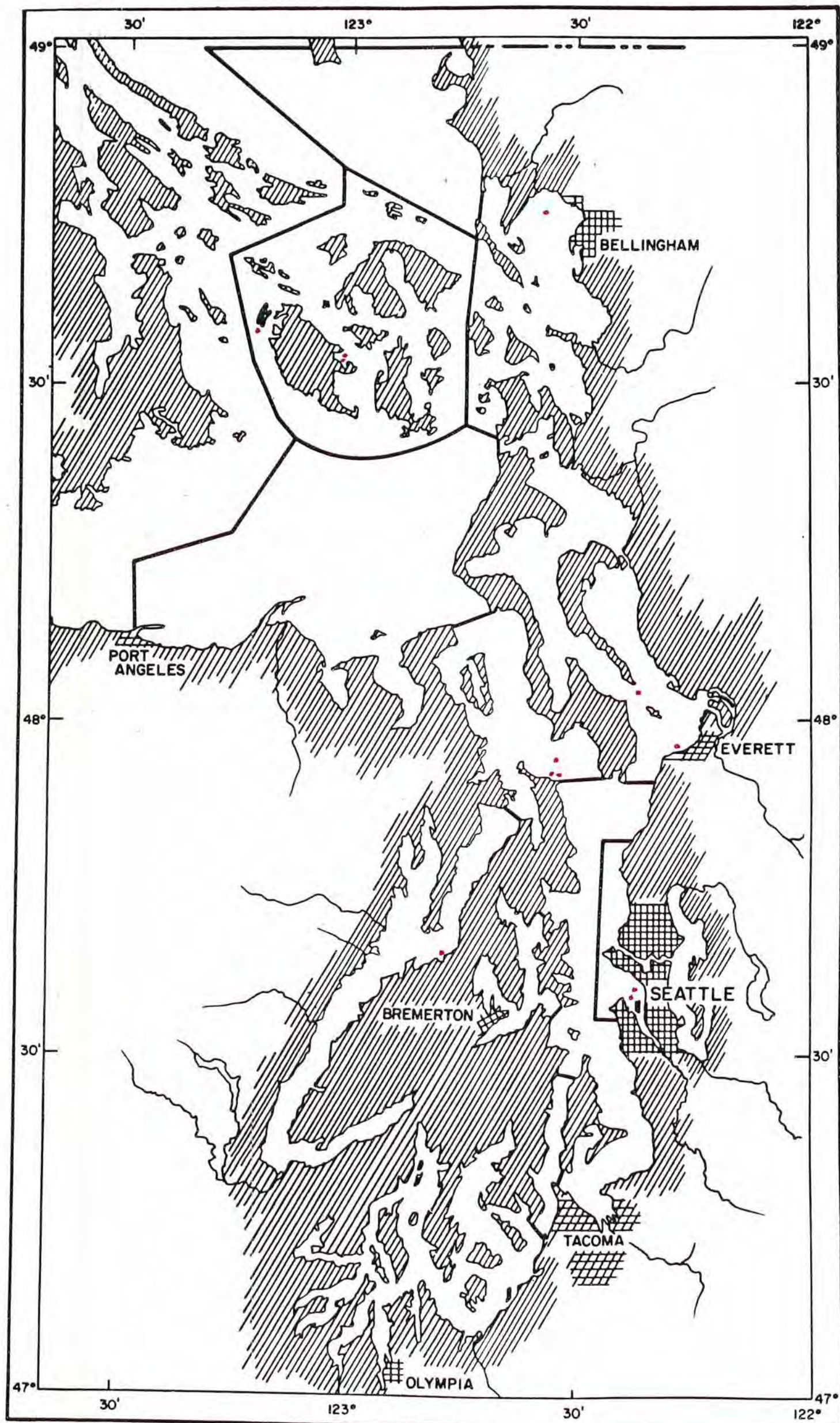
University of Washington  
Museum Collection

- 1-CS (mouth of Fuyallup River):  
 6194.
- 1-SS (Carr Inlet):  
 18999 (also Cobb, 75-22).
- 1-JF (second bridge above bay,  
 Dungeness River): 17535.
- 1-JF (Snow Creek above bridge at  
 Discovery Bay): 17546.

Miscellaneous Logs

- 3-E (Port Gardner Bay):  
 U.W. Ocean., P.G., 1962-67.
- 1-SS (lower Case Inlet):  
 U.W. Ocean., Hoh, 1963-67.
- 3-SS (lower Carr Inlet): U.W.  
 Ocean., herring trawl, 1968-69.
- 1-HC (Big Beef Harbor): K V. Koski,  
 personal communication, 10/19/72.







*Lampetra ayresi*

Petromyzontidae

Published Records

- 1-PS: Kincaid, 1919.
- 1-PS: Jordan and Starks, 1896.
- 1-S (Seattle):  
Jordan and Gilbert, 1882.
- 1-PS: Jordan and Gilbert, 1881c.
- 1-S (Elliott Bay): Salo, 1969.

University of Washington  
Museum Collection

- 1-S (sandspit south of Ballard Locks): 4668.
- 1-AI (White's Resort, Hansville): 9318.
- 1-AI (Bruce's Resort, Hansville): 11203.
- 1-E (Everett boathouse): 12705.
- 1-PS: 13935.
- 1-AI: 17029.
- 1-E (Camano Island): 18051.
- 1-SJ (Open Bay): 19451.

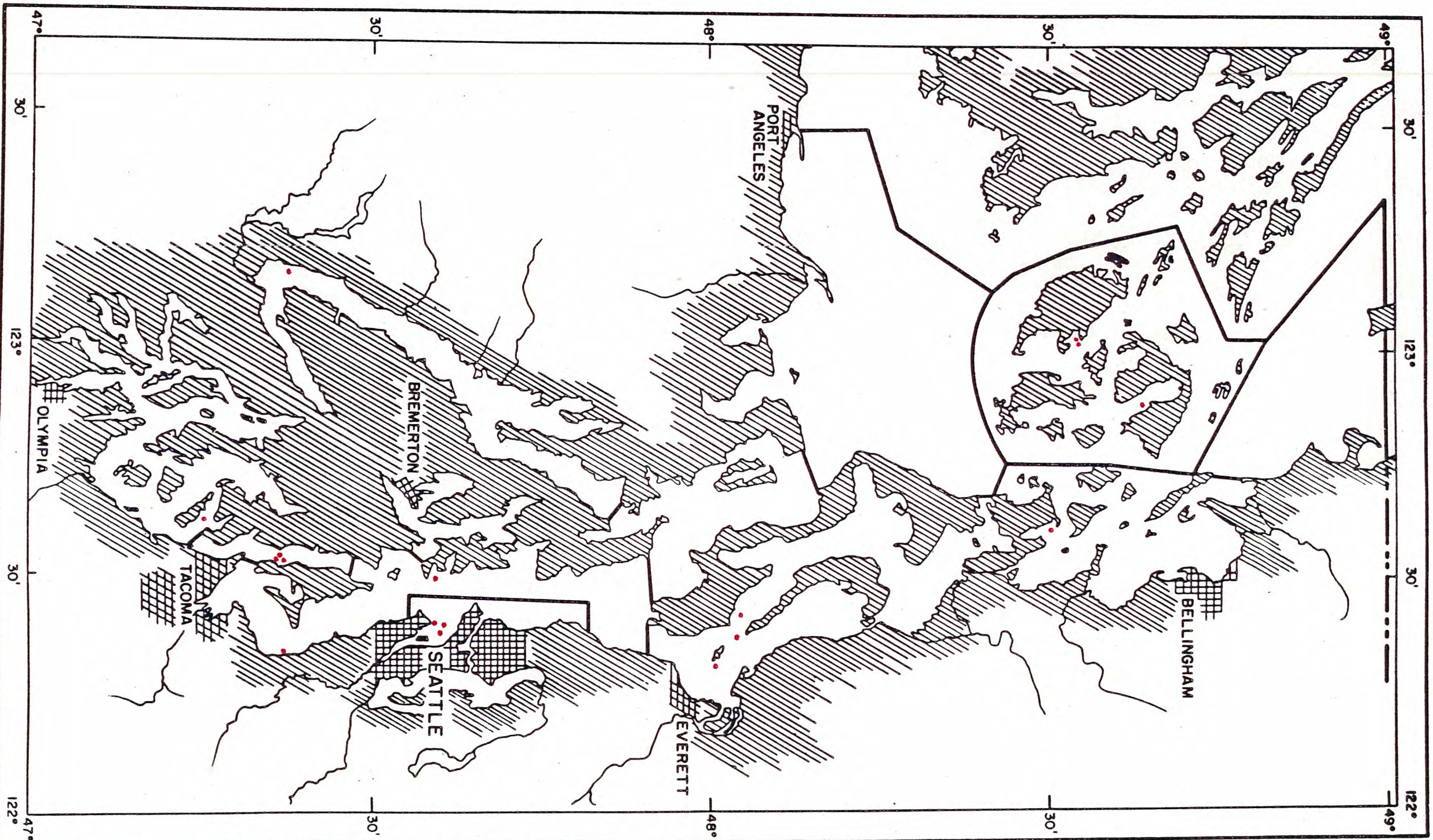
Friday Harbor Laboratory Log

- 2-SJ (Friday Harbor Lab):  
7/28/69; 7/30/69.

Miscellaneous Logs

- 1-PS (Everett or Bellingham):  
Dick Tyler, personal communication.
- 1-HC (Big Beef Harbor): K V. Koski, personal communication, 10/19/72 (18-inch adult caught in fyke net in or near creek mouth).
- 1-B (Bellingham Bay, off Nooksack River to Marine Drive):  
NIH, 1968-71.







*Hexanchus griseus*

## Hexanchidae

Published Records

- 1-SS (Hale Passage): Smith, 1936.  
 1-PS: Halkett, 1913.  
 1-B (Anacortes): Starks, 1911.  
 1-PS: Kincaid, 1919.  
 1-PS: Jordan and Gilbert, 1882.  
 1-PS: Jordan and Gilbert, 1881c.  
 1-SJ (East Sound): Miller and  
     Greenfield, 1965 (also museum  
     18500; NIH, 1964-66; Friday  
     Harbor Log, 10/23/64).  
 1-S (Seattle): Hart, 1935.  
 1-SJ (Friday Harbor): Hart, 1935.

University of Washington  
Museum Collection

- 1-E (Saratoga Pass.-Port Susan):  
     2925.  
 1-S (east waterway of Harbor  
     Island): 3779.

Friday Harbor Laboratory Log

- 1-SJ (Friday Harbor Lab): 8/7/61.

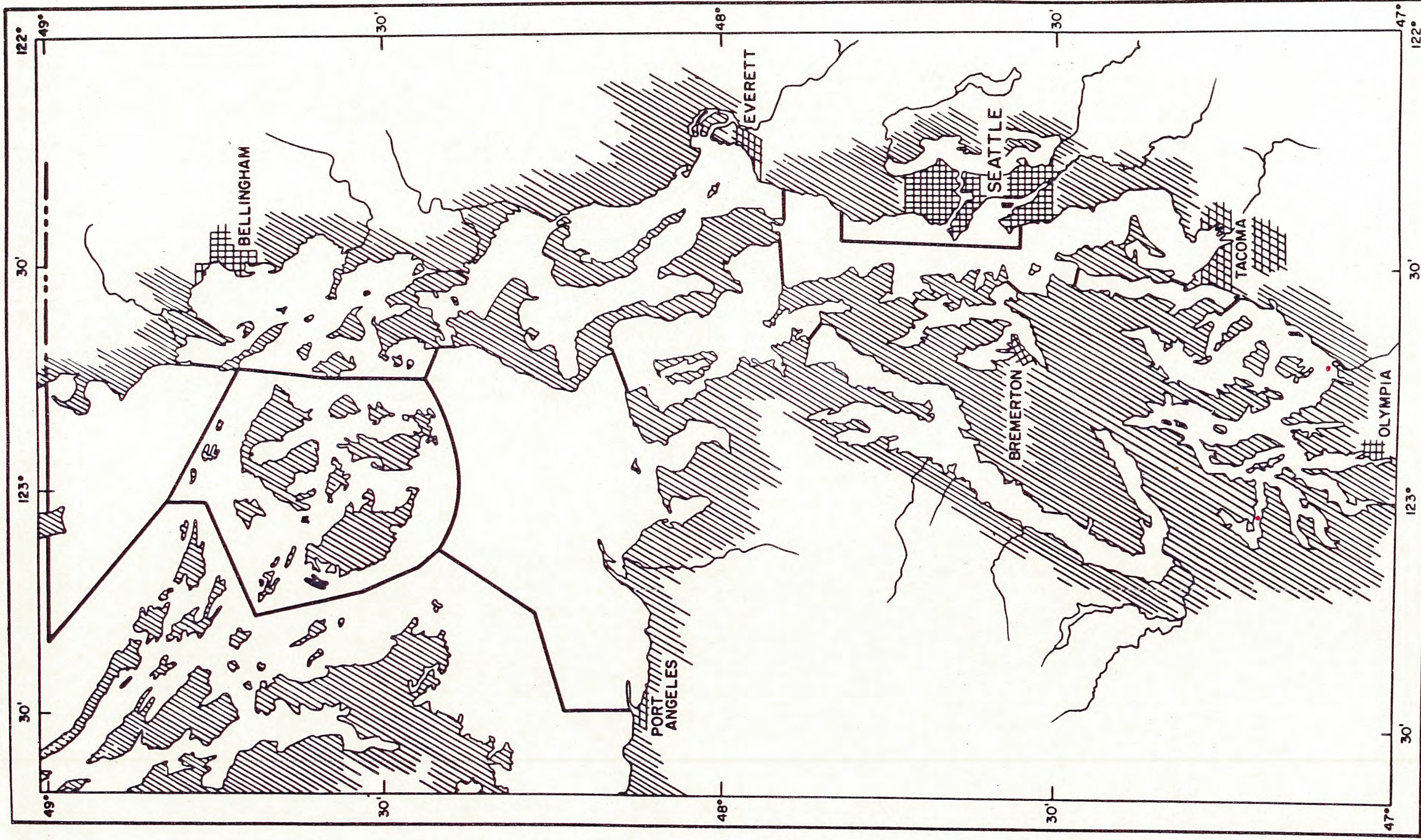
Miscellaneous Logs

- 1-S (Duwamish Head): Seattle  
     Aquarium personnel, 5/21/64.  
 1-S (Elliott Bay): Seattle  
     Aquarium personnel, 5/22/64.  
 1-CS (Salt Water Park): Seattle  
     Aquarium personnel, 5/22/64.  
 1-CS (Blakely Rock): Ted Griffin,  
     Seattle Marine Aquarium, 8/9/64.  
 3-CP (Camp Sealth): WSDF,  
     Groundfish Trawl Log, 1972.  
 1-E (off Langley):  
     Sport Catch, 1975.

University of Washington Boat Log

- 1-E (training cruise area, east of  
     Gedney Island): 7110c.  
 1-HC (mid-channel, north of  
     Potlatch): 6804D.







*Notorynchus maculatus*

Hexanchidae

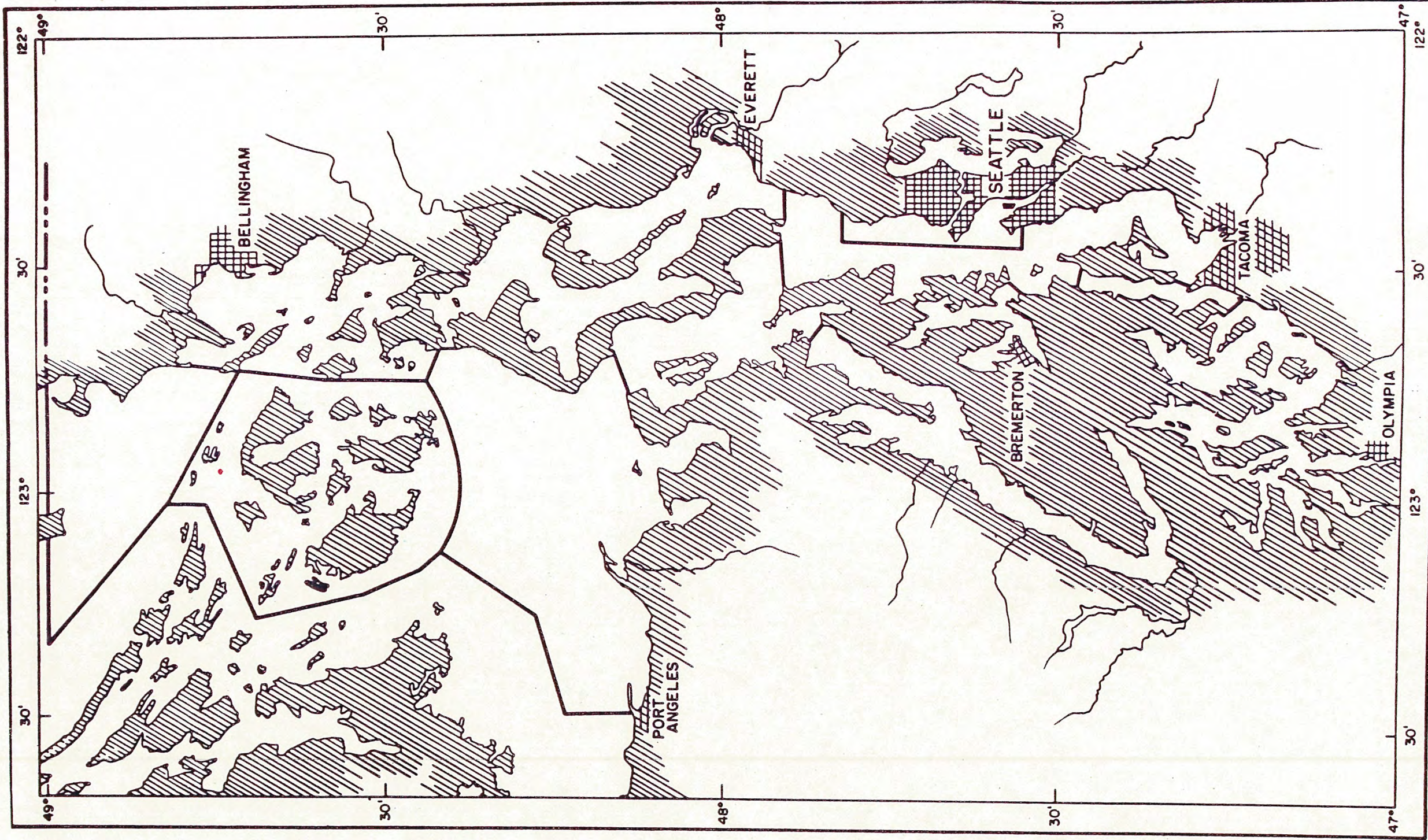
Published Records

- 1-SS (Nisqually): Gill, 1863b (also  
Gill, 1865; Jordan and Starks,  
1896; Jordan and Gilbert, 1882).  
1-PS: Kincaid, 1919 (this may also  
be a reference to the Gill, 1863b  
record).

Miscellaneous Logs

- 1-SS (Hammersley Inlet at Walker  
Park, 2 miles east of Shelton):  
sport catch casting from shore,  
by Vern Bailey, 8/24/73; Bruce  
Miller, personal communication,  
7/2/74.







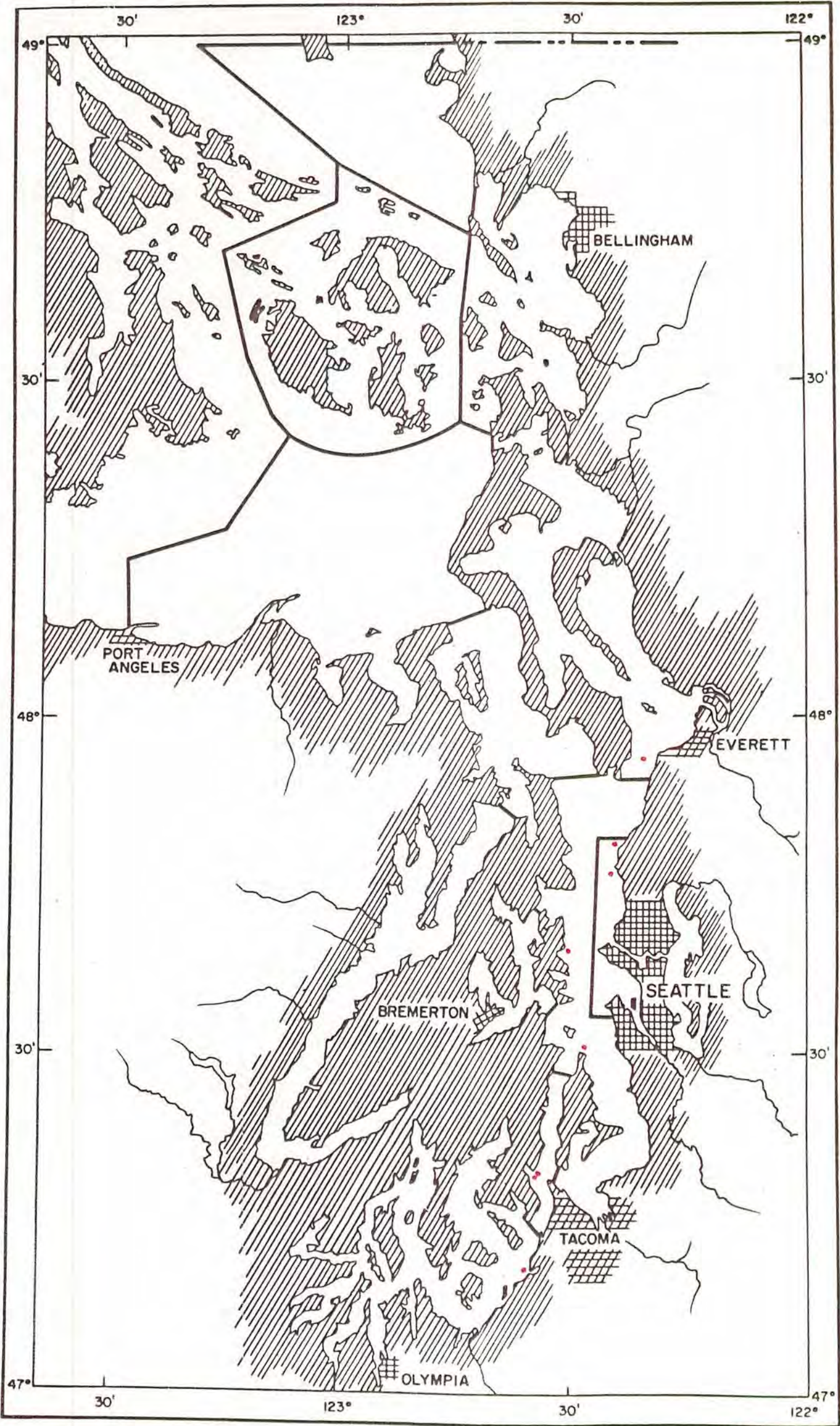
*Alopias vulpinis*

Alopiidae

Miscellaneous Logs

1-SJ (off Sucia Island):  
Bob Jackson, personal  
communication, "Shrimp Shack,"  
Bellingham, 5/24/72.







*Cetorhinus maximus*

Lamnidae

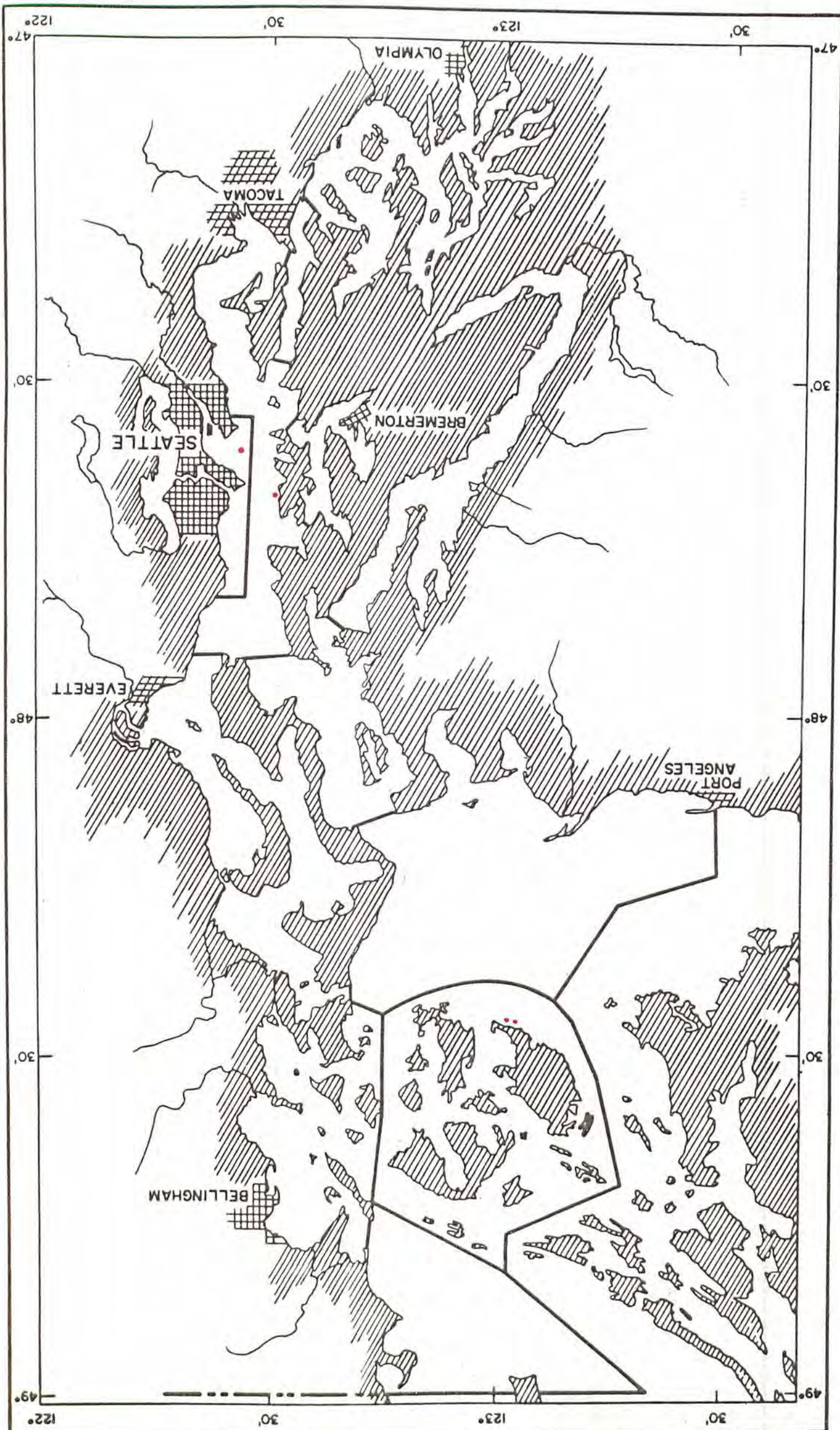
Published Records

- 1-S (off Richmond Beach):  
Slipp, 1948b.
- 1-CP (entrance of Gig Harbor, caught  
in net 10/28/39): Slipp, 1948b.
- 1-CP (off mouth of Gig Harbor,  
caught in purse seine 11/11/48):  
Slipp, 1948b.
- 1-SS (off mouth of Chambers Creek,  
north of Steilacoom):  
Slipp, 1948b.
- 1-E (near Mukilteo): Chapman, 1942.
- 1-S (east waterway of the Duwamish  
River, caught in Indian gillnet):  
Seattle Times, 1976.

Miscellaneous Logs

- 1-S (near Edmonds): Frank Haw,  
personal communication, 6/4/63  
(frequently observed swimming at  
surface, summer 1958).
- 1-CS (~1/2 mile off Kingston):  
Don Goldsberry, personal  
communication, Seattle Marine  
Aquarium, 9/27/72.
- 1-CS (north off Vashon Island):  
Pete Tronquet, personal communi-  
cation, "The Beachcomber,"  
11/7/72 (caught by gill-netter).





*Lamna ditropis* (salmon shark)

Lamnidae



*Lamna ditropis*

Lamnidae

University of Washington  
Museum Collection

1-S (near Seattle): 4364.

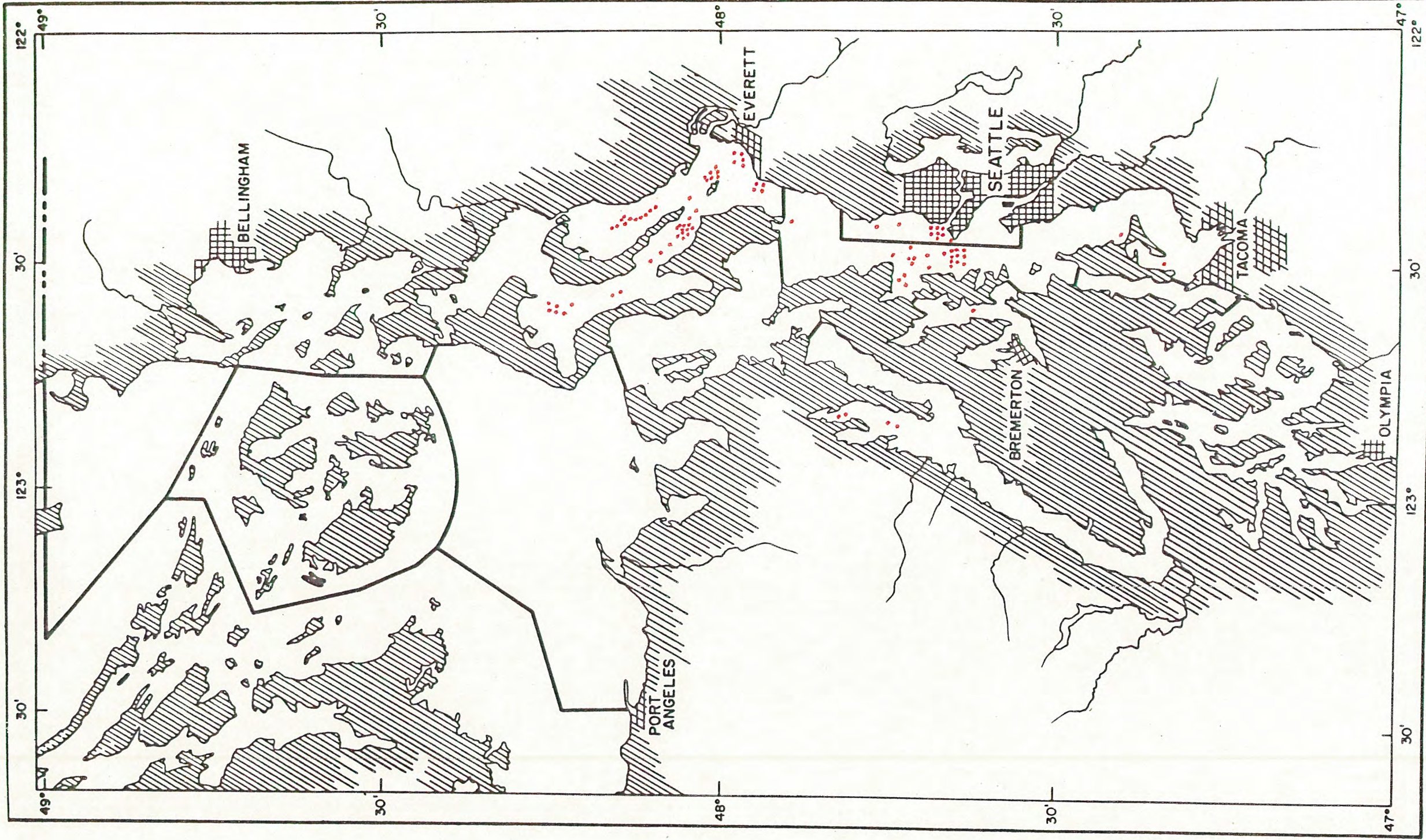
Friday Harbor Laboratory Log

2-SJ (between Eagle Point and Cattle  
Point): 8/2/53; 8/63.

Miscellaneous Logs

1-CS (Rolling Bay):  
Mat Svornich, personal communica-  
tion, salmon nets, 10/15/64.







*Apristurus brunneus*

## Scyliorhinidae

Published Records

- 1-HC: Gilbert and Thompson, 1905.  
 1-PS: Kincaid, 1919.  
 1-E (Saratoga Pass.): DeLacy and Chapman, 1935 (also museum 2921).  
 1-E (Saratoga Pass.-Port Susan): DeLacy and Chapman, 1935 (also museum 2923).  
 1-E (Port Susan): DeLacy and Chapman, 1935 (also museum 2933).  
 1-E (off Everett): DeLacy and Chapman, 1935 (also museum 3137).

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Museum Collection

- 1-E (off Camano Island): 2922.  
 1-S (off Meadow Point): 6211.  
 1-CS (off Jefferson Point): 8106 (also boat 5112D).  
 1-CS (mid-channel, off Shilshole): 10687.  
 1-CS (Meadow Point to Point Monroe): 12251 (also boat 5709B).  
 1-CS (off Fay Bainbridge State Park): 14415.  
 1-CS (off Port Madison): 14949 (also boat 5812E).  
 1-S (at Golden Gardens): 17148.  
 1-S (off Richmond Beach): 18656 (also boat 6429B).  
 1-PO (Port Orchard Channel): 18406.  
 1-S (beach seine, Golden Gardens): 16070.

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- 4-S (off Golden Gardens): 5034G; 5110D; 6005C; 6311E.  
 1-S (off West Point): 6718-3.  
 1-S (Carkeek to Richmond Beach): 6719B.  
 1-HC (Dabob Bay): 6013B.  
 2-HC (Dabob Bay, Broad Spit to Long Spit): 6629B; 6503A.  
 10-CS (mid-channel between West Point and Skiff Point): 6603B; 6605B; 6606B; 6607B; 6611B; 6614B; 6620B; 6628B; 6615B; 7118B.  
 2-CS (off Port Madison): 495B; 497A.  
 1-CS (mouth of Quartermaster Harbor): 5042A.  
 1-CS (Tramp Harbor): 5104A.  
 1-CS (mid-channel between Meadow Point and Jefferson Point): 5911B.  
 8-E (off north of Langley): 6603D; 6614D; 6815D; 6819D; 6826D; 7118D; 7213D; 7307D.  
 6-E (east of Gedney Island): 6517C; 6614C; 6717C; 6722C; 6819C; 7307C.  
 4-E (off Penn Cove): 6603E; 6815E; 6819E; 7307E.

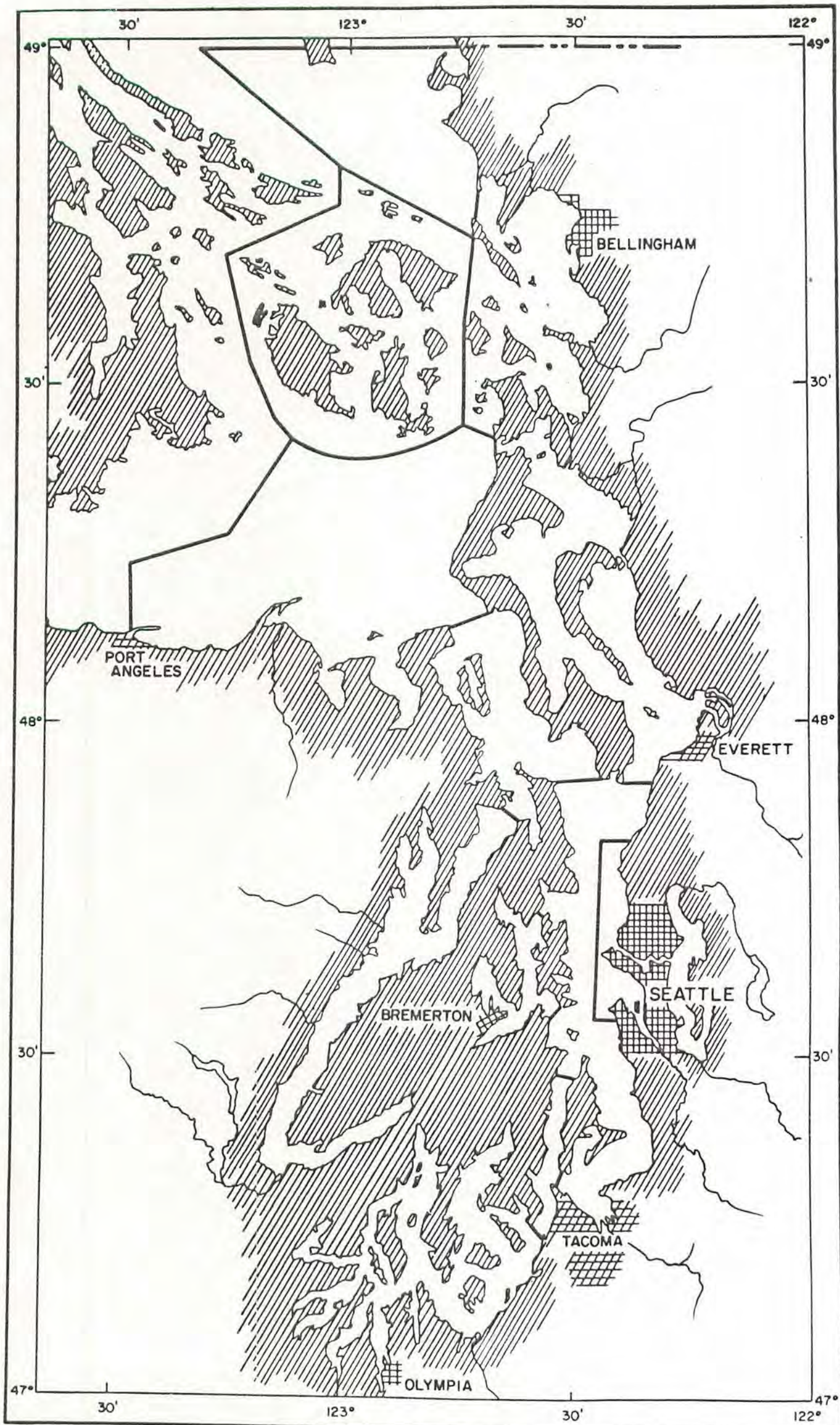
- 4-E (off Mukilteo): 5604C; 5604A; 5604B; 6407.  
 1-E (Langley to Camano Head): 6507D8.  
 1-E (Everett): 6620D.  
 3-E (south Saratoga Pass.): 6620E; 6722X; 6722Y.  
 3-E (off Kayak Point): 6702A,B,C.  
 1-E (Port Susan): 6821.5C.  
 3-E (Saratoga Pass.): 6801.5; 6810C; 6821.5D.  
 1-E (north Saratoga Pass.): 6821.5B.  
 1-E (off Camano Head): 6822D.  
 1-E (north of Langley): 6914D.  
 1-E (east of Gedney Island): 6914C.  
 1-CS (mid Port Madison): 7011C.  
 1-HC (Dabob Bay): 7102D.  
 1-E (off north of Langley): 7110D.  
 1-E (off north of Kayak Point to off Tulalip): 7112.  
 1-E (training cruise area, off Penn Cove): 7313E.

Miscellaneous Logs

- 2-E (Port Gardner Bay): U.W. Ocean., P.G., 1962-67.  
 2-CS (Port Madison): U.W. Ocean., Hoh, 1963-67.  
 5-E (mid Port Susan): U.W. Ocean., Hoh, 1963-67.  
 1-E (Port Gardner Bay): U.W. Ocean., Hoh, 1963-67.  
 1-CS (south of Possession Point): Cobb, 2/28/73.



FLUORIDE GRANTS (SEE OTHER)





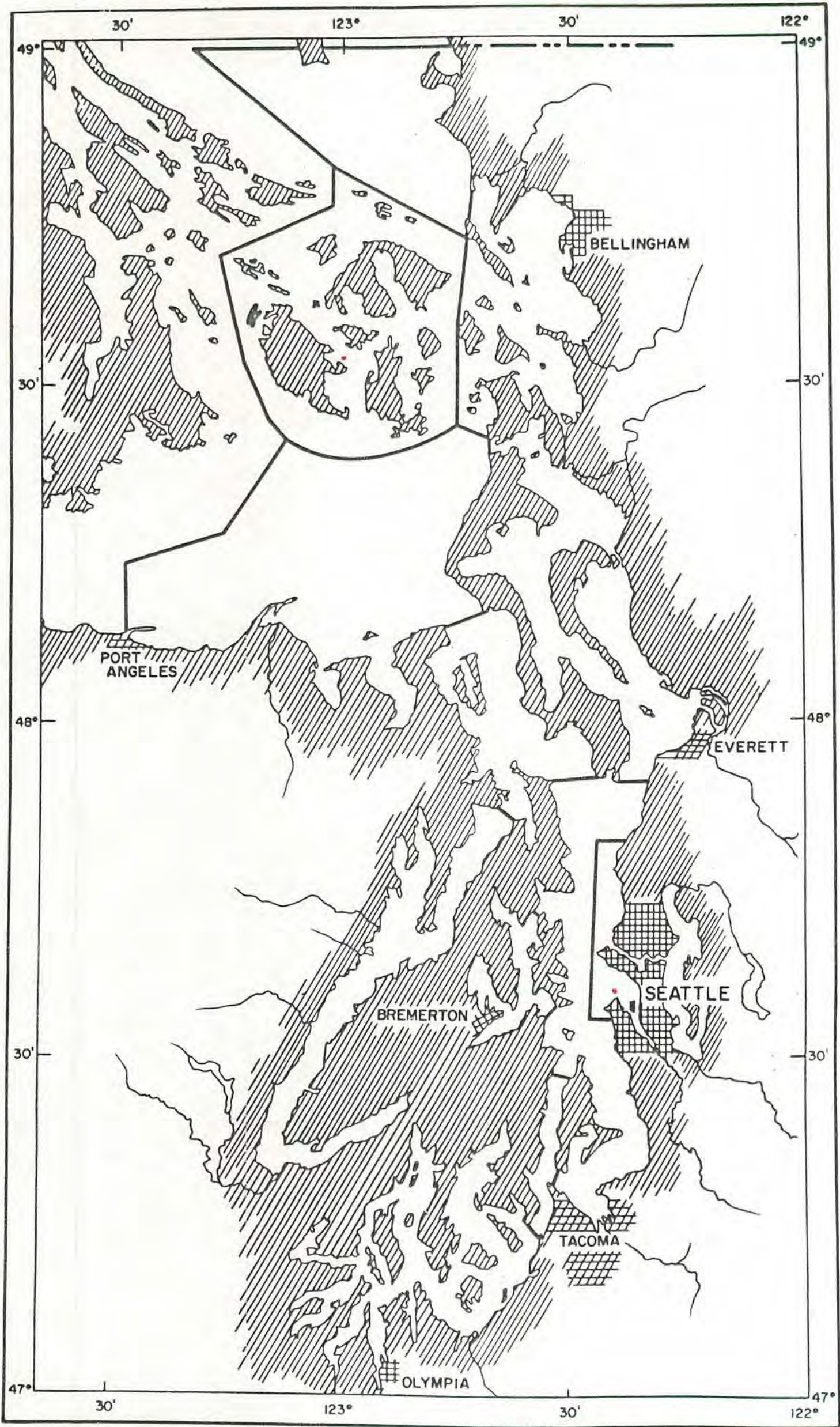
*Prionace glauca*

Carcharhinidae

Published Records

- 1-PS: Jordan and Gilbert, 1881c.
- 1-PS: Kincaid, 1919.
- 1-PS: Jordan and Gilbert, 1882  
("near Seattle," not sure of  
exact location).







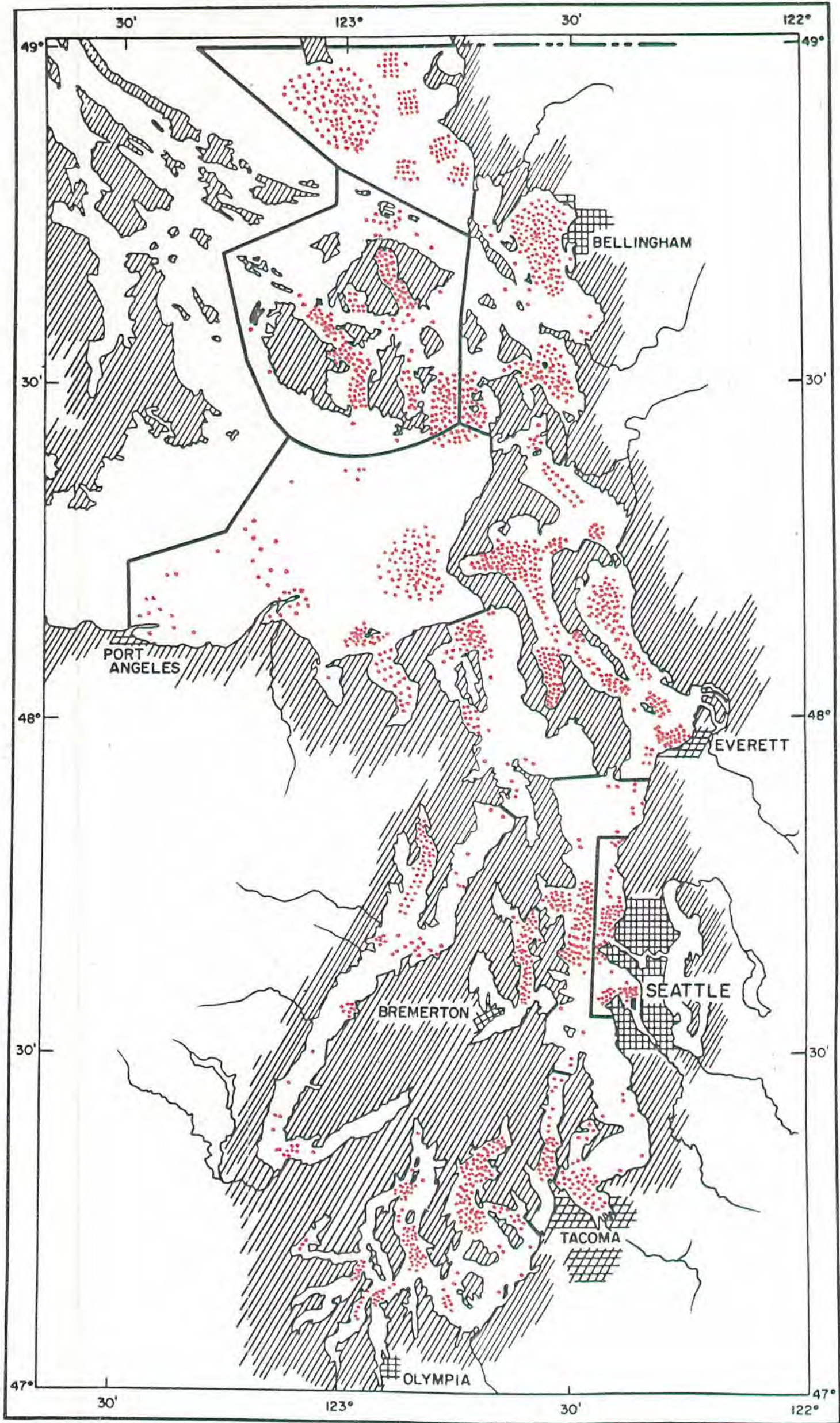
*Somniosus pacificus*

Squalidae

Published Records

1-S (from Seattle):  
    Jordan and Starks, 1896.  
1-PS: Jordan and Gilbert, 1881<sub>c</sub>.  
1-PS: Jordan and Gilbert, 1882.  
1-PS: Kincaid, 1919.  
1-SJ (San Juan Island): Hart, 1935.







*Squalus acanthias*

## Squalidae

Published Records

- 1-AI (Port Ludlow): Starks, 1896b.  
 1-PS: Jordan and Gilbert, 1881c.  
 1-PS: Jordan and Gilbert, 1882.  
 1-PS: Kincaid, 1919.  
 1-PS: Jordan and Starks, 1896.  
 1-SJ: Starks, 1911.  
 1-PS: DeLacy and Chapman, 1935.  
 1-SS (Fort Steilacoom): Girard, 1856b (also Girard, 1859).  
 4-GS: Smith, 1936.  
 9-B (Bellingham Bay): Smith, 1936.  
 6-E (Coupeville): Smith, 1936.  
 1-E (Oak Harbor): Smith, 1936.  
 1-JF (Sequim Bay): Smith, 1936.  
 1-JF (Port Discovery): Smith, 1936.  
 1-AI (Port Townsend): Smith, 1936.  
 1-HC (Bangor): Smith, 1936.  
 1-HC (Dabob Bay): Smith, 1936.  
 1-B (Hale Pass.): Smith, 1936.  
 1-E (Watsak Point): Smith, 1936.  
 1-HC (Hoodsport): Smith, 1937.  
 1-SS (Carr Inlet): Smith, 1937.  
 1-SS (Nisqually Flats): Smith, 1937.  
 1-SS (Dofflemeyer Point): Smith, 1937.  
 1-SS (Case Inlet): Smith, 1937.  
 50+-GS (large area south of Point Roberts and east of Birch Bay, commercial quantities): Kelly, 1946.  
 50+-B (west of Burrows Bay, commercial quantities): Kelly, 1946.  
 50+-SJ (Rosario Strait west of Burrows Bay, commercial quantities): Kelly, 1936.  
 50+-SJ (San Juan Channel, commercial quantities): Kelly, 1946.  
 50+-B (Bellingham Bay, commercial quantities): Kelly, 1946.  
 50+-B (Anacortes and Padilla Bay, commercial quantities): Kelly, 1946.  
 50+-JF (west of Point Partridge, commercial quantities): Kelly, 1946.  
 50+-E (east end of Penn Cove, commercial quantities): Kelly, 1946.  
 50+-CS (Commencement Bay to Colvos Pass., commercial quantities): Kelly, 1946.  
 1-SJ (Friday Harbor): Kohlruss, 1933.  
 50+-CP (area north of Point Defiance, commercial quantities): Kelly, 1946.  
 50+-SS (Carr Inlet, commercial quantities): Kelly, 1946.  
 2-E (Skagit and Similk Bays): Stober and Salo, 1970b.  
 7-E (Port Gardner): Salo, 1969.  
 6-E (Skagit Bay): Salo, 1969.  
 12-E (Kiket Island to Strawberry Point): Stober and Salo, 1970b.  
 4-SJ (East Sound; West Sound; Lopez Sound; and Upright Head): Hanson, 1967.  
 1-JF (middle channels): Hanson, 1967.  
 1-SJ: Read, 1969.  
 2-SJ (San Juan Channel; and Point Green): Bonham, 1954.  
 4-B (southwest of Lummi Island; Eliza Island; Samish Bay; and Samish Flats): Bonham, 1954.  
 3-E (Holmes Harbor): Bonham, 1954.  
 1-HC (north end of Hood Canal): Bonham, 1954.  
 1-CP: Bonham, 1954.  
 2-SS (Herron Island; and Carr Inlet): Bonham, 1954.  
 10+-SS (Dougall Point): Haw and Buckley, 1971.  
 10+-SS (north and west of Steamboat Island): Haw and Buckley, 1971.  
 10+-SS (east of Cooper Point): Haw and Buckley, 1971.  
 10+-SS (Hale Pass.): Haw and Buckley, 1971.  
 10-JF (large area northwest of Dungeness Spit): Greenwood, 1957.  
 10+-B: DiDonato, 1969.  
 1-B (Bellingham Bay): Tyler, 1964.  
 1-CS (Dumas Bay): Miller, 1971b.  
 4-HC (off Anderson Cove): Chew, 1970.  
 1+-SJ: MacPhee and Clemens, 1962 (from Friday Harbor Lab Log).  
 1-HC (in Big Beef Harbor, fyke net): Anderson and Chew, 1972.
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Museum Collection
- 1-SJ (Deadman Bay): 1241.  
 1-E (Sandy Point, Saratoga Pass.): 2659-1/2.  
 1-E (Saratoga Pass.): 3660.  
 1-JF (Port Angeles): 5369.  
 1-B (Samish Flats): 6251.  
 1-E (near Everett): 14956.  
 1-B (Chuckanut Bay): 18277.  
 1-SJ (mid East Sound): 18654 (also Friday Harbor Log, 6/5/64).  
 1-SJ (East Sound): 18655 (also NIH, 1964-66).
- Friday Harbor Laboratory Log
- 11-SJ (East Sound):  
 6/28/51-2; 7/6/60-2; 8/13/60-1;  
 8/11/52; 7/26/60-1; 6/20/61;  
 5/11/62; 6/20/63; 1968;  
 6/29/71-1; 7/6/71-1.  
 9-SJ (West Sound):  
 6/23/51; 7/9/52-3 (also boat 5220I); 7/26/60-2; 8/13/60-2;  
 6/26/61; 6/27/63-B; 1968;  
 6/20/69-2; 7/6/71-2.



*Squalus acanthias*Friday Harbor Laboratory Log

- 7-SJ (Lopez Sound): 7/12/51-2;  
7/28/55-1; 7/6/60-1; 7/13/60;  
6/16/61; 7/8/69-2; 6/21/71-2.
- 14-SJ (Friday Harbor Lab):  
7/30/52-1,2; 7/31/52; 8/2/52;  
8/8/55; 8/12-13/52; 8/15-16/52;  
7/2/69-1; 7/12/69-1; 7/13/69;  
8/1/69; 7/16/69-1; 8/13/69-1;  
8/21/69.
- 2-SJ (Friday Harbor):  
7/9/69; 7/10/69-1.
- 2-SJ (off Friday Harbor):  
8/22/69; 6/29/71-2.
- 1-SJ (Spencer Spit): 6/28/51-3.
- 2-SJ (Upright Head):  
6/28/51-1; 1968.
- 1-SJ (off Rocky Bay): 6/30/51-1.
- 3-JF (west of McArthur Bank):  
7/12/51-1; 7/19/63-1; 7/8/69-1.
- 2-B (Bellingham Bay):  
7/26/51-2; 6/22/55.
- 1-B (south of Eliza Island):  
8/8/55-1.
- 1-B (off Inati Bay): 8/8/55-2.
- 1-SJ (south of Orcas Island):  
6/24/52.
- 2-SJ (Lopez Sound to East Sound):  
7/1/52; 7/11/63.
- 1-SJ (East Sound entrance):  
7/28/55-2.
- 1-SJ (East Sound or West Sound):  
7/25/55.
- 1-SJ (southeast of Cattle Point):  
8/3/55-2 (also boat 5520B).
- 1-SJ (west of Center Island):  
8/11/55-1.
- 1-SJ (Trump Island to Decatur Head):  
8/11/55-2.
- 1-SJ (James Island): 7/24/50-6.
- 2-SJ (lower East Sound): 8/11/55-3;  
6/20/50-2 (also boat 5033I).
- 1-SJ (Open Bay): 7/31/50-5.
- 1-SJ (north of Hunter Bay):  
6/19/50-5 (also boat 5033G).
- 1-SJ (West Sound or Lopez Sound):  
6/27/60.
- 2-SJ (Upright Head to Olga):  
8/1/60-2; 7/10/61-2.
- 1-PS (Cattle Point to Smith Island):  
6/28/61-1.
- 1-SJ (south of Lopez Island):  
6/27/63-A.
- 6-SJ (mid East Sound):  
1/17/64; 2/21/64; 4/3/64;  
7/11/64; 6/20/69-1; 6/21/71-1.
- 1-SJ (Squaw Bay or West Sound):  
6/30/67.
- 1-SJ (San Juan Channel): 1968.
- 1-SJ (Peavine Pass): 1968.
- 1-SJ (west of Neck Point): 7/31/69.
- 1-SJ (lower East Sound): 6/26/73-1.
- 1-SJ (Upright Head to Foster Point):  
6/26/73-2.

## Squalidae

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- 1-GS (north of Alden Bank): 491G.
- 1-GS (off Cherry Point): 491H.
- 1-JF (in Port Discovery): 5318A.
- 2-JF (off Ediz Hook to off Green  
Point): 5705A,D.
- 1-SJ (between Puffin Island and  
Orcas Island): 491E.
- 1-SJ (off Raccoon Point toward  
Barnes Island): 491F.
- 14-SJ (East Sound, north of Rosario  
Point): 491M; 7118H; 7307H;  
6507H; 6517H; 6603H; 6614H;  
6620H; 6630H; 6717H; 6722H;  
6815H; 6819H; 6908H.
- 2-SJ (west of Ram Island):  
491P; 5033R.
- 1-SJ (West Sound): 5033L.
- 1-SJ (East Sound): 5033M.
- 1-SJ (south of Spencer Spit):  
5033P.
- 1-SJ (East Sound): 6512I.
- 2-SJ (Lopez Sound, southwest of  
Center Island): 7118I; 7307I.
- 1-B (Hale Pass.): 491I.
- 1-B (east of Point Francis): 491J.
- 1-B (east of Vendovi Island): 491K.
- 1-B (Bellingham Bay): 6512H.
- 15-B (southwest of Post Point):  
6507G9; 6512G; 6517G; 6603G;  
6614G; 6620G; 6630G; 6722G;  
6815G; 6819G; 6822G; 6826G;  
6908G; 7118G; 7307G.
- 1-E (near Mukilteo): 6407.
- 1-B (southwest of Post Point):  
6717G.
- 18-E (mouth of Holmes Harbor, off  
Rocky Point to off Dines Point):  
491Q; 5220D; 5220O; 5234A; 5234C;  
5237E,F; 5307A,C,D,K,L,R,S;  
5312H,I; 5327C,E.
- 2-E (off Warm Beach, Port Susan):  
5023B,C.
- 2-E (off Mission Beach): 5023E,F.
- 5-E (Penn Cove mouth, off Long Point  
to off Snatelum Point): 5213A;  
5220E; 5321F; 5330H; 5810G.
- 10-E (training cruise area, off Penn  
Cove): 6603E; 6614E; 6717E;  
6815E; 6819E; 6826E; 6908E;  
7118E; 7213E; 7307E.
- 7-E (Penn Cove, off Coupeville to  
off Lovejoy Point):  
5213B,C; 5316I,J; 5321A,H; 5418E.
- 2-E (off Oak Harbor to Blower  
Bluff): 5220F,N.
- 1-E (north end of Saratoga Pass.,  
south Point Powell): 5220M.
- 12-E (Holmes Harbor, south of Dines  
Point to off Classic):  
5234D; 5312F,G,J; 5316A,B,C;  
5405G,H; 5501D; 5712E,F.
- 30-E (Holmes Harbor, south of  
Classic): 5234E,F; 5237A,B,G;  
5305A,G; 5307E,F,G,H,O,P,U;  
5312B,C,D,E,L,N; 5316D,E,M,N;  
5321T; 5501A,B,C,E; 5810E.

*Squalus acanthias**Squalidae*University of Washington Boat Log

- 52-E (Holmes Harbor):  
 5305E,H,I,J,K,L,M; 5325A,B,C;  
 5327A,B; 5330A,B,C,L,M; 5405C,D;  
 5418A,B,C,D; 5420A,B,C,H; 5522D,  
 E; 5604D,E,G,F; 5614D,E,F; 5703E,  
 G,H; 5810A; 5933C,D,G,H,J,K;  
 6821.5E; 56130,P,Q,R,S.
- 4-E (Saratoga Pass., south of  
 Snatelum Point to off north of  
 Onamac Point):  
 5316K,L; 5330F; 5418H.
- 3-E (off Utsalady Point):  
 5321C,D,E.
- 1-E (Penn Cove, off Lovejoy Point to  
 off Long Point): 5321G.
- 1-E (east off Snatelum Point):  
 5321J.
- 5-E (off Onamac Point to off Indian  
 Beach): 5321K,L; 5405L,M,N.
- 6-E (in Elger Bay):  
 5321M,N; 5330J; 5405O; 5418I,J.
- 1-E (off Saratoga to off Langley):  
 5321O.
- 13-E (training cruise area, Saratoga  
 Pass., off north of Langley):  
 6507D8; 6512D; 6603D; 6614D;  
 6630D; 6717D; 6722D; 6815D;  
 6819D; 6826D; 7118D; 7213D;  
 7307D.
- 22-E (Penn Cove):  
 5327F,G; 5330G; 5405I,J,K; 5418F,  
 G; 5420D,E,F,G; 5522F,G; 5613U,V,  
 X; 5614I,J; 5712A; 5810F,H.
- 1-E (off Onamac Point to off Indian  
 Beach): 5330D.
- 2-E (off North Bluff to off  
 Greenbank): 5418M,N.
- 5-E (off Mukilteo):  
 5604A,B,C; 5613M,N.
- 1-E: 5712B.
- 1-E (off Cama Beach to off Lowell  
 Point): 5712D.
- 1-E (off Mission Beach): 7204C.
- 2-E (off north of Kayak Point):  
 7204A,B.
- 3-E (off Kayak Point): 6702A,B,C.
- 15-E (training cruise area, east of  
 Gedney Island):  
 6507C8; 6512C; 6517C; 6603C;  
 6614C; 6620C; 6630C; 6717C;  
 6722C; 6815C; 6819C; 6826C;  
 7118C; 7213C; 7307C.
- 1-E (off Spee-Bi-Dah, Port Susan):  
 7303J.
- 1-E (Everett): 6620D.
- 3-E (south end of Saratoga Pass.):  
 6620E; 6722X,Y.
- 4-E (Saratoga Pass.):  
 6801.5; 6810B,C; 6821.5D.
- 3-E (Port Susan): 6810A; 6821.5A,C.
- 1-E (Saratoga Pass., off Camano  
 Head): 6822D.
- 1-E (near Penn Cove): 6822E.
- 1-AI (off Port Townsend): 5009B.
- 1-AI (Oak Bay, north of Olele  
 Point): 5009C.
- 4-AI (training cruise area, east of  
 the north end of Marrowstone  
 Island):  
 6507J; 6614J; 6603J; 6630J.
- 1-AI (between off Tala Point and off  
 Hood Head): 6902M.
- 1-HC (off Shine to off Sisters  
 Rock): 499C.
- 5-HC (off Pleasant Harbor):  
 499E; 7303G; 6828E; 6902K,L.
- 1-HC (off Sister Point): 499G.
- 1-HC (off Union): 499H.
- 1-HC (off Thornedyke Bay): 499J.
- 14-HC (Dabob Bay):  
 5903A; 5921; 6013A,B; 6105A,B,C;  
 6202A,C,D,F; 7205I,M,N.
- 2-HC (west of Misery Point):  
 6902J; 7202A.
- 41-HC (Dabob Bay, Broad Spit to Long  
 Spit):  
 6503B,C,D,E,H; 6601A,B,C,D;  
 6629A,B,C,E; 6702D,E,F; 6724A;  
 6804A,B,G; 6807A,B; 6828A,B;  
 6902A,C,E,F,H; 7202G,I,J; 7202D,  
 E,F; 7303A,B,C,D,E,F.
- 1-HC (south of Oak Head): 6601E.
- 1-HC (mid-channel, between Hoodsport  
 and Potlatch): 6804D.
- 1-HC (northeast of Big Beef Harbor):  
 6902I.
- 11-CS (mid Port Madison):  
 492B; 5006D; 5043A; 5048B; 5122B;  
 5131B; 5132D; 5616J; 5812A;  
 5924A; 5932A.
- 3-CS (off Port Madison):  
 497A,B; 5043C.
- 1-CS (northeast of Apple Cove  
 Point): 5009A.
- 1-CS (off Cultus Bay): 5032A.
- 2-CS (mouth of Quartermaster  
 Harbor): 5042A; 5104B.
- 1-CS (head of Quartermaster Harbor,  
 20-foot depth): 5042B.
- 2-CS (mid Quartermaster Harbor,  
 Dockton to Burton): 5042C,D.
- 1-CS (Tramp Harbor): 5104A.
- 1-CS (off Point Jefferson): 5112D.
- 1-CS (east off Blake Island):  
 5155I.
- 1-CS (north of Des Moines): 5224A.
- 4-CS (Port Madison, off Agate Pass):  
 5232A; 5302AA; 5310.2F; 5317C.
- 7-CS (mid-channel between Meadow  
 Point and Port Madison):  
 5314B; 5516A; 5608A; 5707C,D;  
 5709B; 5911B.
- 1-CS (west of Point Monroe): 5315D.
- 1-CS (east off Point Monroe):  
 5805C.
- 1-CS (off Fay Bainbridge State  
 Park): 5806C.
- 11-CS (training cruise area, mid-  
 channel between Skiff and West  
 Point): 6512B; 6603B; 6614B;  
 6623B; 6815B; 6819B; 6908B;  
 7118B; 7213B; 7307B; 7308B.



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- 9-CS (off West Point): 6607B;  
6611B; 6620B; 6626B; 6627B;  
6628B; 6707; 6706B; 4/4/73A.
- 1-CS (off West Point): 5115J.
- 3-CS (off Murden Cove):  
6710B2,D2; 4/4/73B.
- 23-CS (Murden Cove):  
6610A,B,C,D; 6612B; 6613A; 6616A;  
6713C,D,G,H; 6801B; 6806B; 6809A;  
6812D; 6818A,B; 6821.5G,H; 6906A,  
D,E; 6912.
- 1-CS (between Wing Point and Four-  
Mile Rock): 6507B8.
- 2-CS (Vashon Island, off Sylvan  
Beach): 6703A,B.
- 1-CS (Vashon Island, off Neill  
Point): 6703C.
- 3-PO (south part of Agate Pass.):  
495C; 5910B; 5011C.
- 1-PO (south end): 6303.2.
- 16-PO (Agate Pass., between buoy N4  
and buoy N6): 2/22/49-3; 5006A;  
5048A; 5106E; 5131A; 5132C;  
5206A; 5309C; 5310.1B; 5310.3D;  
5310.4F; 5310.5C; 5310.5F;  
5310.5J; 5315C; 6617B.
- 1-PO (north of buoy N4): 5020B.
- 90-PO (off Fletcher Bay to off south  
of Battle Point): 5206B; 5207D,  
E; 5223B; 5226A,B; 5228F; 5230F;  
5232C; 5235P; 5236C,D,E; 5301A,B;  
5302BB; 5303; 5306A; 5309A;  
5310.3B,.5D; 5315B; 5317A,B;  
5401A; 5402X; 5404.1; 5409.1;  
5413A; 5414.1C; 5421; 5422A,B,C,  
D; 5503A; 5504; 5507; 5523A,B;  
5524; 5602A,B; 5615A,B,C; 5707B,  
G,H; 5709C; 5711A; 5714; 5809A,B;  
5814; 5901AK; 5902A; 5904A,B,C;  
5905A; 5907A; 5910A; 5912A;  
5915A,B; 5919A,B; 5922A; 5923A,B;  
5924B; 5927C; 5931B; 6001AM,AN;  
6003A; 6006A,B; 6008A,B; 6011A;  
6015B,C; 6016A1,B1,B2,A3,A4,B5.
- 30-PO (off Fletcher Bay to off south  
of Battle Point):  
6020; 6021D; 6100; 6101A; 6106;  
6107; 6109A,B; 6111A,B; 6202.5;  
6205D1,D2,D3; 6307; 6317; 6320A,  
B,C; 6322.5; 6403AF; 6406C;  
64251A,2A; 6427A; 6504; 6504.5;  
6505A; 6507K; 6707.
- 15-PO (off south of Fletcher Bay,  
north of "B-2"): 5229A,C; 5413C,  
D; 5503B; 5711C; 5801A,B,C;  
5926C; 6016B4; 6118A,B,C,D.
- 12-PO (from off Manzanita to off  
Seabold):  
5236B; 5310.1C,D; 5310.2A,B,D;  
5310.4A,B; 5310.5A,B,E; 6215A.
- 5-PO (between "B-2" and "B-1"):  
5301C; 5236F; 5526A; 6205C1,C3.
- 22-PO (probably most of these were  
off Fletcher Bay):  
5306B; 5926A; 6002A; 6007A,B;  
6009A; 6012A; 6214; 6302.5;  
6303.1; 6312.5; 6415; 6419;  
6711C; 3A,E; 6716.5; 6801;  
6821.5F; 7206; 7302A,B.
- 1-PO (Brownsville to Point White):  
6806A.
- 4-PO (off Battle Point to north of  
Battle Point):  
5310.1A; 5310.3A; 5422F,G.
- 1-PO (in Manzanita Bay): 5310.3C.
- 2-PO (Point Bolin to Keyport):  
5310.4D,E.
- 1-PO (off Fletcher Bay): 6311.5.
- 32-S (off Golden Gardens to off  
Meadow Point): 492D; 494E;  
5003A; 5008C; 5017B; 5029E;  
5033A; 5034E,G; 5039A; 5110D;  
5112A,B; 5119H; 5126A; 5314A;  
5408B; 5416B; 5516B; 5702AN;  
5707J,K; 5920E,F; 5931A; 6005C;  
6114A,B; 6506A,C; 6510C; 6311E.
- 5-E (off Alki Point toward Duwamish  
Head): 5027B; 5616D; 5702AM;  
5802JJ; 6001AO.
- 1-S (off Four-Mile Rock to Pier 91):  
5027C.
- 23-S (off north of Meadow Point to  
off Carkeek Park):  
5039C; 5041B; 5044A; 5110A;  
5119A,B; 5203A; 5212B,C,D; 5606A;  
5915C,D; 7119A,B; 7120A,B; 6406A;  
6414C,D; 6510A,B; 6608B.
- 1-S (beach seine, Golden Gardens to  
Meadow Point): 5134A.
- 1-S (south off West Point to off  
Four-Mile Rock): 5602C.
- 2-S (off north of Carkeek Park):  
6206C; 6414E.
- 1-S (Meadow Point to Richmond  
Beach): 6429B.
- 4-S (Carkeek Park to Richmond  
Beach): 6719A,B,C,D.
- 1-S (beach seine, Piper Creek  
Beach): 6510D.
- 2-S (beach seine, Alki Point to  
Duwamish Head): 619M,N.
- 1-S (1 mile southwest of West  
Point): 6806C.
- 2-S (off West Point): 6718-3,5.
- 2-CP (off Sandford Point):  
7/18/49; 5126N.
- 5-CP (off Camp Sealath):  
7/21/49-2,3; 5009E; 5104CC,DD.
- 3-CP (off Cove or Fragaria):  
5046A; 5133Q; 5135E.
- 1-CP (west side off south of Command  
Point): 5133P.
- 24-SS (off Minter Creek to off  
Elgin, Carr Inlet):  
7/19/49-1; 5037H; 5045G,J; 5046C;  
5101C; 5104D,H,I,V,S; 5107A;  
5126D,F; 5133J; 5135A,B,C,D;  
5201H; 5213F; 5227D,F,I.
- 1-SS (Drayton Pass): 7/19/49-2.
- 2-SS (off McLane Cove):  
7/20/49-3; 5201L.
- 1-SS (off Budd Inlet): 7/20/49-4.

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- 2-SS (west of Herron Island):  
5009G; 5126H.
- 1-SS (north end Pickering Pass to  
McLane Cove): 5009H.
- 8-SS (northwest end of Nisqually  
Reach to south of Devils Head):  
5009I; 5126J; 52021C,D,M; 5204F,  
G,J.
- 44-SS (Carr Inlet, off Glen Cove to  
west off Raft and Cutts Islands):  
5009J; 5037C,G; 5045A,B,C,H,K;  
5101B; 5102A,B; 5104J,K,L,M,N,O,  
P,Q,Y,Z,AA; 5115F; 5126M; 5201A,  
B; 5204A,B,C,D,F,K,N; 5213D;  
5227B; 5613A,B,C,D,E,F,G,H,I.
- 3-SS (southwest of Green Point):  
5037A; 5104S,T.
- 10-SS (off Wauna to mid-channel off  
south of Wauna, Carr Inlet):  
5037I; 5045I; 5101A; 5104E,F,G,W;  
5126L; 5227A,C.
- 1-SS (Hale Pass., off Arletta to off  
Cromwell): 5046B.
- 2-SS (mid-channel, Gibson Point to  
Gertrude Island): 5046D; 5104C.
- 2-SS (off north of Home to off  
Horsehead Bay Spit):  
5104R; 5201I.
- 3-SS (Oakland Bay, off Shelton):  
5115A,B,C.
- 3-SS (Totten Inlet, off Windy Point  
to south end Steamboat Island):  
5115D; 5201K; 5204I.
- 2-SS (Eld Inlet, 1 mile northeast  
Flapjack Point, Van Cleve, trap  
sampling area): 5115E; 6217-2.
- 1-SS (Case Inlet, off Victor):  
5126G.
- 1-SS (west of Ketron Island):  
5126K.
- 1-SS (between Fox Island and Day  
Island toward Toliva Shoal):  
5201E.
- 1-SS (off Unsal Point, Dana Pass):  
5201J.
- 1-SS (Hale Pass, Wollochet Bay to  
Point Fosdick): 5201N.
- 1-SS (Dana Pass, Brisco Point to  
Dofflemeyer Point): 5204H.
- 6-SS (Carr Inlet):  
5522C,A,B; 56C5A,B,D.
- 3-SS (Case Inlet): 5613J,K,L.
- 2-SS (Carr Inlet, mid-channel, Glen  
Cove to Green Point): 6724B-1,2.
- 1-SS (Case Inlet, east of Hartstene  
Island): 6724C.
- 1-PO (off Fletcher Bay): 6913.
- 3-E (training cruise area, Saratoga  
Pass, north of Langley):  
6914D; 7010D; 7017D.
- 6-B (training cruise area, southwest  
of Post Point): 6914G; 7010G;  
7017G,G.1; 7110G; 7313G.
- 5-E (training cruise area, off Penn  
Cove): 6914E; 7010E; 7017E;  
7110E; 7313E.

- 5-E (training cruise area, east of  
Gedney Island): 6914C; 7010C;  
7017C; 7110C; 7313C.
- 5-CS (training cruise area, mid-  
channel, between West Point and  
Skiff Point):  
6914B; 7017B,Z; 7110B; 7313B.
- 5-PO: 6916D,H; 7011A,B; 7020.
- 5-HC (Dabob Bay, Broad Spit to Long  
Spit): 7003A,B,E,G,H.
- 5-CS (Murden Cove):  
7008A,B; 7016C; 2-7108.
- 4-HC (Anderson Cove): 7009A,B,C,D.
- 4-SJ (training cruise area, East  
Sound, north of Rosario Point):  
7010H; 7017H; 7110H; 7313H.
- 1-CS (mid Port Madison): 7011C.
- 2-SS (Lopez Sound, southwest of  
Center Island): 7017I; 7110I.
- 1-CS (off West Point, toward Murden  
Cove): 7017Y.
- 14-HC (Dabob Bay): 7102A,C,D,E,F,G,  
H,J,K,N,O,Q; 7112A,B.
- 1-HC (off Pleasant Harbor): 7102M.
- 7-PO: 7104-2,1; 7105-1,2; 2-7107;  
7313X.
- 2-E (training cruise area, north of  
Langley, Saratoga Pass.):  
2-7110D.
- 1-HC (west side across from  
Vinland): 7112C.
- 1-HC (just south of floating  
bridge): 7112D.
- 1-AI (just south of Foulweather  
Bluff on east side of Hood Canal  
entrance): 7112E.
- 3-E (Port Susan, north of Kayak  
Point to Tulalip): 3-7112.
- 1-E (Elger Bay): 7112.
- 1-CS (training cruise area, mid-  
channel, West Point to Skiff  
Point): 4/4/73.

Miscellaneous Logs

- 2-B (Bellingham Bay):  
Dick Tyler, 1965 data sheets.
- 1-SJ (San Juan Island):  
Carleton Nash, personal  
communication, 1964.
- 3-E: WSDF, Sport Fish., 1965-70.
- 18-S (Elliott Bay):  
WSDF, Sport Fish., 1965-70.
- 3-S (off Duwamish Head to Alki  
Point):  
U.W. Ocean., 1964-67.
- 50+-E (Port Gardner Bay):  
U.W. Ocean., P.G., 1962-67.
- 19-PO (Narrows, south of Fletcher  
Bay):  
U.W. Ocean., P.O., 1964-65.
- 13-PO (north and south of Fletcher  
Bay): U.W. Ocean., Hoh, 1963-67.
- 1-SS (Carr Inlet, off Horsehead  
Bay): U.W. Ocean., Hoh, 1963-67.



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Miscellaneous Logs

- 19-SS (Case Inlet, off Taylor Bay to Whiteman Cove):  
U.W. Ocean., Hoh, 1963-67.
- 7-CS (Port Madison):  
U.W. Ocean., Hoh, 1963-68.
- 12-E (Port Gardner Bay):  
U.W. Ocean., Hoh, 1963-67.
- 22-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.
- 4-E (Penn Cove):  
U.W. Ocean., Hoh, 1963-67.
- 8-E (northeast of Rocky Point):  
U.W. Ocean., Hoh, 1963-67.
- 3-E (off Demock Point):  
U.W. Ocean., Hoh, 1963-67.
- 2-CS (south end of Possession Sound):  
U.W. Ocean., Commando, 1968.
- 9-CS (off Skiff Point):  
U.W. Ocean., Commando, 1968.
- 2-CS (south of Point Pully):  
U.W. Ocean., Commando, 1968.
- 8-SS (Case Inlet):  
U.W. Ocean., Commando, 1968.
- 3-PO: U.W. Ocean., Commando, 1968.
- 5-HC (near Seabeck):  
U.W. Ocean., Commando, 1968.
- 4-E (Port Susan):  
U.W. Ocean., Commando, 1968.
- 50+-CS (off Skiff Point to off Point Jefferson): U.W. Ocean., herring trawl, 1968-69.
- 1-S (Elliott Bay): U.W. Ocean., herring trawl, 1968-69.
- 50+-SS (mouth of Carr Inlet): U.W. Ocean., herring trawl, 1968-69.
- 50+-E (Port Susan): U.W. Ocean., herring trawl, 1968-69.
- 22-PO (south of Fletcher Bay): U.W. Ocean., herring trawl, 1968-69.
- 1-E (Penn Cove):  
U.W. Ocean., Hoh, S.J., 1966.
- 2-E (Utsalady):  
U.W. Ocean., Hoh, S.J., 1966.
- 2-E (Port Susan):  
U.W. Ocean., Hoh, S.J., 1966.
- 2-E (Port Gardner Bay):  
U.W. Ocean., Hoh, S.J., 1966.
- 23-JF (Protection Island):  
WSDF, groundfish trawl, 1970.
- 24-JF (Port Discovery):  
WSDF, groundfish trawl, 1970.
- 1-CP (south of Olalla):  
WSDF, groundfish trawl, 1970.
- 1-CP (Point Richmond):  
WSDF, groundfish trawl, 1970.
- 9-AI (Port Townsend): WSDF, groundfish trawl, through 1970.
- 13-AI (Oak Bay): WSDF, groundfish trawl, through 1970.
- 1-AI (Olele Point): WSDF, groundfish trawl, through 1970.
- 2-AI (Skunk Bay): WSDF, groundfish trawl, through 1970.
- I-AI (Marrowstone Island): WSDF, groundfish trawl, through 1970.
- 1-E (Penn Cove): WSDF, groundfish trawl, through 1970.
- 1-SS (Drayton Pass.): WSDF, groundfish trawl, through 1970.
- 2-SS (Eld Inlet): WSDF, groundfish trawl, through 1970.
- 1-SS (Dana Pass.): WSDF, groundfish trawl, through 1970.
- 33-B (Bellingham Bay): WSDF, groundfish trawl, through 1970.
- 24-AI (east of Port Townsend to north of Marrowstone Island):  
NMFS, Cobb-35.
- 6-JF (west of Protection Island):  
NMFS, Cobb-35.
- 1-JF (between Protection Island and Port Discovery): NMFS, Cobb-35.
- 3-SS (Carr Inlet): NMFS, Cobb-68.
- 1-CS (Poverty Bay): NMFS, Cobb-68.
- 1-E (between Whidbey Island and Gedney Island): NMFS, Cobb-68.
- 3-E (Saratoga): NMFS, Cobb-68.
- 3-E (Holmes Harbor): NMFS, Cobb-68.
- 4-PO (south of Fletcher Bay):  
NMFS, Cobb-68.
- 1-JF (northeast of Ediz Hook):  
NMFS, Cobb-68.
- 1-HC (off Dabob Bay):  
NMFS, Cobb-68.
- 1-HC (off Ayock Point):  
NMFS, Cobb-68.
- 1-B (Eliza Island): NMFS, Cobb-68.
- 2-E (Saratoga Pass., north of Holmes Harbor, mid-channel):  
NMFS, Cobb-70.
- 1-HC (off Hoodspoint):  
NMFS, Cobb-70.
- 1-HC (north off Liliwaup):  
NMFS, Cobb-70.
- 1-CS (northwest off Edmonds):  
NMFS, Cobb-70.
- 1-CS (off Norma Beach):  
NMFS, Cobb-70.
- 1-CS (southeast of Port Madison):  
NMFS, Cobb-70.
- 1-S (off Richmond Beach):  
NMFS, Cobb-70.
- 1-SS (off north of Glen Cove):  
NMFS, Cobb-72.
- 1-SS (off Wilson Point):  
NMFS, Cobb-72.
- 1-CS (Port Madison): NMFS, Cobb-72.
- 1-CS (Norma Beach): NMFS, Cobb-72.
- 1-CS (off Skiff Point):  
NMFS, Cobb-78.
- 1-CP (mid Colvos Pass.):  
NMFS, Cobb-78.
- 3-E (lower Port Susan):  
NMFS, Cobb-78.
- 1-HC (north of Seabeck Bay):  
NMFS, Cobb-78.
- 2-JF (mid-channel, north of Morse Creek): NMFS, Cobb-90.
- 1-JF (west of Hein Bank):  
NMFS, Cobb-90.

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Miscellaneous Logs

- 1-S (north off Meadow Point):  
NMFS, Cobb-91.
- 4-E (north end of Saratoga Pass.):  
NMFS, Cobb-91.
- 4-E (Holmes Harbor): NMFS, Cobb-91.
- 1-CS (off Apple Cove Point):  
NMFS, Cobb-92.
- 1-JF (northwest off Dungeness):  
NMFS, Cobb-92.
- 1-JF (off Dungeness Spit):  
NMFS, Cobb-97-7.
- 1-S (off Golden Gardens):  
NMFS, Cobb-75.
- 2-SS (Carr Inlet): NMFS, Cobb-75.
- 1-SS (Case Inlet): NMFS, Cobb-75.
- 2-E (Everett Harbor):  
NMFS, Cobb, 1/20/61.
- 1-E (Saratoga Pass):  
NMFS, Cobb, 1/20/61.
- 21-SJ (East Sound, south of Rosario Point): NIH, 1964-66.
- 2-SJ (East Sound): NIH, 1968-71.
- 2-B (Eliza Island to Nooksack River to Marine Drive): NIH, 1968-71.
- 1-S (Duwamish Head to Alki Point):  
NIH, 1968-71.
- 1-SS (Case Inlet, off Stretch Island to off Herron Island):  
NIH, 1968-71.
- 8-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 2-SS (Eld Inlet entrance):  
Van Cleve, trap, 1961-65.
- 3-E (Holmes Harbor):  
Van Cleve, trap, 1961-65.
- 1-E (Saratoga Pass., south of Penn Cove): Van Cleve, trap, 1961-65.
- 10+-SJ (Sucia Island):  
Allyn Johnson, personal communication, 1972.
- 2-JF (beach seine, inside Dungeness Spit): Peninsula College, 1971.
- 5-JF (north of Ediz Hook):  
NMFS, Cobb-25.
- 17-GS (tow area 1, Boundary Bay entrance):  
WSDF, Gulf Georgia, 1969-71.
- 20-GS (tow area 2, off Birch Bay):  
WSDG, Gulf Georgia, 1969-71.
- 20-GS (tow area 3, off Cherry Point):  
WSDF, Gulf Georgia, 1969-71.
- 14-GS (tow area 4, off north of Neptune Beach):  
WSDF, Gulf Georgia, 1969-71.
- 14-GS (tow area 5, north of Alden Bank):  
WSDF, Gulf Georgia, 1969-71.
- 15-GS (tow area 5, southeast of Point Roberts):  
WSDF, Gulf Georgia, 1969-71.
- 5-GS (tow area 7, mid-channel):  
WSDF, Gulf Georgia, 1969-71.
- 5-GS (tow area 8, mid-channel):  
WSDF, Gulf Georgia, 1969-71.
- 1-GS (tow area 9, mid-channel):  
WSDF, Gulf Georgia, 1969-71.
- 2-SJ (East Sound): Bruce Miller, Diving Log, 1963-71.
- 1-SJ (lower East Sound): Bruce Miller, Diving Log, 1963-71.
- 1-CS (south of Possession Point):  
NMFS, Cobb, 2/28/73.
- 10-JF (west of Protection Island):  
NMFS, Cobb, 2/28/73.
- 1-GS (south of Cherry Point):  
Sea Grant, 72209.
- 1-HC (off Big Beef Harbor):  
Sea Grant, 72026.
- 2-B (north Bellingham Bay, mid-channel off Nooksack estuary):  
Sea Grant, 72035.
- 1-E (east and northeast of Gedney Island):  
NMFS, Streeter, 2/21/73.
- 1-E (Skagit and Similk Bays):  
WSDF, Sport Fish., 1965-70.
- 11+-HC: WSDF, Sport Fish., 1965-70.
- 1-S (Edmonds): WSDF, groundfish trawl, through 1970.
- 2-SJ (north end of Orcas Island):  
Allyn Johnson, sport catch, 1972.
- 1-GS (Point Roberts):  
Al Milbun, Diving, 1961.
- 2-S (beach seine, north side of West Point): Sea Grant, 1973.
- 1-S (deep otter trawl, off West Point): Sea Grant, 1973.
- 2-B (Bellingham Bay, off Nooksack River Flats): Sea Grant, 73032.
- 1-SS (McLane Cove Bridge):  
Steve Borton, personal communication, 9/11/73.
- 1-SS (Carr Inlet, in creek mouth at Rosedale):  
Steve and Heidi Borton, personal communication, 12/73.
- 3-SS (mid-channel, McLane Cove to Stretch Island):  
Sea Grant, 1973-74.
- 1-HC (off Union): Sea Grant, 1973.
- 5-HC (mid-channel, off Union):  
Sea Grant, 1973-74.
- 2-HC (mid-channel, off Skokomish Flats): Sea Grant, 1973.
- 4-CS (Picnic Point to Norma Beach; Port Madison; south end of Bainbridge Island; Neill Point to Point Dalco on Vashon Island):  
Doug Olander, Sport Catch Log, 1972-73.
- 2-CP (off Point Richmond):  
Doug Olander, Sport Catch Log, 1972-73.
- 3-S (south side of West Point):  
Doug Olander, Sport Catch Log, 1972-73.
- 1-PO (Agate Pass, south of buoy N6):  
Doug Olander, Sport Catch Log, 1972-73.



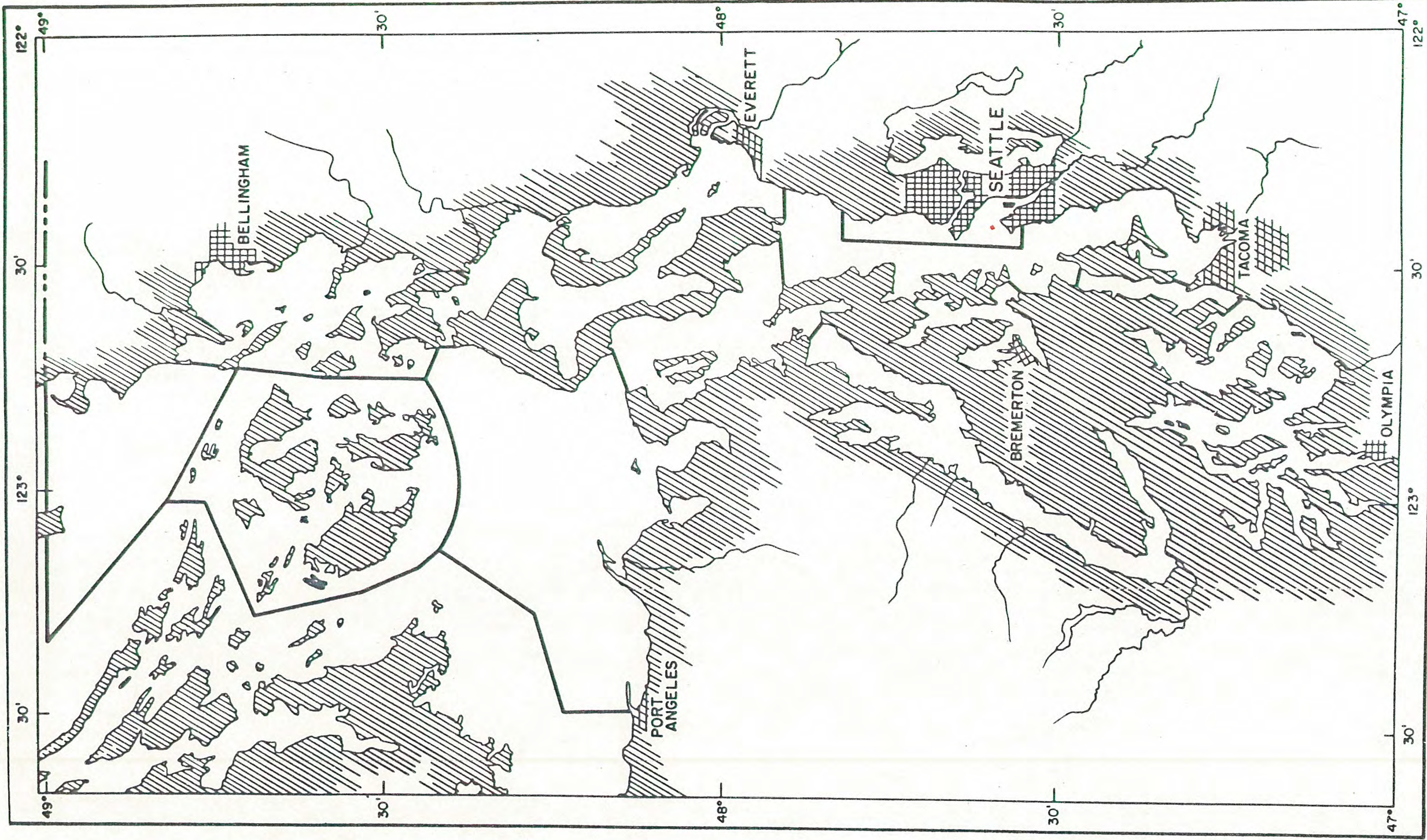
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Miscellaneous Logs

- 2-E (northeast part of Holmes Harbor): Doug Olander, Sport Catch Log, 1972-73.
- 2-AI (Admiralty Head, off jetty and old ferry dock to Head): Doug Olander, Sport Catch Log, 1972-73.
- 3-E (Hope Island to Skagit-Kiket Island): Doug Olander, Sport Catch Log, 1972-73.
- 2-HC (Point Hannon to Hood Head): Doug Olander, Sport Catch Log, 1972-73.
- 3-S (north to south ends of Edmonds Breakwater): Doug Olander, Sport Catch Log, 1972-73.
- 1-SJ (Doe Bay): Doug Olander, Sport Catch Log, 1972-73.
- 1-E (Onamac Point): Doug Olander, Sport Catch Log, 1972-73.
- 1-HC (Bangor Wharf): Kramer, Chin and Mayo NCEL Survey, 1973.







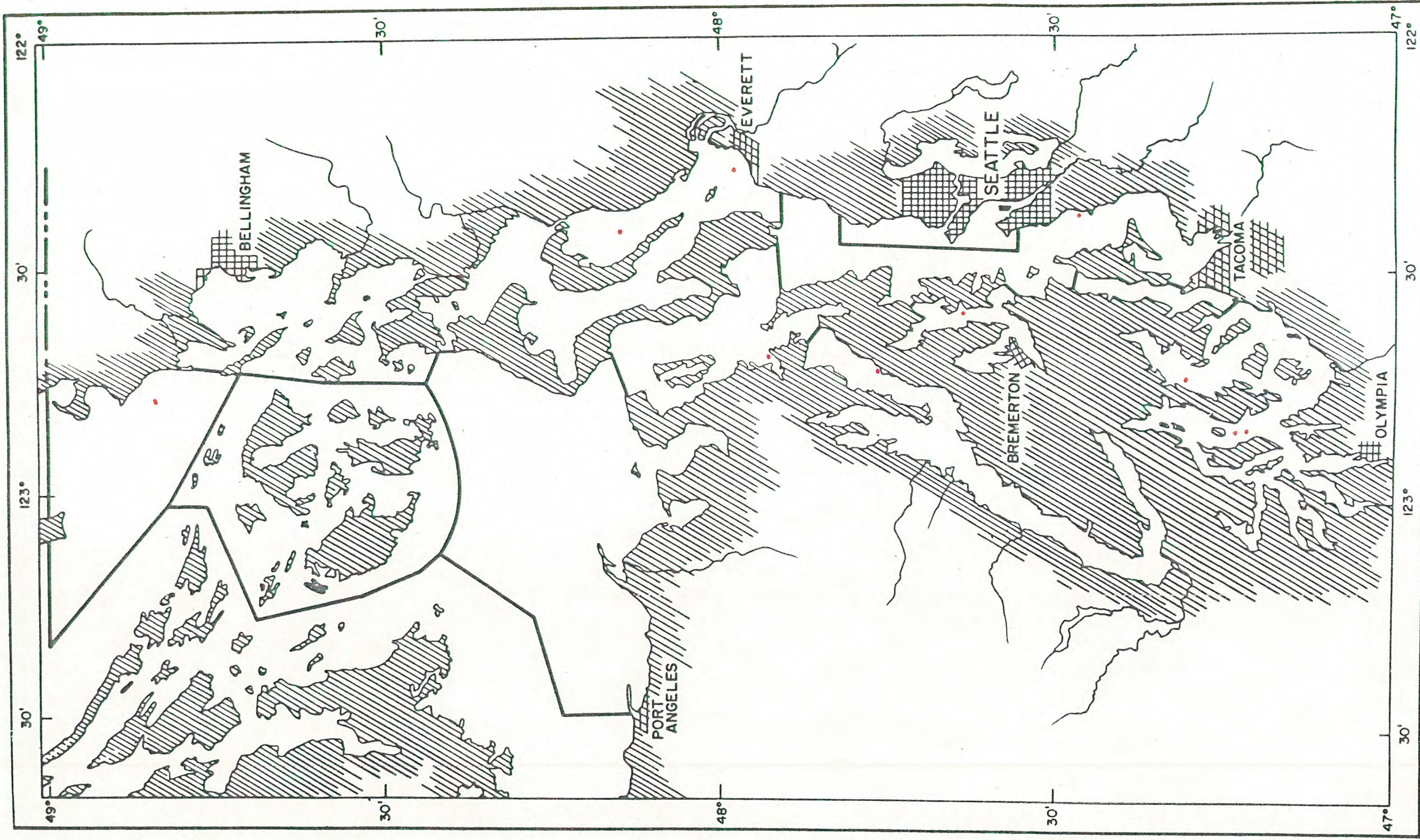
*Squatina californica*

Squatinidae

Published Records

1-S (near Seattle): Schultz et al.  
1932 (also museum 1508).







*Torpedo californica*

## Torpedinidae

Published Records

- 1-E (Port Susan): DeLacy and  
Chapman, 1935 (also museum 2898).

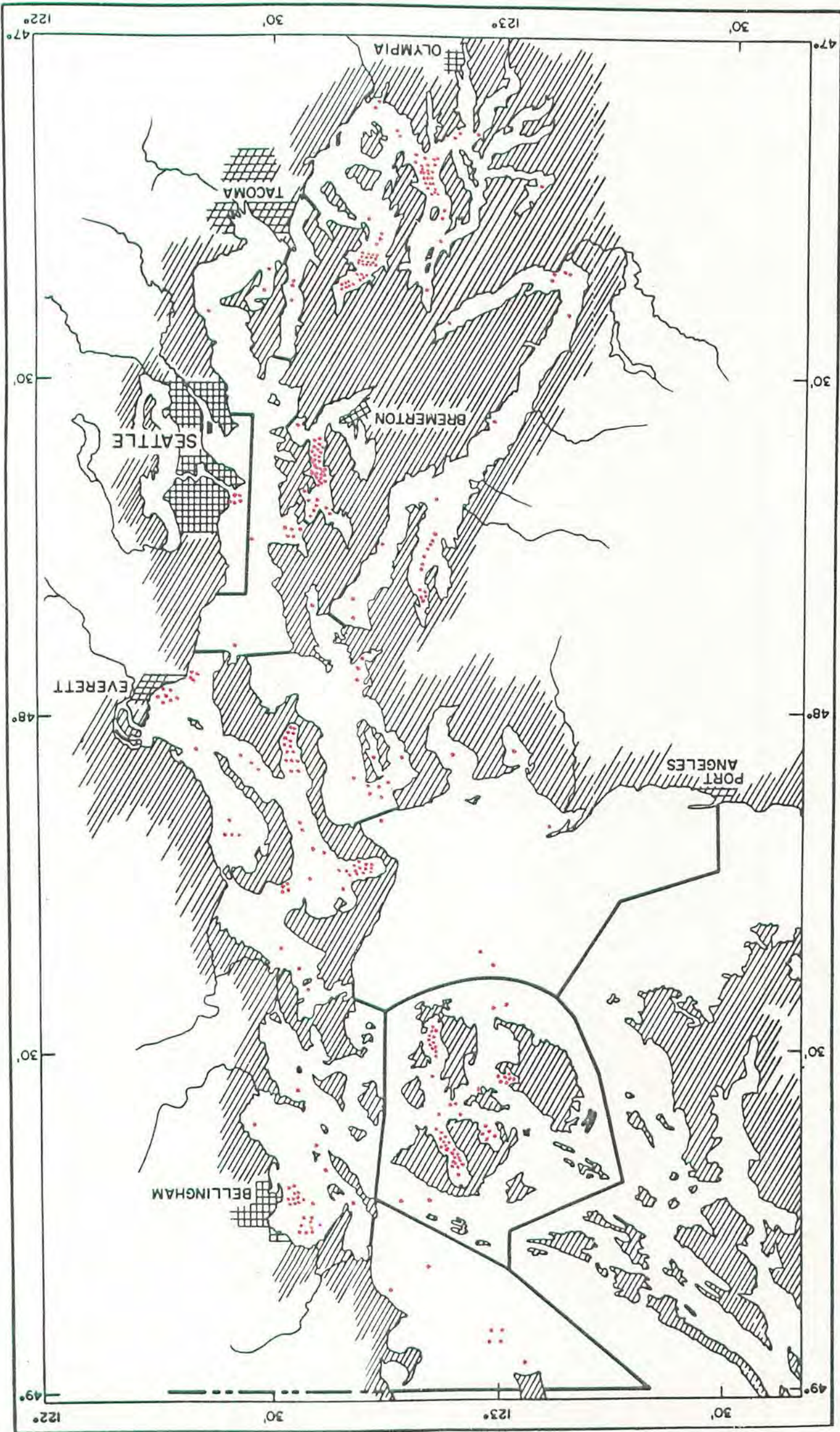
University of Washington  
Museum Collection

- 1-GS (between Alden Bank and Cherry  
Point): 16932.  
1-E (off Everett): 3653.  
1-PO (probably off near Fletcher  
Bay): 18954.

Miscellaneous Logs

- 1-AI (Port Ludlow):  
Chuck Griswold, personal communi-  
cation, spear fishing, 4/5/64.  
2-SS (both Case and Carr Inlets):  
at Tacoma (display) aquarium, C.  
Brosseau, personal communication,  
2/65.  
1-HC (7 or 8 miles south of floating  
bridge on east side, just north  
of north Bangor boundary):  
Andrew W. Anderson, personal  
communication, specimen dead on  
beach, 9/71.  
1-CS (Seahurst Park): 3 divers,  
were shocked, personal  
communication, 5/9/72.  
1-SS (Case Inlet): John Slipp,  
personal communication, 1965.





*Raja binoculata* (big skate)

Rajidae



*Raja binoculata*

## Rajidae

Published Records

- 1-PS: DeLacy and Chapman, 1935.  
 1-PS: Jordan and Gilbert, 1881c.  
 1-SJ: Starks, 1911.  
 1-PS: Kincaid, 1919.  
 1-PS: Jordan and Starks, 1896.  
 2-AI (Port Townsend):  
   Evermann and Goldsborough, 1907.  
 1-AI (Kilisut Harbor):  
   Evermann and Goldsborough, 1907.  
 1-AI (Port Ludlow): Starks, 1896b.  
 1-HC (Hoodsport): Smith, 1937.  
 1-JF (mid Point Wilson to Admiralty Head):  
   Evermann and Goldsborough, 1907.  
 1-AI (north of Kala Point):  
   Evermann and Goldsborough, 1907.  
 1-AI (Port Ludlow, Colvos Rocks):  
   Evermann and Goldsborough, 1907.  
 4-GS: Smith, 1936.  
 8-B (Bellingham Bay): Smith, 1936.  
 5-E (Coupeville): Smith, 1936.  
 1-E (Oak Harbor): Smith, 1936.  
 1-JF (Sequim Bay): Smith, 1936.  
 1-JF (Port Discovery): Smith, 1936.  
 1-AI (Port Townsend): Smith, 1936.  
 1-HC (Bangor): Smith, 1936.  
 1-HC (Dabob Bay): Smith, 1936.  
 2-E (Skagit Bay): Salo, 1969.  
 1-E (Holmes Harbor): Hanson, 1967.  
 1-SJ (East Sound): Hanson, 1967.  
 1-SJ (West Sound): Hanson, 1967.  
 1-SJ (Lopez Sound): Hanson, 1967.  
 1-SJ (Upright Head): Hanson, 1967.  
 1-JF (Middle Channel):  
   Hanson, 1967.  
 1-SJ (Lopez Island): Read, 1969.  
 1-B (Bellingham Bay): Read, 1969.  
 1-SJ (Friday Harbor): Lloyd, 1936.  
 1-SJ (Friday Harbor):  
   Kohlruss, 1933.  
 1-SJ (San Juan Island): Hart, 1935.  
 1-SJ (Friday Harbor): Hart, 1935.  
 1-GS (Point Roberts): Hart, 1935.  
 1-E (Skagit and Similk Bays):  
   Stober and Salo, 1970a.

University of Washington  
Museum Collection

- 1-PS: 418.  
 1-E (off Everett): 3585.  
 1-PS: 3662.  
 1-PS: 4864.  
 1-B (Hale Pass.):  
   16068 (also boat 491I).

Friday Harbor Laboratory Log

- 3-SJ (West Sound):  
   6/23/51-1; 7/26/61; 6/27/63-B.  
 1-SJ (Upright Head): 6/28/51-1.  
 4-SJ (Lopez Sound): 7/12/51-2;  
   7/28/55-1; 6/16/61; 7/8/69-2.  
 1-SJ (north of Hunter Bay):  
   6/19/50-5 (also boat 5033G).

- 2-SJ (lower East Sound): 6/20/50-2  
   (also boat 5033I); 6/26/73-1.  
 1-SJ (northwest of Barnes Island):  
   6/20/50-3 (also boat 5033J).  
 1-SJ (south of Orcas Island):  
   6/24/52.  
 1-B (south of Eliza Island):  
   8/8/55-1.  
 1-B (off Inati Bay): 8/8/55-2.  
 1-SJ (Lopez Sound or East Sound):  
   7/1/52.  
 1-SJ (Salmon Banks): 7/7/52-2.  
 7-SJ (East Sound): 8/11/52;  
   7/6/60-2; 6/20/61; 7/26/60-1;  
   5/11/62; 6/29/71-1; 7/6/71-1.  
 1-SJ (Squaw Bay): 8/1/55.  
 1-JF (west of McArthur Bank):  
   8/3/55-1 (also boat 5520A).  
 1-B (Bellingham Bay): 1968.  
 1-SJ (East or West Sound): 7/25/55.  
 1-SJ (southeast of Cattle Point):  
   8/3/55-2 (also boat 5520B).  
 1-SJ (west of Center Island):  
   8/8/55-1.  
 1-SJ (Upright Head to East Sound):  
   7/10/61-2.  
 4-SJ (mid East Sound):  
   1/17/64; 4/3/64; 6/5/64; 7/11/64.  
 2-SJ (Friday Harbor):  
   7/9/69; 7/10/69-1.  
 2-SJ (Friday Harbor Lab):  
   7/13/69; 7/17/69-1.

University of Washington Boat Log

- 1-GS (north of Alden Bank): 491G.  
 1-GS (off Cherry Point): 491H.  
 1-SJ (East Sound): 5033M.  
 2-SJ (west of Ram Island, Lopez Sound): 491P; 5033R.  
 1-SJ (West Sound): 5033L.  
 1-SJ (between Puffin Island and Orcas Island): 491E.  
 1-SJ (Lopez Sound, south of Spencer Spit): 5033P.  
 2-SJ (training cruise area, Lopez Sound, southwest of Center Island): 7118I; 7017I.  
 4-SJ (East Sound, north of Rosario Point):  
   6517H; 6603H; 7307H; 7313H.  
 10-B (training cruise area, southwest of Post Point):  
   6507G9; 6512G; 6517G; 6614G;  
   6815G; 6822G; 7307G; 7017G;  
   7010G; 7017G.1.  
 2-E (Holmes Harbor, off Rocky Point to off Dines Point):  
   491Q; 5234A.  
 3-E (Port Susan, off Warm Beach):  
   5023C,A,B.  
 1-E (off Mission Beach): 5023F.  
 2-E (Penn Cove mouth, off Long Point to off Snatelum Point):  
   5213A; 5810G.

*Raja binoculata*

## Rajidae

University of Washington Boat Log

1-E (off Coupeville to off Lovejoy Point): 5213C.  
 6-E (Holmes Harbor, south of Classic):  
 5234F; 5316D,E; 5501A,C,E.  
 3-E (Holmes Harbor, south of Dines Point to off Classic):  
 5305C; 5405H; 5501D.  
 4-E (Holmes Harbor):  
 5305F; 5420C; 5604D,F.  
 1-E (Saratoga Pass., off Saratoga to off Langley): 53210.  
 6-E (Penn Cove):  
 5405I,J,K; 5420E; 5522F,G.  
 2-E (Saratoga Pass., off Onamac Point to off Indian Beach):  
 5405M, 5418L.  
 2-E (in Elger Bay): 54050; 5418I.  
 4-E (off Mukilteo):  
 5604A,B,C; 6407.  
 1-E: 5712B.  
 1-E (Saratoga Pass., off south of Snatelum Point to off north of Onamac Point): 5712C.  
 1-E (training cruise area, off Penn Cove): 6614E.  
 2-E (Saratoga Pass.):  
 6801.5; 6821.5D.  
 1-AI (east of north end of Marrowstone Island): 6507J.  
 1-HC (off Shine): 12/28/48-1.  
 1-HC (off Lofall): 12/28/48-4.  
 4-HC (Dabob Bay): 6202C; 6105A,B,C.  
 5-HC (Dabob Bay, Broad Spit to Long Spit):  
 6601C; 6724A; 7202E,H; 7003B.  
 1-PO: 7104-1.  
 2-PO (Agate Pass., between buoy N4 and buoy N6): 5106E; 5131A.  
 43-PO (off Fletcher Bay to off south of Battle Point): 5207D,E;  
 5226A; 5228F; 5232C; 5235P;  
 5301A; 5302BB; 5306A; 5317B;  
 5504; 5507; 5523A; 5602A,B;  
 5615D; 5901AK; 5904A,B,C; 5905A;  
 5912A; 5915A,B; 5919A; 6001AM,AN;  
 6008A; 6016A3,B5; 6021A,B,C,D,E;  
 6111A; 6205D3; 6307; 6320A;  
 6046C; 6427B; 6507K; 6707.  
 9-PO (off south of Fletcher Bay, north from "B-2"):  
 5229C,D; 5413E; 5421D; 5503B;  
 5801A,B; 6118A,C.  
 3-PO (off Manzanita to buoy N6 to off Seabold):  
 5236B; 5310.2B; 5310.4B.  
 4-PO (between "B-2" and "B-1"):  
 5236F; 5301C; 5526A; 6205C3.  
 1-PO (in Manzanita Bay): 5310.3C.  
 2-PO: 5306B; 6002A.  
 2-PO (Point Bolin to Keyport):  
 5310.4D,E.  
 4-S (off Golden Gardens):  
 491A; 5029A; 5508E; 5521.  
 1-S (beach seine, Golden Gardens):  
 5016D.

1-CS (mid-channel, Point Jefferson to Carkeek): 5911B.  
 3-CS (Port Madison, off Indianola):  
 492A; 5006D; 5043A.  
 1-CS (off Cultus Bay): 5032A.  
 1-CS (mid Quartermaster Harbor):  
 5042C.  
 1-CS (mouth of Quartermaster Harbor): 5104B.  
 1-CS (north of Des Moines): 5224A.  
 1-CS (Port Madison, near Agate Pass.): 5236A.  
 1-CP (off south of Sanford Point):  
 7/18/49-1.  
 1-CP (off north of Camp Sealath):  
 7/21/49-3.  
 1-CP (off Camp Sealath): 5104CC.  
 2-SS (west of Herron Island):  
 5009G; 5126H.  
 2-SS (northwest end of Nisqually Reach): 5009I; 5201M.  
 17-SS (off Glen Cove to off Raft and Cutts Islands):  
 5009J; 5037G; 5045H; 5104J,L,P;  
 5204B,C,D,E,K,L,M,N; 5613H,I,F.  
 7-SS (off Wauna to off south of Wauna):  
 5037I; 5045I; 5101A; 5104E,F,G,W.  
 1-SS (southwest off Green Point):  
 5104T.  
 1-SS (Oakland Bay off Shelton):  
 5115B.  
 5-SS (off Minter Creek to off Elgin):  
 5101C; 5104D; 5126F; 5135A,D.  
 1-SS (Case Inlet, off Victor):  
 5126G.  
 1-SS (Dana Passage, off Unsal Point): 5201J.  
 1-SS (off McLane Cove to south end of Stretch Island): 5201L.  
 1-SS (Dana Pass., Brisco Point to Dofflemeyer Point): 5204H.  
 2-SS (Carr Inlet): 5522A; 5703A.  
 2-SS (Case Inlet): 5613K,L.  
 1-SS (Carr Inlet, mid-channel, Glen Cove to Green Point): 6724B-2.  
 1-SS (Case Inlet, east of Hartstene Island): 6724C.  
 4-PO: 6515-2; 6713E,F; 6716.5.  
 2-PO: 6916H; 7104.  
 1-HC (just south of Dabob Bay):  
 7003K.  
 1-HC (Anderson Cove): 7009C.  
 1-HC (Dabob Bay): 7102B.  
 2-B (training cruise area, Bellingham Bay, southwest of Post Point): 7110G; 7313G.  
 1-SJ (training cruise area, Lopez Sound, southwest of Center Island): 7110I.

Miscellaneous Logs

5-E (Port Gardner Bay):  
 U.W. Ocean., P.G., 1962-67.



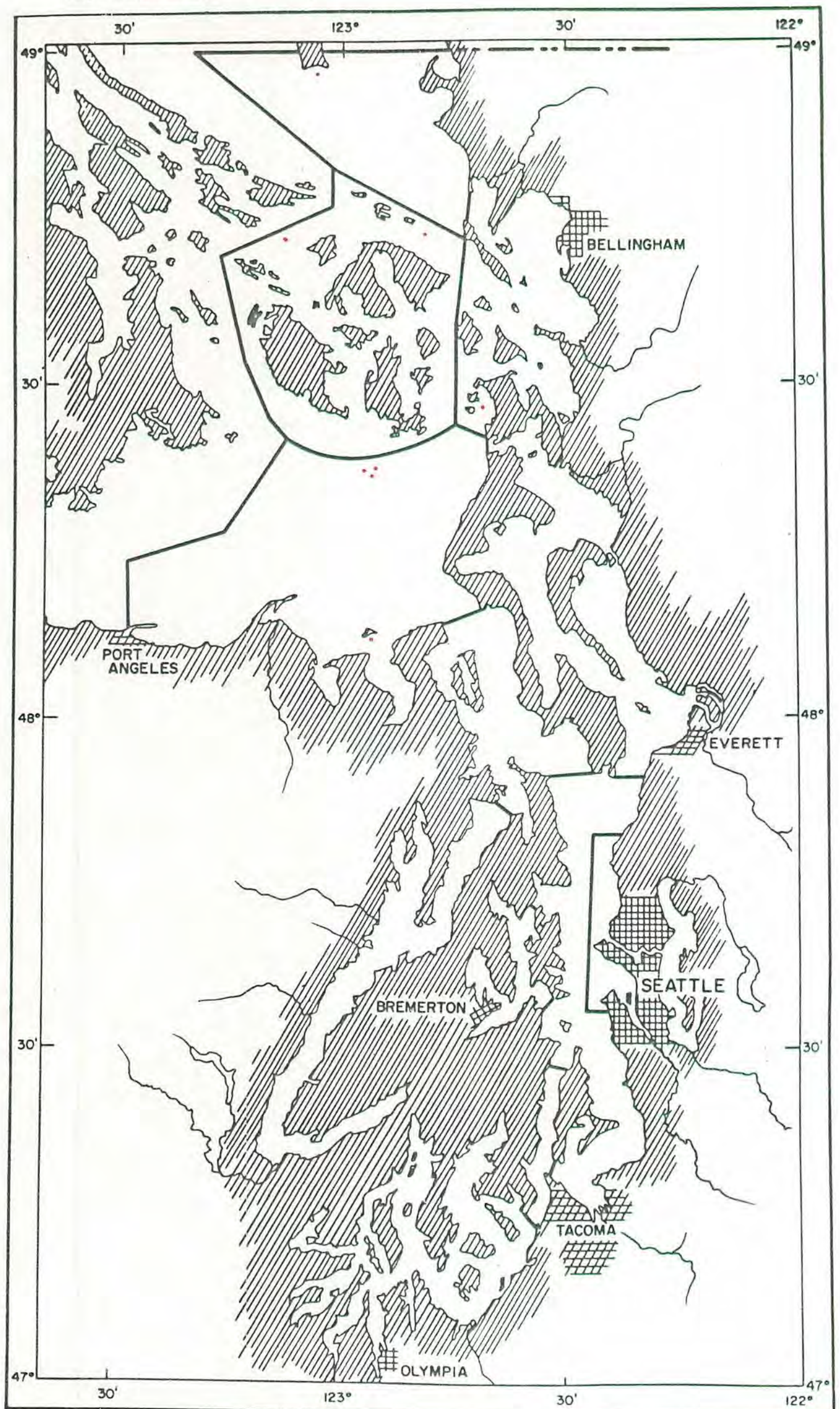
*Raja binocularata*

Rajidae

Miscellaneous Logs

- 12-PO (Narrows, south of Fletcher Bay):  
U.W. Ocean., P.O., 1964-65.
- 4-PO (south and north of Fletcher Bay): U.W. Ocean., Hoh, 1963-67.
- 1-HC (Lynch Cove):  
U.W. Ocean., Hoh, 1963-67.
- 18-SS (Case Inlet, off Taylor Bay to off Whiteman Cove):  
U.W. Ocean., Hoh, 1963-67.
- 1-CS (Port Madison):  
U.W. Ocean., Hoh, 1963-68.
- 4-E (northeast of Rocky Point):  
U.W. Ocean., Hoh, 1963-67.
- 2-E (Penn Cove):  
U.W. Ocean., Hoh, 1963-67.
- 1-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.
- 1-SS (Case Inlet):  
U.W. Ocean., Commando, 1968.
- 1-B (Padilla Bay, near William Point):  
U.W. Ocean., Hoh, S.J., 1966.
- 1-B (Samish Bay):  
U.W. Ocean., Hoh, S.J., 1966.
- 2-AI (east of Port Townsend, north of Marrowstone Island):  
NMFS, Cobb-35.
- 1-PO (Narrows, south of Fletcher Bay): NMFS, Cobb-68.
- 1-E (Everett Harbor):  
NMFS, Cobb, 1/20/61.
- 5-SJ (East Sound, south of Rosario Point): NIH, 1964-66.
- 2-SJ (East Sound): NIH, 1968-71.
- 1-PO (Clam Bay): NIH, 1968-71.
- 1-SS (entrance to Eld Inlet):  
Van Cleve, trap, 1961-65.
- 1-E (Penn Cove):  
Van Cleve, trap, 1961-65.
- 1-JF (Dungeness Spit): Bill High, personal communication, 8/2/71.
- 1-SS (Nisqually Reach, off mud flats): Sea Grant, 72034.
- 1-AI (Port Gamble): Bill High, personal communication, 7/57.
- 1-AI (Port Ludlow): Bill High, personal communication, 1958.
- 1-E (Saratoga Pass., west side south of Penn Cove):  
Van Cleve, trap, 1961-65.
- 1-SS (off Nisqually River-McAllister Creek Delta): Sea Grant, 1973.
- 1-HC (mid-channel, off Union):  
Sea Grant, 1974.
- 2-HC (off Skokomish Flats):  
Sea Grant, 1973.







*Raja kincaidi*

Rajidae

Published Records

- 1-SJ: Garman, 1908.  
1-SJ: Garmen, 1913.

University of Washington  
Museum Collection

- 1-GS (off Point Roberts): 6021.  
1-JF (west of McArthur Bank):  
11022.  
1-JF (west of McArthur Bank):  
17741 (also Friday Harbor Log,  
7/18/63-1).

Friday Harbor Laboratory Log

- 1-SJ (off northwest Barnes Island):  
6/20/50-3.  
1-JF (west of McArthur Bank):  
8/3/69.

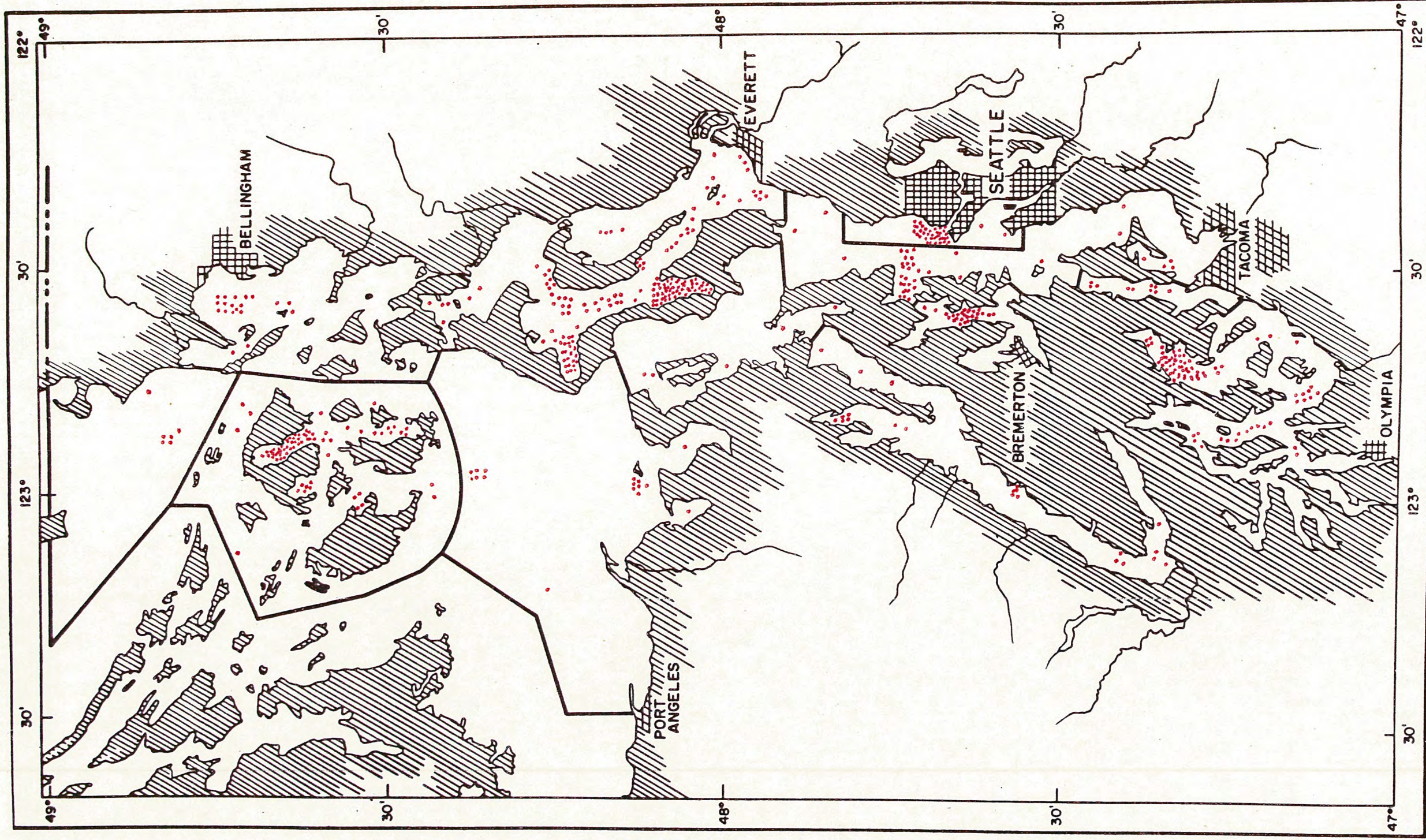
University of Washington Boat Log

- 1-SJ (between Skipjack Island and  
Turn Point): 491C.  
1-B (Burrows Bay): 5033S.

Miscellaneous Logs

- 1-JF (Protection Island):  
Battelle, 1967-69.







*Raja rhina*

## Rajidae

Published Records

- 1-PS: DeLacy and Chapman, 1935.  
 1-PS: Jordan and Gilbert, 1881c.  
 1-PS: Jordan and Starks, 1896.  
 1-SJ: Starks, 1911.  
 1-PS: Kincaid, 1919.  
 4-GS: Smith, 1936.  
 10-B (Bellingham Bay): Smith, 1936.  
 6-E (Coupeville): Smith, 1936.  
 1-E (Oak Harbor): Smith, 1936.  
 1-JF (Sequim Bay): Smith, 1936.  
 1-JF (Port Discovery): Smith, 1936.  
 1-AI (Port Townsend): Smith, 1936.  
 1-AI (Port Gamble): Smith, 1936.  
 1-HC (Bangor): Smith, 1936.  
 1-B (Hale Pass.): Smith, 1936.  
 1-E (Camano Head): Smith, 1937.  
 1-E (Mukilteo): Smith, 1937.  
 1-E (Columbia Beach): Smith, 1937.  
 3-E (Gedney Island): Smith, 1937.  
 1-SJ (Obstruction Island):  
   Smith, 1937.  
 1-SJ (Blakely Island): Smith, 1937.  
 1-E (Dewey): Smith, 1973.  
 1-E (Dines Point): Smith, 1937.  
 1-E (Watsak Point): Smith, 1937.  
 1-E (Utsalady): Smith, 1937.  
 1-CS (Meadowdale): Smith, 1937.  
 2-HC (Hoodsport): Smith, 1937.  
 1-HC (Skokomish Flats):  
   Smith, 1937.  
 1-SS (Carr Inlet): Smith, 1937.  
 1-SS (McNeil Island): Smith, 1937.  
 2-E (Skagit or Similk Bays):  
   Stober and Salo, 1970b.  
 4-E (Skagit Bay): Salo, 1969.  
 1-E (Holmes Harbor): Hart, 1935.  
 2-HC (Anderson Cove): Chew, 1970.

University of Washington  
Museum Collection

- 1-PS: 196.  
 1-S (Golden Gardens): 777.  
 2-SJ (Friday Harbor): 1849; 3569.  
 1-SJ (Olga): 1966.  
 2-E (off Camano Head, Saratoga  
   Pass.): 2550; 3572.  
 1-E (east of Gedney Island): 2577.  
 1-E (off Snohomish River): 2632.  
 2-E (Saratoga Pass.): 2917; 3571.  
 1-E (Port Susan): 2935.  
 1-PS: 3661.  
 1-CS (mid Port Madison):  
   5787 (also boat 492B).  
 1-CS (northeast off Apple Cove  
   Point): 8895 (also boat 5009A).  
 1-HC (off Union):  
   8907 (also boat 499H).  
 1-E (off Watsak Point, Saratoga  
   Pass.): 5218.  
 1-SJ (mid East Sound): 17146.  
 1-SS (mid East Sound):  
   18643 (also NIH, 1964-66).  
 1-SJ (mid East Sound): 18653 (also  
   Friday Harbor Log, 6/5/64).

- 1-SJ (lower East Sound):  
 19477 (also NIH, 1964-66).

Friday Harbor Laboratory Log

- 8-SJ (East Sound):  
 6/28/51-2; 8/11/52; 7/6/60-2;  
 7/26/60-1; 8/13/60-1; 6/20/61;  
 5/11/62; 7/6/71-1.  
 1-SJ (Spencer Spit, Lopez Sound):  
 6/28/51-3.  
 1-SJ (off Rocky Bay): 6/30/51-1.  
 6-JF (west of McArthur Bank):  
 7/12/51-1; 7/7/52-1; 8/3/55-1  
 (also boat 5520A); 8/8/60;  
 7/8/69-1; 7/19/63-1 (also museum  
 17692, 17850, and 17670).  
 3-SJ (Lopez Sound):  
 7/12/51-2; 7/28/55-1; 7/6/60-1.  
 1-B (Bellingham Bay): 7/26/51-2.  
 1-SJ (west of James Island):  
 7/24/50-4.  
 2-SJ (lower East Sound): 6/19/50-5  
 (also boat 5033I); 8/22/55-5.  
 1-B (south of Eliza Island):  
 8/8/55-1.  
 1-SJ (south Orcas): 6/24/52.  
 1-SJ (Lopez Sound to East Sound):  
 7/1/52.  
 1-SJ (Salmon Bank): 7/7/52-3.  
 5-SJ (West Sound): 7/9/52-3 (also  
 boat log, 5220I); 7/26/60-2;  
 8/13/60-2; 6/26/61; 8/4/61-1.  
 1-SJ (off Friday Harbor Lab):  
 7/31/52.  
 1-SJ (East or West Sound): 7/25/55.  
 1-SJ (southeast of Cattle Point):  
 8/3/55-2 (also boat 5520B).  
 1-SJ (west of Center Island):  
 8/11/55-1.  
 1-SJ (Upright Head to Obstruction  
   Pass.): 8/22/55-4.  
 5-SJ (mid East Sound):  
 8/22/55-7; 2/21/64; 4/3/64;  
 7/11/64; 6/20/69-1.  
 1-SJ (north of Hunter Bay):  
 6/19/50-5 (also boat 5033G).  
 1-SJ (off northwest Barnes Island):  
 6/20/50-3 (also boat 5033J).  
 1-SJ (West Sound or Lopez Sound):  
 6/27/60.  
 1-SJ (Upright Head to Olga):  
 8/1/60-2.  
 1-PS (Cattle Point to Smith Island):  
 6/28/61-1.  
 1-SJ (off Friday Harbor): 8/22/69.

University of Washington Boat Log

- 1-GS (north of Alden Bank): 491G.  
 1-GS (off Cherry Point): 491H.  
 1-SJ (Skipjack Island to Turn  
   Point): 491C.  
 1-SJ (between Puffin Island and  
   Orcas Island): 491E.



*Raja rhina*

## Rajidae

University of Washington Boat Log

- 1-SJ (off Raccoon Point toward Barnes Island): 491F.  
 1-SJ (north end of East Sound): 491M.  
 2-SJ (Lopez Sound, west of Ram Island): 491P; 5033R.  
 1-SJ (West Sound): 5033L.  
 1-SJ (East Sound): 5033M.  
 6-SJ (training cruise area, East Sound, north of Rosario Point): 6507H; 6603H; 6620H; 6717H; 6908A; 7307H.  
 1-B (Hale Pass.): 491I.  
 2-B (training cruise area, southwest of Post Point): 6507G9; 6603G.  
 16-E (Holmes Harbor, off Rocky Point to off Dines Point): 491Q; 5220D; 5220O; 5234A,C; 5307A,C,D, K,R,S; 5312H,I; 5327C,D,E.  
 2-E (off Warm Beach, Port Susan): 5023A,B.  
 1-E (off Mission Beach): 5023E.  
 1-E (off Utsalady Point): 5321E.  
 3-E (Penn Cove mouth, off Long Point to off Snatelum Point): 5213A; 5220E; 5330H.  
 7-E (Penn Cove, off Coupeville to off Lovejoy Point): 5213B,C; 5316I,J; 5321A,H; 5418E.  
 2-E (off Oak Harbor to Blower Bluff): 5220F,N.  
 1-E (north end Saratoga Pass., south of Point Polnell): 5220M.  
 27-E (Holmes Harbor, south of Classic): 5234E,F; 5305A,B,G; 5307E,F,G,H, M,N,O,P,T,U; 5312B,D,L,N; 5316D; 5501A,B,C,E,F; 5810E.  
 9-E (Holmes Harbor, south of Dines Point to off Classic): 5305C; 5312F,G,J,K; 5405G,H; 5501D; 5712E.  
 44-E (Holmes Harbor): 5305E,H,I,J,K,L,M; 5307V; 5325A, B,C,E; 5327A; 5330B,C,L; 5405A,B, C,D,E,F; 5418A,B,C,D; 5420A,B,H; 5522D,E; 5604E,F,G,H,I; 5613P,S; 5614E,E,F; 57C3E,G,H.  
 6-E (Saratoga Pass., south of Snatelum Point to off north of Onamac Point): 5316K,L; 5330F,I; 5418H; 5712C.  
 1-E (Saratoga Pass., off east of Snatelum Point): 5321J.  
 5-E (Saratoga Pass., Onamac Point to Indian Beach): 5321K; 5405L,M,N; 5418L.  
 21-E (Penn Cove): 5327F,G; 5330G; 5405I,J,K; 5418F, G; 5420E,F,G; 5522F,G; 5613U,V,W; 5614H,I,J; 5712A; 5810H.  
 5-E (in Elger Bay): 5405O,P,Q; 5418I,J.  
 2-E (Saratoga Pass., off North Bluff to off Greenbank): 5418M,N.  
 4-E (off Mukilteo): 5604C,B; 5613M,N.  
 1-E: 5712B.  
 2-E (south end of Saratoga Pass.): 6620E; 6722Y.  
 4-E (training cruise area, off Penn Cove): 6603E; 6717E; 6815E; 6826E.  
 2-E (training cruise area, Saratoga Pass., north of Langley): 6819D; 6914D.  
 1-AI (off White Rock): 499K.  
 1-AI (off Port Townsend): 5009B.  
 1-AI (Oak Bay, north of Olele Point): 5009C.  
 1-HC (off Shine to off Sisters): 499C.  
 1-HC (across from Hoodspoint): 499F.  
 1-HC (off Sister Point): 499G.  
 1-HC (Dabob Bay, off Tabook Point): 499I.  
 1-HC (off Thornedyke Bay): 499J.  
 5-HC (Dabob Bay, Broad Spit to Long Spit): 6629B,E; 6828B; 6902E,F.  
 8-CS (mid Port Madison): 1/22/49-5; 492A; 5006D; 5048B; 5122A,B; 5132D; 5812A.  
 5-CS (off Port Madison): 495A,B; 497A,B; 5043C.  
 1-CS (off Cultus Bay): 5032A.  
 3-CS (mouth of Quartermaster Harbor): 5042A; 5104B; 5115H.  
 1-CS (mid Quartermaster Harbor): 5042D.  
 1-CS (Tramp Harbor): 5104A.  
 1-CS (east off Blake Island): 5115I.  
 1-CS (mid-channel, off West Point): 5115J.  
 1-CS (north of Des Moines): 5224A.  
 4-CS (off Agate Pass., off Suquamish): 5232A; 5236A; 5302AA; 5317C.  
 5-CS (mid-channel between Meadow Point and Port Madison): 5314B; 5516A; 5608A; 5709B; 5911B.  
 2-CS (east off Point Monroe): 5805C; 5813B.  
 1-CS (Murden Cove): 6818B.  
 1-PO (between buoy N4 and N6): 5132C.  
 21-PO (off Fletcher Bay to off south of Battle Point): 5206B; 5207O; 5223B; 5226B; 5228E,F; 5230F; 5232C; 5201A; 5309A; 5310.5G; 5315B; 5402X; 5504; 5615A; 5809A; 5912A; 5915B; 5919A; 5923B; 6101A.  
 2-PO (off Battle Point to off north of Battle Point): 5309B; 5310.3A.  
 2-PO (between "B-2" and "B-1"): 5301C; 5236F.  
 4-PO (off south of Fletcher Bay): 5229A,D; 5413C,D.



*Raja rhina*

## Rajidae

University of Washington Boat Log

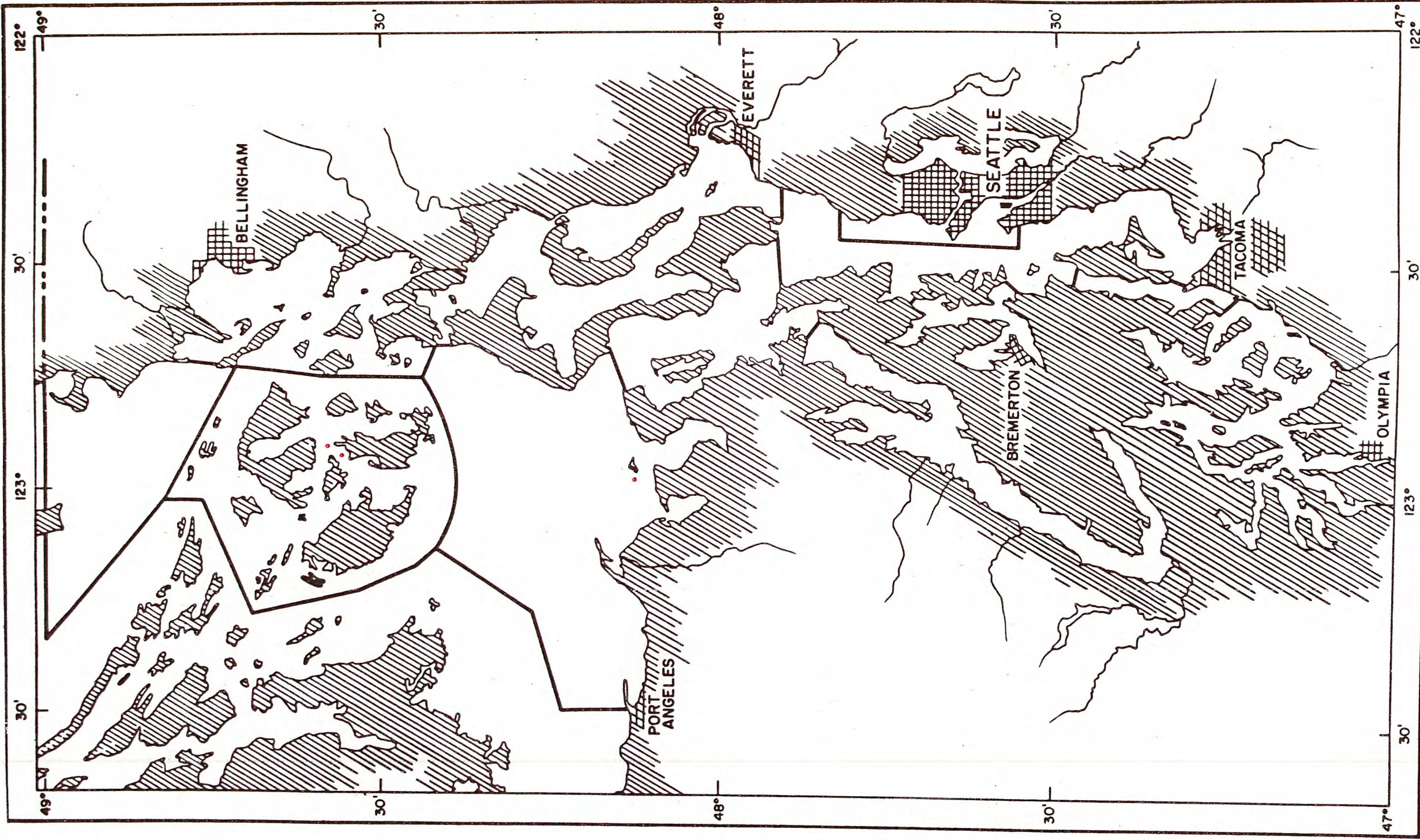
- 1-PO (off Manzanita to off Seabold): 5310.5E.  
 1-PO: 6419.  
 4-S (beach seine, Golden Gardens to Meadow Point): 5021F; 5047A; 5134A; 5215A.  
 49-S (off Golden Gardens to off Meadow Point): 491A; 492D,F; 494C,F; 495D; 496B, C; 498A; 4910A; 5008B; 5009K,L; 5011D; 5017B,C,D,E; 5025; 5029A, D,E; 5033A; 5034B,E,G; 5039A,D; 5041A; 5110B,C,D; 5112B,C; 5119C, D,G,H; 5126A; 5129D; 5131C; 5132A; 5203C,D; 5233B,C; 5416B; 5512F; 6114A.  
 11-S (off north of Meadow Point to Carkeek Park): 5020A; 539C; 5041B; 5044A; 5110A; 5119B; 5203B; 5212A,B,E,F.  
 1-S (off Alki Point toward Duwamish Head): 5027B.  
 1-S (Elliott Bay, off Four-Mile Rock to Pier 91): 5027C.  
 2-CP (off Sandford Point): 7/18/49; 5126N.  
 1-CP (south end of West Pass.): 7/21/49-1.  
 4-CP (off Camp Sealth): 7/21/49-2,3; 5104CC,DD.  
 3-CP (off Cove): 5046A; 5133Q; 5135E.  
 2-SS (off McLane Cove to south end of Stretch Island): 7/20/49-3; 5201L.  
 2-SS (west off Herron Island): 5009G; 5126H.  
 18-SS (off Minter Creek to Elgin): 7/19/49-1; 5037H; 5045G,J; 5046C; 5101C; 5104D,V,X; 5107A; 5126D,F; 5135B,C,D; 5213F; 5227G,I.  
 8-SS (northwest end of Nisqually Reach to south of Devils Head): 7/20/49-5; 5009I; 5126J; 5201C,D, M; 5204F,G.  
 1-SS (north end Pickering Pass. to off McLane Cove): 5009H.  
 34-SS (off Glen Cove to west of Raft and Cutts Islands): 5009J; 5037C; 5045A,K; 5101B; 5102A; 5104J,K,L,M,N,O,P,Q,Y,Z,AA; 5115F; 5126M; 5201A; 5204A,C,D,E, K,L; 5213D; 5613A,C,D,E,F,I,B.  
 3-SS (mouth of Carr Inlet, southwest of Green Point): 5037A; 5104S,T.  
 1-SS (mid-channel, Gibson Point to Gertrude Island): 5046D.  
 4-SS (off Wauna to off south of Wauna): 5101A, 5104W,F; 5227C.  
 1-SS (off north of Home to off Horsehead Bay Spit): 5104R.  
 1-SS (west of Kepron Island): 5126K.  
 1-SS (Dana Pass., off Unsal Point): 5201J.

- 1-SS (Dana Pass., Brisco Point to Dofflemeyer Point): 5204H.  
 5-SS (Carr Inlet): 5522C,B; 5605A,D; 5703D.  
 2-SS (Case Inlet): 5613J,K.  
 2-SS (mid Glen Cove to Green Point): 6724B-1,3.  
 1-SS (Case Inlet, east of Hartstene Island): 6724C.  
 1-SJ (training cruise area, East Sound, north of Rosario Point): 6914H.  
 1-PO: 6916D.  
 2-HC (Anderson Cove): 7009A,C.  
 1-HC (Dabob Bay): 7102L.  
 1-SJ (training cruise area, Lopez Sound, southwest of Center Island): 7110I.  
 1-HC (Anderson Cove): 7009B.

Miscellaneous Logs

- 2-E (Port Gardner Bay): U.W. Ocean., P.G., 1962-67.  
 1-PO (Narrows, just south of Fletcher Bay): U.W. Ocean., P.O., 1964-65.  
 3-SS (Case Inlet, off Taylor Bay to off Whiteman Cove): U.W. Ocean., Hoh, 1963-67.  
 1-E (Penn Cove): U.W. Ocean., Hoh, 1963-67.  
 5-E (off Demock Point): U.W. Ocean., Hoh, 1963-67.  
 1-E (Port Susan): U.W. Ocean., Hoh, 1963-67.  
 3-E (northeast of Rocky Point): U.W. Ocean., Hoh, 1963-67.  
 1-B (Bellingham Bay): U.W. Ocean., Hoh, S.J., 1966.  
 1-SS (Case Inlet): WSDF, Commercial Catch Comp., 1966-71.  
 2-B (Eliza Island): NMFS, Cobb-68.  
 1-E ((Saratoga Pass.): NMFS, Cobb, 1/20/61.  
 17-SJ (East Sound, south of Rosario Point): NIH, 1964-66.  
 2-SJ (East Sound): NIH, 1968-71.  
 1-E (Holmes Harbor): Van Cleve, trap, 1961-65.  
 1-SJ (East Sound): Bruce Miller, Diving Log, 1963-71.  
 7-JF (west of Protection Island): NMFS, Cobb, 2/28/73.  
 1-E (Everett): WSDF, Sport Fish., 1965-70.  
 1-E (Utsalady): U.W. Ocean., Hoh, S.J., 1966.  
 1-JF (northwest of Dungeness Spit): NMFS, Cobb-92.  
 1-SS (mid-channel, McLane Cove to Stretch Island): Sea Grant, 1973.  
 1-HC (mid-channel, off Skokomish Flats): Sea Grant, 1973.







*Raja stellulata*

Rajidae

Published Records

- 1-SJ: Starks, 1911.  
1-PS: Kincaid, 1919.

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- 1-SJ (Upright Channel): 423.

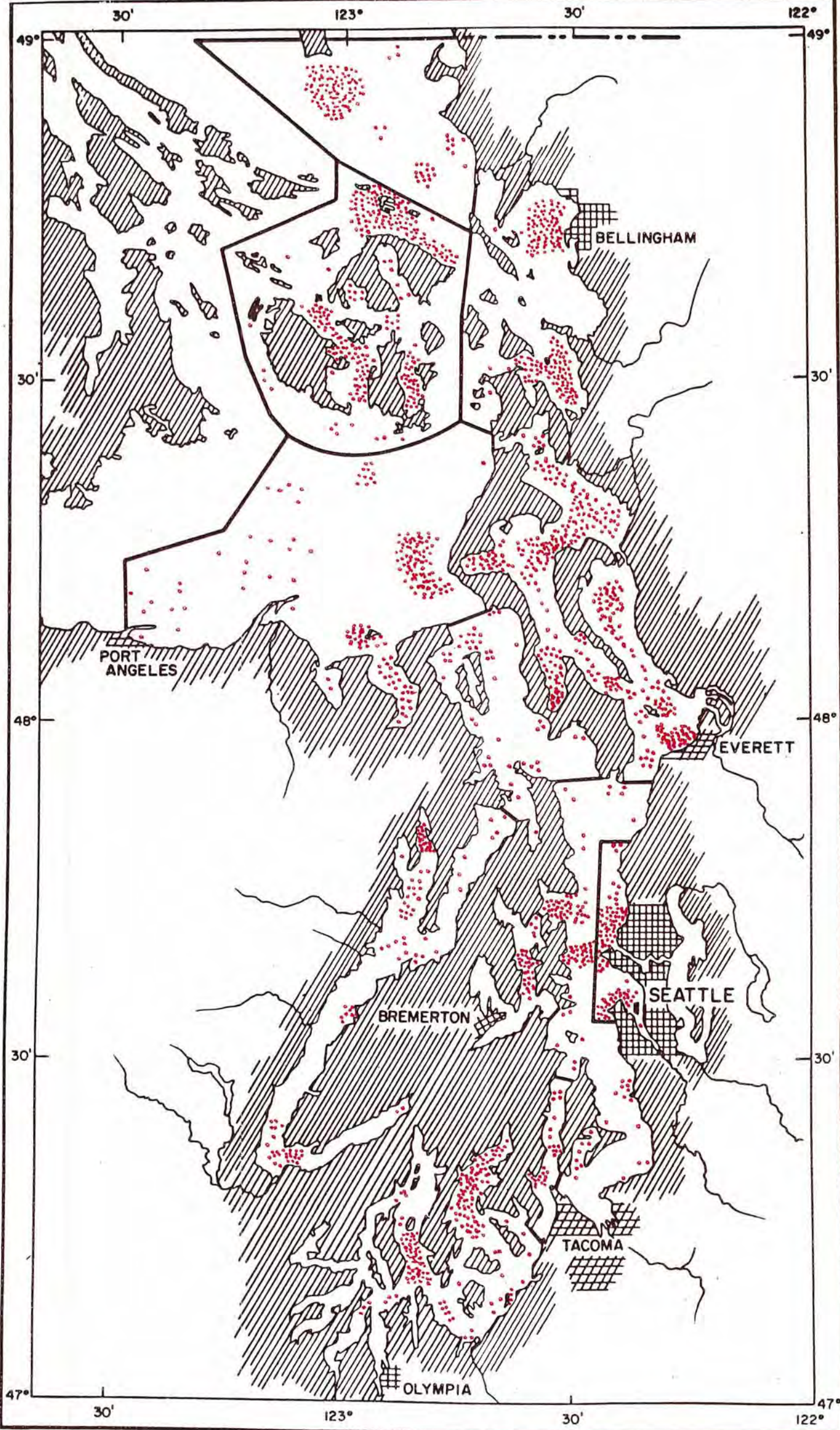
Friday Harbor Laboratory Log

- 1-SJ (Upright Head): 8/2/52.  
1-PS (Cattle Point to Smith Island):  
6/28/61-1.

Miscellaneous Logs

- 1-JF (west of Protection Island):  
NMFS, Cobb, 2/28/73.







*Hydrolagus collieri*

## Chimaeridae

Published Records

- 1-SS (Fort Steilacoom):  
Girard, 1859; Suckley, 1860.
- 1-AI (Port Townsend): Bean, 1884.
- 1-PS: Jordan and Starks, 1896.
- 1-S (Seattle): Rathbun, 1894.
- 1-JF (Discovery Bay):  
Richardson, 1836.
- 1-SJ: Starks, 1911.
- 1-JF (Dungeness): Tanner, 1894.
- 1-PS: Chapman and DeLacy, 1935.
- 3-AI (north of entrance to Port  
Ludlow):  
Evermann and Goldsborough, 1907.
- 1-AI (Kala Point):  
Evermann and Goldsborough, 1907.
- 1-AI:  
Evermann and Goldsborough, 1907.
- 10-JF (mid-channel northwest of Dun-  
geness Spit): Greenwood, 1957.
- 3-GS: Smith, 1936.
- 2-B (Bellingham Bay): Smith, 1936.
- 3-E (Coupeville): Smith, 1936.
- 1-JF (Sequim Bay): Smith, 1936.
- 1-JF (Port Discovery): Smith, 1936.
- 1-AI (Port Gamble): Smith, 1936.
- 1-HC (Bangor): Smith, 1936.
- 1-HC (Dabob Bay): Smith, 1936.
- 1-B (Hale Pass.): Smith, 1936.
- 1-SS (Carr Inlet): Smith, 1937.
- 1-SS (McNeil Island): Smith, 1937.
- 1-SS (Anderson Island):  
Smith, 1937.
- 1-SS (Case Inlet): Smith, 1937.
- 1-SS (Hale Pass.): Smith, 1937.
- 1-CS (Quartermaster Harbor):  
Smith, 1937.
- 1-CS (north of Point Pully):  
Smith, 1937.
- 4-HC (Hoodsport): Smith, 1937.
- 1-HC (Skokomish Flats):  
Smith, 1937.
- 2-HC (Holly): Smith, 1937.
- 1-HC (Quilcene Bay):  
Smith, 1937 (also museum 4223).
- 1-E (Dines Point): Smith, 1937.
- 1-E (Utsalady): Smith, 1937.
- 1-CS (Meadowdale): Smith, 1937.
- 1-SJ (Blakely Island): Smith, 1937.
- 1-E (Dewey): Smith, 1937.
- 1-E (Camano Head): Smith, 1937.
- 1-E (Mukilteo):  
Smith, 1937 (also museum 4214).
- 1-E (Columbia Beach): Smith, 1937.
- 4-E (Gedney Island): Smith, 1937.
- 50+-GS (large area south of Point  
Roberts and west of Birch Bay):  
Kelly, 1946 (commercial  
quantities).
- 50+-SJ (all of San Juan Channel):  
Kelly, 1946 (commercial  
quantities).
- 50+-SJ (around north side of Orcas  
Island to Point Lawrence):  
Kelly, 1946 (commercial  
quantities).
- 50+-SJ (Sucia Island): Kelly, 1946  
(commercial quantities).
- 50+-B (Bellingham Bay): Kelly, 1946  
(commercial quantities).
- 50+-SJ (Lopez Sound): Kelly, 1946  
(commercial quantities).
- 50+-B (Anacortes and Padilla Bay):  
Kelly, 1946 (commercial  
quantities).
- 50+-E (Skagit Bay and east of Penn  
Cove): Kelly, 1946 (commercial  
quantities).
- 50+-JF (Point Partridge): Kelly,  
1946 (commercial quantities).
- 50+-SS (Carr Inlet): Kelly, 1946  
(commercial quantities).
- 1-E (Skagit Bay to Similk Bay):  
Stober and Salo, 1970b.
- 1-S (Duwamish River estuary):  
Salo, 1969.
- 19-S (Duwamish Head): Salo, 1969.
- 4-E (Port Gardner Bay): Salo, 1969.
- 6-E (Skagit Bay): Salo, 1969.
- 1-SJ (Upright Head): Dayton, 1969.
- 1-SJ (Lopez Sound): Hanson, 1967.
- 1-SJ (Upright Head): Hanson, 1967.
- 1-JF (Middle Channel):  
Dayton, 1967.
- 1-SJ: Read, 1969.
- 1-B (Bellingham Bay): Tyler, 1964.
- 3-CS (beach seine, south side of  
Point Jefferson): Kendall, 1966.
- 1-CS (Dumas Bay): Miller, 1971b  
(also NIH, 71105, 71106).
- 4-CS (Seahurst County Park):  
Miller, 1971a (also boat 7113;  
NIH, 71101).
- 10+-B (Bellingham Bay):  
DiDonato, 1969.
- 1-GS (off Point Roberts):  
Halstead and Bunker, 1952.
- 1-B (off Ship Harbor):  
Halstead and Bunker, 1952.
- 2-HC (Anderson Cove): Chew, 1970.

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- 1-PS (near Whidbey Island): 13.
- 1-PS: 195.
- 1-HC (Potlatch): 419.
- 1-HC (Brinnon): 422.
- 1-SJ (Deadman Bay): 1242.
- 1-E (Camano Head, Saratoga Pass.):  
2551.
- 1-E (Sandy Point, Saratoga Pass.):  
2659 1/2.
- 1-E (Saratoga Pass.): 3659.
- 1-S (North Beach): 4693.
- 1-CS (Redondo Beach): 4772.
- 1-S (off south of Richmond Beach):  
4789.
- 1-SJ (west of Ram Island):  
5749 (also boat 491P).
- 1-HC (off Thorndike Bay):  
5826 (also boat 499J).



*Hydrolagus collieri*

## Chimaeridae

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- 4-CS (Port Madison):  
6036 (also boat 1/22/49.3); 8554  
(also boat 492B); 8555 (also boat  
5006D); 8566 (also boat 5043A).  
1-CS (2 miles east of Port Madison):  
8550 and 8551 (also boat 495A)  
(also same as 8552 and 8558).  
1-CS (off Port Madison):  
8553 and 8557 (also boat 495B).  
1-S (off Golden Gardens):  
8556 (also boat 494F).  
1-SJ (Lopez Sound): 8562 (also  
Friday Harbor Log, 7/12/51-2).  
1-S (Elliott Bay):  
15785 (also boat 5027A).  
1-S (Meadow Point): 17145.  
1-JF (west of McArthur Bank):  
17699 and 17872 (also Friday  
Harbor Log, 7/19/63-1).  
1-JF (west of McArthur Bank):  
17683 (Friday Harbor Log, also  
7/18/63-1).  
1-CS (east off Point Monroe):  
8565 (also boat 492C).  
1-CS (off Port Madison):  
8567 (also boat 497A).  
1-CS (off Point Jefferson):  
14977 (also boat 5112D).  
1-CS (training cruise area, mid West  
Point to Skiff Point):  
19634 (also boat 6628B).

Friday Harbor Laboratory Log

- 1-SJ (Lopez Sound, Spencer Spit):  
6/28/51-3.  
1-SJ (off Rocky Bay): 6/30/51-1.  
1-SJ (Stuart Island, Reid Harbor):  
6/30/51-2.  
7-JF (west of McArthur Bank):  
7/12/51-1; 7/7/52-1; 7/9/52-1  
(also boat 5220G); 8/3/55-1 (also  
boat 5520A); 8/8/60; 7/8/69-1;  
8/3/69.  
1-SJ (south of Orcas Island):  
6/24/52.  
1-SJ (Lopez Sound or East Sound):  
7/1/52.  
3-SJ (Salmon Barks): 7/7/52-2,3,4.  
1-SJ (Reid Harbor, Stuart Island):  
7/9/52-2 (also boat 5220H).  
6-SJ (West Sound):  
7/9/52-3 (also boat 5220I);  
7/26/60-2; 8/13/60-2; 6/26/61;  
1968; 7/6/71-2.  
1-SJ (southeast of Cattle Point):  
8/3/55-2 (also boat 5520B).  
1-JF (off Hein Bank): 8/3/55-3.  
2-SJ (off Iceberg Point):  
7/22/52-1; 8/4/55-1 (also boat  
5520C).  
6-SJ (Friday Harbor Lab):  
8/2/52; 8/3/52; 8/12-13/52;  
6/29/69; 7/13/69; 8/21/69.

- 1-SJ (off Fishermans Bay, toward  
Flat Point): 8/4/52-5.  
5-SJ (East Sound):  
8/11/52; 7/25/55; 8/13/60-1;  
5/11/62; 1968.  
1-SJ (off Upright Head): 6/24/55-2.  
6-SJ (Lopez Sound):  
7/28/55-1; 7/6/60; 7/3/60;  
6/16/61; 6/27/67; 6/21/71-2.  
1-SJ (west of Center Island):  
8/11/55-1.  
1-SJ (Trump Island to Decatur Head):  
8/11/55-2.  
1-SS (President Channel, southeast  
of Point Disney): 8/25/55-1.  
1-SJ (Open Bay): 7/31/50-5.  
3-SJ (north of Hunter Cove):  
6/19/50-3,4,5 (also boat 5033E,F,  
G).  
1-SJ (east of Puffin Island):  
6/20/50-4 (also boat 5033K).  
1-SJ (West Sound or Lopez Sound):  
6/27/60.  
1-PS (Cattle Point to Smith Island):  
6/28/61-1.  
1-SJ (south of Lopez Island):  
6/27/63-A.  
1-SJ (Argyle Bay): 7/15/63.  
1-SJ (Upright Head): 1968.  
1-SJ (Friday Harbor): 7/10/69-1.  
1-SJ (west of Neck Point): 7/31/69.  
1-SJ (off Friday Harbor): 8/22/69.  
1-SJ (off Friday Harbor Lab):  
6/29/71-2.  
1-SJ (Upright Head to Foster Point):  
6/26/73-2.

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- 1-GS (north of Alden Bank): 491G.  
1-JF (in Port Discovery): 5318A.  
1-JF (off Ediz Hook to off Green  
Point): 5705A.  
1-SJ (off Johns Island): 491B.  
1-SJ (between Puffin Island and  
Orcas Island): 491E.  
1-SJ (south of Spencer Spit, Lopez  
Sound): 5033P.  
1-SJ (west of Ram Island, Lopez  
Sound): 5033R.  
1-SJ (training cruise area, north of  
Rosario Point, East Sound):  
6722H.  
2-SJ (training cruise area,  
southwest of Center Island):  
7118I; 7307I.  
1-B (east of Burrows Island, Burrows  
Bay): 5033S.  
3-B (training cruise area, southwest  
of Post Point):  
6517G; 6614G; 7307G.  
1-E (off Tulalip Bay): 7/1/49-1.



*Hydrolagus collieri*

## Chimaeridae

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- 20-E (mouth of Holmes Harbor, off Rocky Point to off Dines Point): 491Q; 5220D,O; 5234A,C; 5237E,F; 5307C,D,K,L,Q,R,S; 5312H,I; 5321R,S; 5327C,E.
- 2-E (off Spee-Bi-Dah, Port Susan): 5023D; 7303J.
- 2-E (off Mission Beach): 5023E,F.
- 3-E (off Long Point to off Snatelum Point, Penn Cove mouth): 5213A; 5220E; 5321F.
- 6-E (off Coupeville to off Lovejoy Point): 5213B; 5316I,J; 5321A,H; 5418E.
- 2-E (off Oak Harbor, to Blower Bluff): 5220F,N.
- 2-E (north end of Saratoga Pass., south from Point Polnell): 5220M; 6821.5B.
- 10-E (south of Dines Point to off Classic, Holmes Harbor): 5234D; 5312F,G; 5316A,C; 5405G,H; 5501D; 5712E,F.
- 27-E (south of Classic, Holmes Harbor): 5234E,F; 5237A,B,G; 5307E,F,G,H,O,P,T,U; 5312B,C,D,E,L,N; 5316D,E,M; 5321T; 5501E,F; 5611B; 5810E.
- 38-E (Holmes Harbor): 5305J,K; 5325A,B,C; 5327A,B; 5330B,L; 5405A,C,F; 5418A,B,C,D; 5420A,B,C,H; 5522D,E; 5604F,G; 56130,P,Q,R,S,T; 5614D,E,F; 5810A; 5933C,D,G; 6821.5E.
- 4-E (south of Snatelum Point to off north of Onamac Point, Saratoga Pass.): 5316K,L; 5330F; 5418H.
- 1-E (off Lovejoy Point to off Long Point): 5321B.
- 2-E (off Utsalady Point): 5321D,E.
- 1-E (beach seine, Good Beach, Penn Cove): 5321G.
- 3-E (off east of Snatelum Point): 5321I,J; 5330E.
- 3-E (in Elger Bay): 5321M; 5418I,J.
- 11-E (Penn Cove): 5405I; 5418F,G; 5522G,J; 5613U,V,W,X; 5614H,I,K.
- 2-E (off Onamac Point to off Indian Beach, Saratoga Pass.): 5405N; 5418L.
- 2-E (off North Bluff to off Greenbank): 5418M,N.
- 6-E (off Mukilteo): 5604A,B,C; 5613M,N; 6407.
- 3-E: 5712B; 6117I; 6620D.
- 15-E (training cruise area, east of Gedney Island): 6507C8; 6512C; 6517C; 6603C; 6614C; 6620C; 6630C; 6717C; 6722C; 6815C; 6819C; 6826C; 7118C; 7213C; 7307C.
- 14-E (training cruise area, north of Langley, Saratoga Pass.): 6507D8; 6512D; 6603D; 6614D; 6630D; 6717D; 6722D; 6815D; 6819D; 6822D; 6826D; 7118D; 7213D; 7307D.
- 11-E (training cruise area, off Penn Cove): 6603E; 6614E; 6717E; 6815E; 6819E; 6822E; 6826E; 6908E; 7118E; 7213E; 7307E.
- 1-E (off north of Kayak Point): 7204A.
- 3-E (south end of Saratoga Pass.): 6620E; 6722X,Y.
- 3-E (off Kayak Point): 6702A,B,C.
- 4-E (Saratoga Pass.): 6801.5; 6810B,C; 6821.5D.
- 3-E (Port Susan): 6810A; 6821.5A,C.
- 1-AI (off White Rock): 499K.
- 1-AI (off Port Townsend): 5009B.
- 1-AI (in Oak Bay): 5009C.
- 4-AI (east of north end of Marrowstone Island): 6603J; 6630J; 6507J; 6614J.
- 2-HC (off Lofall): 12/28/48-3,4.
- 1-HC (off Shine to off Sisters light buoy): 499C.
- 1-HC (off Pleasant Harbor): 499E.
- 1-HC (across from Hoodspout): 499F.
- 1-HC (off Tabook Point, Dabob Bay): 499I.
- 1-HC (west of Misery Point): 7202A.
- 12-HC (Dabob Bay): 5903A; 5921; 6013A; 6105A,C; 6202A,C,D,E; 7205I,M,N.
- 36-HC (Broad Spit to Long Spit, Dabob Bay): 6503A,B,C,D,E,F,G,H; 6601B,C,D; 6629A,B,D,E; 6702E,F; 6724A; 6804B,G,H; 6807B; 6828B; 6902A,B,E; 7202D,E,F,G,I,J; 7303A,B,C,D.
- 1-HC (south of Oak Head): 6601E.
- 1-HC (mid-channel, Hoodspout to Potlatch): 6804D.
- 1-HC (west of Seabeck Bay): 6902J.
- 1-AI (south of between Tala Point and Hood Head): 6902M.
- 10-CS (mid Port Madison): 3/25/49-3; 492A; 5006C; 5048B; 5122A,B; 5131B; 5132D; 5924A; 6203A.
- 1-CS (Port Madison trap): 6213.
- 2-CS (off Cultus Bay): 5/7/49-3; 5032A.
- 4-CS (off Port Madison): 497B; 5006E; 5043C; 5812E.
- 1-CS (northeast of Apple Cove Point): 5009A.
- 1-CS (south off Point No Point): 5009D.
- 3-CS (mouth of Quartermaster Harbor): 5042A; 5104B; 5115H.
- 1-CS (head of Quartermaster Harbor): 5042B.
- 2-CS (mid Quartermaster Harbor): 5042C,D.
- 1-CS (Tramp Harbor): 5104A.
- 1-CS (east off Blake Island): 5115I.
- 1-CS (off West Point): 5115J.



*Hydrolagus collieri*

## Chimaeridae

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- 15-CS (training cruise area, mid-channel, between Skiff Point and West Point):  
6507B8; 6512B; 6517B; 6603B;  
6614B; 6620B; 6623B; 6722B;  
6815B; 6819B; 6908B, 7118B;  
7213B; 7307B; 7308B.
- 1-CS (north of Des Moines): 5224A.
- 4-CS (off Agate Pass entrance, Port Madison):  
5232A; 5310.2F; 5317C; 6003B.
- 5-CS (mid-channel, between Meadow Point and Port Madison): 5314B;  
5516A; 5608A; 5709B; 5911B.
- 2-CS (off Fay-Bainbridge State Park): 5805A; 5806C.
- 5-CS (east off Point Monroe):  
5805B,C; 5813A,B,C.
- 1-CS (west of Point Monroe): 5315D.
- 4-CS (off Murden Cove):  
6710C2,D2; 4/4/73B; 7308A.
- 6-CS (off West Point):  
6605B; 6606B; 6607B; 6611B;  
6626B; 6627B.
- 15-CS (Murden Cove):  
6610B,D; 6612A; 6613A; 6713G,H;  
6809A; 6818A,B; 6821.5G,H;  
6823-3; 6906B,C,E.
- 2-CS (off Sylvan Beach, Vashon Island): 6703A,B.
- 1-CS (east of Neill Point, Vashon Island): 6703C.
- 2-PO (south part of Agate Pass.):  
495C; 6015D.
- 10-PO (off Fletcher Bay to off south of Battle Point): 5707C; 5809A;  
5912A; 5915B; 5924B; 6011A;  
6015B; 6108; 6427B; 6707.
- 1-PO (north of buoy N4): 6012D.
- 5-PO (most probably near off of Fletcher Bay):  
6515-3; 6715; 7206; 7302A,B.
- 2-PO (south end): 6303.1,.2.
- 1-PO (off Seabold Wharf): 6617A.
- 1-PO (between buoy N6 and N4):  
6617B.
- 1-PO (off Fletcher Bay): 6311.5.
- 2-S (south off West Point to off Four-Mile Rock): 5027D; 5602C.
- 103-S (off Golden Gardens to off Meadow Point): 492D,F; 494B,C,D,  
E; 496B; 498A,B; 4910A; 5003A;  
5007B; 5008C; 5009K,L; 5011D;  
5014C; 5017B,C,D,E; 5025; 5028A,  
B,C; 5029A,B,C,E; 5033A; 5034D,E,  
F,G; 5039A,D; 5041A; 5110B,C,D;  
5112A,B,C,E; 5119G,H; 5126A;  
5127A; 5129A,D; 5131C; 5132A;  
5136C; 5203C,D; 5207H; 5210A,B,D;  
5233B,C,D; 5314A,C; 5329C,D;  
5408A,B; 5416A,B; 5512E,F,G;  
5516B,C; 5521A; 5607A,B; 5616A;  
5702AN; 5704D; 5707J,K; 5713G;  
5907B,C,D; 5911A; 5920A,B,E,F;  
5924C; 5931A; 6005A,B,C; 6010B,D;  
6018A; 6112B; 6114A,B.
- 15-S (beach seine, Golden Gardens to Meadow Point):  
5007D; 5047A,C; 5114A; 5134A;  
5137A,B; 5328A; 5404A; 6309;  
6310; 6411B; 6417; 6518A,B.
- 6-S (off Golden Gardens to off Meadow Point):  
6311A,E,F; 6414A; 6506C; 6510C.
- 1-S (off north of Carkeek Park):  
6206C.
- 36-S (off north of Meadow Point to off Carkeek Park): 5020A; 5039B,  
C,E; 5041B; 5044A; 5110A; 5119A,  
B; 5203A,B; 5211A,B,C; 5212A,B,C,  
D,E,F; 5216A,B; 5233A; 5606A;  
5915C,D; 6406A; 6414B,C,D; 6510B;  
6608B; 7119A,B; 7120A,B.
- 5-S (off Alki Point toward Duwamish Head): 5027B; 5603A; 5702AM;  
5802JJ; 6001AO.
- 4-S (Carkeek Park to off Richmond Beach): 6719A,B,C,D.
- 5-S (off West Point):  
6718-1,2,3,4,5.
- 2-S (off Meadow Point to Richmond Beach): 6429A,B.
- 1-S (beach seine, Carkeek Park, Piper Creek): 6510D.
- 2-S (1 mile southwest of West Point): 6806C; 6818D.
- 2-CP (off Sandford Point):  
7/18/49; 5126N.
- 1-CP (south end): 7/21/49-1.
- 6-CP (off Camp Sealath):  
7/21/49-2,3; 5009E,F; 5104CC,DD.
- 3-CP (off Cove):  
5046A; 5133Q; 5135E.
- 1-CP (west side off south of Command Point): 5133P.
- 12-SS (off Minter Creek to off Elgin):  
7/19/49-1; 5045G; 5104D,V; 5107A;  
5126D; 5133B; 5135A,C,D; 5227F,G.
- 2-SS (off McLane Cove to off south end of Stretch Island):  
7/20/49-3; 5201L.
- 8-SS (northwest end of Nisqually Reach): 7/20/49-5; 5009I; 5126J;  
5201C,D,M; 5204F,J.
- 2-SS (west of Herron Island):  
5009G; 5126H.
- 32-SS (off Glen Cove to off west of Raft and Cutts Islands): 5009J;  
5037C; 5045A,K; 5101B; 5102A,B;  
5104J,K,L,P,Y,Z,AA; 5115F; 5126C,  
M; 5201A; 5204A,B,C,D,E,K,N;  
5213D; 5227B; 5613B,D,E,F,G.
- 2-SS (off Wauna to off south of Wauna): 5037I; 5101A.
- 2-SS (mouth of Carr Inlet, mid-channel, Gibson Point to Gertrude Island): 5046D; 5104C.
- 2-SS (mouth of Carr Inlet, southwest of Green Point): 5104S,T.



*Hydrolagus collieri*

## Chimaeridae

University of Washington Boat Log

- 2-SS (off north of Home to off Horsehead Bay Spit, Carr Inlet): 5104R; 5201I.  
 1-SS (west off Ketron Island): 5126K.  
 1-SS (between Fox Island and Day Island, toward Toliva Shoal): 5201E.  
 1-SS (off Unsal Point, Dana Pass.): 5201J.  
 1-SS (off Wollochet Bay to off Point Fosdick): 5201N.  
 1-SS (off Brisco Point to off Dofflemeyer Point, Dana Pass.): 5204H.  
 2-SS (Carr Inlet): 5522C,B.  
 1-SS (Case Inlet): 5613L.  
 1-SS (1 mile northeast of Flapjack Point, Eld Inlet): 6208B.  
 2-SS (mid-channel, Glen Cove to Green Point): 6724B-1,2.  
 1-SS (east of Hartstene Island, Case Inlet): 6724C.  
 4-E (training cruise area, north of Langley, Saratoga Pass.): 6914D; 7010D; 7017D; 7110D.  
 5-E (training cruise area, east of Gedney Island): 6914C; 7010C; 7017C; 7110C; 7313C.  
 5-CS (training cruise area, mid-channel, between West Point and Skiff Point): 6914B; 7017B,Z; 7110B; 7313B.  
 8-HC (Broad Spit to Long Spit, Dabob Bay): 7003A,B,C,D,E,F,G,H.  
 3-HC (just south of Dabob Bay): 7003J,K,L.  
 7-CS (Murden Cove): 7008B; 7016C,H; 7108A,B,C,D.  
 4-HC (Anderson Cove): 7009A,B,C,D.  
 4-E (training cruise area, off Penn Cove): 7010E; 7017E; 7110E; 7313E.  
 2-B (southwest of Post Point): 7010G; 7017G.1.  
 4-PO (most probably off of Fletcher Bay): 7011A,3; 7104-2; 7313X.  
 1-CS (Port Madison): 7011C.  
 2-SJ (training cruise area, southwest of Center Island, Lopez Sound): 7017I; 7110I.  
 1-CS (mid-channel, off West Point toward Murden Cove): 7017Y.  
 4-HC (Dabob Bay): 7102A,G,H,Q.  
 1-HC (west side off Vinland): 7112C.  
 1-HC (just south of bridge): 7112D.  
 1-AI (east side of Hood Canal entrance, just south of Foulweather Bluff): 7112E.  
 4-E (off north of Kayak Point to off Tulalip, Port Susan): 7112 (in 4 hauls).  
 2-E (Elger Bay): 7112K,L.  
 4-CP (beach seine, Gig Harbor Spit): 4-7208 (also Sea Grant, 72003).

- 6-CP (off Gig Harbor Spit): 6-7208 (also Sea Grant, 72003).  
 3-CP (just inside Gig Harbor): 3-7208 (also Sea Grant, 72003).  
 3-CP (west end Gig Harbor): 3-7208 (also Sea Grant, 72003).

Miscellaneous Logs

- 10+-AI: Bill High, personal communication, 12/30/66.  
 1-JF (off West Beach): WSDF, Sport Fish., 1965-70.  
 1-E (Skagit Bay to Similk Bay): WSDF, Sport Fish., 1969.  
 50+-S (off Duwamish Head to off Alki Point): U.W. Ocean., 1964-67.  
 50+-E (Port Gardner Bay): U.W. Ocean., P.G., 1962-67.  
 8-PO (Narrows, just south of Fletcher Bay): U.W. Ocean., P.O., 1964-65.  
 25-S (off Golden Gardens): U.W. Ocean., Hoh, 1963-67.  
 3-PO (Narrows, south and north of Fletcher Bay): U.W. Ocean., Hoh, 1963-67.  
 2-HC (Lynch Cove): U.W. Ocean., Hoh, 1963-67.  
 2-HC (Seabeck): U.W. Ocean., Hoh, 1963-67.  
 50+-SS (Case Inlet, off Taylor Bay to off Whiteman Cove): U.W. Ocean., Hoh, 1963-67.  
 2-SS (off Horsehead Bay, Carr Inlet): U.W. Ocean., Hoh, 1963-67.  
 50+-CS (Port Madison): U.W. Ocean., Hoh, 1963-68.  
 28-E (Port Gardner Bay): U.W. Ocean., Hoh, 1963-67.  
 9-E (Port Susan): U.W. Ocean., Hoh, 1963-67.  
 13-E (off Demock Point): U.W. Ocean., Hoh, 1963-67.  
 5-E (Penn Cove): U.W. Ocean., Hoh, 1963-67.  
 5-E (northeast of Rocky Point): U.W. Ocean., Hoh, 1963-67.  
 8-E (Holmes Harbor): U.W. Ocean., Hoh, 1963-67.  
 3-SS (mouth of Carr Inlet): U.W. Ocean., herring trawl, 1968-69.  
 6-E (Port Susan): U.W. Ocean., herring trawl, 1968-69.  
 1-CS (Pilot Point): U.W. Ocean., Hoh, S.J., 1966.  
 1-AI (Mutiny Bay): U.W. Ocean., Hoh, S.J., 1966.  
 1-AI (Greenbank level in Admiralty Bay): U.W. Ocean., Hoh, S.J., 1966.  
 1-AI (Useless Bay): U.W. Ocean., Hoh, S.J., 1966.  
 2-AI (Port Townsend Bay): U.W. Ocean., Hoh, S.J., 1966.



*Hydrolagus colliei*

## Chimaeridae

Miscellaneous Logs

- 1-JF (Port Discovery):  
U.W. Ocean., Hoh, S.J., 1966.
- 1-SJ (West Sound):  
U.W. Ocean., Hoh, S.J., 1966.
- 3-E (Penn Cove):  
U.W. Ocean., Hoh, S.J., 1966.
- 1-E (Utsalady):  
U.W. Ocean., Hoh, S.J., 1966.
- 13-JF (Protection Island): WSDF,  
groundfish trawl, through 1970.
- 15-JF (Port Discovery): WSDF,  
groundfish trawl, through 1970.
- 3-E (Holmes Harbor): WSDF,  
groundfish trawl, through 1970.
- 1-CP (off south of Olalla): WSDF,  
groundfish trawl, through 1970.
- 1-CP (off Point Richmond): WSDF,  
groundfish trawl, through 1970.
- 3-AI (Port Townsend): WSDF,  
groundfish trawl, through 1970.
- 1-AI (Oak Bay): WSDF, groundfish  
trawl, through 1970.
- 1-AI (Useless Bay): WSDF,  
groundfish trawl, through 1970.
- 4-AI (Skunk Bay): WSDF, groundfish  
trawl, through 1970.
- 1-AI (Liplip Point, Foulweather  
Bluff): WSDF, groundfish trawl,  
through 1970.
- 2-E (Saratoga, Saratoga Pass.):  
WSDF, groundfish trawl, through  
1970.
- 1-AI (off Marrowstone Island):  
WSDF, groundfish trawl, through  
1970.
- 1-E (Port Susan, Camano Head):  
WSDF, groundfish trawl, through  
1970.
- 1-E (Penn Cove): WSDF, groundfish  
trawl, through 1970.
- 3-S (off Edmonds): WSDF, groundfish  
trawl, through 1970.
- 1-SS (Drayton Pass.): WSDF,  
groundfish trawl, through 1970.
- 1-SS (Dana Pass.): WSDF, groundfish  
trawl, through 1970.
- 2-B (Bellingham Bay): WSDF,  
groundfish trawl, through 1970.
- 1-CS (off Apple Cove Point): WSDF,  
groundfish trawl, through 1970.
- 1-CS (off Possession Point): WSDF,  
groundfish trawl, through 1970.
- 5+-SJ (Sucia Island):  
Allyn Johnson, personal  
communication, 1972.
- 3-JF (mid-channel north of Dungeness  
Spit): NMFS, Cobb-25.
- 8-AI (east of Port Townsend, north  
of Marrowstone Island):  
NMFS, Cobb-35.
- 5-JF (west of Protection Island):  
NMFS, Cobb-35.
- 2-JF (Port Discovery):  
NMFS, Cobb-35.
- 1-JF (between Protection Island and  
Port Discovery): NMFS, Cobb-35.
- 1-SS (Carr Inlet): NMFS, Cobb-68.
- 1-CS (Poverty Bay): NMFS, Cobb-68.
- 2-E (off Saratoga): NMFS, Cobb-68.
- 1-E (Holmes Harbor): NMFS, Cobb-70.
- 1-SS (off north of Glen Cove):  
NMFS, Cobb-72.
- 2-JF (mid-channel, north of Morse  
Creek): NMFS, Cobb-90.
- 1-JF (west of Hein Bank):  
NMFS, Cobb-90.
- 3-E (north end of Saratoga Pass.):  
NMFS, Cobb-91.
- 4-E (Holmes Harbor): NMFS, Cobb-91.
- 1-JF (northwest off Dungeness Spit):  
NMFS, Cobb-91.
- 3-E (Everett Harbor):  
NMFS, Cobb, 1/20/61.
- 11-S (off Golden Gardens to off  
Carkeek Park): NIH, 1968-71.
- 1-CS (Port Blakely): NIH, 1968-71.
- 1-S (off Duwamish Head to off Alki  
Point): NIH, 1968-71.
- 22-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 1-PO (off Fletcher Bay):  
Van Cleve, trap, 1961-65.
- 2-SS (entrance to Eld Inlet):  
Van Cleve, trap, 1961-65.
- 3-E (Holmes Harbor):  
Van Cleve, trap, 1961-65.
- 1-JF (beach seine, Port Angeles  
embayment):  
Peninsula College, 1971.
- 1-JF (Sequim Bay):  
Battelle, 1967-69.
- 6-JF (between west Port Angeles and  
Morse Creek): NMFS, Cobb-25.
- 1-JF (lower part of Discovery Bay):  
Sea Grant, 71111.
- 3-GS (tow area 1, Boundary Bay  
entrance):  
WSDF, Gulf Georgia, 1969-71.
- 6-GS (tow area 3, off Cherry Point):  
WSDF, Gulf Georgia, 1969-71.
- 1-GS (tow area 4, off north of  
Neptune Beach):  
WSDF, Gulf Georgia, 1969-71.
- 13-GS (tow area 5, north of Alden  
Bank):  
WSDF, Gulf Georgia, 1969-71.
- 6-GS (tow area 6, southeast of Point  
Roberts):  
WSDF, Gulf Georgia, 1969-71.
- 2-GS (tow area 7, mid-channel):  
WSDF, Gulf Georgia, 1969-71.
- 3-GS (tow area 8, mid-channel):  
WSDF, Gulf Georgia, 1969-71.
- 2-CS (Port Madison):  
Miller, Diving Log, 1963-71.
- 1-SJ (central west side of San Juan  
Island):  
Miller, Diving Log, 1963-71.
- 1-SJ (Edwards Reef, central west San  
Juan Island):  
Miller, Diving Log, 1963-71.



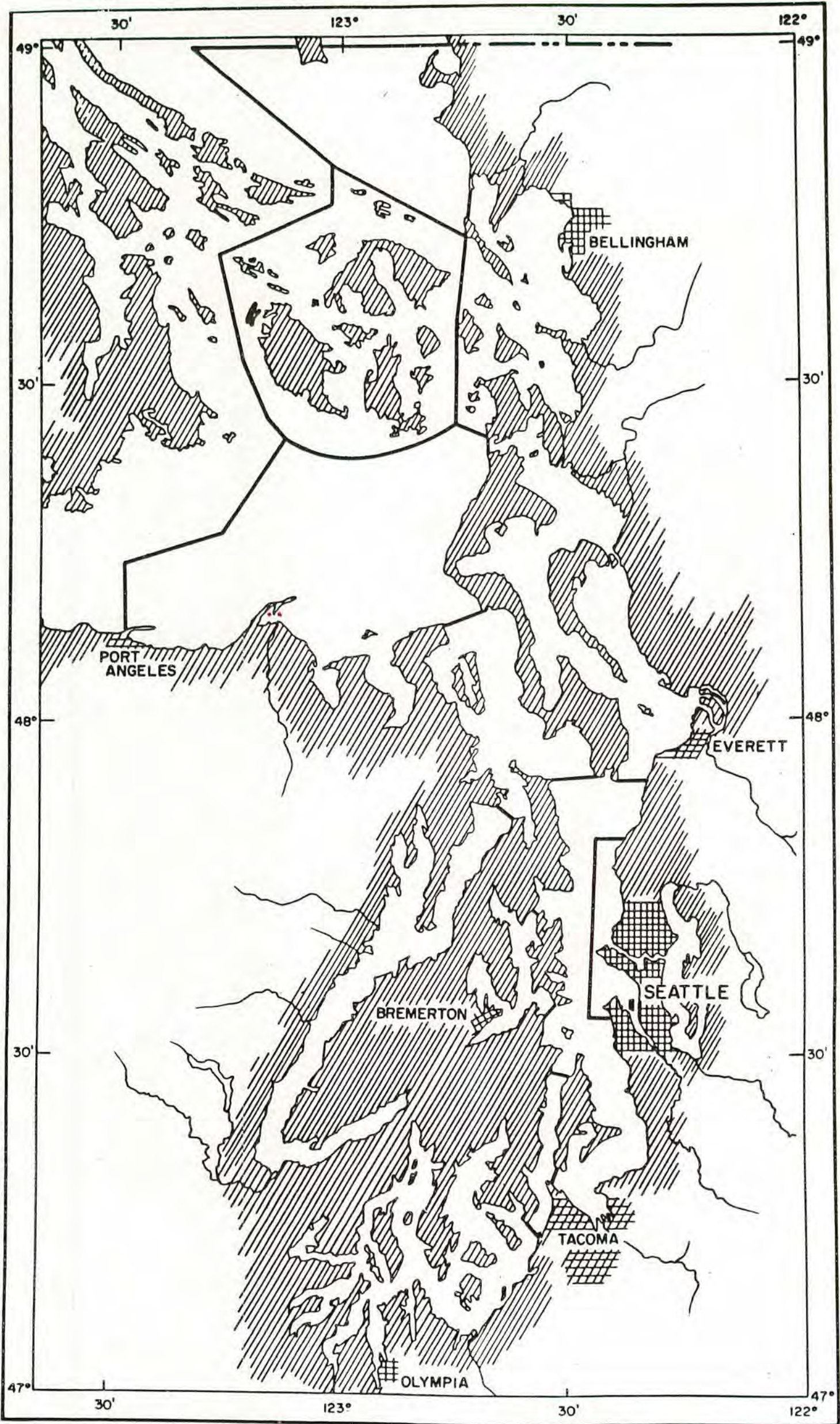
*Hydrolagus collieri*

## Chimaeridae

Miscellaneous Logs

- 3-CS (Three Tree Point):  
Miller, Diving Log, 1963-71.
- 1-S (Alki Point):  
Miller, Diving Log, 1963-71.
- 1-CS (south of Possession Point):  
NMFS, Cobb, 2/28/73.
- 5-JF (west of Protection Island):  
NMFS, Cobb, 2/28/73.
- 1-HC (off Big Beef Harbor):  
Sea Grant, 72026.
- 1-E (east to northeast of Gedney Island):  
NMFS, Streeter, 2/21/73.
- 1-E (Saratoga Pass.):  
NMFS, Cobb, 1/20/61.
- 1-HC: WSDF, Sport Fish., 1965-70.
- 1-PO (Clam Bay): NIH, 1968-71.
- 1-GS (south of Cherry Point):  
Sea Grant, 72019.
- 2-S (beach seine, north side of West Point): Sea Grant, 1973.
- 1-CS (Harper): Hap Leon, personal communication, 4/14/73.
- 17-S (off northwest side of West Point): Sea Grant, 1973.
- 10-S (off southwest side of West Point): Sea Grant, 1973.
- 15-S (deep otter trawl, off West Point): Sea Grant, 1973.
- 11-S (southwest of Alki Point):  
Sea Grant, 1973.
- 16-S (deep otter trawl, off southwest of Alki Point):  
Sea Grant, 1973.
- 2-SS (off Nisqually Reach-McAllister Creek Delta): Sea Grant, 1973.
- 1-SS (west side of Dougall Point):  
Sea Grant, 1973.
- 1-SS (mid-channel, McLane Cove to Stretch Island):  
Sea Grant, 1974.
- 6-HC (off Union):  
Sea Grant, 1973-74.
- 9-HC (mid-channel, off Union):  
Sea Grant, 1973-74.
- 1-HC (off Skokomish Flats):  
Sea Grant, 1973.
- 8-HC (mid-channel, off Skokomish Flats): Sea Grant, 1973-74.
- 2-AI (Mutiny Bay):  
Sea Grant, 73049.
- 2-CS (Port Madison): Doug Olander, Sport Catch Log, 1972-73.
- 2-S (south side of West Point):  
Doug Olander, Sport Catch Log, 1972-73.
- 1-SJ (Upright Head): Doug Olander, Sport Catch Log, 1972-73.
- 3-AI (Admiralty Head to jetty to ferry dock): Doug Olander, Sport Catch Log, 1972-73.
- 2-CS (south end of Bainbridge Island; near Blakely Rock):  
Doug Olander, Sport Catch Log, 1972-73.
- 4-SS (Cormorant Pass.):  
Sea Grant, 73059 and 73060.
- 1-SS (Tatsolo Point):  
Sea Grant, 73059.
- 1-S (north of Meadow Point):  
Doug Olander, Sport Catch Log, 1972-73.
- 1-S (Meadow Point): Grinols, personal communication, 1963.
- 1-S (Alki Point): Osterud, personal communication, 1966.
- 1-HC (Seabeck): L. Smith, personal communication, 1968.
- 1-S (Meadow Point): A.C. DeLacy, personal communication, 1951.







*Acipenser medirostris*

Acipenseridae

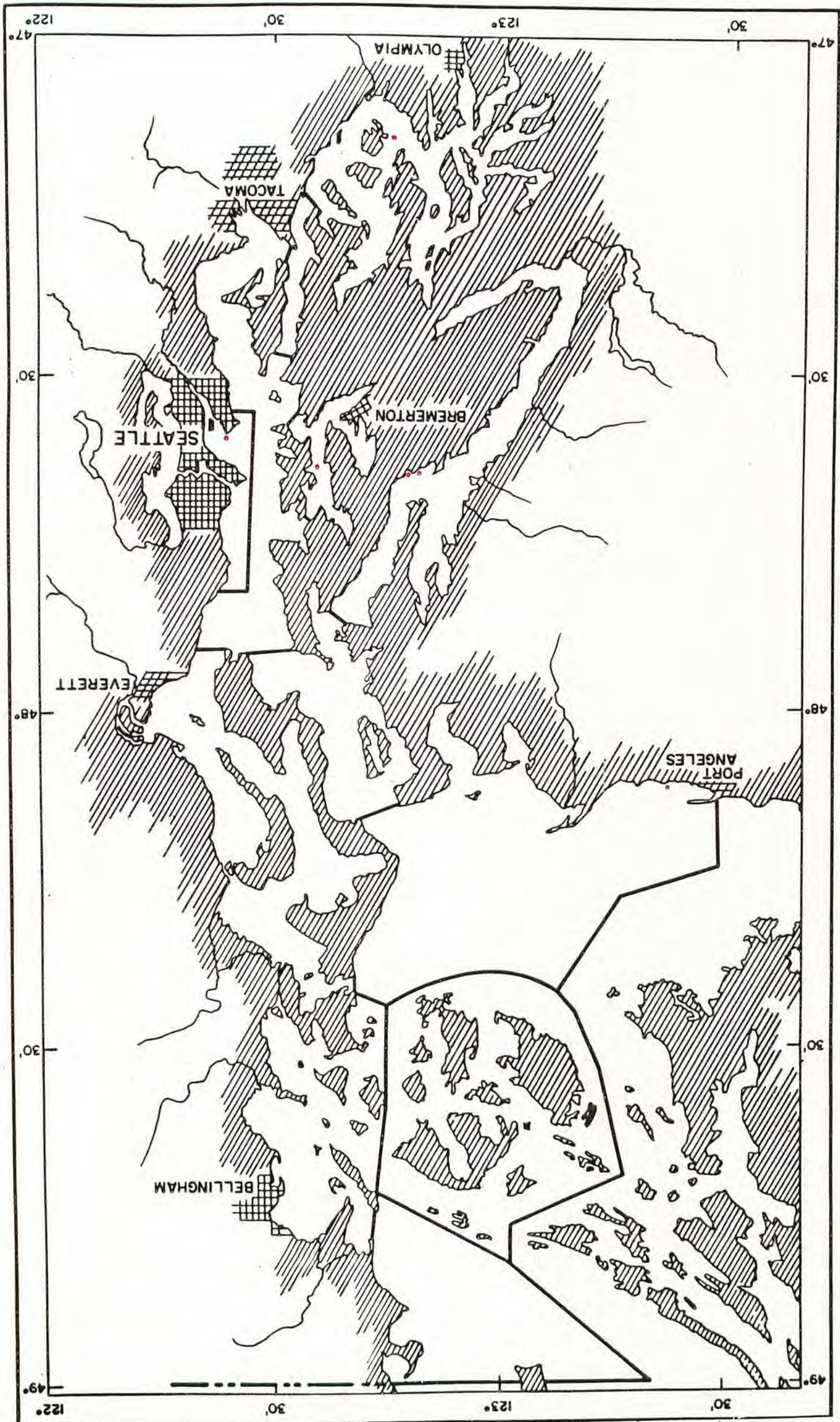
Published Records

- 1-PS: Rathbun, 1900.
- 1-PS: Kincaid, 1919.

Miscellaneous Logs

- 2-JF (inside Dungeness Spit): Bob Loghry, personal communication.







*Acipenser transmontanus*

## Acipenseridae

Published Records

- 1-PS: Jordan and Gilbert, 1881c.  
1-PS: Kincaid, 1919.  
1-S (Duwamish Head):  
Haw and Buckley, 1971.

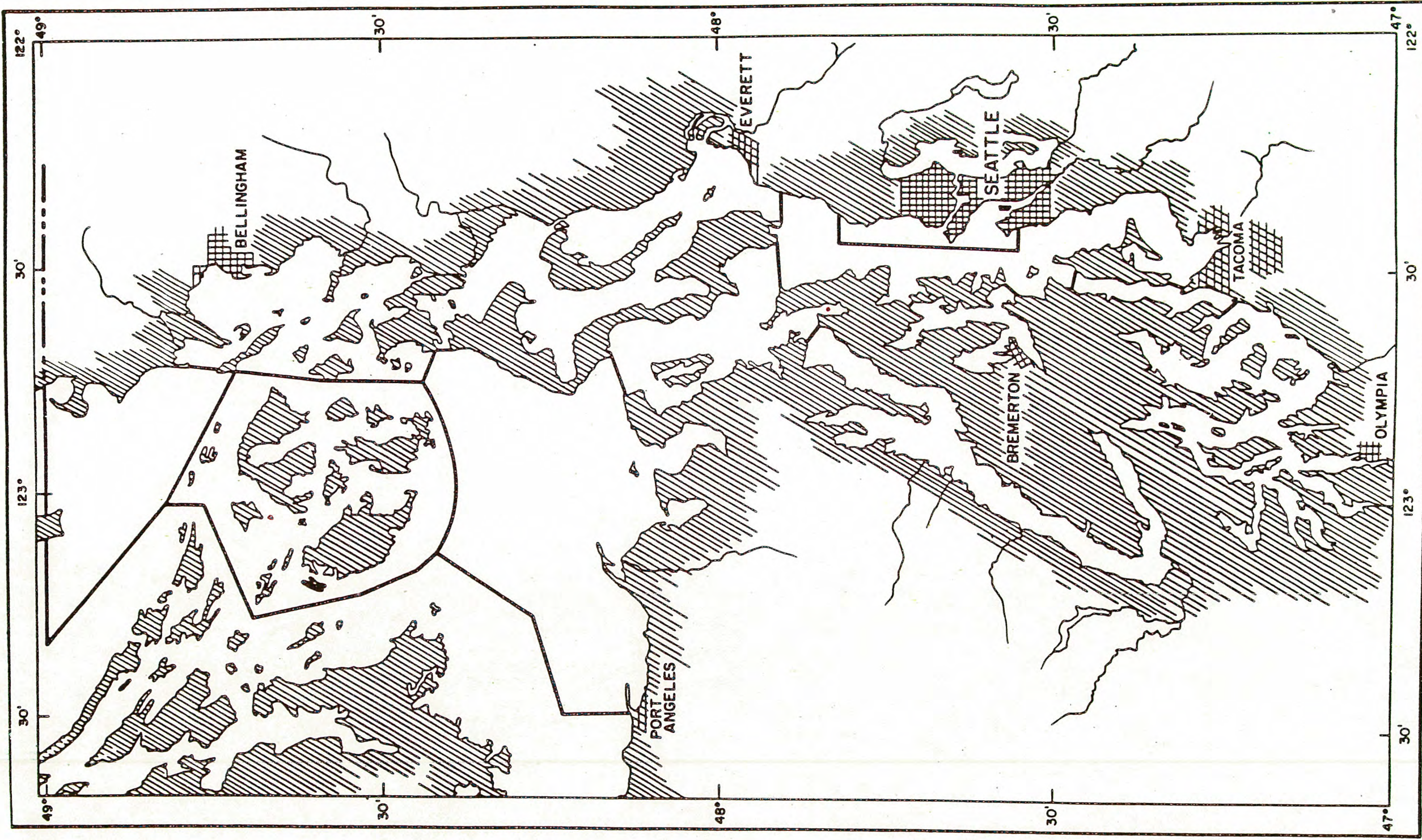
University of Washington Boat Log

- 1-PO (off Fletcher Bay): 6202.5.

Miscellaneous Logs

- 1-JF (beach near Morse Creek): Bob  
Loghry, personal communication.  
1-SS: Frank Haw, personal  
communication.  
1-HC (Big Beef Creek estuary): K V.  
Koski, personal communication.  
1-HC (Davis Creek, south of Big Beef  
Harbor): K V. Koski, personal  
communication.







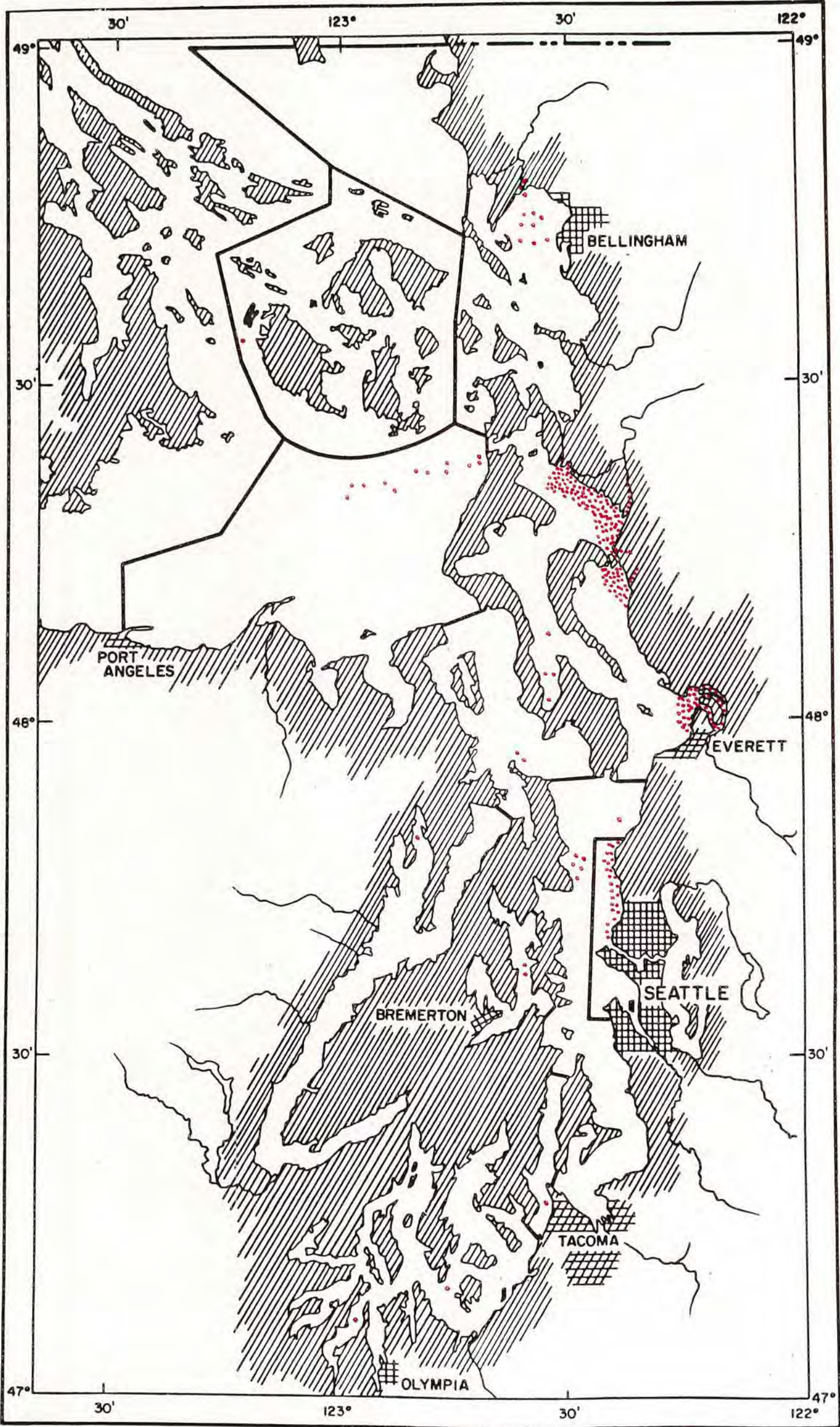
*Nemichthys scolopaceus*

Nemichthyidae

Published Records

1-AI (Port Gamble):  
Jordan and Starks 1896; Jordan  
and Gilbert 1881<sub>b</sub>, 1882, 1881<sub>c</sub>.  
1-SJ (Waldron Island):  
Gilbert, 190<sup>L</sup>.  
1-PS: Kincaid, 1919.







*Alosa sapidissima*

## Clupeidae

Published Records

- 1-PS: Swan, 1883; Leach, 1925.
- 1-SS (Eld Inlet): Collins, 1892.
- 1-PS: Jordan and Starks, 1896.
- 1-PS: Kincaid, 1919.

Friday Harbor Laboratory Log

- 1-SJ (Haro Strait): 8/27/68.

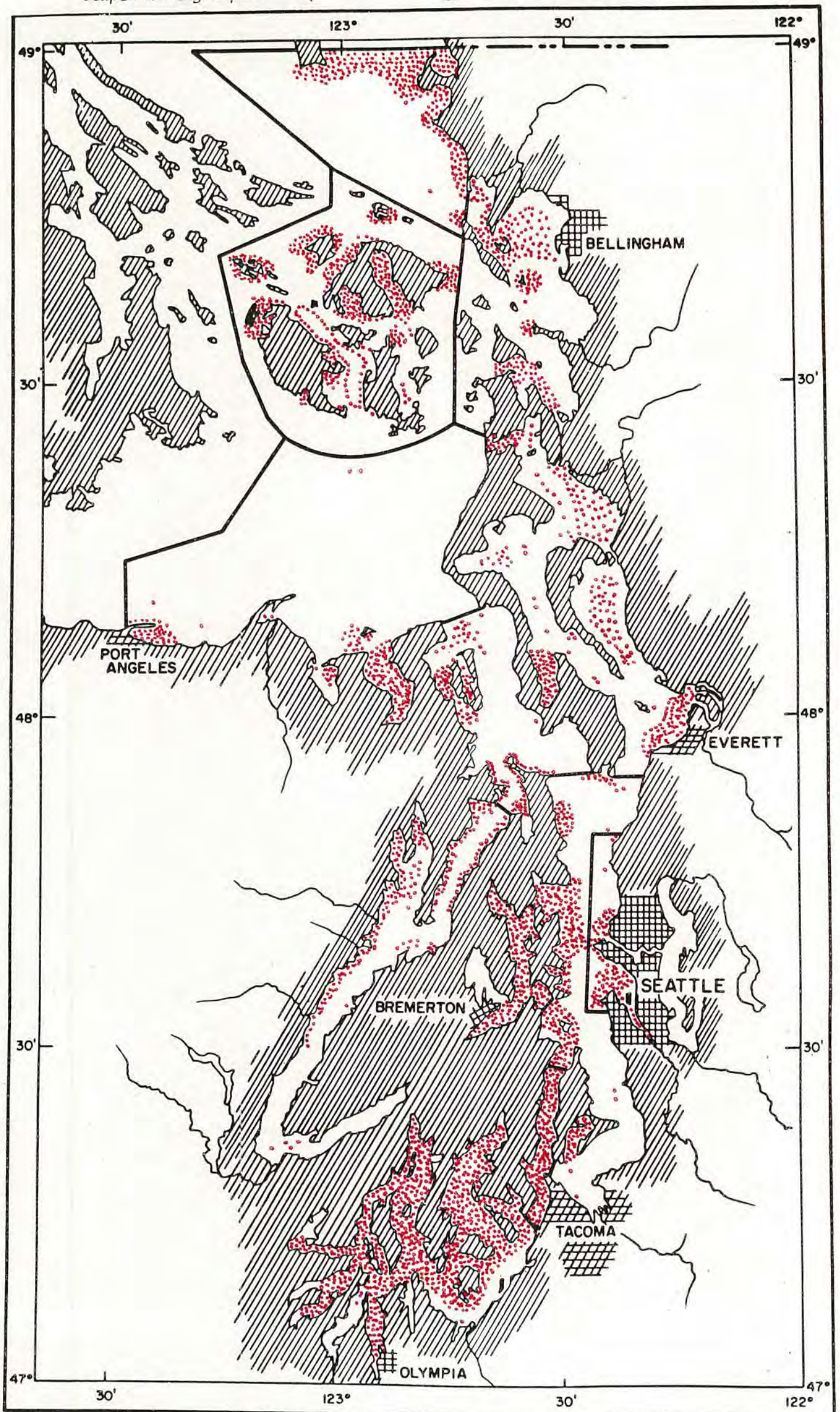
University of Washington Boat Log

- 1-E (lower Holmes Harbor): 5312B.
- 2-E (Holmes Harbor): 5330M; 5703E.
- 1-PO (off Fletcher Bay and south): 6707.
- 1-B (training cruise area, southwest of Post Point): 6819G.
- 1-B (probably near southwest of Post Point): 6822G.
- 1-HC (Dabob Bay, north of Broad Spit): 7202I.
- 1-PO (off Fletcher Bay): 7206.

Miscellaneous Logs

- 1-CP (Tacoma Narrows, north of bridge): Stan Katkansky, personal communication.
- 50+-E (Skagit River mouth and vicinity, run up the river): Louis Lund, personal communication.
- 50+-E (most north of north fork of Skagit River; a few from Skagit River, Stillaguamish River, and Snohomish River): Russ Orrell and Dick Laramie, personal communication.
- 7-B (about 4 from Bellingham Bay and about 3 from the Nooksack River): Russ Orrell, Frank Haw, and Ray Buckley, personal communication.
- 30-S (between Edmonds and Ballard): Grant Fiscus and Ray Buckley, personal communication.
- 12-JF (about 3 off West Beach, the rest in the Strait): Grant Fiscus, personal communication.
- 5-CS (between Kingston and President Point): Grant Fiscus, personal communication.
- 2-AI (off Foulweather Bluff): Grant Fiscus, personal communication.
- 1-CS (off Browns Bay): Randy Hansen, personal communication.
- 1-SS (off Devils Head probably in Drayton Pass.): Cecil Brosseau and T. Newby, personal communication.
- 2-B (Bellingham Bay): WSDF, groundfish trawl, through, 1970.
- 1-E (Saratoga Pass., north of Holmes Harbor): NMFS, Cobb-71.







*Clupea harengus pallasii*

## Clupeidae

Published Records

- 3-AI (Marrowstone Point; Kilisut Harbor; Admiralty Head):  
Evermann and Goldsborough, 1907.
- 1-E (Utsalady):  
Evermann and Goldsborough, 1907.
- 1-SS (Fort Steilacoom):  
Girard, 1859; Suckley, 1860.
- 1-SJ: Shelford, 1935.
- 1-JF (beach seine, Port Angeles):  
Gilbert, 1895.
- 1-SJ: Starks, 1911.
- 1-E (Holmes Harbor):  
Rounsefell and Dahlgrin, 1933.
- 2-GS: Smith, 1936.
- 4-B (Bellingham Bay): Smith, 1936.
- 2-E (Coupeville): Smith, 1936.
- 1-JF (Port Discovery): Smith, 1936.
- 1-JF (Port Discovery): Lord, 1866.
- 1-AI (Port Townsend): Lord, 1866.
- 14-SJ (Friday Harbor):  
Powers, 1921.
- 2-SJ (False Bay; Brown Island):  
Powers, 1921.
- 50+-E (Holmes Harbor, fishing area):  
Kelly, 1946.
- 50+-SJ (northwest coast of San Juans): Kelly, 1946.
- 50+-E (spawning and fishing area, Holmes Harbor): Williams, 1959.
- 50+-GS (Point Roberts, spawning area): Williams, 1959.
- 50+-GS (Birch Bay and Point Whitehorn, spawning and fishing areas): Williams, 1959.
- 50+-B (both sides of Hale Pass, spawning and fishing areas): Williams, 1959.
- 50+-PO (Port Orchard and Poulsbo, spawning areas): Williams, 1959.
- 50+-PO (Bremerton to Keyport, fishing area): Williams, 1959.
- 50+-HC (Seal Rock; Jackson Cove, spawning area): Williams, 1959.
- 50+-HC (Jackson Cove; Point Whitney; Quilcene Bay, fishing area): Williams, 1959.
- 50+-AI (Port Hadlock, spawning area): Williams, 1959.
- 50+-SJ (Mosquito Pass; Waldron Island; and Stuart Island, spawning areas): Williams, 1959.
- 50+-HC (Quilcene Bay, spawning area): Williams, 1959.
- 50+-SJ (Orcas Island near Point Lawrence, fishing area): Williams, 1959.
- 50+-JF (Discovery Bay, spawning and fishing areas): Williams, 1959.
- 50+-CS (Eagle Harbor, spawning area): Williams, 1959.
- 50+-CS (Quartermaster Harbor, spawning and fishing areas): Williams, 1959.
- 50+-E (Deception Pass., spawning area): Williams, 1959.
- 50+-GS (Semiamoo Bay, fishing area): Williams, 1959.
- 50+-SS (Wollochet Bay; Hale Pass.; Olympia to Steamboat Island; Shelton to Allyn; fishing areas): Williams, 1959.
- 50+-CP (Tacoma Narrows, fishing area): Williams, 1959.
- 50+-B (Anacortes, fishing area): Williams, 1959.
- 50+-CS (Eglon, fishing area): Williams, 1959.
- 50+-JF (Port Angeles, fishing area): Williams, 1959.
- 50+-E (Port Gardner; Skagit Bay; fishing areas): Williams, 1959.
- 50+-S (Seattle, fishing area): Williams, 1959.
- 50+-GS (Point Roberts to Drayton Harbor past Birch Point, spawning area):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-GS (mid Birch Bay to Sandy Point, spawning area):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-GS (north end Lummi Island, spawning area):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-GS (off Birch Point; below Point Whitehorn to north of Cherry Point; south of Cherry Point to Sandy Point; fishing areas):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-JF (northeast part of Sequim Bay; south half of Discovery Bay; spawning areas):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-SJ (nearshore areas of San Juan Channel, West Sound, and East Sound; west of Waldron Island; northwest Orcas Island; Roche Harbor through Mosquito Pass; fishing areas):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-SJ (spawning areas: West Sound; East Sound; west of Waldron Island; south of Henry Island; Upright Head to Humphrey Head):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-B (fishing areas: around Eliza Island; west of William Point):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-B (spawning areas: Hale Pass through Portage Bay; south of March Point on west side of Padilla Bay):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-E (spawning area: Holmes Harbor):  
Wash. Marine Atlas Vol. 1, 1972.
- 50+-AI (spawning areas: south half of Kilisut Harbor; south part of Port Orchard):  
Wash. Marine Atlas Vol. 1, 1972.



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## Clupeidae

Published Records

- 50+-AI (spawning area: mouth of Port Gamble):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-AI (fishing areas: Point No Point near shore through Hood Canal floating bridge; Tala Point near shore also through floating bridge):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-HC (fishing areas: floating bridge near shore to north of Hazel Point; floating bridge near shore to King Spit; south of Wawa Point near shore to Ayock Point):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-HC (spawning areas: north of Pulali Point to off south of Wawa Point; south part of Quilcene Bay):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-CS (fishing areas: near shore off Cultus Bay; Port Madison; Point No Point to north of Pilot Point; Orchard Point around Blake Island into Colvos Pass., Quartermaster Harbor):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-CS (spawning areas: Port Madison; Yeomalt Point to Restoration Point; Quartermaster Harbor):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-PO (fishing area: Agate Pass to Point Herron to Orchard Point):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-PO (spawning area: Agate Pass through Liberty Bay, Manzanita Bay, and Burke Bay; Sinclair Inlet):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-S (fishing area: Alki Point to Harbor Island near shore):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-CP (fishing area: all off Colvos Pass):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-CP (spawning area: Gig Harbor):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-SS (fishing areas: Carr Inlet through Hale Pass, Drayton Pass, Pitt Pass, and Balch Pass; Case Inlet through Pickering Pass., Peale Pass, west side of Squaxin Island, and Dana Pass. to Nisqually Reach):  
Wash. Marine Atlas Vol. 2, 1972.
- 50+-SS (spawning areas: Totten Inlet through the west side of Squaxin Island; mid part of Budd Inlet; Hale Pass.):  
Wash. Marine Atlas Vol. 2, 1972.
- 6-E (Kiket Island to Strawberry Point): Stober and Salo, 1970b.
- 2-E (Skagit and Similk Bays):  
Stober and Salo, 1970b.
- 1-E (Kiket Island):  
Stober and Salo, 1970a.
- 4-S (Duwamish estuary): Salo, 1969.
- 1-S (Duwamish Head): Salo, 1969.
- 2-E (Port Gardner; Skagit Bay):  
Salo, 1969.
- 50+-GS (spawning areas: Semiamoo Bay chiefly on inner side of Tongue Point; Birch Bay from the mouth of Terrel Creek to Point Whitehorn): Chapman, Katz, and Erickson, 1941.
- 50+-SJ (spawning areas: Echo Bay and Shallow Bay of Sucia Island; bay on east side of Waldron Island; Roche Harbor; bays on both sides of Mosquito Pass especially Mitchell Bay and Westcott Bay; West Sound; Pole Pass):  
Chapman et al., 1941.
- 50+-SJ (spawning area: East Sound, heaviest in front of the town of East Sound):  
Chapman et al., 1941; Katz, 1942.
- 50+-SJ (great schools seen along northwest side of Waldron Island near Fisher Point and along the northwest shores of San Juan Island): Chapman et al., 1941.
- 50+-B (spawning area: Hales Pass around Point Frances into Portage Bay):  
Chapman et al., 1941; Katz, 1942.
- 50+-B (spawning area: outside Waverly Spit near Anacortes):  
Chapman et al., 1941.
- 50+-JF (spawning areas: inside Sequim Bay Spit; lower part of Discovery Bay):  
Chapman et al., 1941.
- 50+-AI (spawning areas: Kilisut Harbor; Port Hadlock):  
Chapman et al., 1941.
- 50+-E (Holmes Harbor; spawning area):  
Chapman et al., 1941; Katz, 1942.
- 50+-PO (spawning areas: Liberty Bay from Poulsbo to Point Bolin):  
Chapman et al., 1941; Katz, 1942.
- 50+-CS (spawning areas: Eagle Harbor; Port Blakely; Rolling Bay; Port Madison):  
Chapman et al., 1941.
- 50+-HC (spawning areas: Jackson Cove to Seal Rock to Pleasant Harbor; Dosewallips Flats and south):  
Chapman et al., 1941; Katz, 1942.
- 50+-CS (spawning area: in Quartermaster Harbor mainly in Burton Bight): Chapman et al., 1941.
- 50+-SS (spawning areas: Wollochet Bay; north and south bays between Steamboat Island and the peninsula):  
Chapman et al., 1941; Katz, 1942.



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Published Records

50+-SS (spawning area: Totten Inlet): Chapman et al., 1941.  
 50+-CP (spawning area: Gig Harbor): Katz, 1942.  
 50+-E (fishing area: Skagit Bay; Port Gardner Bay): Chapman et al., 1941.  
 50+-B (Anacortes; minor fishing area): Chapman et al., 1941.  
 50+-JF (minor fishing area: Port Angeles): Chapman et al., 1941.  
 50+-CS (minor fishing area: Eglon): Chapman et al., 1941.  
 1-CS (south side of Point Jefferson): Kendall, 1966.  
 22-B (Bellingham Bay): Tyler, 1964.  
 50+-PO (spawning area: Agate Pass.): Haw and Buckley, 1971.  
 50+-E (Holmes Harbor, spawning area): Haw and Buckley, 1971.  
 3-HC (in Big Beef Harbor): Anderson and Chew, 1972.  
 1-HC (Anderson Cove): Chew, 1970.

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2-PS: 426; 5633.  
 1-S (Elliott Bay): 428.  
 1-SJ (Squaw Bay): 568.  
 4-SJ (False Bay): 576; 583; 1123; 1170.  
 1-SJ (Davis Bay): 603.  
 4-S (Alki Point): 656; 817; 1922; 4502.  
 6-SJ (East Sound): 693; 742; 2294; 17127; 17061 (also Friday Harbor Log, 6/20/63); 18692 (also NIH, 1964-66).  
 1-SJ (mid East Sound): 18693 (also Friday Harbor Log, 6/5/64).  
 1-SJ (Flat Point, Lopez Island): 716.  
 3-SJ (Friday Harbor): 2094; 3703; 5122.  
 1-E (Holmes Harbor): 3685.  
 1-CS (Tacoma Smelter): 4669.  
 1-E (Utsalady Beach): 5105.  
 2-S (Edmonds): 5470; 6267.  
 1-S (Duwamish River): 6116.  
 3-S (Seattle): 12794; 12800; 14963.  
 1-CS (Manchester): 15025.  
 1-SJ (West Sound): 2222.  
 1-SJ (Roche Harbor): 2947.  
 1-PS (Kelly's Boat House): 6363.

Friday Harbor Laboratory Log

2-B (Bellingham Bay): 7/26/51-2; 6/22/55.  
 1-B (south of Eliza Island): 8/8/55-1.  
 1-B (off Inati Bay): 8/8/55-2.

8-SJ (West Sound): 6/23/51; 7/9/52-3 (also boat log, 5220I); 7/26/60-1; 8/13/60-2; 6/26/61; 6/27/63-B; 6/20/69-2; 7/6/71-2.  
 1-SJ (off Rocky Bay): 6/30/51-2.  
 1-SJ (Satellite Island): 7/5/51-3.  
 1-SJ (south of Satellite Island): 8/15/55-1.  
 1-SJ (south of Orcas Island): 6/24/52.  
 2-SJ (Lopez Sound or East Sound): 7/1/52; 7/11/63.  
 1-SJ (White Point): 6/25/55-1.  
 2-JF (west of McArthur Bank): 7/7/52-1; 7/19/63-1.  
 1-SJ (Reid Harbor, Stuart Island): 7/9/52-2 (also boat log, 5220H).  
 1-SJ (Fish Creek, Cattle Point): 7/21/52-1.  
 12-SJ (Friday Harbor Lab): 8/2/52; 7/13/52; 7/14/52; 7/15/52; 7/16/52; 7/10/55; 7/29/55; 7/50; 8/4/61-2; 7/17/69-2; 7/21/69-2; 7/22/69-2.  
 8-SJ (East Sound): 8/11/52; 7/6/60-2; 7/26/60-1; 8/13/60-1; 6/20/61; 5/11/62; 6/29/71; 7/6/71-1.  
 3-SJ (mouth of East Sound): 7/28/55-2; 8/11/55-3; 6/20/50-2 (also boat log, 5033I).  
 6-SJ (mid East Sound): 1/17/64; 2/17/64; 4/3/64; 7/11/64; 6/20/69-1; 6/21/71-1.  
 1-SJ (Roche Harbor): 8/19/52.  
 1-SJ (Garrison Bay): 6/25/55-3.  
 1-SJ (East Sound or West Sound): 7/25/55.  
 3-SJ (Lopez Sound): 7/28/55-1; 7/6/60-1; 6/21/71-2.  
 1-SJ (Trump Island to Decatur Head): 8/11/55-2.  
 6-SJ (Argyle Bay): 8/16/55-2; 7/5/60; 8/11/60-2,4; 6/22/61; 7/15/63.  
 3-SJ (north side of Stuart Island): 7/10/50-7,8,9.  
 1-SJ (West Sound or Lopez Sound): 6/27/60.  
 1-SJ (Squaw Bay): 8/1/60-1.  
 1-SJ (Mitchell Bay): 8/16/60-1.  
 2-SJ (Upright Head to Olga): 8/1/60-2; 7/10/61-2.  
 4-SJ (Argyle Lagoon): 8/11/60-1; 7/12/61-2; 7/10/69-2,3.  
 1-SJ (Westcott Bay): 8/16/60-2.  
 1-SJ (North Bay): 8/18/60-1.  
 1-SJ (False Bay): 6/29/61.  
 1-SJ (Mosquito Pass.): 7/17/61-1.  
 1-SJ (San Juan Island): 5/62.  
 1-SJ (Squaw Bay or West Sound): 6/30/67.  
 1-SJ (West of Neck Point): 7/31/69.  
 1-SJ (lower East Sound): 6/26/73-1.  
 1-SJ (Argyle Lagoon): 7/9/63.



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- 1-SJ (East Sound): 5033M.  
 12-SJ (training cruise area: north end of East Sound, north of Rosario Point):  
 6603H; 6614H; 6620H; 6630H;  
 6717H; 6722H; 6815H; 6819H;  
 6908H; 7118H; 7010H; 7313H.  
 1-SJ (training cruise area: southwest of Center Island, Lopez Sound): 7118I.  
 14-B (training cruise area: southwest of Post Point):  
 6517G; 6603G; 6614G; 6620G;  
 6630G; 6717G; 6722G; 6815G;  
 6819G; 6826G; 6908G; 7118G;  
 7307G; 7313G.  
 1-E (Penn Cove mouth): 5213A.  
 2-E (Penn Cove, off Coupeville to off Lovejoy Point): 5213B,C.  
 1-E (off Oak Harbor to off Blower Bluff): 5220F.  
 4-E (Holmes Harbor, off Rocky Point to off Dines Point):  
 5220G; 5307C,K; 5312I.  
 6-E (Holmes Harbor, south of Classic): 5305G; 5307F,G; 5312B;  
 5316E; 5501C.  
 3-E (Holmes Harbor, south of Dines Point to off Classic):  
 5312F; 5316A; 5405G.  
 9-E (Holmes Harbor):  
 5305I,J; 5307D; 5325A; 5327B;  
 5420A; 5522D; 5604F,G.  
 2-E (beach seine, Penn Cove, Good Beach): 5316F,G.  
 1-E (mid Saratoga Pass., Onamac Point to Indian Beach): 5405L.  
 1-E (in Elger Bay): 5418I.  
 1-E (off north of Kayak Point): 7204A.  
 1-E (off Kayak Point): 6702B.  
 1-E (Port Susan): 6821.5A.  
 2-E (training cruise area: off Penn Cove): 6614E; 6717E.  
 1-E (training cruise area: off Strawberry Point): 6717F.  
 1-E (training cruise area: off north of Langley): 7307.  
 1-E (night light near East Point, Whidbey Island): 7213.  
 1-AI (training cruise area: east of north end of Marrowstone Island): 6630J.  
 6-HC (Dabob Bay): 5921; 6013A;  
 6105A; 6202F; 7205M,N.  
 1-HC (west of Misery Point): 7202A.  
 19-HC (Broad Spit to Long Spit):  
 6503A,G; 6629D,E; 6702F; 6724A;  
 6804A,G,H; 6828A; 6902E,F; 7202D,  
 H,I,J; 7303A,E,F.  
 3-HC (off Pleasant Harbor):  
 6804E; 6902K; 7303G.  
 1-HC (west of Seabeck Bay): 6902J.  
 1-CS (mid Port Madison): 5132D.  
 1-CS (off West Point): 6605B.  
 12-CS (Murden Cove):  
 6610C,D; 6612B; 6713C,D,G; 6806B;  
 6812D,E; 6818B,C; 6912.  
 2-CS (off Murden Cove): 6710A2,B2.  
 1-CS (east of Niell Point, Vashon Island): 6703C.  
 11-PO (probably most near off Fletcher Bay): 6214; 6302.5;  
 6303.1; 6604B; 6711C; 6713A,B;  
 6715; 6801; 6821.5F; 7313X.  
 1-PO (off Brownsville to off White Point): 6806A.  
 1-PO (south end): 6303.2.  
 8-PO (off Fletcher Bay):  
 6307; 6317; 6320C; 6322.5;  
 6425-2A; 6427B; 6505A; 6311.5.  
 31-PO (off Fletcher Bay to off south of Battle Point): 5223B; 5303;  
 5309D; 5310.3B; 5317A; 5422D;  
 5503A; 5507; 5707A,B; 5709C;  
 5906A; 5907A; 5915B; 5919A,B;  
 5922A; 5923B; 5924B; 6001AM;  
 6006A; 6016B1,A4,B5; 6100; 6109A;  
 6111B; 6201; 6202.5; 6205D1,D2.  
 3-PO (off south of Fletcher Bay):  
 5413C; 5801C; 6016B4.  
 1-PO (off Battle Point to off north of Battle Point): 5422F.  
 1-PO (night light in Manzanita Bay): 5518.  
 4-PO (most probably off Fletcher Bay): 6002A; 6007A,B; 6009A.  
 2-PO (between "B-2" and "B-1"): 6205C1,C3.  
 8-S (beach seine, Golden Gardens to Meadow Point):  
 492E; 5032.1A; 5134A; 5411A;  
 6309; 6310; 6319; 6518B.  
 4-S (off Golden Gardens to off Meadow Point):  
 494E; 5907C,D; 5911A.  
 1-S (off north of Meadow Point to off Carkeek Park): 5212F.  
 2-S (beach seine, Carkeek Park): 5225A,B.  
 1-S (off West Point): 6718-6.  
 1-S (beach seine, north side of West Point): 7311B.  
 1-CP (off Camp Sealath): 5009E.  
 1-CP (between Olalla and Maplewood): 6703D.  
 2-SS (west of Herron Island):  
 5009G; 5126H.  
 1-SS (north end of Pickering Pass to off McLane Cove): 5009H.  
 5-SS (off Glen Cove to west off Raft and Cutts Islands):  
 5009J; 5104L,M,Y; 5115F.  
 13-SS (off Minter Creek to off Elgin): 5045G,J; 5046C; 5101C;  
 5102C; 5104D,V; 5107A; 5126F;  
 5135A,D; 5213E,F.  
 6-SS (off Wauna to off south of Wauna):  
 5101A; 5104E,F,G,W; 5227A.



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- 2-SS (Oakland Bay, off Shelton):  
5115B,C.  
1-SS (Eld Inlet, 1 mile northeast of  
Flapjack Point): 5115E.  
2-SS (Carr Inlet): 5605B; 5703D.  
3-SS (Carr Inlet, mid-channel, Glen  
Cove to Green Point):  
6724B-1,2,3.  
1-SS (Case Inlet, east of Hartstene  
Island): 6724C.  
1-SS (Drayton Pass.): 6724D.  
6-B (training cruise area: southwest  
of Post Point):  
6914G; 7010G; 7017G,G2,G1; 7110G.  
2-HC (Dabob Bay, Broad Spit to Long  
Spit): 7003F,G.  
3-HC (off Pleasant Harbor):  
7003I,J; 7102M.  
1-CS (Murden Cove): 7008A.  
1-E (training cruise area: east of  
Gedney Island): 7010C.  
3-PO (most probably off of Fletcher  
Bay): 7011B; 7020; 7104.  
1-SJ (training cruise area: Lopez  
Sound, southwest of Center  
Island): 7017I.  
1-SJ (training cruise area: East  
Sound, north of Rosario Point):  
7017H.  
1-E (training cruise area: north of  
Langley): 7017D.  
6-HC (Dabob Bay):  
7102A,H,J1,L; 7112A,B.  
4-PO (most records probably off  
Fletcher Bay):  
7105-1,2; 7107A,B.  
1-HC (west side, across from  
Vinland): 7112C.  
1-AI (just south of Foulweather  
Bluff east side of Hood Canal  
entrance): 7112E.  
1-E (Elger Bay): 7112.

Miscellaneous Logs

- 50+-B (Bellingham Bay): Bill High,  
personal communication, 12/9/63.  
50+-B (Bellingham Bay): R. Tyler,  
personal communication, 6/3/63.  
50+-B (Bellingham Bay):  
FRI, Tyler Data Sheets, 1965.  
1-SJ (East Sound):  
DeLacy's Log, 6/20/69.  
3-S (West Point to Magnolia):  
Metro, 1963-70.  
10+-S (Duwamish River):  
Metro, 1963-70.  
15+-S (Duwamish River):  
Metro, 1966-70.  
6-S (off Duwamish Head to off Alki  
Point): U.W. Ocean., 1964-67.  
24-E (Port Gardner Bay):  
U.W. Ocean., P.G., 1962-67.  
44-PO (Narrows, just south of  
Fletcher Bay):  
U.W. Ocean., P.O., 1964-65.

- 4-S (off Golden Gardens to off  
Meadow Point):  
U.W. Ocean., Hoh, 1963-67.  
6-PO (south and north of Fletcher  
Bay): U.W. Ocean., Hoh, 1963-67.  
6-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Hoh, 1963-67.  
9-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.  
3-E (Penn Cove):  
U.W. Ocean., Hoh, 1963-67.  
1-E (west of Brown Point):  
U.W. Ocean., Hoh, 1963-67.  
1-E (Port Gardner Bay):  
U.W. Ocean., Hoh, 1963-67.  
1-E (Holmes Harbor):  
U.W. Ocean., Hoh, 1963-67.  
2-CS (south end Possession Sound):  
U.W. Ocean., Commando, 1968.  
7-CS (off Skiff Point):  
U.W. Ocean., Commando, 1968.  
2-CS (south of Point Pully):  
U.W. Ocean., Commando, 1968.  
1-SS (east of Anderson Island):  
U.W. Ocean., Commando, 1968.  
8-SS (Case Inlet):  
U.W. Ocean., Commando, 1968.  
8-PO: U.W. Ocean., Commando, 1968.  
4-HC (near Seabeck):  
U.W. Ocean., Commando, 1968.  
2-E (Port Susan):  
U.W. Ocean., Commando, 1968.  
50+-CS (Skiff Point to Point  
Jefferson): U.W. Ocean., herring  
trawl, 1968-69.  
1-S (West Point): U.W. Ocean.,  
herring trawl, 1968-69.  
2-S (Elliott Bay): U.W. Ocean.,  
herring trawl, 1968-69.  
50+-SS (mouth of Carr Inlet): U.W.  
Ocean., herring trawl, 1968-69.  
43-E (Port Susan): U.W. Ocean.,  
herring trawl, 1968-69.  
33-PO (south of Fletcher Bay): U.W.  
Ocean., herring trawl, 1968-69.  
1-B (Bellingham Bay):  
U.W. Ocean., Hoh, S.J., 1966.  
3-SJ (East Sound):  
U.W. Ocean., Hoh, S.J., 1966.  
3-E (Penn Cove):  
U.W. Ocean., Hoh, S.J., 1966.  
1-E (Port Susan):  
U.W. Ocean., Hoh, S.J., 1966.  
1-E (Utsalady):  
U.W. Ocean., Hoh, S.J., 1966.  
23-JF (Protection Island): WSDF,  
groundfish trawl, through 1970.  
1-JF (off Green Point): WSDF,  
groundfish trawl, through 1970.  
1-JF (Port Discovery): WSDF,  
groundfish trawl, through 1970.  
4-AI (Port Townsend): WSDF,  
groundfish trawl, through 1970.  
12-AI (Oak Bay): WSDF, groundfish  
trawl, through 1970.



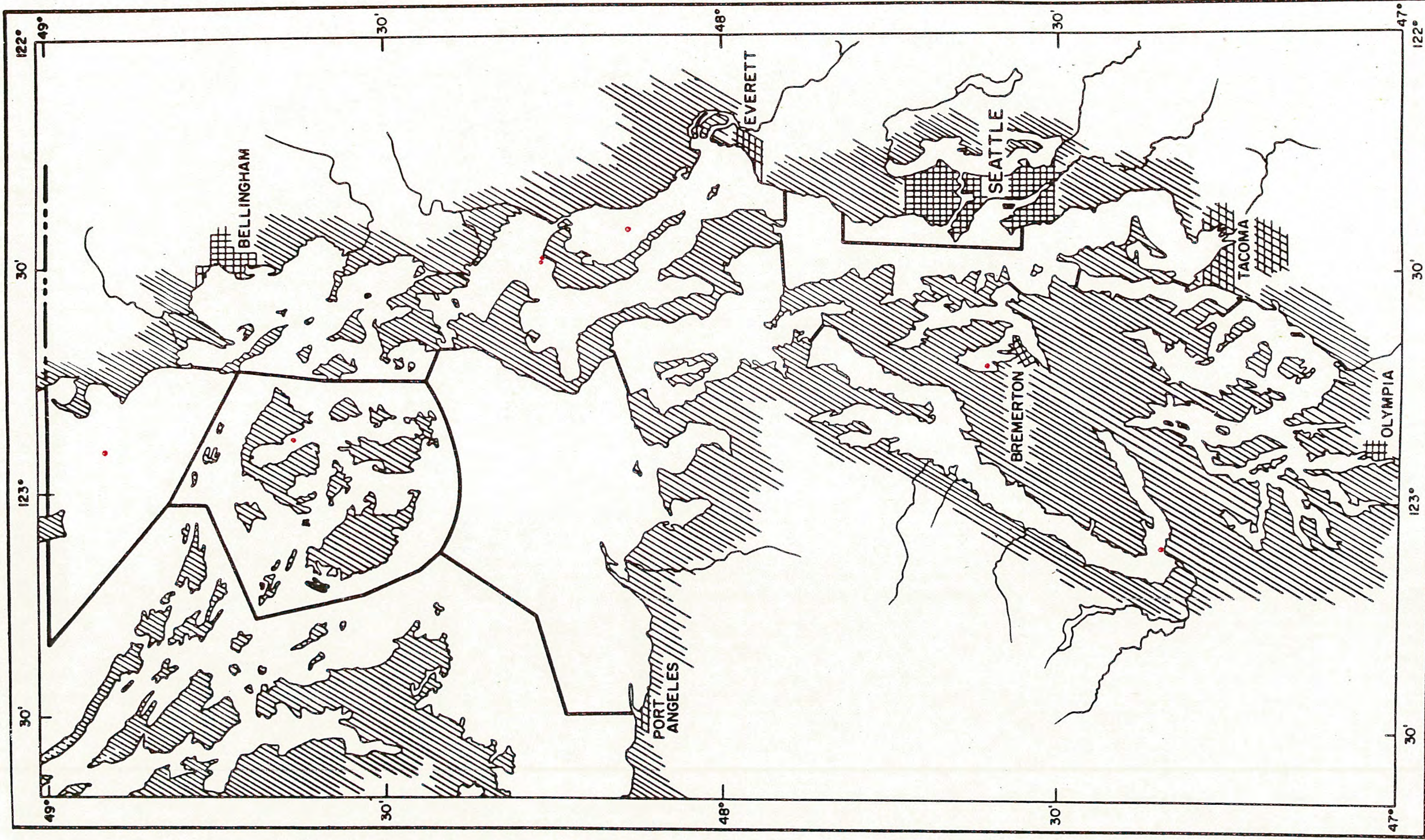
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## Clupeidae

Miscellaneous Logs

- 10+-SJ (Sucia Island):  
Allyn Johnson, personal  
communication, 1972.
- 4-HC (Squamish Bay): NMFS, Cobb-21.
- 10-SJ (Friday Harbor):  
NMFS, Cobb-21.
- 1-HC (Quilcene Bay): NMFS, Cobb-21.
- 1-SJ (West Sound): NMFS, Cobb-21.
- 12-AI (east of Port Townsend, north  
of Marrowstone Island):  
NMFS, Cobb-35.
- 2-JF (west of Protection Island):  
NMFS, Cobb-35.
- 1-PO (south of Fletcher Bay):  
NMFS, Cobb-68.
- 2-E (Holmes Harbor): NMFS, Cobb-70.
- 2-E (Saratoga Pass, north of Holmes  
Harbor): NMFS, Cobb-71.
- 1-CS (northwest of Edmonds):  
NMFS, Cobb-71.
- 1-CS (southeast of Port Madison):  
NMFS, Cobb-71.
- 1-S (off Richmond Beach):  
NMFS, Cobb-71.
- 2-SS (off north of Glen Cove; off  
Wilson Point): NMFS, Cobb-72.
- 1-PO (Agate Pass): NMFS, Cobb-69-1.
- 1-S (off Golden Gardens):  
NMFS, Cobb-75.
- 1-JF (Discovery Bay):  
NMFS, Cobb-75.
- 2-SS (Carr Inlet): NMFS, Cobb-75.
- 1-SS (Case Inlet): NMFS, Cobb-75.
- 1-E (Elger Bay):  
NMFS, Cobb, 1/20/61.
- 21-SJ (East Sound): NIH, 1964-66.
- 1-SJ (East Sound): NIH, 1968-71.
- 2-B (Marine Drive to Eliza Island to  
off mouth of Nooksack River):  
NIH, 1968-71.
- 6-S (Golden Gardens to Carkeek):  
NIH, 1968-71.
- 1-HC (Big Beef Harbor): NIH-69042.
- 1-SS (off Stretch Island to off  
Herron Island): NIH, 1968-71.
- 6-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 2-SS (Eld Inlet entrance):  
Van Cleve, trap, 1961-65.
- 2-E (Holmes Harbor):  
Van Cleve, trap, 1961-65.
- 1-E (Penn Cove):  
Van Cleve, trap, 1961-65.
- 5-AI (off Port Gamble): Bill High,  
personal communication, 8/2/71.
- 2-JF (inside Dungeness Spit):  
Peninsula College, 1971.
- 1-JF (Sequim Bay):  
Battelle, 1967-69.
- 1-JF (north of Ediz Hook):  
NMFS, Cobb-25.
- 2-GS (tow 1 area: Boundary Bay  
entrance):  
WSDF, Gulf Georgia, 1969-71.
- 2-GS (tow 2 area: off Birch Bay):  
WSDF, Gulf Georgia, 1969-71.
- 1-GS (tow 3 area: off Cherry Point):  
WSDF, Gulf Georgia, 1969-71.
- 3-GS (tow 4 area: off north of  
Neptune Beach):  
WSDF, Gulf Georgia, 1969-71.
- 1-GS (tow 5 area: north of Alden  
Bank):  
WSDF, Gulf Georgia, 1969-71.
- 2-GS (tow 6 area: southeast of Point  
Roberts):  
WSDF, Gulf Georgia, 1969-71.
- 1-SJ (Friday Harbor):  
Miller, Diving Log, 1963-71.
- 1-SJ (Argyle Bay):  
Miller, Diving Log, 1963-71.
- 6-JF (west of Protection Island):  
NMFS, Cobb, 2/28/73.
- 50+-CP (spawning area: Gig Harbor):  
Frank Haw, personal  
communication, 4/24/72.
- 50+-GS +B (spawning area: from  
Canadian border to Point  
Francis): Al Millikan, B.  
Miller, S. Borton, personal  
communication, 5/16/72.
- 50+GS (spawning area: Cherry Point):  
Sea Grant, 72008.
- 1-GS (off Cherry Point):  
Sea Grant, 72019.
- 1-AI (beach seine, Mutiny Bay):  
Sea Grant, 72033.
- 1-E (off Strawberry Point):  
Jim Blackburn, personal  
communication, 5/18/66.
- 3-B (north part Bellingham Bay, mid-  
channel off Nooksack estuary):  
Sea Grant, 72035.
- 1-S (beach seine, south side of West  
Point): Sea Grant, 1973.
- 2-PO (off south of Fletcher Bay):  
Sea Grant, 73008.
- 1-S (Duwamish River estuary,  
downstream from 1st Ave. bridge):  
Sea Grant, 1973.
- 1-SS (off Nisqually River-McAllister  
Creek Delta): Sea Grant, 1973.
- 4-B (Bellingham Bay, off Nooksack  
River Delta): Sea Grant, 73032.
- 1-HC (off Union): Sea Grant, 1973.
- 2-HC (mid-channel, off Union):  
Sea Grant, 1973.
- 1-HC (off Skokomish River Flats):  
Sea Grant, 1974.







*Sardinops sagax*

Clupeidae

Published Records

- 1-PS: Collins, 1892.  
1-PS: Jordan and Starks, 1896.  
1-PS: Kincaid, 1919.  
1-GS:  
Schultz, Hart and Gunderson 1932.

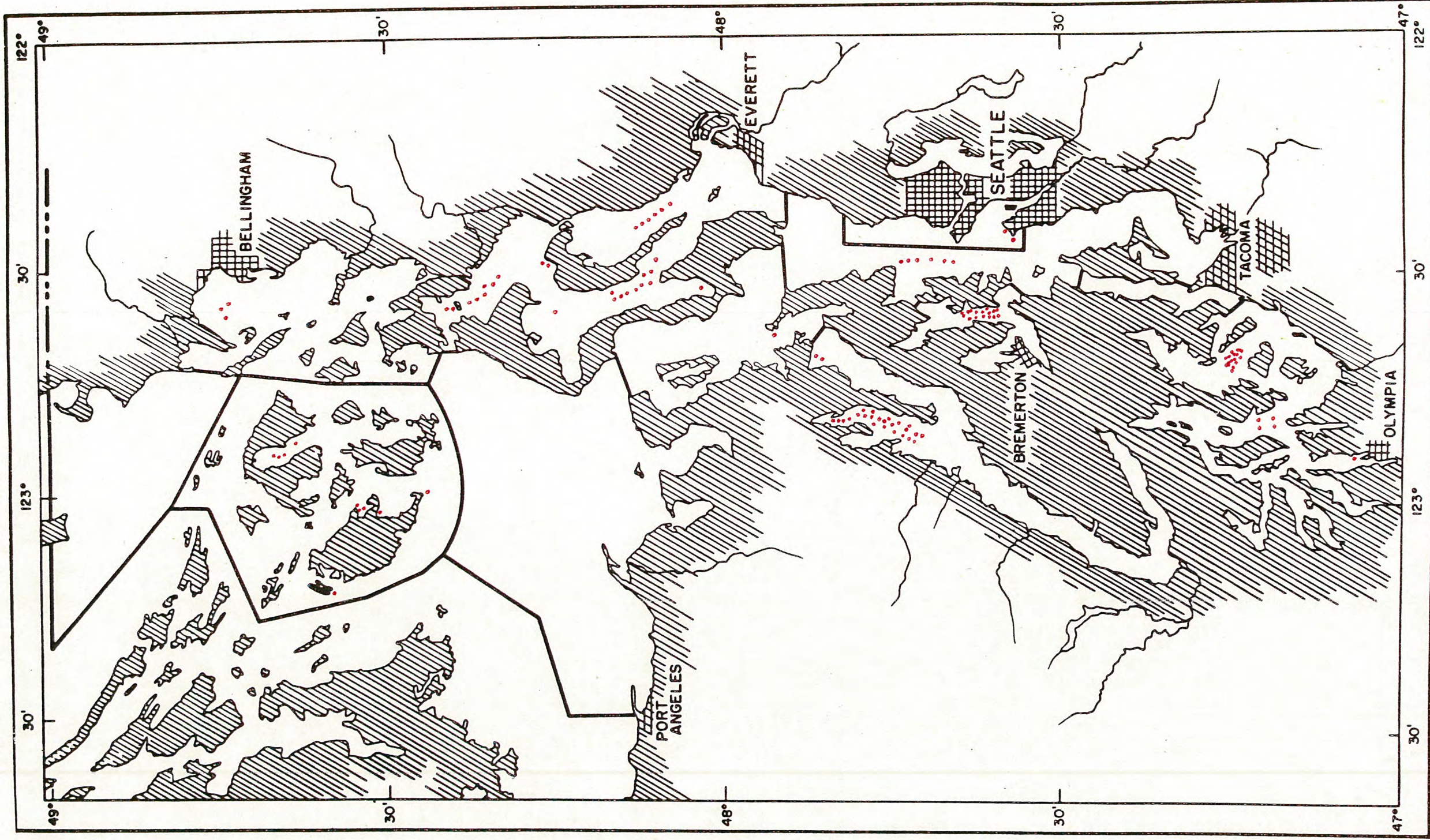
University of Washington  
Museum Collection

- 1-E (Utsalady): 2555.  
1-SJ (East Sound): 4853.  
1-HC (Union): 5077.  
1-PO (Chico): 5082.  
1-E (Utsalady Beach): 12790.

Miscellaneous Logs

- 1-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.







*Engraulis mordax*

## Engraulidae

Published Records

- 1-PS: Jordan and Gilbert, 1881c.  
 1-PS: Jordan and Starks, 1896.  
 1-PS: Kincaid, 1919.  
 8-E (Kiket Island to Strawberry Point): Stober and Salo, 1970b.  
 1-HC (fyke net in Big Beef Harbor): Anderson and Chew, 1972.

University of Washington  
Museum Collection

- 1-S (below Government Locks): 413.  
 2-E (Utsalady): 1447; 2554.  
 1-S (Alki Point): 1918.  
 1-S (Duwamish to Alki Point): 14670.  
 1-SS (Olympia): 5083.  
 1-HC: 6153.

Friday Harbor Laboratory Log

- 1-SJ (Friday Harbor): 8/7/60.  
 1-SJ (Argyle Bay): 7/15/63.  
 2-SJ (Friday Harbor Lab night light): 2/8/69; 4/8/69.  
 1-SJ (Open Bay): 8/19/69-1.  
 1-SJ (off Cattle Point): 8/20/69-1.

University of Washington Boat Log

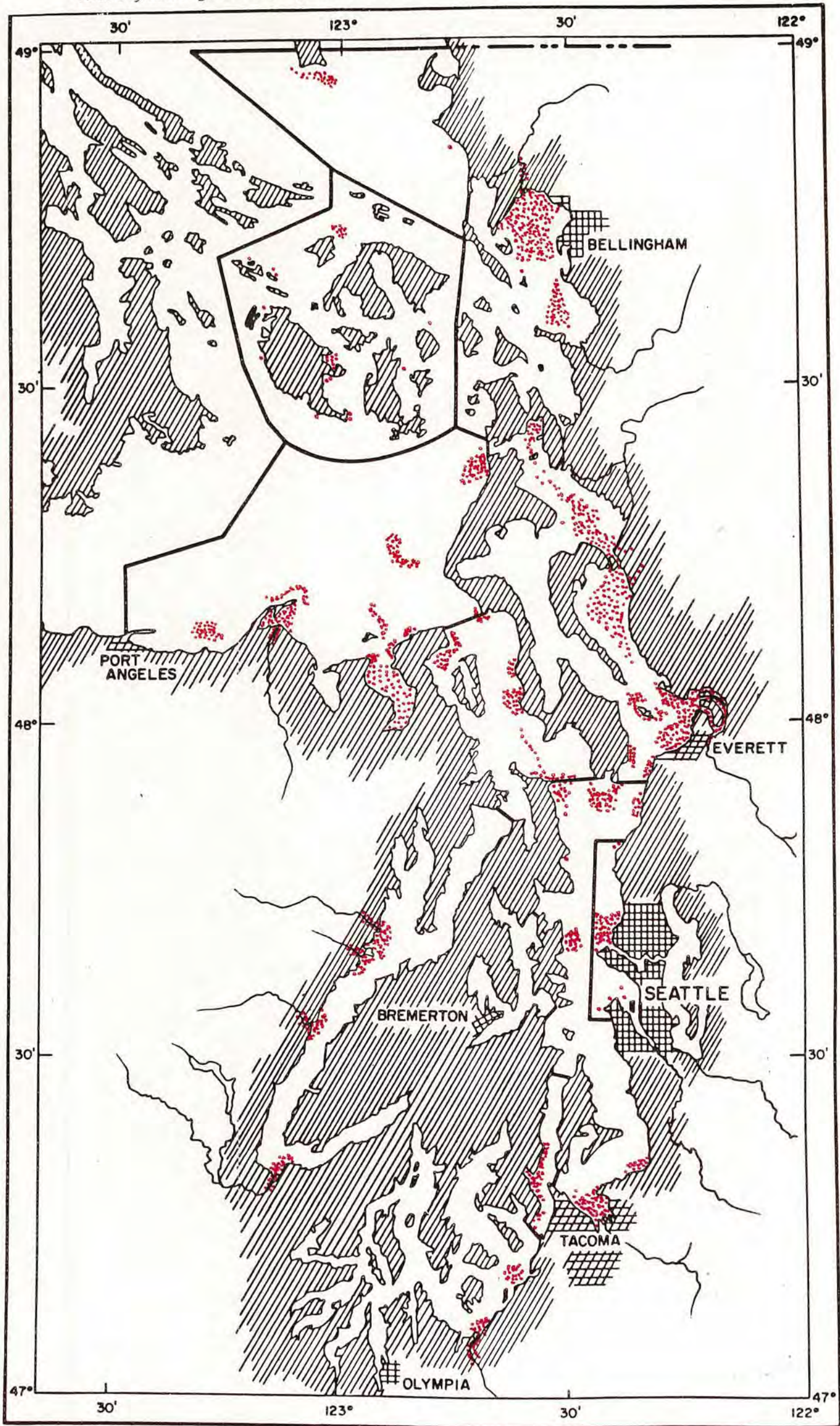
- 1-PO: 6007A.  
 1-E (lower Holmes Harbor): 5312E.  
 7-PO (off Fletcher Bay): 6021; 6100; 6101B; 6109A; 6205D1, D2; 6427B.  
 4-HC (Dabob Bay, Broad Spit to Long Spit): 6724A; 7202H,I; 7303F.  
 4-HC (Dabob Bay): 7205I,N; 7112A,B.  
 3-SJ (training cruise area: East Sound, north of Rosario Point): 6815H; 7118H; 7017H.  
 1-E (training cruise area: off Penn Cove): 7118E.  
 5-PO: 6916H; 7011B; 7104-2; 7105-1,2.  
 1-AI (just south of Foulweather Bluff on east side of Hood Canal entrance): 7112E.  
 1-PO (probably off Fletcher Bay): 6916D.

Miscellaneous Logs

- 2-B (Bellingham Bay): R. Tyler, personal communication, 6/3/63 (also Tyler, 1964).  
 1-PO (Narrows, just south of Fletcher Bay): U.W. Ocean., P.O., 1964-65.  
 4-SS (off Taylor Bay to off Whiteman Cove): U.W. Ocean., Commando, 1968.  
 6-CS (off Skiff Point to off Point Jefferson): U.W. Ocean., herring trawl, 1968-69.

- 14-SS (mouth of Carr Inlet): U.W. Ocean., herring trawl, 1968-69.  
 6-E (Port Susan): U.W. Ocean., herring trawl, 1968-69.  
 7-PO (south of Fletcher Bay): U.W. Ocean., herring trawl, 1968-69.  
 1-SJ (East Sound, south of Rosario Point): NIH, 1964-66.  
 10+-E (spawning in mid Saratoga Pass.): Percy Washington, personal communication, summer 1971.  
 10+-HC (spawning in mid Dabob Bay): Percy Washington, personal communication, summer 1971.  
 1-B (mid-channel, off Nooksack estuary): Sea Grant, 72035.  
 2-HC (Squamish Bay): NMFS, Cobb-21.  
 1-S (beach seine, south side of West Point): Sea Grant, 1973.







*Oncorhynchus gorbuscha*

## Salmonidae

Published Records

- 1-PS:  
 Jordan and Gilbert, 1881a; 1881c.
- 1-SJ: Shelford, 1935.
- 50+-B (major run: Nooksack River):  
 Smoker, 1954.
- 50+-E (major runs: Skagit River,  
 Stillaguamish River, and  
 Snohomish River): Smoker, 1954.
- 50+-CS (major run: Puyallup River):  
 Smoker, 1954.
- 50+-JF (smaller run: Dungeness  
 River): Smoker, 1954.
- 50+-HC (smaller run: into Hood  
 Canal): Smoker, 1954.
- 50+-JF (commercial fishing:  
 Discovery Bay): Smoker, 1954.
- 50+-AI (commercial fishing:  
 Admiralty Inlet general and Point  
 No Point): Smoker, 1954.
- 50+-CS (commercial fishing: Point No  
 Point and Rolling Bay):  
 Smoker, 1954.
- 50+-E (commercial fishing: Port  
 Gardner, Port Susan, and Skagit  
 Bay): Smoker, 1954.
- 50+-S (commercial fishing: Meadow  
 Point): Smoker, 1954.
- 50+-B (commercial fishing:  
 Bellingham Bay): Smoker, 1954.
- 6-E (Kiket Island to Strawberry  
 Point): Stober and Salo, 1970b.
- 1-E (beach seine: Kiket Island):  
 Stober and Salo, 1970a.
- 1-SJ (Friday Harbor): Lloyd, 1936.
- B (Bellingham Bay): Tyler, 1964.  
 (do not use: *see* Miscellaneous Logs  
 for duplicates.)
- 50+-SS (sport fishing area: south of  
 Toliva Shoal):  
 Haw and Buckley, 1971.
- 50+-CS (sport fishing areas: near  
 shore Browns Point through  
 Commencement Bay; near shore  
 Lakota and Redondo through  
 Poverty Bay; and large area south  
 of Scatchet Head and Possession  
 Point; and Norma Beach through  
 north of Picnic Point):  
 Haw and Buckley, 1971.
- 50+-E (sport fishing areas: near  
 shore Mukilteo and south; near  
 shore Glendale to Columbia Beach;  
 near shore off City of Everett;  
 south of Camano Head along the  
 west side of Gedney Island to  
 southeast of Gedney Island; near  
 shore Mission Bar and south):  
 Haw and Buckley, 1971.
- 50+-HC (sport fishing area: near  
 shore just south of Dosewallips  
 River): Haw and Buckley, 1971.
- 50+-AI (sport fishing areas: near  
 shore Bush Point and north (best  
 pink area in Puget Sound); near  
 shore at Lagoon Point; Point  
 Wilson and south to Port  
 Townsend; near shore at Admiralty  
 Head): Haw and Buckley, 1971.
- 50+-JF (sport fishing areas: near  
 shore at Admiralty Head; off  
 Middle Point; around Cape George;  
 long shallow area west of Dallas  
 Bank; around Diamond Point; large  
 area south and west edge of  
 Partridge Bank):  
 Haw and Buckley, 1971.
- 50+-SJ (sport fishing area: off  
 Point Hammond, Waldron Island):  
 Haw and Buckley, 1971.
- 50+-GS (sport fishing area: Point  
 Roberts): Haw and Buckley, 1971.
- 50+-JF (sport fishing areas: off  
 Dungeness Spit; large area off  
 Green Point; off Ediz Hook):  
 Haw and Buckley, 1971.
- 50+-JF (commercial fishing: West  
 Beach): Wash. State Dep. Fish.,  
 Annual Report, 1969.
- 50+-SJ: Wash. State Dep. Fish.,  
 Annual Report, 1969.
- 50+-E (commercial fishing: Port  
 Susan; Port Gardner; Skagit Bay):  
 Wash. State Dep. Fish., Annual  
 Report, 1969.
- 50+-B (commercial fishing: off  
 Nooksack River, Samish Bay):  
 Wash. State Dep. Fish., Annual  
 Report, 1969.
- 50+-HC (commercial fishing):  
 Wash. State Dep. Fish., Annual  
 Report, 1969.
- 50+-SS (Indian fishing: Nisqually  
 River): Wash. State Dep. Fish.,  
 Annual Report, 1969.
- 50+-CS (Indian fishing: Puyallup  
 River): Wash. State Dep. Fish.,  
 Annual Report, 1969.
- 50+-JF (Big Run, large escapement:  
 Dungeness River): Wash. State  
 Dep. Fish., Annual Report, 1967.
- 50+-JF (spawning ground (major):  
 Dungeness River):  
 Atkinson, Rose, and Duncan, 1967.
- 50+-B (spawning ground (major)):  
 Atkinson et al., 1967.
- 50+-E (spawning grounds (major):  
 Skagit River; Stillaguamish  
 River; and Snohomish River):  
 Atkinson et al., 1967.
- 50+-HC (spawning grounds:  
 Dosewallips River; Duckabush  
 River; and Hamma Hamma River):  
 Atkinson et al., 1967.
- 50+-CS (spawning ground: Puyallup  
 River): Atkinson et al., 1967.
- 10+-HC (commercial fishing:  
 Skokomish River): Wash. State  
 Dep. Fish., Annual Report, 1969.
- 50+-GS: Pritchard and DeLacy, 1944;  
 DeLacy and Neave, 1947.



*Oncorhynchus gorbuscha*

## Salmonidae

University of Washington  
Museum Collection

- 1-S (Pipers Canyon): 143.  
 1-S (Alki Point): 920.  
 1-SJ (near Peavine Pass): 1100.  
 3-SJ (Friday Harbor):  
     2098; 2107; 15010.  
 1-SJ (Roche Harbor): 2946.  
 2-SJ: 3546; 15829.  
 1-CS (Tacoma): 4252.  
 2-S (Edmonds): 4259; 6572.  
 2-S (Ballard Beach): 4299; 11275.  
 1-S (beach seine: North Beach):  
     4678.  
 1-S (Shilshole Bay): 5193.  
 1-CS (Kingston cove, Appletree  
     Cove): 5314.  
 1-S (Carkeek Park): 5534.  
 1-PS: 5601.
- 3-E: WSDF, Sport Fish., 1965-70.  
 50+-AI (off Bush Point):  
     WSDF, Sport Fish., 1965-70.  
 1-S (Elliott Bay):  
     WSDF, Sport Fish., 1965-70.  
 3-SS: WSDF, Sport Fish., 1965-70.  
 50+-HC: WSDF, Sport Fish., 1965-70.  
 1-JF (inside Dungeness Spit):  
     Peninsula College, 1971.  
 50+-CP (Gig Harbor): Ray Johnson,  
     personal communication, 4/24/72.  
 1-S (beach seine: north side West  
     Point): Sea Grant, 1973.  
 1-GS (south of Cherry Point):  
     Sea Grant, 72008.

Friday Harbor Laboratory Log

- 1-SJ (Reef Bay, northeast Johns  
     Island): 7/5/51-1.  
 1-SJ (Johns Island): 7/10/50-1.  
 1-SJ (Satellite Island): 7/10/50-5.  
 2-SJ (Friday Harbor):  
     6/21/55-1; 8/5-10/60.  
 3-SJ (Friday Harbor Lab):  
     7/50; 7/17/60; 6/67.  
 1-SJ (Eagle Point): 7/13/50-3.  
 2-SJ (west of Goose Island):  
     7/13/50-4,5.  
 1-SJ (south of Frost Island):  
     6/19/50-2 (also boat 5033D).  
 2-SJ (Argyle Bay):  
     6/22/61; 7/15/63.  
 1-SJ (Deadman Bay): 6/22/63.

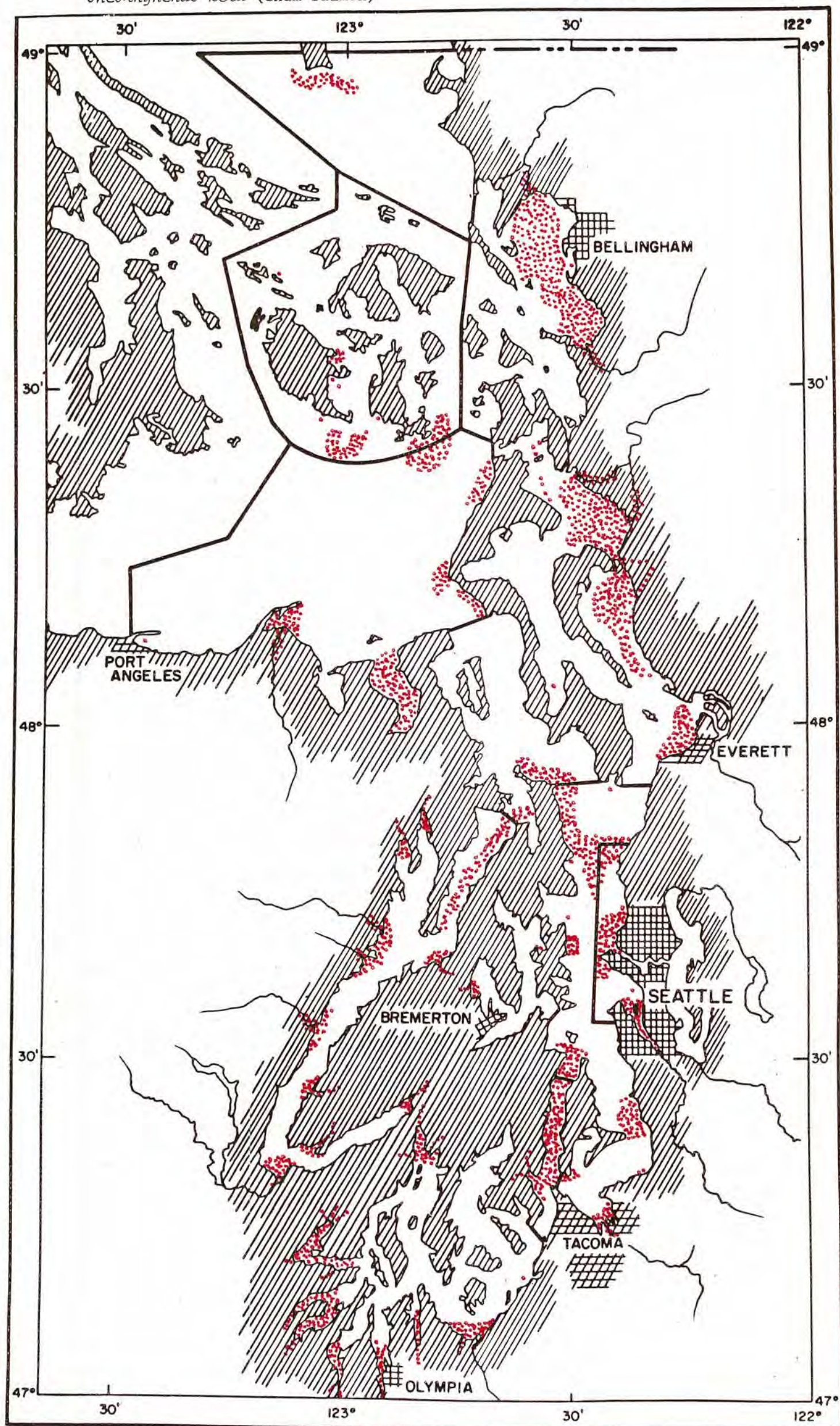
University of Washington Boat Log

- 13-S (beach seine: Golden Gardens to  
     Meadow Point): 5015D; 5209D;  
     5214B1,B2; 5215G,J,L; 5411C;  
     5414A,D; 5415D,I; 5612A.  
 2-S (beach seine: Carkeek Park):  
     5808A,B.  
 1-E (training cruise area: off  
     Strawberry Point): 6614.  
 1-S (west of Duwamish Head): 6615A.

Miscellaneous Logs

- 11-B (beach seine and fyke net:  
     north part of Bellingham Bay):  
     R. Tyler, personal communication,  
     1/18/74.  
 1-B (towntnet: Bellingham Bay, north  
     of Eliza Island): R. Tyler,  
     personal communication, 1/18/74.  
 10+-E (large area east of Gedney  
     Island): R. Tyler, personal  
     communication, 6/3/63.  
 50+-JF (off West Beach):  
     WSDF, Sport Fish., 1965-70.  
 50+-E (Skagit and Similk Bays):  
     WSDF, Sport Fish., 1965-70.







*Oncorhynchus keta*

## Salmonidae

Published Records

- 1-SS (Fort Steilacoom):  
Suckley, 1874.
- 1-JF (New Dungeness):  
Suckley, 1874.
- 1-PS: Jordan and Gilbert, 1881a,c.
- 2-S (Duwamish River; Cedar River):  
Rathbun, 1900.
- 1-SJ: Starks, 1911.
- 50+-GS (commercial: Point Roberts):  
Kelly, 1946.
- 50+-B (commercial: Bellingham Bay):  
Kelly, 1946.
- 50+-SJ (commercial: south of Cattle  
Point; southeast of Lopez  
Island): Kelly, 1946.
- 50+-E (commercial: Skagit Bay; Port  
Gardner): Kelly, 1946.
- 50+-JF (commercial: west of Point  
Partridge; south of Point  
Partridge to Admiralty Head;  
Discovery Bay): Kelly, 1946.
- 50+-AI (commercial: Foulweather  
Bluff to Point No Point):  
Kelly, 1946.
- 50+-HC (commercial: Port Gamble to  
Hazel Point): Kelly, 1946.
- 50+-CS (commercial: Point No Point  
to Apple Cove Point; Bainbridge  
Island toward Magnolia Bluff; off  
Edmonds): Kelly, 1946.
- 50+-CS and CP (commercial: above  
north end of Colves Pass to south  
end of Vashon Island; Point Pully  
to east tip of Maury Island):  
Kelly, 1946.
- 50+-S (commercial: off Magnolia  
Bluff; off Edmonds):  
Kelly, 1946.
- 50+-SS (commercial: Nisqually  
Flats): Kelly, 1946.
- 50+-JF (commercial: Discovery Bay):  
Smoker, 1954.
- 50+-AI (commercial: Point No Point):  
Smoker, 1954.
- 50+-E (commercial: Port Gardner;  
Port Susan; Skagit River and  
Skagit Bay): Smoker, 1954.
- 50+-B (commercial: Bellingham Bay  
and Nooksack River):  
Smoker, 1954.
- 50+-S (commercial: Meadow Point):  
Smoker, 1954.
- 50+-CS (commercial: Point No Point;  
Rolling Bay; White-Puyallup  
River): Smoker, 1954.
- 50+-SS (commercial: Nisqually River;  
Indian): Smoker, 1954.
- 50+-HC (commercial: Skokomish  
River): Smoker, 1954.
- 50+-JF (spawning grounds: Dungeness  
River):  
Atkinson, Rose, and Duncan, 1967.
- 50+-B (spawning grounds: Samish  
River; Nooksack River):  
Atkinson et al., 1967.
- 50+-E (spawning grounds: Skagit  
River; Stillaguamish River;  
Snohomish River):  
Atkinson et al., 1967.
- 50+-HC (spawning grounds: creek at  
north end Dabob Bay; Quilcene  
River; Dosewallips River; Big  
Beef Creek; Duckabush River;  
Hamma Hamma River; Skokomish  
River; creek at Dewatto Bay;  
Tahuya River; Union River):  
Atkinson et al., 1967.
- 50+-PO (spawning grounds: Chico  
Creek): Atkinson et al., 1967.
- 50+-S (spawning grounds: Green-  
Duwamish River):  
Atkinson et al., 1967.
- 50+-CS (spawning grounds: Puyallup  
River): Atkinson et al., 1967.
- 50+-SS (spawning grounds: Nisqually  
River; McAllister Creek; creeks  
at head of Henderson Inlet;  
Deschutes River; creeks at head  
of Eld Inlet; creeks at head of  
Wildcat Harbor and Totten Inlet;  
creeks near Skookum Point;  
Shelton, and at head of Oakland  
Bay; creeks near Grapeview,  
Allyn, and Victor; Minter Creek):  
Atkinson et al., 1967.
- 6-E (Kiket Island to Strawberry  
Point): Stober and Salo, 1970b.
- 1-E (beach seine: Kiket Island):  
Stober and Salo, 1970a.
- 1+-SS: Jensen, 1952.
- 1+-HC: Jensen, 1952.
- 1+-E (Port Gardner and Port Susan):  
Johnson, 1952.
- 100-B (beach seine and fyke net:  
Bellingham Bay, north of Eliza  
Island): Tyler, 1964.
- 40-B (townet: Bellingham Bay, north  
of Eliza Island): Tyler, 1964.
- 50+-JF (commercial fishing: West  
Beach): Wash. State Dep. Fish.,  
Annual Report, 1969.
- 50+-SJ (commercial fishing):  
Wash. State Dep. Fish., Annual  
Report, 1969.
- 50+-E (commercial fishing: Port  
Susan; Port Gardner; and Skagit  
Bay): Wash. State Dep. Fish.,  
Annual Report, 1969.
- 50+-B (commercial fishing: Nooksack  
River; Samish Bay): Wash. State  
Dep. Fish., Annual Report, 1969.
- 50+-HC (commercial fishing: Hood  
Canal; Indian fishing: Skokomish  
River): Wash. State Dep. Fish.,  
Annual Report, 1969.
- 50+-SS (Indian fishing: Nisqually  
River): Wash. State Dep. Fish.,  
Annual Report, 1969.
- 2-HC (fyke net: in Big Beef Harbor):  
Anderson and Chew, 1972.



*Oncorhynchus keta*

## Salmonidae

University of Washington  
Museum Collection

1-S (Pipers Canyon): 142.  
 1-SJ (Davis Bay): 610.  
 1-S (Seattle): 332.  
 1-S (North Beach): 4235.  
 5-S (Edmonds):  
     4260; 4916; 4931; 6328; 6573.  
 1-S (Ballard Beach): 4300.  
 1-S (entrance to ship canal): 5009.  
 2-CS (Redondo Beach): 5308; 15096.  
 1-CS (Kingston dock): 5315.  
 1-PS (sport fishing: Possession  
     Point area and West Whidbey  
     Island): 8374.  
 1-S (spit area, Ballard Locks):  
     4583.  
 1-CP (Point Defiance): 14995.  
 3-SJ (Friday Harbor Lab):  
     15049; 15050 (also Friday Harbor  
     Log, 8/1/52); 15052.  
 1-SJ (second bay, north side Johns  
     Island): 15051.  
 1-PS: 15080.  
 1-CS (Monroe Spit): 15084.  
 1-S (Golden Gardens): 15066.  
 1-B (Chuckanut Bay): 18888.

Friday Harbor Laboratory Log

1-SJ (Eagle Point): 7/13/50.  
 2-SJ (night light: Friday Harbor  
     Lab): 7/50; 1969.  
 6-SJ (Friday Harbor Lab):  
     7/31/52; 8/2/52; 8/4/52; 7/7/52;  
     7/8/52; 7/29/55.  
 1-SJ (White Point): 6/25/55-1.  
 2-SJ (Friday Harbor):  
     8/2/55; 8/5-10/60.  
 1-SJ (Argyle Bay): 8/16/55-2.  
 1-SJ (North Bay): 8/18/60-1.

University of Washington Boat Log

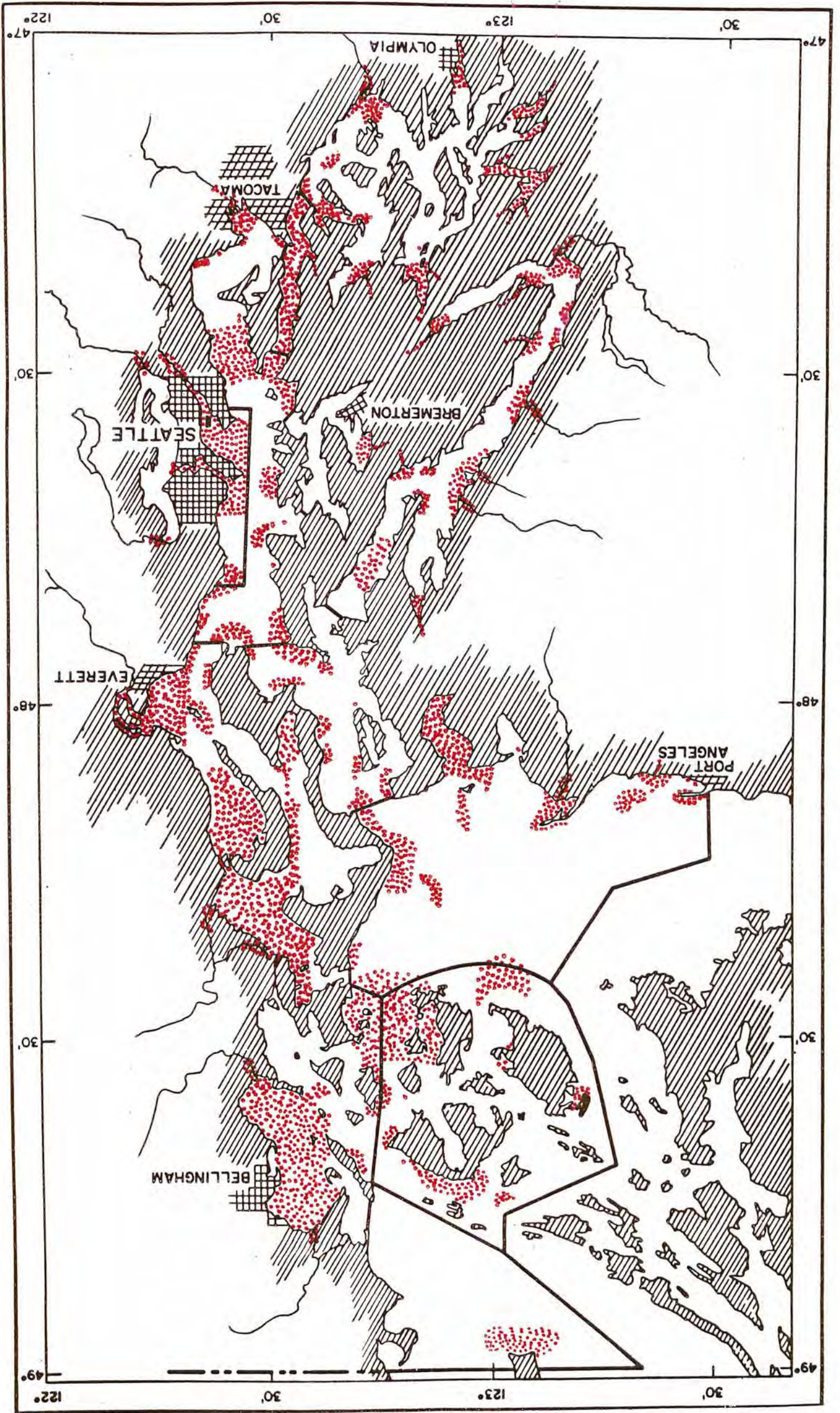
14-S (beach seine: Golden Gardens):  
     5114D; 5510A,E,F; 5513A,B,D;  
     5710C; 5914A,B,C; 6115A.  
 1-S (beach seine: Carkeek Park):  
     5313A.  
 2-S (beach seine: north side of West  
     Point): 7310B2,B3.  
 1-S (Golden Gardens): 6511C.  
 1-PO (in Manzanita Bay, night  
     light): 5518.  
 1-E (Holmes Harbor): 7110D.

Miscellaneous Logs

1-B (Bellingham Bay): Bill High,  
     personal communication, 12/9/63.  
 50+-HC: WSDF, Sport Fish., 1965-70.  
 1-JF (beach seine: inside Dungeness  
     Spit): Peninsula College, 1971.  
 1-JF (beach seine: inside Port  
     Angeles embayment):  
     Peninsula College, 1971.

50+-CP (spawning grounds: Crescent  
     Creek and other small creeks  
     entering Gig Harbor; large  
     numbers of juvenile chum are seen  
     in Gig Harbor, mostly on side  
     opposite the town): Ray Johnson,  
     personal communication, 4/24/72.  
 1-S (beach seine: north side of West  
     Point): Sea Grant, 1973.  
 1-S (beach seine: south side of West  
     Point): Sea Grant, 1973.  
 6-B (beach seine: Wildcat Cove):  
     Sea Grant, 1973.





*Oncomorhynchus kisutch* (coho salmon)

Salmonidae



*Oncorhynchus kisutch*

## Salmonidae

Published Records

- 1-PS: Jordan and Gilbert, 1881a,c.  
 2-S (Duwamish River; Lake Union):  
 Evermann and Meek, 1898.  
 1-JF (beach seine: Port Angeles):  
 Gilbert, 1895.  
 1-PS: Rathbun, 1900.  
 1-SJ (near Friday Harbor):  
 Powers, 1921.  
 1-SJ: Shelford, 1935.  
 50+-GS (commercial fishing: Point  
 Roberts): Kelly, 1946.  
 50+-SJ (commercial fishing: north of  
 Orcas Island; Lopez Island to  
 Fidalgo Island; south of San Juan  
 Island): Kelly, 1946.  
 50+-B (commercial fishing:  
 Bellingham Bay): Kelly, 1946.  
 50+-B (commercial fishing: off west  
 side of Fidalgo Island):  
 Kelly, 1946.  
 50+-E (commercial fishing: Skagit  
 Bay; Port Gardner): Kelly, 1946.  
 50+-JF (commercial fishing: Point  
 Partridge through Admiralty Head;  
 Discovery Bay): Kelly, 1946.  
 50+-HC (commercial fishing: below  
 Squamish Harbor): Kelly, 1946.  
 50+-S (commercial fishing: Edmonds;  
 off Magnolia): Kelly, 1946.  
 50+-CP (commercial fishing: north  
 part of Colvos Pass):  
 Kelly, 1946.  
 50+-CS (commercial fishing: north  
 part of East Pass.):  
 Kelly, 1946.  
 50+-JF (commercial fishing:  
 Discovery Bay): Smoker, 1954.  
 50+-AI (commercial fishing):  
 Smoker, 1954.  
 50+-CS (commercial fishing: Point No  
 Point; Rolling Bay; Indian  
 fishing: White-Puyallup River):  
 Smoker, 1954.  
 50+-E (commercial fishing: Port  
 Gardner; Port Susan; Skagit River  
 and Skagit Bay): Smoker, 1954.  
 50+-B (commercial fishing: Nooksack  
 River and Bellingham Bay):  
 Smoker, 1954.  
 50+-S (commercial fishing: Meadow  
 Point): Smoker, 1954.  
 50+-SS (commercial fishing:  
 Nisqually River): Smoker, 1954.  
 50+-HC (commercial fishing:  
 Skokomish River): Smoker, 1954.  
 50+-JF (spawning grounds: Morse  
 Creek; Dungeness River):  
 Atkinson, Rose, and Duncan, 1967.  
 50+-B (spawning grounds: Nooksack  
 River; Samish River):  
 Atkinson et al., 1967.  
 50+-E (spawning grounds: Skagit  
 River; Stillaguamish River;  
 Snohomish River):  
 Atkinson et al., 1967.  
 50+-HC (spawning grounds: creek at  
 head of Dabob Bay; Big Beef  
 Creek; Dosewallips River; Ducka-  
 bush River; Hamma Hamma River;  
 creek at Dewatto Bay; Tahuya  
 River; Union River; Skokomish  
 River): Atkinson et al., 1967.  
 50+-CS (spawning grounds: Puyallup  
 River): Atkinson et al., 1967.  
 50+-PO (spawning grounds: Chico  
 Creek): Atkinson et al., 1967.  
 50+-S (spawning grounds: Ship Canal;  
 Issaquah Creek; Cedar River;  
 Green-Duwamish River):  
 Atkinson et al., 1967.  
 50+-SS (spawning grounds: Nisqually  
 River; Minter Creek; Deschutes  
 River; creeks entering heads of  
 Skookum and Totten Inlets; creeks  
 near Skookum Point, Shelton, and  
 the head of Oakland Bay; creeks  
 near Grapeview and Allyn):  
 Atkinson et al., 1967.  
 54-B (fyke net and beach seine:  
 north of Eliza Island in  
 Bellingham Bay): Tyler, 1964.  
 33-B (towntnet: north of Eliza Island  
 in Bellingham Bay): Tyler, 1964.  
 6-E (Kiket Island to Strawberry  
 Point): Stober and Salo, 1970b.  
 42-S (Seattle and Elliott Bay):  
 Allen, 1956.  
 50+-JF (Diamond Point):  
 Allen, 1956.  
 50+-CS (Possession Point):  
 Allen, 1956.  
 59+-CP (Day Island): Allen, 1956.  
 50+-S (Government Locks):  
 Allen, 1956.  
 50+-CS (Manchester): Allen, 1956.  
 50+-HC: Allen, 1956.  
 50+-SJ: Allen, 1956.  
 50+-AI: Allen, 1956.  
 50+-B (near Bellingham):  
 Sjolseth, 1969.  
 2-CP (Gig Harbor):  
 Miller and Stauffer, 1967.  
 2-CP (Colvos Pass):  
 Miller and Stauffer, 1967.  
 3-CS (north tip of Vashon Island):  
 Miller and Stauffer, 1967.  
 2-CS (east of Vashon Island):  
 Miller and Stauffer, 1967.  
 7-CS (east of Bainbridge Island):  
 Miller and Stauffer, 1967.  
 5-CS (south of Whidbey Island):  
 Miller and Stauffer, 1967.  
 2-S (Elliott Bay):  
 Miller and Stauffer, 1967.  
 9-S (Golden Gardens):  
 Miller and Stauffer, 1967.  
 4-S (Seattle):  
 Miller and Stauffer, 1967.  
 2-E (Everett):  
 Miller and Stauffer, 1967.



*Oncorhynchus kisutch*

## Salmonidae

Published Records

- 1-AI (south tip of Marrowstone Island):  
Miller and Stauffer, 1967.
- 1-HC: Bayliff, 1953.
- 1-JF: Bayliff, 1953.
- 1-E (Everett): Bayliff, 1953.
- 50+-S (sport catch: Ballard; Elliott Bay): Fitzgerald, 1953.
- 50+-E (sport catch: Camano; Holmes Harbor; Port Susan; Skagit Bay): Fitzgerald, 1953.
- 50+-HC (sport catch: north and south): Fitzgerald, 1953.
- 50+-AI (sport catch: north side Point No Point): Fitzgerald, 1953.
- 50+-CS (sport catch: Possession Point; Rolling Bay; Puyallup River estuary): Fitzgerald, 1953.
- 50+-CP (sport catch: Point Defiance): Fitzgerald, 1953.
- 2-E (Skagit Bay): Jensen, 1952.
- 2-AI (Bush Point): Jensen, 1952.
- 2-JF (West Beach): Jensen, 1952.
- 3-CS (Possession Point; Meadowdale; Rolling Bay): Jensen, 1952.
- 1-S (Ballard): Jensen, 1952.
- 2-E (Port Susan; Port Gardner): Jensen, 1952.
- 2-CP (West Pass.; Point Defiance): Jensen, 1952.
- 2-E (Port Gardner; Port Susan): Johnson, 1952.
- 1-CS (beach seine: south side of Point Jefferson): Kendall, 1966.
- 1-CS (Dumas Bay): Miller, 1971b.
- 1-CS (Seahurst County Park): Miller, 1971a.
- 50+-SS (sport fishing areas: south of Anderson Island; Toliva Shoal; Hale Pass near Wollochet Bay; south of Green Point into Hale Pass; off Minter Creek): Haw and Buckley, 1971.
- 50+-CP (sport fishing areas: Point Defiance): Haw and Buckley, 1971.
- 50+-CS (sport fishing areas: near Point Defiance; Browns Point through Tacoma waterfront; Poverty Bay through Lakota; Jefferson Head; large area south of Whidbey Island; Normar Beach and north): Haw and Buckley, 1971.
- 50+-HC (sport fishing areas: Tahuya; Union; Hoodspert; Dewatto; Lilhwaup; Misery Point; Oak Head and Tskutsko Point): Haw and Buckley, 1971.
- 50+-S (sport fishing areas: off Duwamish River and Harbor Island; West Point through Golden Gardens): Haw and Buckley, 1971.
- 50+-AI (sport fishing areas: Point No Point to Hansville; south of Double Bluff; north of Foulweather Bluff): Haw and Buckley, 1971.
- 50+-E (sport fishing areas: Mukilteo and south; Glendale to Columbia Beach; Everett waterfront; large area north, west, and south of Gedney Island; Mission Bar; Baby Island; Onamac Point through Rocky Point; large area north of Rocky Point): Haw and Buckley, 1971.
- 50+-AI (sport fishing areas: Bush Point and north; Lagoon Point; east of Marrowstone Point; Point Wilson and south; Admiralty Head): Haw and Buckley, 1971.
- 50+-JF (sport fishing areas: Admiralty Head; east of Dallas Bank; Diamond Point; west and south of Partridge Bank; West Beach): Haw and Buckley, 1971.
- 50+-B (sport fishing areas: south of Reef Point, Cypress Island; Strawberry Island, Tide Point, and Towhead Island; Lummi Rocks, west side Lummi Island): Haw and Buckley, 1971.
- 50+-SJ (sport fishing areas: south of Point Lawrence; north of Waldron Island; Mosquito Pass): Haw and Buckley, 1971.
- 50+-GS (sport fishing area: Point Roberts): Haw and Buckley, 1971.
- 50+-JF (sport fishing areas: outside Dungeness Spit; large area north of Green Point; outside Ediz Hook): Haw and Buckley, 1971.
- 50+-HC (Indian fishing: Skokomish River): Wash. State Dep. Fish., Annual Report, 1969.
- 50+-CS (Indian fishing: Puyallup River): Wash. State Dep. Fish., Annual Report, 1969.
- 1+-SJ: MacPhee and Clemens, 1962 (also Friday Harbor Lab Log).
- 50+-SS (Indian fishing: Nisqually River): Wash. State Dep. Fish., Annual Report, 1969.

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- 2-S (Seattle): 836; 846.
- 1-SJ (Peavine Pass.): 1099.
- 1-S (below Government Locks): 1853.
- 1-S (Edmonds Beach): 4478.
- 1-S (south of Ballard Locks): 4814.
- 1-PS: 5018.
- 2-S (Edmonds): 5289, 6326.
- 1-S (off Edmonds): 15023.
- 1-S (Golden Gardens): 6043.



*Oncorhynchus kisutch*

## Salmonidae

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- 1-PS: 6154.  
 1-S (Ballard Locks): 6322.  
 1-CS (Possession Point): 8371.  
 2-CP (Point Defiance): 8372; 14996.  
 1-PS (Possession Point area and West Whidbey Island, sport fishing): 8373.  
 1-CS (Manchester): 15024.  
 1-SS (Tumwater): 15054.  
 1-PS (Everett boathouse and Haines wharf): 16071.  
 1-S (Harbor Island, Elliott Bay): 14368.  
 3-JF (Dungeness hatchery): 15011; 15009; 15039.  
 1-JF (Snow Creek above bridge at Discovery Bay): 17543.

Friday Harbor Laboratory Log

- 1-SJ (Friday Harbor): 8/5-10/60.  
 2-SJ (Argyle Bay): 6/23/61; 7/18/61-1.  
 1-JF: 8/60.  
 1-SJ (Friday Harbor, night light): 1969.

University of Washington Boat Log

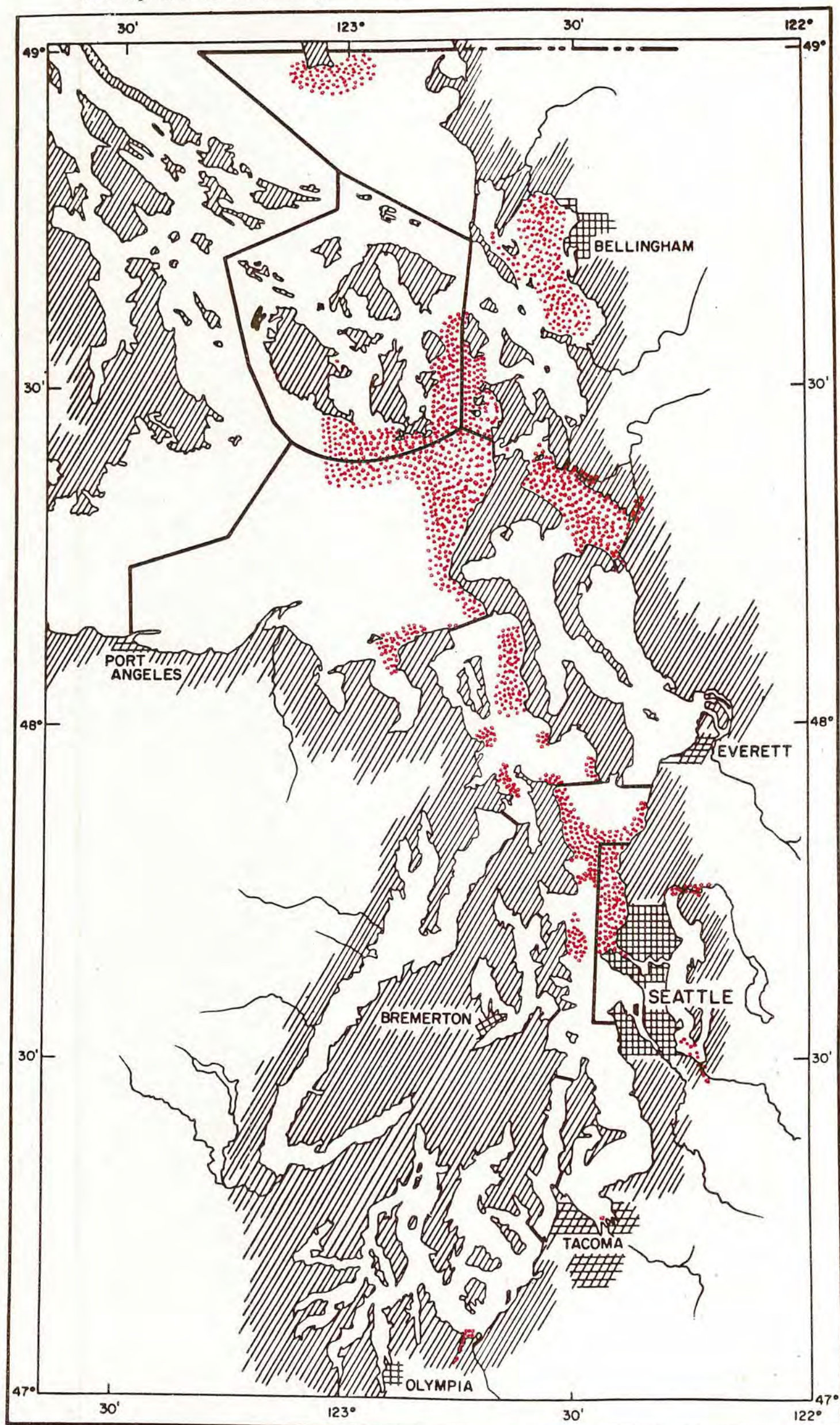
- 28-S (beach seine: Golden Gardens): 5015B,C,D; 5021H; 5024C; 5116G2; 5214A; 5215U; 5411A; 5414A; 5415A,I,J,G,P; 5417A; 5914A; 5920M,N; 6019A,C; 6116B; 6210C; 6211; 6319; 6417; 6709; 6716.  
 1-S (beach seine: Carkeek Park): 5225A.  
 1-S (off Carkeek Park): 5519.  
 1-S (Golden Gardens): 6511C.  
 4-S (beach seine: West Point, north side near Metro dock): 7310A1,A2,B1,B3.

Miscellaneous Logs

- 2-JF (Dungeness embayment, inside spit): Peninsula College, 1971.  
 1-JF (inside Ediz Hook): Peninsula College, 1971.  
 1-JF (Sequim Bay): Battelle, 1967-69.  
 50+-JF (off West Beach): WSDf, Sport Fish., 1965-70.  
 50+-E (Skagit and Similk Bays): WSDf, Sport Fish., 1965-70.  
 50+-E (Everett): WSDf, Sport Fish., 1965-70.  
 50+-AI (off Bush Point): WSDf, Sport Fish., 1965-70.  
 50+-S (Elliott Bay): WSDf, Sport Fish., 1965-70.  
 5-SS: WSDf, Sport Fish., 1965-70.  
 4-SJ: WSDf, Sport Fish., 1965-70.  
 50+-HC: WSDf, Sport Fish., 1965-70.

- 50+-CP (moderate run up Crescent Creek, Gig Harbor, plus many juveniles enter Gig Harbor on way through Tacoma Narrows, most stay on side opposite the town): Ray Johnson, personal communication, 4/24/72.  
 1-S (beach seine: north side of West Point): Sea Grant, 1973.  
 1-S (beach seine: south side of West Point): Sea Grant, 1973.  
 5-B (beach seine: Wildcat Cove): Sea Grant, 1973.  
 1-SS (east side of Stretch Island): Sea Grant, 73056.  
 1-CS (in Appletree Cove): Doug Olander, personal communication, Sport Catch Log, 1972-73.  
 1-S (Golden Gardens to Meadow Point): NIH, 1968-71.







*Oncorhynchus nerka*

## Salmonidae

Published Records

- 1-PS: Jordan and Gilbert, 1881c.  
 1-SJ: Shelford, 1935.  
 1-PS: Rathbun, 1900.  
 15+-SJ (tagging: Salmon Banks):  
   O'Malley and Rich, 1920.  
 10+-JF (tagging: Point Partridge):  
   O'Malley and Rich, 1920.  
 11+-B (tagging: Lummi Island):  
   O'Malley and Rich, 1920.  
 16+-GS (tagging: Point Roberts):  
   O'Malley and Rich, 1920.  
 50+-GS (commercial fishing: large  
   area west, south, and east of  
   Point Roberts): Kelly, 1946.  
 50+-SJ and JF (commercial fishing:  
   large area south of San Juan and  
   Lopez Islands): Kelly, 1946.  
 50+-SJ, B, and JF (commercial  
   fishing: large area from Cypress  
   Island to Admiralty Head):  
   Kelly, 1946.  
 50+-E (Indian traps: Skagit Bay):  
   Smoker, 1954.  
 50+-E (spawning grounds: Skagit  
   River): Smoker, 1954.  
 50+-S (spawning grounds: Lake  
   Washington and Lake Sammamish):  
   Smoker, 1954.  
 50+-E cCommercial fishing: Skagit  
   River and Skagit Bay):  
   Smoker, 1954.  
 5-E (Kiket Island to Strawberry  
   Point): Stober and Salo, 1970b.  
 1-SJ (Friday Harbor): Lloyd, 1936.  
 50+-JF (commercial fishing: Point  
   Beckett to Middle Point):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 50+-AI (commercial fishing: Bush  
   Point to Admiralty Bay):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 50+-CS (commercial fishing: Edmonds  
   to Apple Cove Point to Point No  
   Point): Wash. State Dep. Fish.,  
   Annual Report, 1969.  
 50+-S (commercial fishing: Meadow  
   Point to Edmonds): Wash. State  
   Dep. Fish., Annual Report, 1969.  
 50+-JF (purse seine test fishing:  
   West Beach): Wash. State Dep.  
   Fish., Annual Report, 1969.  
 4-AI (purse seine test fishery:  
   north side of Olele Point; east  
   of Tala Point; north of Hood  
   Head; north of Point No Point):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 25+-JF (purse seine test fishery:  
   Cape George to Protection Island  
   to Middle Point): Wash. State  
   Dep. Fish., Annual Report, 1969.  
 15+-AI (purse seine test fishery:  
   north of Olele Point; east of  
   Tala Point; and north of Hood  
   Head): Wash. State Dep. Fish.,  
   Annual Report, 1969.  
 2+-AI (purse seine test fishery:  
   south of Craven Rock):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 4+-JF (purse seine test fishery:  
   Point Wilson; off north of Ebeys  
   landing): Wash. State Dep.  
   Fish., Annual Report, 1969.  
 50+-AI (purse seine test fishery:  
   West of Bush Point; Lagoon Point  
   to off Greenbank): Wash. State  
   Dep. Fish., Annual Report, 1969.  
 10+-AI (purse seine test fishery:  
   Norwegian Point): Wash. State  
   Dep. Fish., Annual Report, 1969.  
 20+-AI (purse seine test fishery:  
   south end of Mutiny Bay; off  
   Indian Point): Wash. State Dep.  
   Fish., Annual Report, 1969.  
 40+-CS (purse seine test fishery:  
   Pilot Point; south of Eglon;  
   north of Apple Cove Point; and  
   northeast of President Point):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 5+-CS (purse seine test fishery:  
   Skiff Point to north of Point  
   Monroe): Wash. State Dep. Fish.,  
   Annual Report, 1969.  
 50+-S (purse seine test fishery:  
   Carkeek Park to Edmonds):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 25+-CS (purse seine test fishery:  
   north of Edmonds to Picnic  
   Point): Wash. State Dep. Fish.,  
   Annual Report, 1969.  
 50+-SJ (commercial fishing):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 50+-E (commercial fishing: Skagit  
   Bay): Wash. State Dep. Fish.,  
   Annual Report, 1969.  
 50+-B (commercial fishing: Nooksack  
   River to Sammamish Bay):  
   Wash. State Dep. Fish., Annual  
   Report, 1969.  
 50+-CS (commercial fishing: Rolling  
   Bay): Wash. State Dep. Fish.,  
   Annual Report, 1969.  
 50+-GS (commercial fishing: Point  
   Roberts): Wash. State Dep.  
   Fish., Annual Report, 1969.  
 50+-S (spawning grounds: Cedar River  
   and Issaquah Creek):  
   Atkinson, Rose, and Duncan, 1967.  
 50+-E (spawning grounds: two small  
   tributaries of the Skagit River):  
   Atkinson et al., 1967.  
 11-JF (West Beach): Idyll, 1951.  
 3-B (Lummi Island): Idyll, 1951.



*Oncorhynchus nerka*

Salmonidae

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1-E (Deception Pass): 170.  
1-S (west of Ballard Locks): 4820.  
1-S (Edmonds): 6324.  
1-CS (Wapato Canal, Tacoma): 15033.

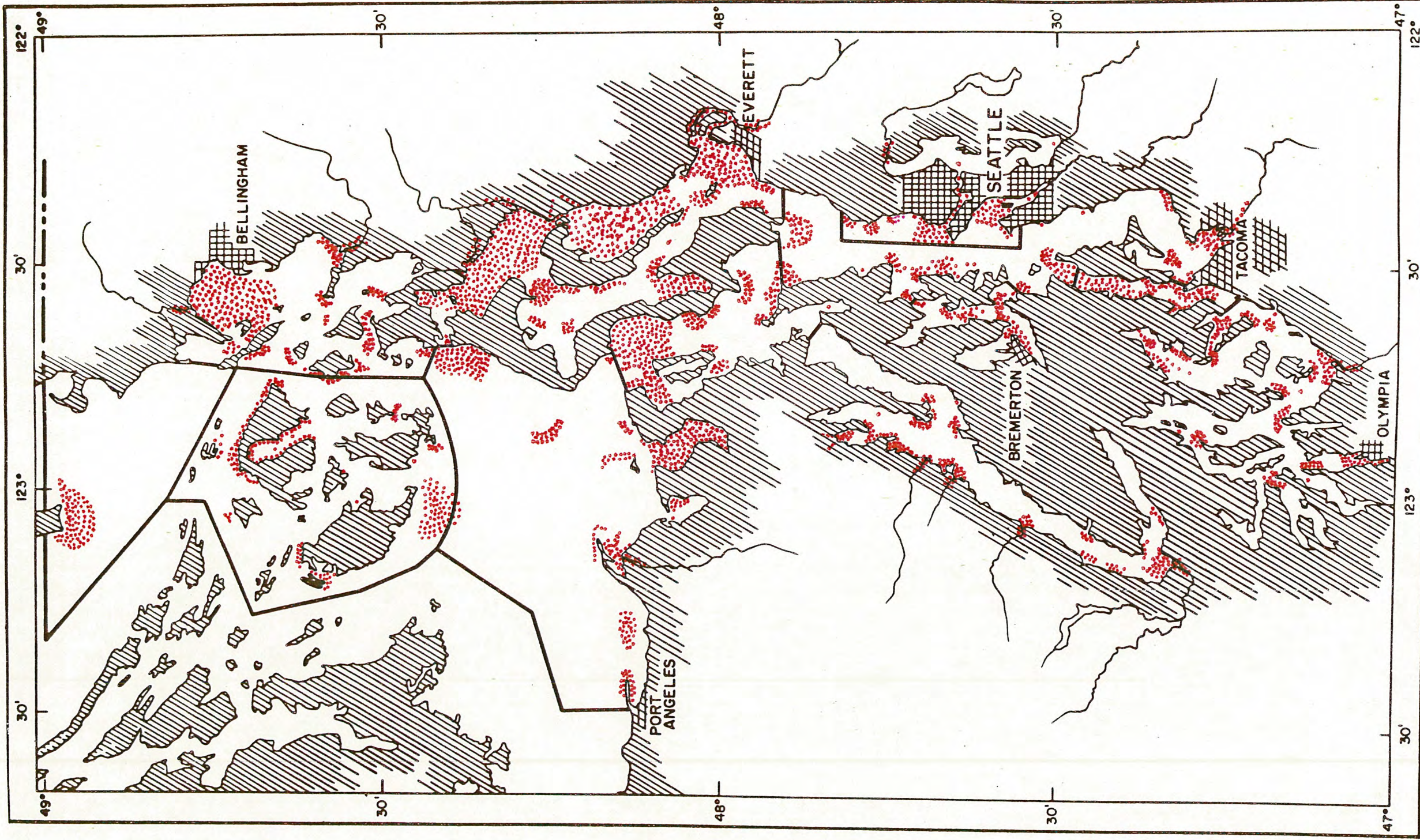
Friday Harbor Laboratory Log

1-SJ (Salmon Bank): 8/8/50-1.

Miscellaneous Logs

50+-S (entrance to ship canal,  
limited gillnet fishery):  
Steve Borton, personal  
communication, 1972.  
10+-SS (small run started:  
McAllister Creek): John Slipp,  
personal communication, 4/25/72.







*Oncorhynchus tshawytscha*

## Salmonidae

Published Records

- 1-SS (at Fort Steilacoom):  
Girard, 1857b; 1859.
- 1-PS: Jordan and Gilbert, 1881a,c.
- 1-CS (Puyallup River):  
Suckley, 1862a.
- 1-E (Skagit River): Suckley, 1862b.
- 1-S (Black River, Duwamish River):  
Suckley, 1874.
- 1-AI (Port Gamble): Suckley, 1874.
- 1-AI (Port Townsend):  
Suckley, 1874.
- 50+-GS (commercial: Point Roberts):  
Kelly, 1946.
- 50+-SJ (commercial fishing: south of  
San Juan Island): Kelly, 1946.
- 50+-JF (commercial fishing: west of  
Deception Pass.): Kelly, 1946.
- 50+-E (commercial fishing: Skagit  
Bay; Port Gardner): Kelly, 1946.
- 50+-AI (commercial fishing:  
Admiralty Bay): Kelly, 1946.
- 50+-CP (commercial fishing: north  
part of Colvos Pass.):  
Kelly, 1946.
- 50+-JF (commercial fishing area:  
Discovery Bay): Smoker, 1954.
- 50+-AI (commercial fishing areas:  
Admiralty Inlet; Point No Point):  
Smoker, 1954.
- 50+-E (commercial fishing areas:  
Port Gardner; Port Susan; Skagit  
River and Skagit Bay):  
Smoker, 1954.
- 50+-B (commercial fishing areas:  
Bellingham Bay and Nooksack  
River): Smoker, 1954.
- 50+-S (commercial fishing areas:  
Meadow Point): Smoker, 1954.
- 50+-CS (commercial fishing area:  
Rolling Bay; Indian fishing area:  
White-Puyallup River):  
Smoker, 1954.
- 50+-SS (Indian fishing area:  
Nisqually River): Smoker, 1954.
- 50+-HC (commercial fishing areas:  
Hood Canal; Skokomish River):  
Smoker, 1954.
- 50+-B (spawning grounds: Nooksack  
River): Smoker, 1954.
- 50+-E (spawning grounds: Skagit  
River): Smoker, 1954.
- 1-PS: Rathbun, 1900.
- 6-E (townt: Kiket Island to  
Strawberry Point):  
Stober and Salo, 1970b.
- 1-E (deep otter trawl: Skagit and  
Similk Bays):  
Stober and Salo, 1970b.
- 2-S (inner Elliott Bay; outer  
Elliott Bay): Salo, 1969.
- 1-S (Elliott Bay): Salo, 1969.
- 1-B (north part Bellingham Bay):  
Sjolseth, 1969.
- 9-S (Elliott Bay):  
Miller and Stauffer, 1967.
- 2-CS (east of Bainbridge Island):  
Miller and Stauffer, 1967.
- 1-CS (north of Bainbridge Island):  
Miller and Stauffer, 1967.
- 1-HC: Bayliff, 1953.
- 1-E (Everett): Bayliff, 1953.
- 1-B (Bellingham Bay):  
Bayliff, 1953.
- 50+-S (sport fishing areas: Ballard;  
Elliott Bay): Fitzgerald, 1953.
- 50+-E (sport catch: Camano; Holmes  
Harbor; Port Susan; Skagit Bay):  
Fitzgerald, 1953.
- 50+-HC (sport catch: north and south  
Hood Canal): Fitzgerald, 1953.
- 50+-AI (sport catch: Point No  
Point): Fitzgerald, 1953.
- 50+-CS (sport catch: Possession  
Point; Rolling Bay; Puyallup  
estuary): Fitzgerald, 1953.
- 50+-CP (sport catch: Point  
Defiance): Fitzgerald, 1953.
- 2-E (Port Gardner; Port Susan):  
Johnson, 1952.
- 1-SJ (Friday Harbor): Lloyd, 1936.
- 37-B (beach seine: north part of  
Bellingham Bay): Tyler, 1964.
- 42-B (townt: north of Eliza Island  
in Bellingham Bay): Tyler, 1964.
- 50+-SS (sport fishing areas: Dougall  
Point; north of Steamboat Island  
and Windy Point to Cape Cod;  
Cooper Point into Budd Inlet;  
Johnson Point; east of Devil's  
Head; Lyle Point and along  
Nisqually Delta; between McNeil  
and Anderson Islands; south of  
Toliva Shoal; Gibson Point to Fox  
Point; Wollochet Bay and  
northwest; Anetta through Green  
Point; off Kopachuck State Park;  
Cutts to Raft Island; off Minter  
Creek; north end of Henderson  
Bay): Haw and Buckley, 1971.
- 50+-HC (sport fishing areas: oppo-  
site Sister Point; northeast edge  
of Skokomish River Delta; Ayres  
Point; east side of Ahnas Bay;  
Hoodsport; Liliwaup; off Dewatto  
Bay; off Hamma Hamma Delta;  
inside and off of Pleasant  
Harbor; Misery Point; southeast  
edge to southwest side of Red  
Bluff; Quilcene Bay to north of  
Dosewallips River; Oak Head;  
Tskutsko Point to Zelatched  
Point; Hazel Point):  
Haw and Buckley, 1971.
- 50+-CP (sport fishing areas: Point  
Evans; Point Defiance; Point  
Dalco; Camp Sealh; Point Rich-  
mond): Haw and Buckley, 1971.
- 50+-PO (sport fishing areas:  
Bremerton; west end of Rich  
Pass; University Point; Battle  
Point; Agate Pass):  
Haw and Buckley, 1971.



*Oncorhynchus tshawytscha*

## Salmonidae

Published Records

- 50+-CS (sport fishing areas: Point Defiance; Point Dalco; south end of Quartermaster Harbor; Browns Point through Tacoma waterfront; Lakota through Poverty Bay; Allen Bank; Orchard Point to Manchester; Skiff Point; Point Monroe; Agate Pass; large area off Jefferson Point; large area south of Possession Point to Scatchet Head): Haw and Buckley, 1971.
- 50+-S (sport fishing areas: Harbor Island end of Elliott Bay; West Point to Golden Gardens; the trees; Point Wells; Edmonds): Haw and Buckley, 1971.
- 50+-E (sport fishing areas: Glendale to Columbia Beach; Mukilteo through Everett; north, south, and west of Gedney Island; off Mission Bar; Sandy Point; Pebble Beach and Coxes Spit; East Point to Hackney Island; Dines Point; south of Kayak Point; Onamac Point; Rocky Point and south; north of Snatelum Point; east of Forbes Point; Polnell Point; large area north of Rocky Point; west of Deception Pass bridge near Whidbey Island shore; east and west sides of Hope Island): Haw and Buckley, 1971.
- 50+-AI (sport fishing areas: Point No Point to Hansville; Skunk Bay; north of Foulweather Bluff; south of Double Bluff; Oak Bay; south of Bush Point; Liplip Point; north of Bush Point; Marrowstone Point; large area from Point Wilson through Port Townsend; Admiralty Head): Haw and Buckley, 1971.
- 50+-JF (sport fishing areas: Admiralty Head; Middle Point; Cape George; east edge of Dallas Bank; Diamond Point; Gardiner; Carr Point to Port Discovery or Mill Point; Adelma Beach and south; west side of Partridge Bank; Sequim Bay between Travis Spit and Hardwick Point; Dungeness Bay; outside Dungeness Spit; large area off Green Point; inside and outside of Ediz Hook; West Beach): Haw and Buckley, 1971.
- 50+-B (sport fishing areas: Langley Point to Sares Head; off Reef Point; Guemes Channel and March Point to Hat Island; Tide Point to Strawberry Bay; Jack Island; William Point; northwest of Sinclair Island; Lummi Rocks and north; Hale Pass): Haw and Buckley, 1971.
- 50+-SJ (sport fishing areas: Iceberg Point; Lopez Pass; shoreline of East Sound; Point Lawrence; shoreline of Orcas Island from Point Lawrence to south of Point Doughty; south shore of Skipjack Island; Mosquito Pass; Spieden Channel): Haw and Buckley, 1971.
- 50+-GS (sport fishing area: Point Roberts): Haw and Buckley, 1971.
- 50+-HC (Indian fishing: Skokomish River): Wash. State Dep. Fish., Annual Report, 1969.
- 50+-SS (Indian fishing: Nisqually River): Wash. State Dep. Fish., Annual Report, 1969.
- 50+-CS (Indian fishing: Puyallup River): Wash. State Dep. Fish., Annual Report, 1969.
- 50+-SS (spawning grounds: Deschutes River; Nisqually River): Atkinson, Rose, and Duncan, 1967.
- 50+-CS (spawning grounds: Puyallup River): Atkinson et al., 1967.
- 50+-S (spawning grounds: Green River; Cedar River; Issaquah Creek): Atkinson et al., 1967.
- 50+-HC (spawning grounds: Skokomish River; Hamma Hamma River; Duckabush River; Dosewallips River; Quilcene River; creek at head of Quilcene Bay): Atkinson et al., 1967.
- 50+-E (spawning grounds: Snohomish River system; Stillaguamish River; Skagit River): Atkinson et al., 1967.
- 50+-JF (spawning grounds: Dungeness River): Atkinson et al., 1967.
- 50+-B (spawning grounds: Samish River; Nooksack River): Atkinson et al., 1967.
- 2-E (sport fishing; north of Gedney Island): Fishing and Hunting News, July 29, 1972.
- 1-HC (fyke net: Big Beef Harbor): Anderson and Chew, 1972.

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- 1-SJ (Davis Bay): 609.
- 1-S (Golden Gardens): 774.
- 1-SJ (Squaw Bay): 2171.
- 1-CS (Fauntleroy Beach): 4197.
- 2-S (beach seine: Alki): 5229; 5231.
- 1-E (Saratoga Pass.): 5389.
- 1-PS: 5602.
- 1-SS (probably beach seine on mainland, Stretch Island): 6121.
- 1-S (Edmonds): 6147.
- 1-S (Ballard Locks): 6321.
- 1-SS (beach seine: 1 mile north of Minter Creek): 7563 (also boat 5126E).



*Oncorhynchus tshawytscha*

## Salmonidae

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- 1-AI (Point No Point): 8062.
- 1-CP (Point Defiance): 14990.
- 1-S (beach seine: Carkeek Park):  
14993.
- 1-S (off Ballard): 14999.
- 1-S (Golden Gardens):  
15799 (also boat 5710c).
- 1-CS (Possession Point): 15893.
- 1-S (Harbor Island, near Todds):  
5237.

Friday Harbor Laboratory Log

- 1-SJ (Salmon Banks): 8/8/50-1.
- 1-SJ (East Sound): 8/11/52.
- 1-SJ (mid East Sound): 6/5/64.

University of Washington Boat Log

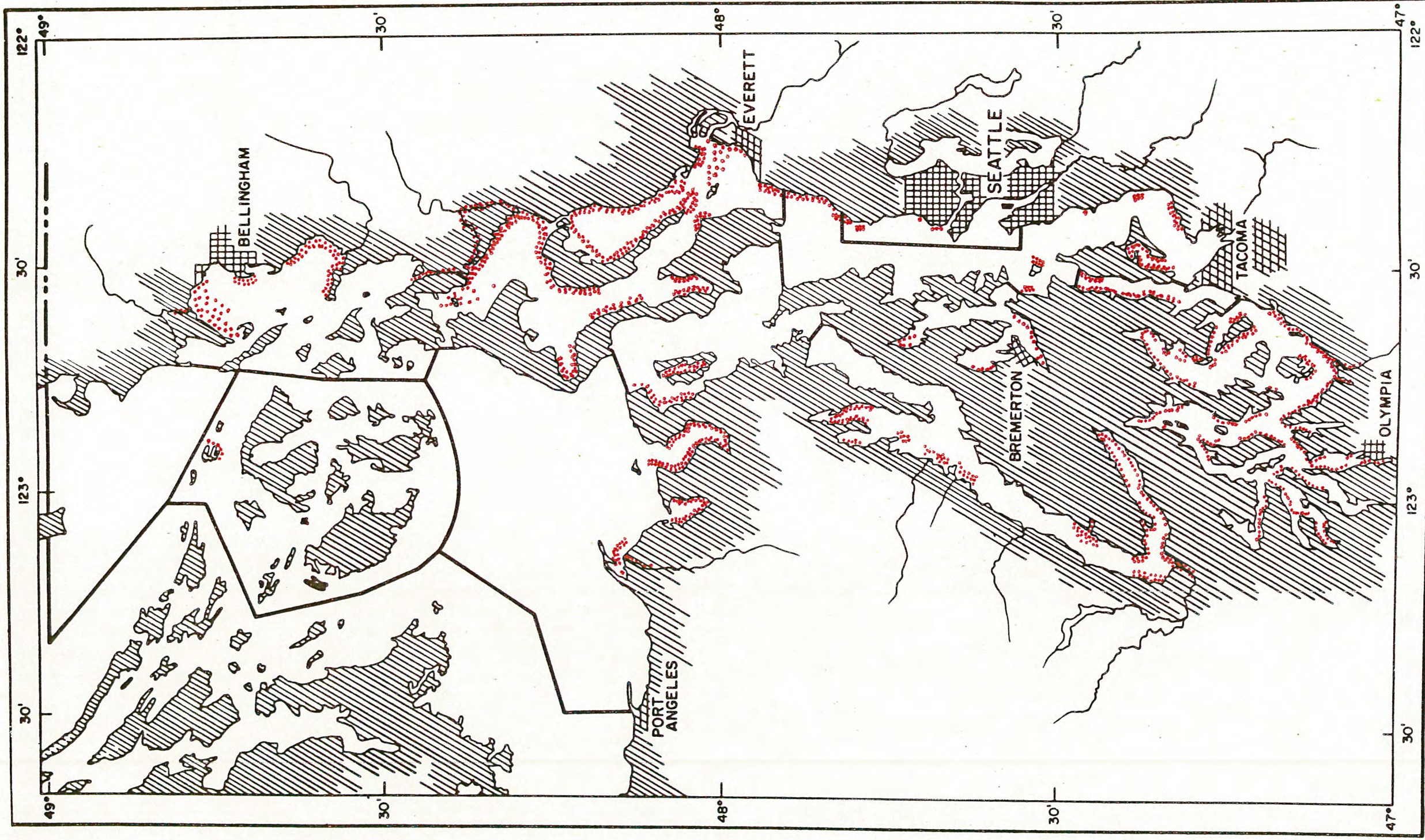
- 6-S (beach seine: Golden Gardens):  
5010D; 5116G2; 5415P; 5914A,B;  
5920L.
- 4-S (beach seine: Golden Gardens):  
3-6417; 6509.
- 1-S (Golden Gardens): 6511D.
- 1-SS (Nisqually Beach, off Treble  
Point): 5201D.
- 1-SS (Nisqually Reach): 5204F.
- 1-PO (off Fletcher Bay): 6201.
- 1-CS (Murden Cove): 6710B.
- 1-SS (Carr Inlet, mid Glen Cove to  
Green Point): 6724B.
- 3-B (training cruise area: southwest  
of Post Point):  
6603G; 7307G; 6914G.
- 1-HC (Dabob Bay): 7205N.
- 1-PO (Port Orchard): 6916D.
- 1-B (training cruise area: southwest  
of Post Point): 7017G.

Miscellaneous Logs

- 50+-JF (West Beach):  
WSDF, Sport Fish., 1965-70.
- 50+-E (Skagit and Similk Bays):  
WSDF, Sport Fish., 1965-70.
- 50+-E (Everett):  
WSDF, Sport Fish., 1965-70.
- 50+-AI (off Bush Point):  
WSDF, Sport Fish., 1965-70.
- 50+-S (Elliott Bay):  
WSDF, Sport Fish., 1965-70.
- 50+-SS: WSDF, Sport Fish., 1965-70.
- 50+-SJ: WSDF, Sport Fish., 1970.
- 50+-HC: WSDF, Sport Fish., 1970.
- 4-CS (herring trawl: Skiff Point to  
Point Jefferson):  
U.W. Ocean., 1968-69.
- 2-PO (herring trawl: south of  
Fletcher Bay):  
U.W. Ocean., 1968-69.
- 3-B (Bellingham Bay): Bill High,  
personal communication, 12/9/63.

- 5+-SJ (sport catch: Sucia Island):  
Allyn Johnson, personal  
communication, 1972.
- 1-SS (Carr Inlet): NMFS, Cobb-68.
- 1-PO (Narrows, south of Fletcher  
Bay): NMFS, Cobb-68.
- 2-SS (Carr Inlet): NMFS, Cobb-75.
- 1-SS (entrance to Eld Inlet):  
Van Cleve, trap, 1961-65.
- 2-JF (beach seine: Dungeness embay-  
ment): Peninsula College, 1971.
- 1-JF (Sequim Bay):  
Battelle, 1967-69.
- 1-CS (south of Possession Point):  
NMFS, Cobb, 2/28/73.
- 50+-CP (juveniles on side opposite  
the town of Gig Harbor):  
Ray Johnson, personal  
communication, 4/24/72.
- 2-S (Duwamish River estuary between  
1st and 16th Ave. S. bridges):  
NIH, 72010.
- 1-CS (beach seine: Seahurst Park):  
NIH, 72013.
- 2-JF (beach seine: West Beach):  
NIH, 72017.
- 1-S (beach seine: Golden Gardens):  
Sea Grant, 72023.
- 1-S (beach seine: north side of West  
Point): Sea Grant, 1973.
- 1-CS (in Appletree Cove): Sport  
Catch, Doug Olander, 1972-73.







*Salmo clarki*

## Salmonidae

Published Records

- 1-PS: Suckley, 1874.  
 1-AI (Port Townsend): Bean, 1884.  
 1-SS (Fort Steilacoom):  
     Girard, 1857<sup>b</sup>; 1859.  
 1-PS: Gunther, 1866.  
 1-PS:  
     Jordan and Gilbert, 1881<sup>c</sup>; 1882.  
 1-PS: Jordan and Jay, 1882.  
 1-PS: Schultz, 1935.  
 1-PS: Jordan and Starks, 1896.  
 1-PS: Fowler, 1912.  
 1-PS: Jordan, 1884.  
 1-CS: Jordan, 1885; 1887.  
 5-E (townet: between Kiket Island  
     and Strawberry Point):  
     Stober and Salo, 1970<sup>b</sup>.  
 6-B (Bellingham Bay, north of  
     Eliza): Tyler, 1964.  
 1-CS (beach seine: Dumas Bay):  
     1971<sup>b</sup>.  
 1-CS (beach seine: Seahurst County  
     Park): Miller 1971<sup>a</sup> (also boat  
     7113; and NIH, 71101).  
 1-E (sport catch: north of Gedney  
     Island): Fishing and Hunting  
     News, 7/29/72.  
 1-E (sport catch: Camano Island):  
     Fishing and Hunting News,  
     7/22/72.  
 50+-B (sport fishing areas: mouth of  
     Nooksack River; Post Point to  
     Chuckanut Bay; shoreline from  
     Wildcat Cove to William Point;  
     west slough of Swinomish  
     Channel): Wash. Marine Atlas,  
     Vol. 1, 1972.  
 50+-JF (sport fishing areas:  
     shorelines of Port Discovery and  
     Sequim Bay; mouth and delta of  
     Dungeness River):  
     Wash. Marine Atlas, Vol. 1, 1972.  
 50+-E (sport fishing areas:  
     shorelines of Fir and Ika  
     Islands; Swinomish Channel;  
     shoreline from Skagit River to  
     Onamac Point; shoreline of Penn  
     Cove; Race Lagoon to North Bluff;  
     Dines Point to Freeland; mid part  
     of east shore of Holmes Harbor;  
     Sandy Point; Mukilteo and south;  
     entire shoreline of Port Susan;  
     mouth of Stillaguamish River;  
     Mission Beach to Priest Point):  
     Wash. Marine Atlas, Vol. 1, 1972.  
 50+-AI (sport fishing areas:  
     shoreline of Port Townsend from  
     Point Hudson to Irondale;  
     shoreline of Kilisut Harbor):  
     Wash. Marine Atlas, Vol. 1, 1972.  
 50+-HC (sport fishing areas: east  
     and west shorelines of north end  
     of Dabob Bay; off Quilcene River  
     mouth; Wawa Point; Dosewallips  
     Flats to Pleasant Harbor; Quatsap  
     Point to McDaniel Cove north and  
     south of and in Dewatto Bay; west  
     shore of Annas Bay and north;  
     Skokomish River mouth through  
     Union; Musquetti Point through  
     Tahuya River mouth; Sister Point;  
     south shoreline of the Great Bend  
     and both shorelines of Lynch  
     Cove):  
     Wash. Marine Atlas, Vol. 2, 1972.  
 50+-CS (sport fishing areas: Mead-  
     owdale and north; north Edmonds;  
     Manchester; southeast shore of  
     Blake Island; Point Beals to  
     Point Heyer; shoreline of Quar-  
     termaster Harbor; off Des Moines;  
     Lakota through Dumas Bay):  
     Wash. Marine Atlas, Vol. 2, 1972.  
 50+-CP (sport fishing areas: Point  
     Peter through Sunset Beach):  
     Wash. Marine Atlas, Vol. 2, 1972.  
 50+-SS (sport fishing areas: north-  
     west along shoreline from Fox  
     Point; off southwest shore of Fox  
     Island; off Green Point; Cutts  
     Island; shoreline from south of  
     Glen Cove through both shores of  
     Henderson Bay; Steilacoom shore-  
     line; shoreline from Cormorant  
     Pass. through Nisqually and  
     McAllister estuaries; shoreline  
     from Nisqually Head to Henderson  
     Inlet; south shoreline of  
     Anderson Island; off Whiteman  
     Cove; east and south of Herron  
     Island; Victor to Rocky Bay to  
     north of Dutcher Bay; Jarrell  
     Cove around Dougall Point and  
     south; McMicken Island to Brisco  
     Point; west shore of entrance to  
     Henderson Inlet; Dickenson Point  
     to Dofflemeyer Point; off east  
     shore of entrance to Budd Inlet;  
     off Priest Point; head of Budd  
     Inlet; north half of west shore  
     of Budd Inlet; entrance to Eld  
     Inlet to Flapjack Point; Hunter  
     Point to Hope Island; along west  
     shore of Totten Inlet from Steam-  
     boat Island; both shores of  
     Oyster Bay; south shore of  
     Hammersley Inlet from Shelton to  
     past Skookum Point):  
     Wash. Marine Atlas, Vol. 2, 1972.  
 50+-S (sport fishing areas: Edmonds;  
     off south of Edwards Point):  
     Wash. Marine Atlas, Vol. 2, 1972.  
 50+-E (sport fishing areas: shores  
     of Port Susan and Skagit Bay  
     especially between Tulalip Bay  
     and Kayak Point and the north  
     shore of Camano Island; Mukilteo  
     and south; south fork of the  
     Skagit; Bald, Ika, Goat, and Hope  
     Islands; the Swinomish Channel):  
     Haw and Buckley, 1971.



*Salmo clarki*

## Salmonidae

Published Records

- 50+-HC (sport fishing areas: upper Dabob Bay; lower Hood Canal near the mouths of the larger creeks): Haw and Buckley, 1971.
- 50+-CS (sport fishing areas: points and creek mouths between Edmonds and Mukilteo): Haw and Buckley, 1971.
- 50+-S (sport fishing areas: Edmonds): Haw and Buckley, 1971.
- 50+-CP (sport fishing areas: west side of the pass): Haw and Buckley, 1971.
- 50+-SS (sport fishing areas: north side of Hale Pass; Horsehead Bay; west shore of the Long Branch Peninsula; southeast shore of Hartstene Island; and other inlets): Haw and Buckley, 1971.

University of Washington  
Museum Collection

- 1-JF (above Snow Creek bridge at Discovery Bay): 17541.

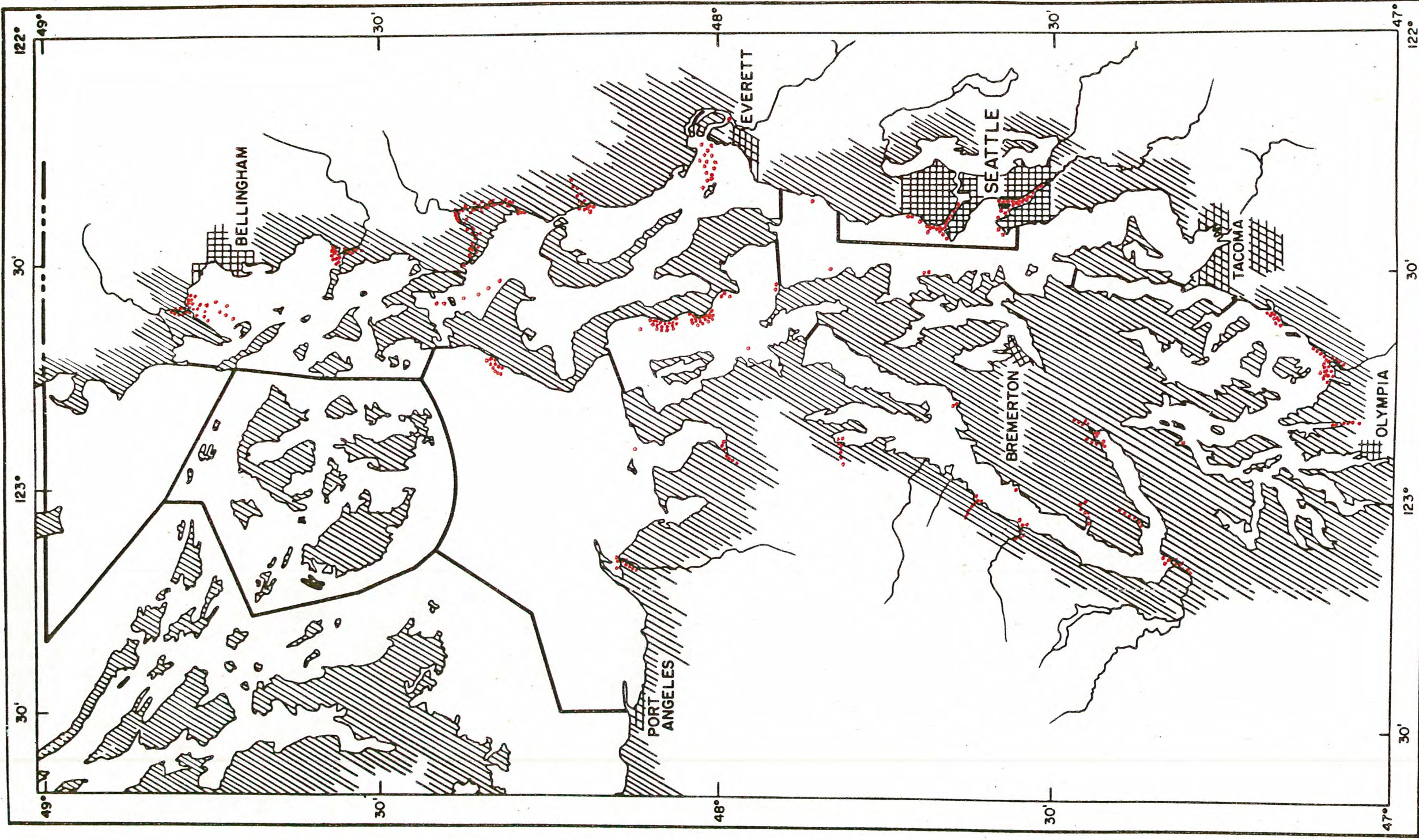
University of Washington Boat Log

- 3-S (beach seine: Golden Gardens): 5215A; 5610G; 5920J.
- 1-S (beach seine: Carkeek Park): 5808A.

Miscellaneous Logs

- 10+-E (Gedney Island to Everett): R. Tyler, personal communication, 6/3/63.
- 10+-E (sport fish.: Holmes Harbor): Frank Haw, personal communication, 6/4/63.
- 10+-PO (sport fish.: Frank Haw, personal communication, 6/4/63.
- 8-B (Bellingham Bay, north of Eliza Island): R. Tyler, 1964.
- 19-B (Bellingham Bay, north of Eliza Island): FRI, R. Tyler, data sheets, 1965.
- 1-E (Skagit or Similk Bay): WSDF, Sport Fish., 1965-70.
- 7-E (Everett): WSDF, Sport Fish., 1965-70.
- 2-SS: WSDF, Sport Fish., 1965-70.
- 2-HC: WSDF, Sport Fish., 1965-70.
- 5+-SJ (Sucia Island): Allyn Johnson, personal communication, 1972.
- 1-JF (Dungeness embayment): Peninsula College, 1971.
- 1-JF (Sequim Bay): Battelle, 1967-69.
- 1+-SS (sport catch: Reach Island bridge): Steve Borton, personal communication, 8/6/73.
- 1-CS (beach seine: Meadowdale at Lunds Gulch): Sea Grant, 73002.







*Salmo gairdneri*

## Salmonidae

Published Records

- 1-PS:  
 Jordan and Gilbert, 1881c; 1882.  
 1-PS: Jordan and Starks, 1896.  
 1-PS: Evermann and Meek, 1898.  
 1-PS: Kincaid, 1919.  
 1-PS: Cobb, 1930.  
 1-PS: Schultz and Hanson, 1935.  
 1-HC (Holly):  
 Schultz and DeLacy, 1935-36.  
 1-SS (Fort Steilacoom):  
 Suckley, 1874.  
 1-PS: Starks, 1911.  
 50+-B (sport fishing areas: Nooksack River mouth; Samish River mouth):  
 Wash. Marine Atlas, Vol. 1, 1972.  
 50+-JF (sport fishing areas:  
 Dungeness River mouth; head of Port Discovery; area south of West Beach):  
 Wash. Marine Atlas, Vol. 1, 1972.  
 50+-E (sport fishing areas: north and south forks of Skagit River mouth; mouth of Stillaguamish River):  
 Wash. Marine Atlas, Vol. 1, 1972.  
 50+-AI (sport fishing areas: Bush Point; Lagoon Point):  
 Wash. Marine Atlas, Vol. 1, 1972.  
 50+-HC (sport fishing areas: mouths of the Quilcene River, Hamma Hamma River, Skokomish River, Tahuya River, and Union River; creek near Belfair State Park; creek at Dewatto Bay; and creek at Triton Cove):  
 Wash. Marine Atlas, Vol. 2, 1972.  
 50+-S (sport fishing areas: Lake Washington ship canal from Ballard to Lake Union; Duwamish River estuary):  
 Wash. Marine Atlas, Vol. 2, 1972.  
 50+-SS (sport fishing areas: Steilacoom shoreline; off Nisqually Flats; head of Henderson Inlet):  
 Wash. Marine Atlas, Vol. 2, 1972.  
 6-E (towntnet: Kiket Island to Strawberry Point):  
 Stober and Salo, 1970b.  
 4-B (beach seine: Bellingham Bay north of Eliza Island):  
 Tyler, 1964.  
 5-B (towntnet: Bellingham Bay north of Eliza Island): Tyler, 1964.  
 50+-AI (sport fishing areas: beach at Bush Point and Lagoon Point):  
 Haw and Buckley, 1971.  
 1-JF (purse seine test fishery: between Protection Island and Middle Point): Wash. State Dep. Fish., Annual Report, 1969.  
 3-AI (purse seine test fishery: Bush Point to Admiralty Bay: Oak Bay to Hood Head; north side of Point No Point): Wash. State Dep. Fish., Annual Report, 1969.

- 1-CS (purse seine test fishery: Pilot Point to President Point):  
 Wash. State Dep. Fish., Annual Report, 1969.  
 2-HC (fyke net: in Big Beef Harbor):  
 Anderson and Chew, 1972.

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Museum Collection

- 1-AI (Point No Point): 8107.  
 1-E (Snohomish-Skykomish River; Haskel Slough): 15060.  
 1-CS (Norma Beach): 15894.

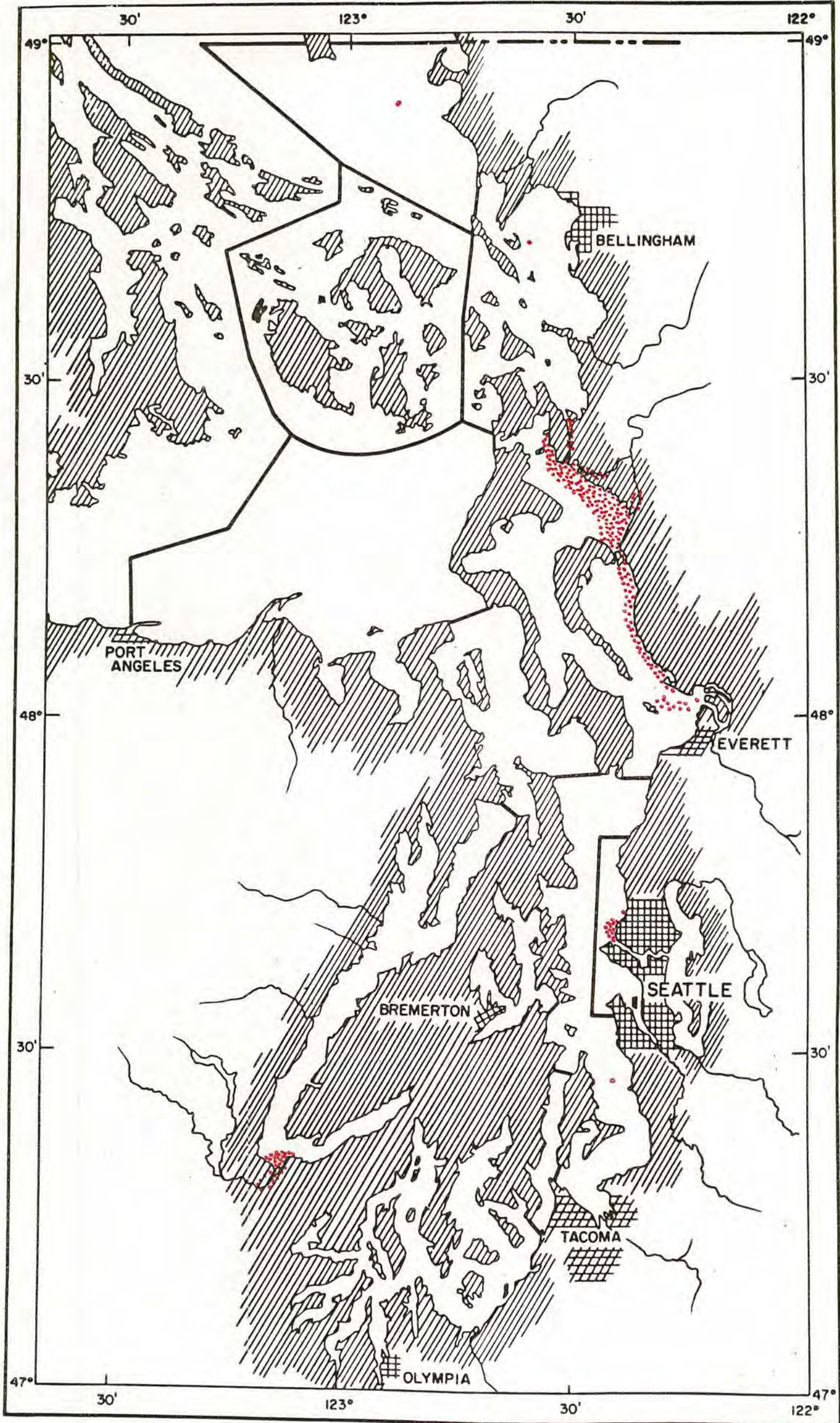
University of Washington Boat Log

- 5-S (beach seine: Golden Gardens):  
 5424A; 5610H,K; 6310; 6511C.  
 2-S (beach seine: Carkeek Park):  
 5311A; 5313C.  
 2-CS (beach seine: south of Fay Bainbridge State Park): 5806A,B.  
 1-S (beach seine: Alki Point to Duwamish Head): 6619.

Miscellaneous Logs

- 10+-E (area east of Gedney Island):  
 R. Tyler, personal communication, 6/3/63.  
 1-S (Golden Gardens to Carkeek):  
 NIH, 1968-71.  
 1-S (beach seine: north side of West Point): Sea Grant, 1973.  
 1-SS (bridge at McLane Cove):  
 Larry Moulton, personal communication, 3/14/73.  
 50+-S (Indian fishing: 1st Ave. S. bridge of the Duwamish estuary):  
 Steve Borton, personal communication, 3/74.  
 1+-AI (Mutiny Bay): local resident, personal communication, 6/12/72.







*Salvelinus malma*

## Salmonidae

Published Records

- 1-CS: Jordan, 1887.  
 1-PS: Suckley, 1874.  
 1-PS:  
     Jordan and Gilbert, 1881c; 1882.  
 1-PS: Jordan and Jouy, 1882.  
 1-PS: Jordan and Starks, 1896.  
 1-PS: Jordan, 1884.  
 1-E (Skagit Flats): Lord, 1866.  
 1-PS: Kinciad, 1919.  
 1-B (townt: Bellingham Bay north of  
     Eliza Island): Tyler, 1964.  
 50+-E (sport fishing areas:  
     shoreline north of Tulalip;  
     Skagit Bay; lower estuaries of  
     the Skagit River around Bald,  
     Ika, and Goat Islands; Swinomish  
     Channel beaches near Hope  
     Island): Haw and Buckley, 1971.  
 10+-HC (sport fishing area:  
     Skokomish River estuary):  
     Haw and Buckley, 1971.  
 1-E (Camano Island):  
     Sport Catch; Fishing and Hunting  
     News, 7/22/72.

University of Washington  
Museum Collection

- 1-S (Seattle): 710.  
 1-S (Golden Gardens): 5652.

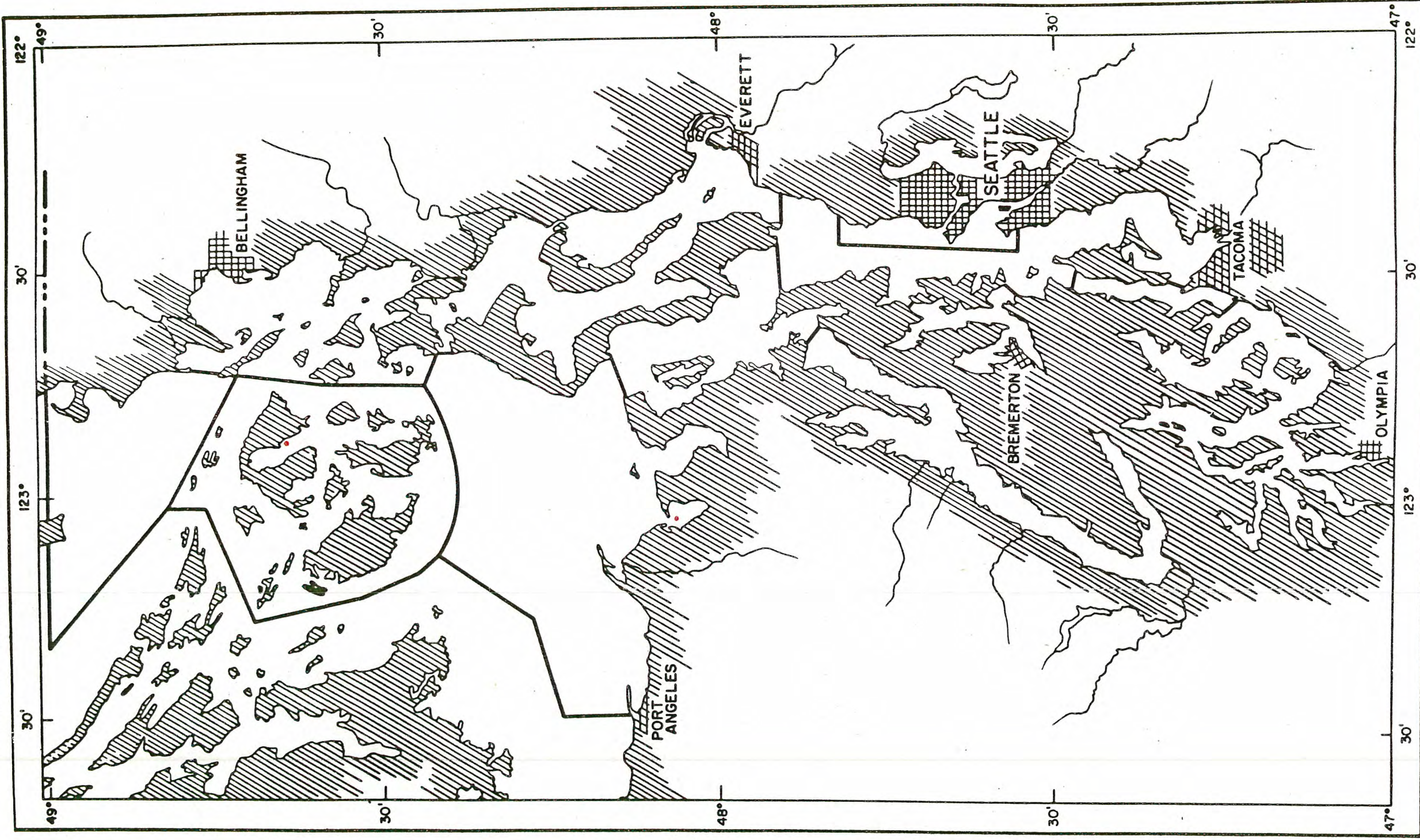
University of Washington Boat Log

- 16-S (beach seine: Golden Gardens):  
     5415B; 5610F,I,J; 5710C; 5920N;  
     6014; 6309B,I,J,K,L; 6310M,P,R;  
     6511A.  
 1-S (beach seine: Carkeek Park):  
     5808A.

Miscellaneous Logs

- 10+-E (area east of Gedney Island):  
     R. Tyler, personal communication,  
     6/3/63.  
 10+-JF (sport fishing area):  
     Frank Haw, personal  
     communication, 6/4/63.







*Allosmerus elongatus*

Osmeridae

Published Records

1-JF (Sequim Bay):

Smith, 1936 (also Museum 3930).

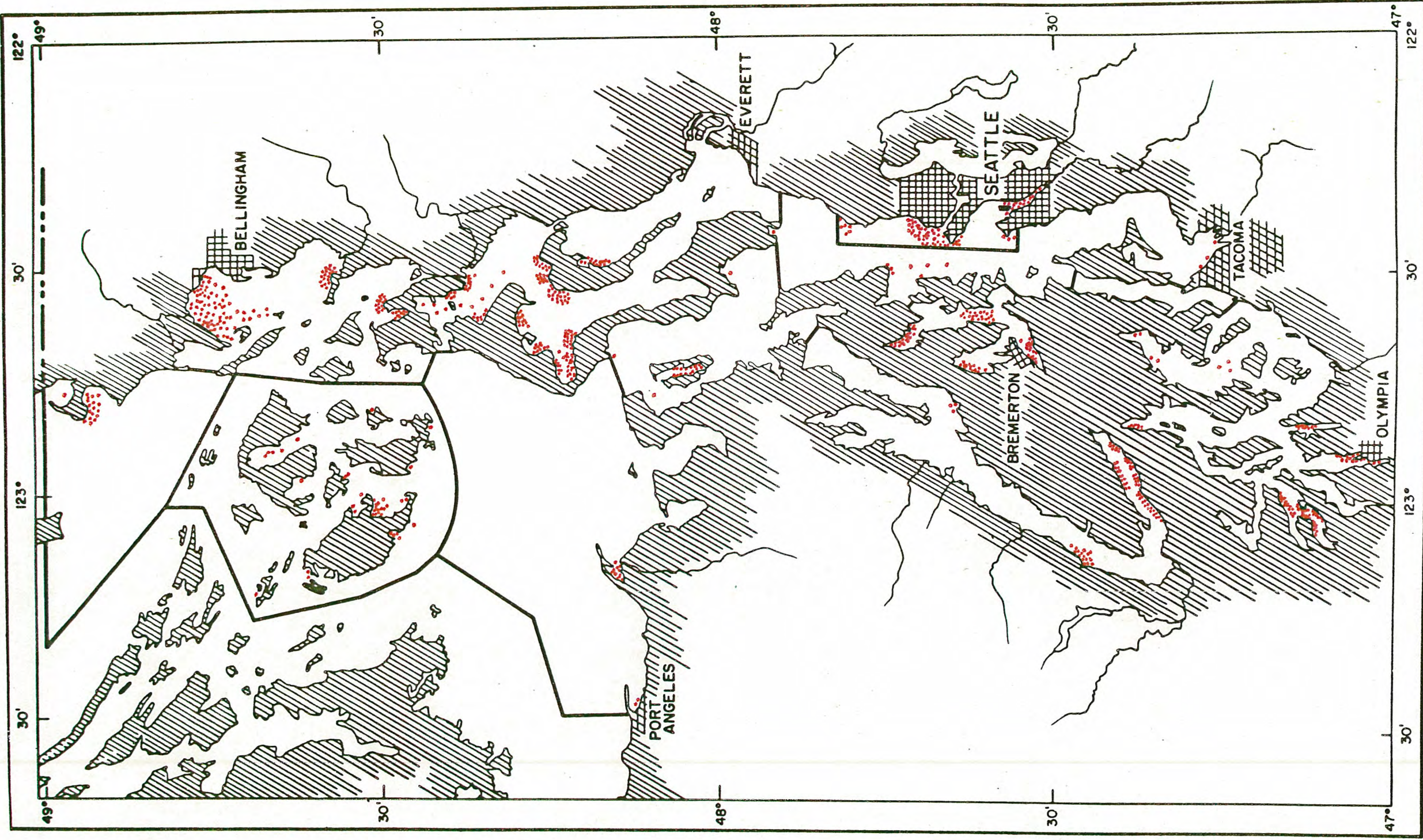
1-SJ: Shelford, 1935.

University of Washington

Museum Collection1-SJ (East Sound): 19459 (also

Friday Harbor Log, 7/26/60-D).







*Hypomesus pretiosus*

## Osmeridae

Published Records

- 1-AI (Port Townsend): Bean, 1884.  
 1-PS: Jordan, 1887.  
 1-JF (beach seine: Port Angeles): Gilbert, 1895.  
 1-SJ: Starks, 1911.  
 50+-E (spawning grounds: Penn Cove; Utsalady): Kelly, 1946.  
 2-AI (Kilisut Harbor; Admiralty Head): Evermann and Goldsborough 1907.  
 1-SJ: Shelford, 1935.  
 6-E (towntnet: Kiket Island to Strawberry Point): Stober and Salo, 1970b.  
 2-E (otter trawl: Skagit and Similk Bays): Stober and Salo, 1970b.  
 1-E (beach seine: Kiket Island): Stober and Salo, 1970a.  
 4-HC (spawning ground: near Hoodsport): Leong, 1967.  
 3-E (spawning ground: Utsalady): Leong, 1967.  
 50+-B (spawning grounds: Samish Island; Bellingham): Yap-Chiongco, 1941.  
 50+-E (spawning grounds: Goat Island; Douglas Bay; Crescent Harbor; Oak Harbor; Penn Cove; Utsalady; Triangle Bay): Yap-Chiongco, 1941.  
 50+-AI (spawning ground: Kilisut Harbor): Yap-Chiongco, 1941.  
 50+-PO (spawning grounds: Dyes Inlet; Port Orchard City): Yap-Chiongco, 1941.  
 50+-HC (spawning grounds: south of tip of Hood Canal; Happy Hollow): Yap-Chiongco, 1941.  
 50+-SS (spawning grounds: Kamilche; Olympia): Yap-Chiongco, 1941.  
 50+-HC (spawning ground: Lilliwaup): Kilambi, 1965.  
 50+-E (spawning ground: Utsalady): Kilambi, 1965.  
 3-CS (beach seine: south side of Point Jefferson): Kendall, 1966.  
 3-HC (fyke net: in Big Beef Harbor): Anderson and Chew, 1972.  
 31-B (beach seine; Bellingham Bay north of Eliza Island): Tyler, 1964.  
 21-B (towntnet: Bellingham Bay north of Eliza Island): Tyler, 1964.  
 50+-GS (spawning ground: north shore of Birch Bay): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-B (spawning grounds: shore near west Bellingham City limits; part of south shore of Samish Bay; March Point; part of both sides of Fidalgo Bay): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-JF (spawning ground: south shore of Dungeness embayment): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-E (spawning grounds: Hunot Point; part of north shore of Crescent Harbor; part of west shore of Oak Harbor; Juan de Fuca; Lovejoy Point to Long Point; Rodena Beach; west of Coupeville; shorelines between Goat Island and Fidalgo Island; Madrona Beach to Rocky Point; Maple Grove Beach to Utsalady Point; Utsalady; part of shoreline south of Triangle Cove): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-AI (spawning grounds: part of Kilisut Harbor south of Mystery Bay): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-HC (spawning grounds: Lilliwaup Bay; most of south shore from the Great Bend to Lynch Cove and most of the north opposite shore): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-PO (spawning grounds: east shore of Liberty Bay; Silverdale shoreline; head of Sinclair Inlet): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-SS (spawning grounds: part of east shore of Henderson Inlet; west shore of Totten Inlet from Windy Point to Oyster Bay and part of opposite shore; Allyn shoreline): Wash. Marine Atlas, Vol. 1, 1972.  
 50+-E (spawning grounds: Utsalady Beach; Cavalero's Beach; Penn Cove; Oak Harbor; Goat Island; Dugula Bay): Schaefer, 1936.  
 50+-B (spawning grounds: Bellingham; Anacortes; Samish Island): Schaefer, 1936.  
 50+-AI (spawning grounds: Kilisut Harbor): Schaefer, 1936.  
 50+-HC (spawning grounds: north and south shores): Schaefer, 1936.  
 50+-JF (spawning grounds: Dungeness): Schaefer, 1936.  
 50+-SS (spawning grounds: Kamilche on Totten Inlet; Henderson Inlet; Case Inlet): Schaefer, 1936.  
 50+-PO (spawning grounds: Dye Inlet; Sinclair Inlet; Liberty Bay): Schaefer, 1936.  
 PS: Kilambi et al. 1965; Kilambi, 1967 (duplicated by other records).

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Museum Collection

- 1-S (West Seattle): 181.  
 1-SS (Olympia): 431.  
 2-SJ (Squaw Bay): 558; 2348.  
 1-SJ (Davis Bay): 604.  
 2-SJ (East Sound): 697; 744.  
 3-SJ (False Bay): 1124; 1171; 2984.



*Hypomesus pretiosus*

## Osmeridae

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2-S (Alki Point): 1917; 4894.  
 1-SJ: 2347.  
 1-PS: 2893.  
 1-SJ (Roche Harbor): 2989.  
 6-S (Edmonds Beach): 4479; 4912;  
 5443; 5477; 5498; 14989.  
 1-SS (Kamilche Point on Totten  
 Inlet): 5081.  
 6-E (Utsalady Beach): 5100; 5101;  
 5102; 5103; 5104; 14970.  
 2-SS (Purdy): 5106; 8383.  
 1-HC (Happy Hollow): 5108.  
 1-B (Anacortes, March Point): 5109.  
 1-B (Samish Island): 5110.  
 1-PS (Whidbey Island): 5111.  
 1-CS (mouth of Puyallup River):  
 6107.  
 2-S (Golden Gardens):  
 5770 (also boat 5001); 17128.  
 1-AI (Useless Bay): 6331.  
 1-PO (Bremerton): 8380.  
 1-PO (Port Orchard): 8381.  
 1-CS (Tacoma): 11764.  
 1-CS (Tacoma smelter): 4667.  
 1-E (Penn Cove): 8384.  
 1-SS (beach seine: 1 mile north of  
 Minter Creek):  
 14455 (also boat 5126E).  
 1-PO (Chico): 17849.  
 1-S (Seattle): 712.  
 1-GS (Blaine, Semiahmoo Bay): 815.  
 1-GS (Birch Bay): 5107.  
 1-S (Carkeek Park): 5565.  
 2-S (beach seine: Carkeek Park):  
 14986; 14987.  
 1-CS (beach seine: Cultus Bay):  
 14988.  
 1-E (Steamboat Slough; Snohomish  
 River): 1623.  
 1-E (Coupeville): 17829.

Friday Harbor Laboratory Log

1-SJ (Jackles Lagoon, Cattle Point):  
 6/29/51.  
 1-SJ (off Fish Creek, Cattle Point):  
 6/21/52-1.  
 1-SJ (Roche Harbor): 8/19/52.  
 10-SJ (Argyle Bay):  
 8/16/55-2; 7/5/60; 8/11/60-2,3,4;  
 6/22/61; 7/8/67; 7/12/61-1;  
 7/18/61-2; 7/15/63.  
 1-SJ (Prevost Harbor): 7/10/50-4.  
 1-SJ (Eagle Point): 7/13/50-3.  
 1-SJ (West Decatur Head):  
 7/24/50-1.  
 2-SJ (Friday Harbor Lab):  
 7/19/60; 8/4/61-2.  
 2-SJ (Argyle Lagoon):  
 8/11/60-1; 7/10/69-3.  
 1-SJ (White Beach): 8/16/60-4.  
 2-SJ (North Bay): 8/18/60-1,2.  
 1-SJ (McArdle Bay): 8/22/60-3.  
 1-SJ (False Bay): 6/29/61.  
 1-SJ (Turn Island): 7/30/61.

1-SJ (San Juan Island): 5/62.  
 1-SJ (Squaw Bay or West Sound):  
 6/30/67.  
 1-SJ (Argyle Lagoon): 7/9/73.

University of Washington Boat Log

3-SJ (training cruise area: East  
 Sound; north of Rosario Point):  
 6603H; 6614H; 7118H.  
 2-E (beach seine: Good Beach; Penn  
 Cove): 5316F,G.  
 1-E (Penn Cove): 5420G.  
 27-S (beach seine: Golden Gardens):  
 5012C; 5047A,C; 5108B; 5114A;  
 5116G2; 5134A; 5137A,B; 5209D;  
 5329E; 5407; 5411A,B; 5508C;  
 5510A; 5514C; 5804B; 5807C;  
 5-6309; 6509; 6518A,B.  
 2-S (beach seine: Carkeek Park):  
 5313B; 5225B.  
 1-SS (off Minter Creek to Elgin):  
 5102M.  
 1-CS (beach seine: Fay Bainbridge  
 State Park): 5806A.  
 1-PO (beach seine: 1 mile north of  
 Illahee Dock): 6205A1.  
 1-PO (probably off Fletcher Bay):  
 7313X.

Miscellaneous Logs

5-B (Bellingham Bay): Bill High,  
 personal communication, 12/9/63  
 (Cobb pelagic trawl).  
 10+-S (beach seine: Duwamish  
 estuary): Metro, 1963-70.  
 9-S (trawl: Duwamish estuary):  
 Metro, 1966-70.  
 4-PO (Narrows, just south of  
 Fletcher Bay):  
 U.W. Ocean., P.O., 1964-65.  
 15-S (Golden Gardens):  
 U.W. Ocean., Hoh, 1963-67.  
 1-E (Utsalady, east of Rocky Point):  
 U.W. Ocean., Hoh, 1963-67.  
 1-CS (off Skiff Point):  
 U.W. Ocean., Commando, 1968.  
 2-CS (Skiff Point to Point  
 Jefferson): U.W. Ocean., herring  
 trawl, 1968-69.  
 3-SS (mouth of Carr Inlet): U.W.  
 Ocean., herring trawl, 1968-69.  
 14-PO (south of Fletcher Bay): U.W.  
 Ocean., herring trawl, 1968-69.  
 4-JF (Dungeness embayment):  
 Peninsula College, 1971.  
 1-JF (Port Angeles embayment):  
 Peninsula College, 1971.  
 1-B (beach seine: Wildcat Cove  
 launch ramp): Sea Grant, 72029.  
 5-S (beach seine: north side of West  
 Point): Sea Grant, 1973.  
 4-S (beach seine: south side of West  
 Point): Sea Grant, 1973.



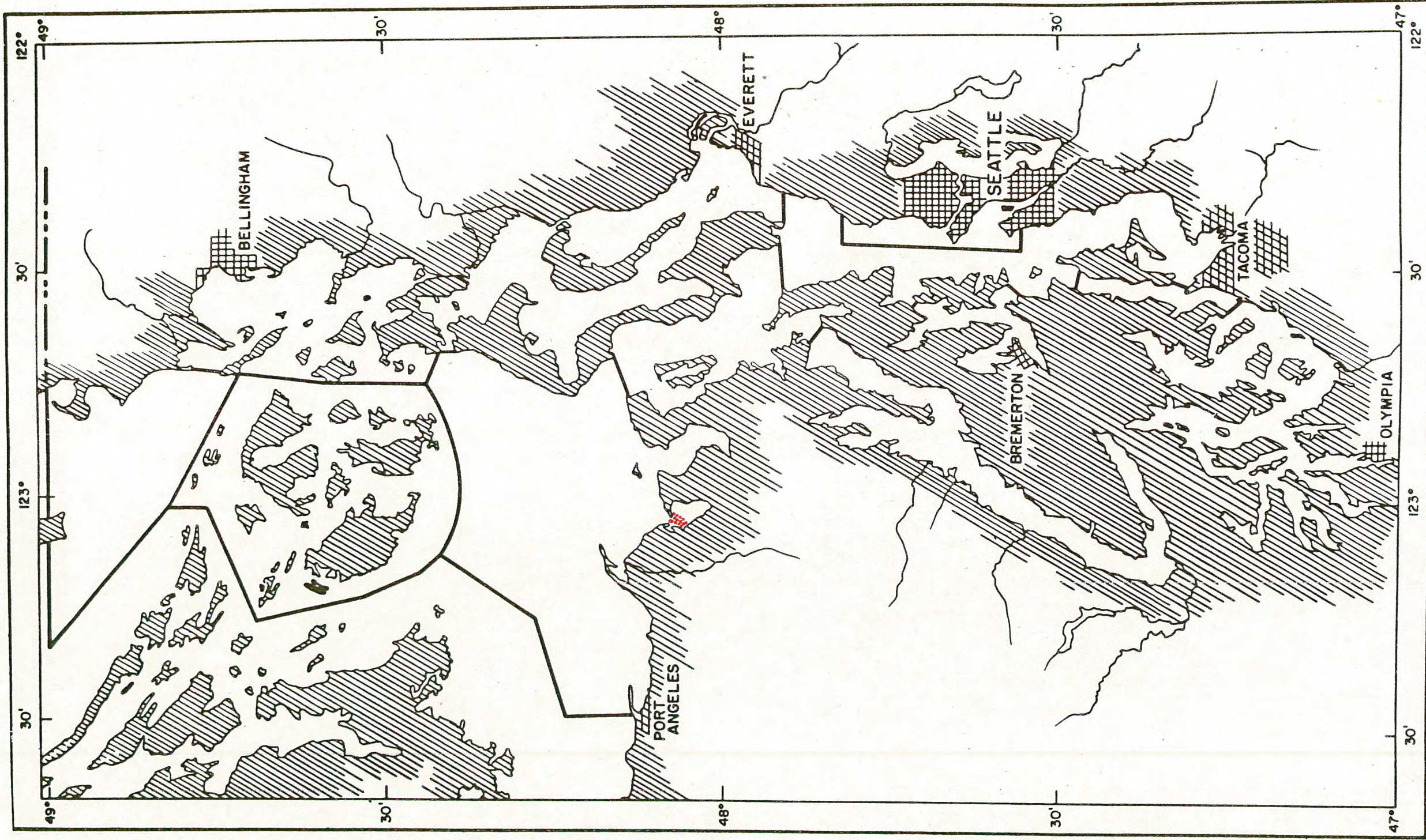
*Hypomesus pretiosus*

Osmeridae

Miscellaneous Logs

3-S (Golden Gardens to Carkeek  
Park): NIH, 1968-71.  
1-P0 (off Fletcher Bay):  
Van Cleve, trap, 1961-65.







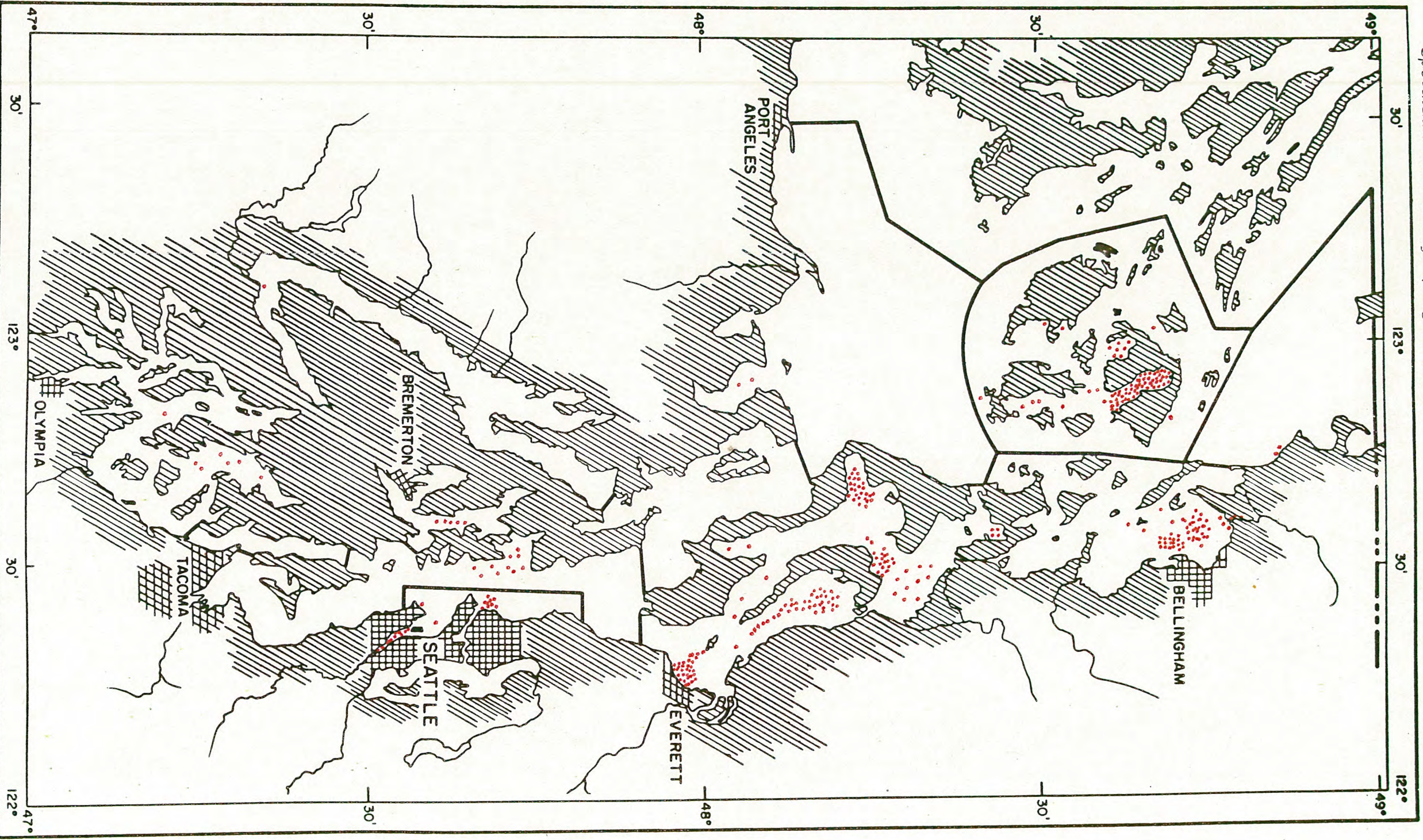
*Mallotus villosus*

Osmeridae

Miscellaneous Logs

50+-SJ (spawning ground: west side  
of mouth of Sequim Bay):  
Battelle, 1967-69.







*Spirinchus thaleichthys*

## Osmeridae

Published Records

- 5-B (Bellingham Bay):  
 Smith, 1936 (also Museum 4536).  
 1-E (Coupeville): Smith, 1936.  
 1-JF (Port Discovery):  
 Smith, 1936 (also Museum 3870).  
 1-SJ: Shelford, 1935.  
 1-SJ (East Sound): Smith, 1937.  
 1-E (Saratoga Pass.):  
 Schultz and Chapman, 1934.  
 1-B (mouth of Nooksack River):  
 Schultz and Chapman, 1934.  
 4-E (Similk Bay):  
 Stober and Salo, 1970a.  
 1-E (Skagit and Similk Bays):  
 Stober and Salo, 1970a.  
 1-E (Port Gardner): Salo, 1969.  
 9-E (Skagit Bay): Salo, 1969.  
 1-SJ: MacPhee and Clemens, 1962.

University of Washington  
Museum Collection

- 1-SJ (Friday Harbor): 398.  
 3-B (Nooksack River):  
 2336; 2525; 2986.  
 2-B (Nooksack River mouth):  
 2337; 2341.  
 1-E (1 mile west of Utsalady):  
 2338.  
 5-SJ (East Sound):  
 2339; 14976 (also Friday Harbor  
 Log, 8/11/52); 6031; 17073 (also  
 Friday Harbor Log, 6/20/63;  
 17125).  
 1-E (Sandy Point, Saratoga Pass.):  
 2670.  
 1-SJ (West Sound): 2340.  
 1-E (Port Susan): 2934.  
 2-E (off Everett): 3690; 4542.  
 1-E (Utsalady Beach): 3766.  
 1-JF (Discovery Bay): 3870.  
 1-E (Coupeville): 3909.  
 1-B (Bellingham Bay): 4534.  
 1-PO (off Fletcher Bay): 14696.  
 1-B (Marietta Flats, Bellingham  
 Bay): 14983.  
 1-SJ (north end of East Sound):  
 5757 (also boat 491M).  
 1-B (east of Point Frances):  
 5790 (also boat 491J).  
 1-E (off Mission Bar):  
 5877 (also boat 5023E).  
 1-E (off Warm Beach):  
 5885 (also boat 5023A).  
 1-SJ (west side of Orcas Island):  
 15994.  
 1-S (Golden Gardens): 16035.  
 3-SJ (East Sound, south of Rosario  
 Point): 19461; 19582; 19583 (all  
also NIH, 1964-66).

Friday Harbor Laboratory Log

- 1-SJ (off Orcas Island opposite  
 Barnes Island): 6/20/50-3.

- 1-SJ (south of Orcas Island):  
 6/24/52-1-3.  
 2-SJ (Lopez Sound and East Sound):  
 7/1/52; 7/11/63.  
 5-SJ (West Sound): 7/9/52-3 (also  
 boat 5220I); 7/26/60-2; 6/26/61;  
 6/20/69-2; 7/6/71-2.  
 1-B (Bellingham Bay): 6/22/55.  
 1-B (south of Eliza Island):  
 8/8/55-1.  
 1-B (off Inati Bay): 8/8/55-2.  
 7-SJ (East Sound): 7/6/60-2;  
 7/26/60-1; 8/13/60-1; 6/20/61;  
 7/8/63; 6/29/71-1; 7/6/71-1.  
 1-SJ (East or West Sound): 7/25/55.  
 2-SJ (Lopez Sound):  
 7/28/55-1; 6/16/61.  
 2-SJ (lower East Sound):  
 8/11/55-3; 6/26/73-1.  
 1-SJ (West Sound and Lopez Sound):  
 6/27/60.  
 2-SJ (Upright Head to Olga):  
 8/1/60-2; 7/10/61-2.  
 1-SJ: 5/62.  
 1-SJ (south of Lopez Island):  
 6/27/63-A.  
 6-SJ (mid East Sound):  
 1/17/64; 2/21/64; 4/3/64;  
 6/5/64; 7/11/64; 6/20/69-1.

University of Washington Boat Log

- 14-SJ (training cruise area: East  
 Sound, north of Rosario Point):  
 6603H; 6614H; 6620H; 6717H;  
 6722H; 6815H; 6819H; 6908H;  
 7118H; 7307H; 7010H; 7017H;  
 7110H; 7313H.  
 1-SJ (training cruise area: Lopez  
 Sound, southwest of Center  
 Island): 7307I.  
 18-B (training cruise area:  
 southwest of Post Point):  
 6512G; 6603G; 6614G; 6620G;  
 6630G; 6717G; 6722G; 6815G;  
 6819G; 6822G; 6826G; 6908G;  
 7118G; 7307G; 6914G; 7017G;  
 7017G.1; 7110G.  
 1-E (off Warm Beach): 5023B.  
 3-E (Penn Cove mouth, off Long Point  
 to off Snatelum Point):  
 5213A; 5220E; 7213E.  
 2-E (off Coupeville to off Lovejoy  
 Point): 5213B,C.  
 2-E (off Oak Harbor to off Blower  
 Bluff): 5220F,N.  
 1-E (south of Classic in Holmes  
 Harbor): 5312L.  
 1-E (Penn Cove): 5418G.  
 1-E (off Kayak Point): 6702B.  
 1-E: 5712B.  
 1-S (beach seine: Golden Gardens):  
 6411.  
 1-SS (off Minter Creek): 5126F.  
 1-SS (mid Carr Inlet, Glenn Cove to  
 Green Point): 6724B.



*Spirinchus thaleichthys*

## Osmeridae

University of Washington Boat Log

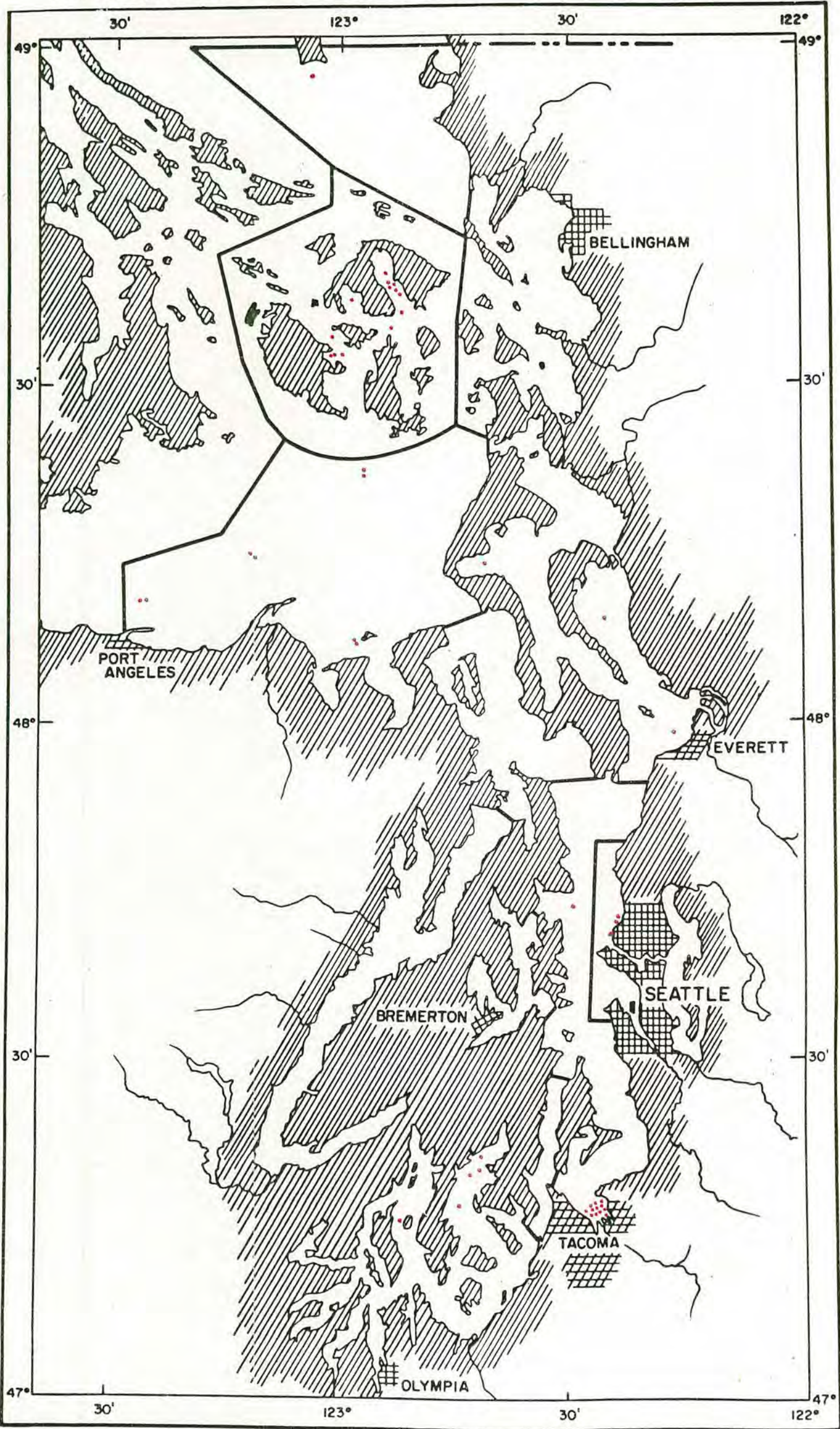
- 1-B (Bellingham Bay): 7017G2.
- 1-E (training cruise area: north of Langley): 7017D.
- 3-E (Port Susan north of Kayak Point to Tulalip): 7112.
- 1-B (training cruise area: southwest of Post Point): 7313G.

Miscellaneous Logs

- 5-S (Duwamish River estuary): Metro, 1966-70.
- 1-S (off Duwamish Head to Alki Point): U.W. Ocean., 1964-67.
- 32-E (Port Gardner Bay): U.W. Ocean., P.G., 1962-67.
- 3-PO (Narrows, just south of Fletcher Bay): U.W. Ocean., P.O., 1964-65.
- 7-S (Golden Gardens): U.W. Ocean., Hoh, 1963-67.
- 1-PO (south and north of Fletcher Bay): U.W. Ocean., Hoh, 1963-67.
- 2-SS (Carr Inlet, off Horsehead Bay): U.W. Ocean., Hoh, 1963-67.
- 1-SS (Case Inlet, off Taylor Bay to off Whiteman Cove): U.W. Ocean., Hoh, 1963-67.
- 2-CS (Port Madison): U.W. Ocean., Hoh, 1963-67.
- 24-E (Port Susan): U.W. Ocean., Hoh, 1963-67.
- 5-E (Penn Cove): U.W. Ocean., Hoh, 1963-67.
- 12-E (northeast of Rocky Point): U.W. Ocean., Hoh, 1963-67.
- 2-E (Saratoga Pass., off Demock Point): U.W. Ocean., Hoh, 1963-67.
- 3-E (Port Gardner Bay): U.W. Ocean., Hoh, 1963-67.
- 1-E (Holmes Harbor): U.W. Ocean., Hoh, 1963-67.
- 1-S (Elliott Bay): U.W. Ocean., herring trawl, 1968-69.
- 2-SS (mouth of Carr Inlet): U.W. Ocean., herring trawl, 1968-69.
- 1-E (Port Susan): U.W. Ocean., herring trawl, 1968-69.
- 3-B (Bellingham Bay): U.W. Ocean., Hoh, S.J., 1966.
- 8-E (Penn Cove): U.W. Ocean., Hoh, S.J., 1966.
- 4-E (Utsalady): U.W. Ocean., Hoh, S.J., 1966.
- 2-E (Port Susan): U.W. Ocean., Hoh, S.J., 1966.
- 17-SJ (south of Rosario Point in East Sound): NIH, 1964-66.
- 1-SJ (East Sound): NIH, 1968-71.
- 1-SJ (Argyle Spit): NIH, 1968-71.
- 5-B (north part of Bellingham Bay): NIH, 1968-71.
- 1-CS (Port Madison): Van Cleve, trap, 1961-65.

- 2-S (Duwamish River estuary, 16th Ave. S. bridge to 1st Ave. S.): NIH, 72010; 72024.
- 3-B (north part Bellingham Bay, off Nooksack River): Sea Grant, 72035.
- 4-S (Duwamish estuary, between 1st and 16th Ave. S. bridges): Sea Grant, 1973.
- 2-S (Duwamish estuary, upstream from 16th Ave. S. bridge): Sea Grant, 1973.
- 1-S (Duwamish estuary, downstream from 16th Ave. S. bridge): Sea Grant, 1973.
- 5-B (off Nooksack River Delta): Sea Grant, 73032.
- 1-HC (otter trawl, shallow, off Union): Sea Grant, 1973.
- 1-SJ (East Sound): A.C. DeLacy, personal communication, 6/20/69.
- 7-CS (Skiff Point to Point Jefferson): U.W. Ocean., herring trawl, 1968-69.
- 1-SJ (West Sound): U.W. Ocean., Hoh, S.J., 1966.
- 2-SJ (East Sound): U.W. Ocean., Hoh, S.J., 1966.
- 1-B (Eliza Island): NMFS, Cobb-68.
- 2-GS (south of Cherry Point): Sea Grant, 72009.
- 2-B (northern Bellingham Bay): Sea Grant, 72004.







*Thaleichthys pacificus*

## Osmeridae

Published Records

1-PS: Girard, 1859.  
 1-PS: Jordan and Gilbert, 1881c.  
 1-PS: Suckley, 1860.  
 1-PS: Jordan, 1887.  
 1-PS: Swan, 1881.  
 1-PS: Lord, 1886.  
 1-PS: Kincaid, 1919.  
 1-SJ: Shelford, 1935.

2-JF (west of Protection Island):  
 NMFS, Cobb, 2/28/73.  
 10+-CS (spawn in Wapato Creek, 1  
 mile upstream from the mouth of  
 the Puyallup River): Biologist  
 with the Puyallup Tribe, personal  
 communication, 4/22/76.

University of Washington  
Museum Collection

1-SJ (East Sound): 2342.  
 1-E (Port Susan): 2936.  
 1-E (off Everett): 3689.  
 2-S (Carkeek Park): 6063; 8364.  
 1-GS (6 miles south of Point  
 Roberts): 5637.  
 1-SS (Carr Inlet, between Horsehead  
 Bay and Home): 19148.

Friday Harbor Laboratory Log

1-SJ (West Sound): 6/23/51.  
 1-SJ (south part of East Sound):  
 6/20/50-2 (also boat 5033I).  
 1-SJ (Upright Head): 8/2/52.  
 1-SJ (East Sound): 8/11/52.  
 1-SJ (Upright Head to Olga):  
 8/1/60-2.  
 1-JF or SJ (Cattle Point to Smith  
 Island, Straits): 6/28/61-1.  
 2-JF (west of McArthur Bank):  
 7/19/63-1; 7/8/69-1.  
 2-SJ (Friday Harbor Lab, night  
 light): 7/29/69; 7/31/69.  
 1-SJ (San Juan Channel): 7/15/69-4.  
 1-SJ (off Friday Harbor): 8/22/69.

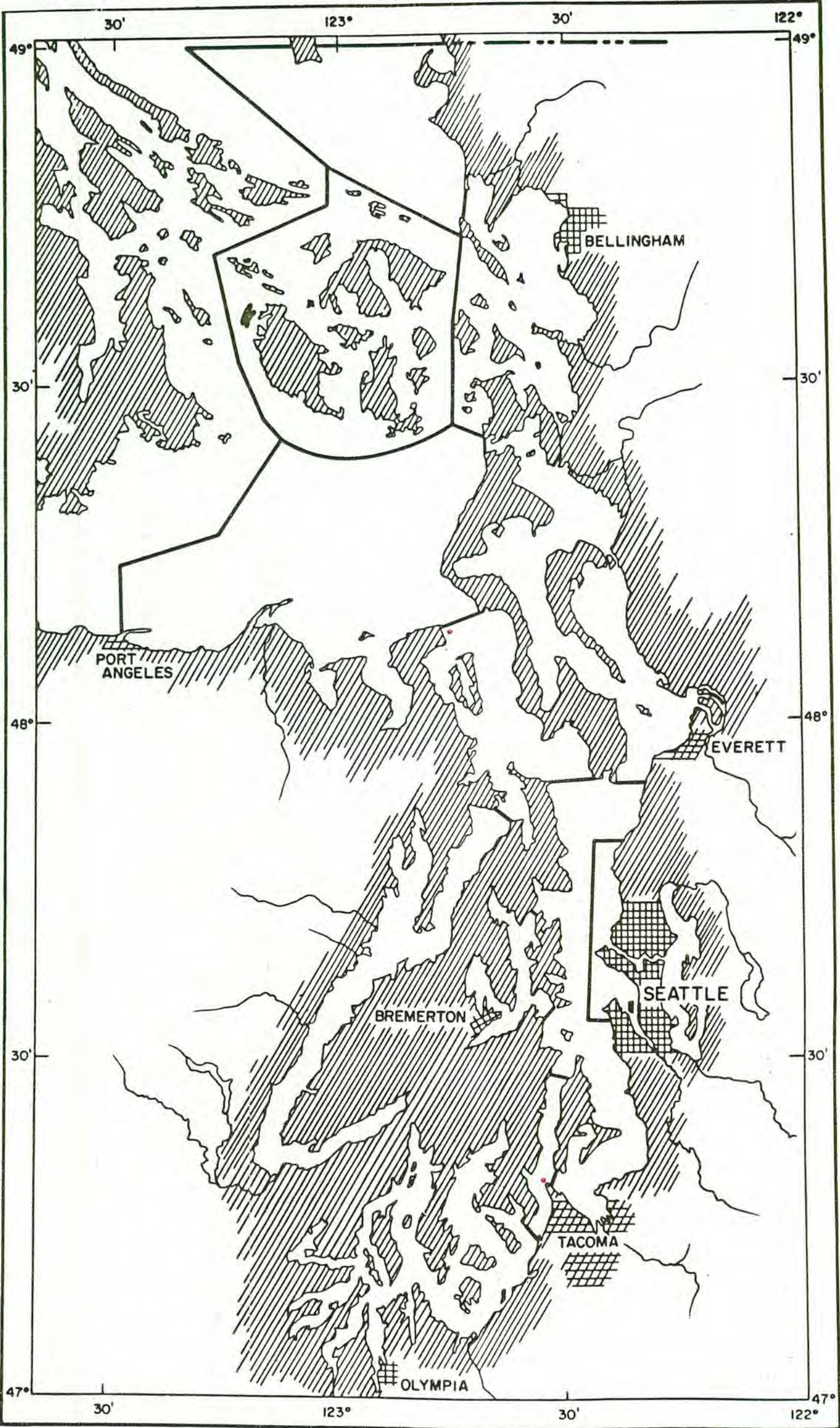
University of Washington Boat Log

1-S (beach seine: Golden Gardens):  
 5328A.  
 1-SJ (training cruise area: north of  
 Rosario Point): 6614H.  
 1-SJ (East Sound): 5033M.  
 1-CS (off Port Madison): 5043C.  
 1-SS (Herron Island): 5126H.  
 1-SS (Elgin to Minter Creek to Raft  
 Island): 5135A.  
 1-SS (Minter Creek to Raft Island):  
 5213F.  
 1-E (Penn Cove): 5405K.  
 1-SS (Carr Inlet, off Glenn Cove to  
 Raft Island): 5613D.

Miscellaneous Logs

2-JF (mid-channel, northwest and  
 north of Dungeness Spit):  
 NMFS, Cobb-25.  
 1-SJ (East Sound, south of Rosario  
 Point): NIH, 1964-66.  
 2-JF (mid-channel, north of Ediz  
 Hook): NMFS, Cobb-25.







*Notolepis rissoi rissoi*

Paralepidae

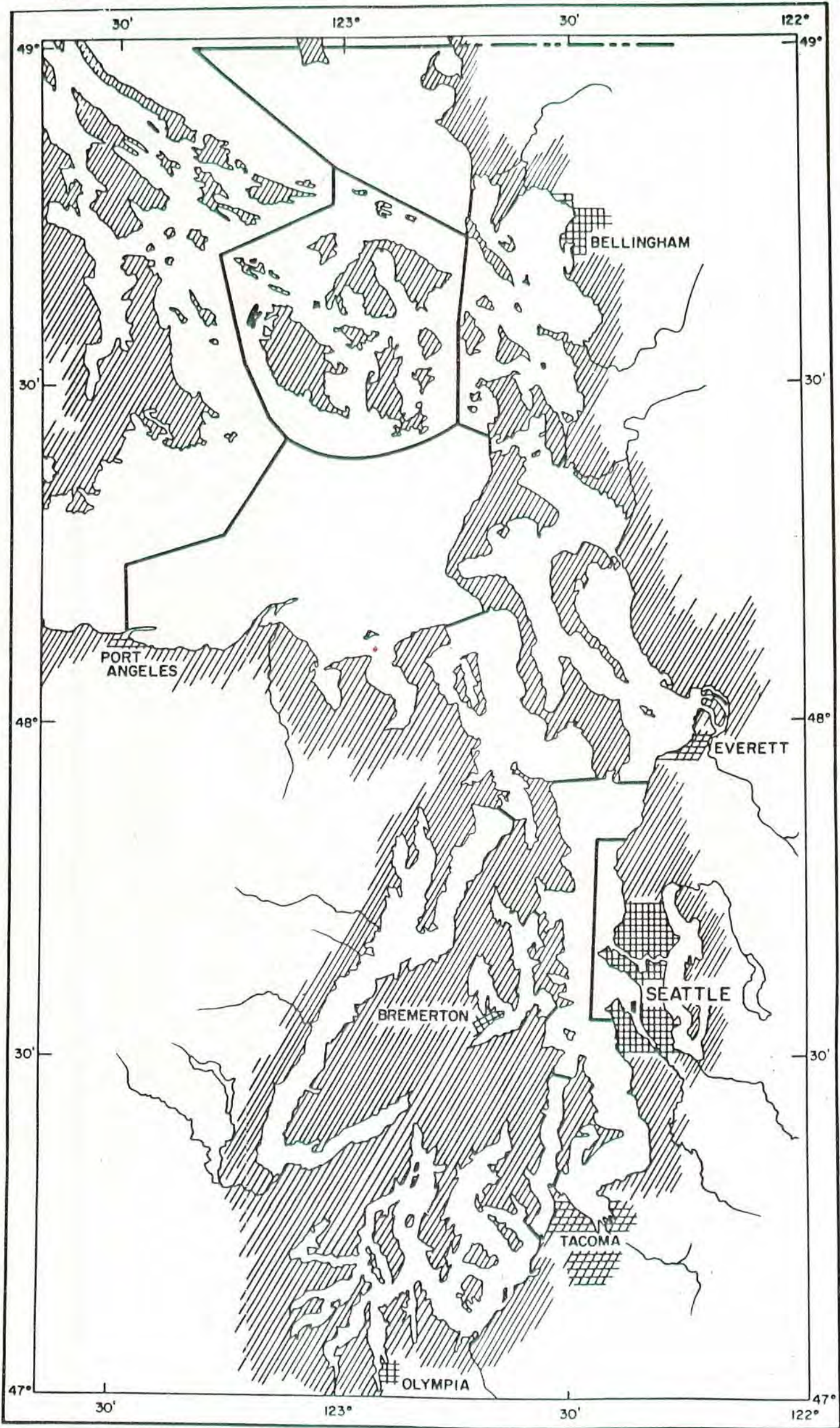
Published Records

- 1-AI (Port Townsend):  
Jordan and Starks, 1896; Jordan  
and Gilbert, 1882, 1881c.  
1-PS: Kincaid, 1919.

University of Washington  
Museum Collection

- 1-CP (Point Defiance): 4752.







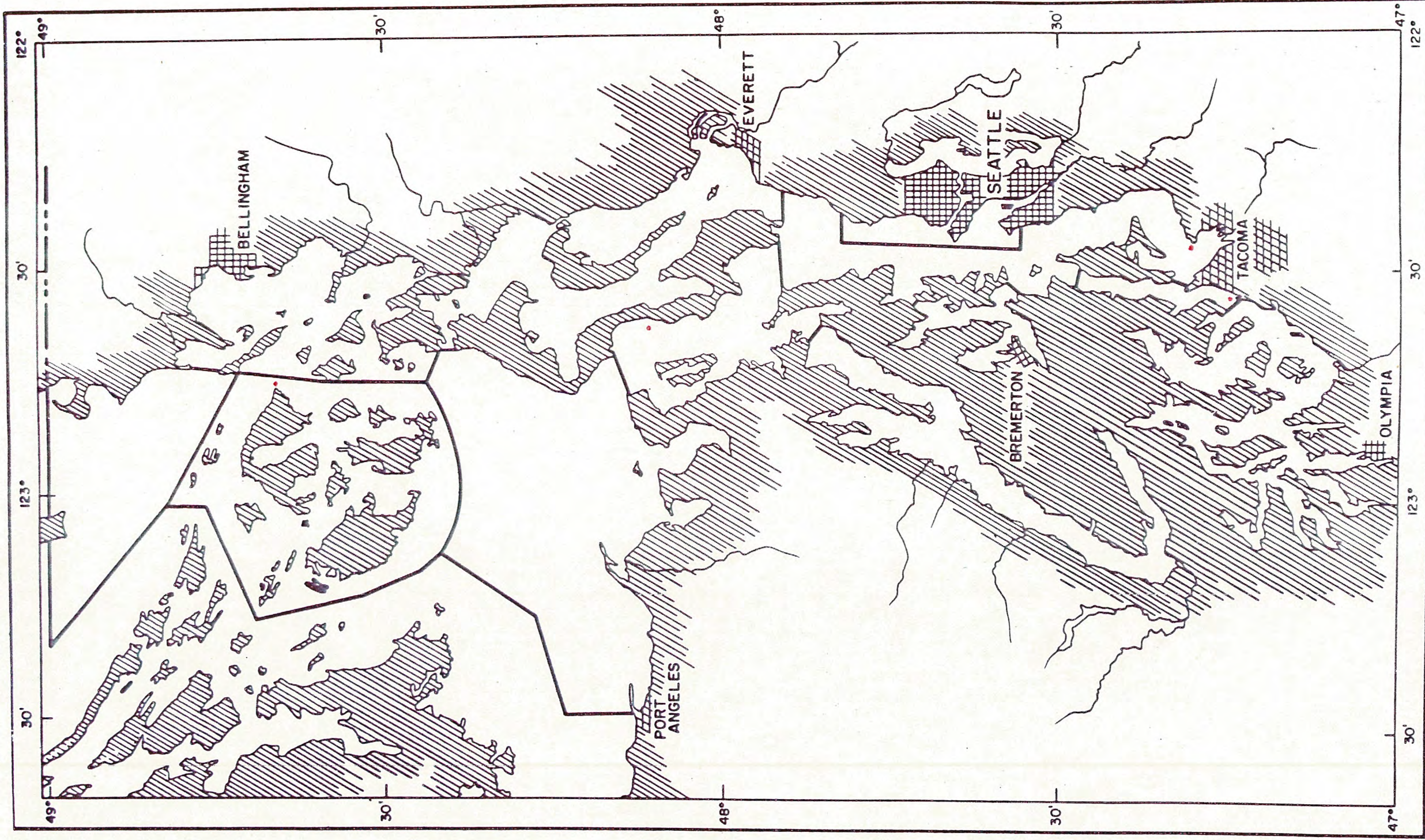
*Synodus lucioceph*

Synodontidae

Miscellaneous Logs

1-JF (mouth of Discovery Bay):  
Tom Beard, hook-and-line, 1975.







*Alepisaurus ferox*

## Alepisauridae

Published Records

- 1-PS: Gill, 1863a.  
1-PS: Gunther, 1864.  
1-PS:  
    Jordan and Gilbert, 1881c; 1882.  
1-PS: Jordan and Starks, 1896.  
1-PS: Kincaid, 1919.  
1-SJ (off Point Lawrence): 1953.

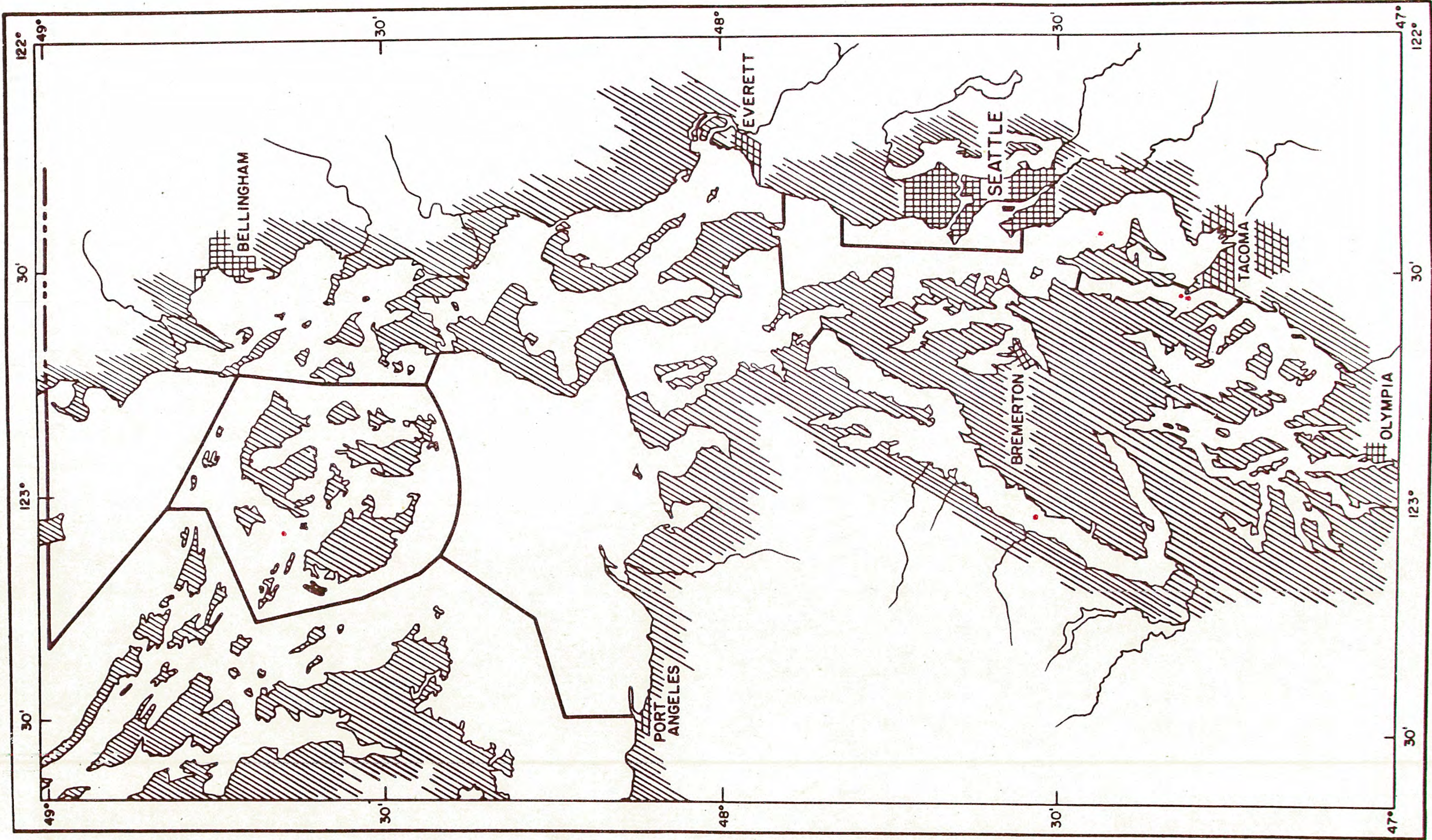
University of Washington  
Museum Collection

- 1-CS (Browns Point): 10746.  
1-AI (Admiralty Bay, off Greenbank):  
    15901.

Miscellaneous Logs

- 1-CP (south end of Narrows, near Day  
Island): John Slipp, personal  
communication, 6/5/74.







*Diaphus theta*

Myctophidae

Published Records

1-CP (near Point Defiance):  
Shimada, 1948.

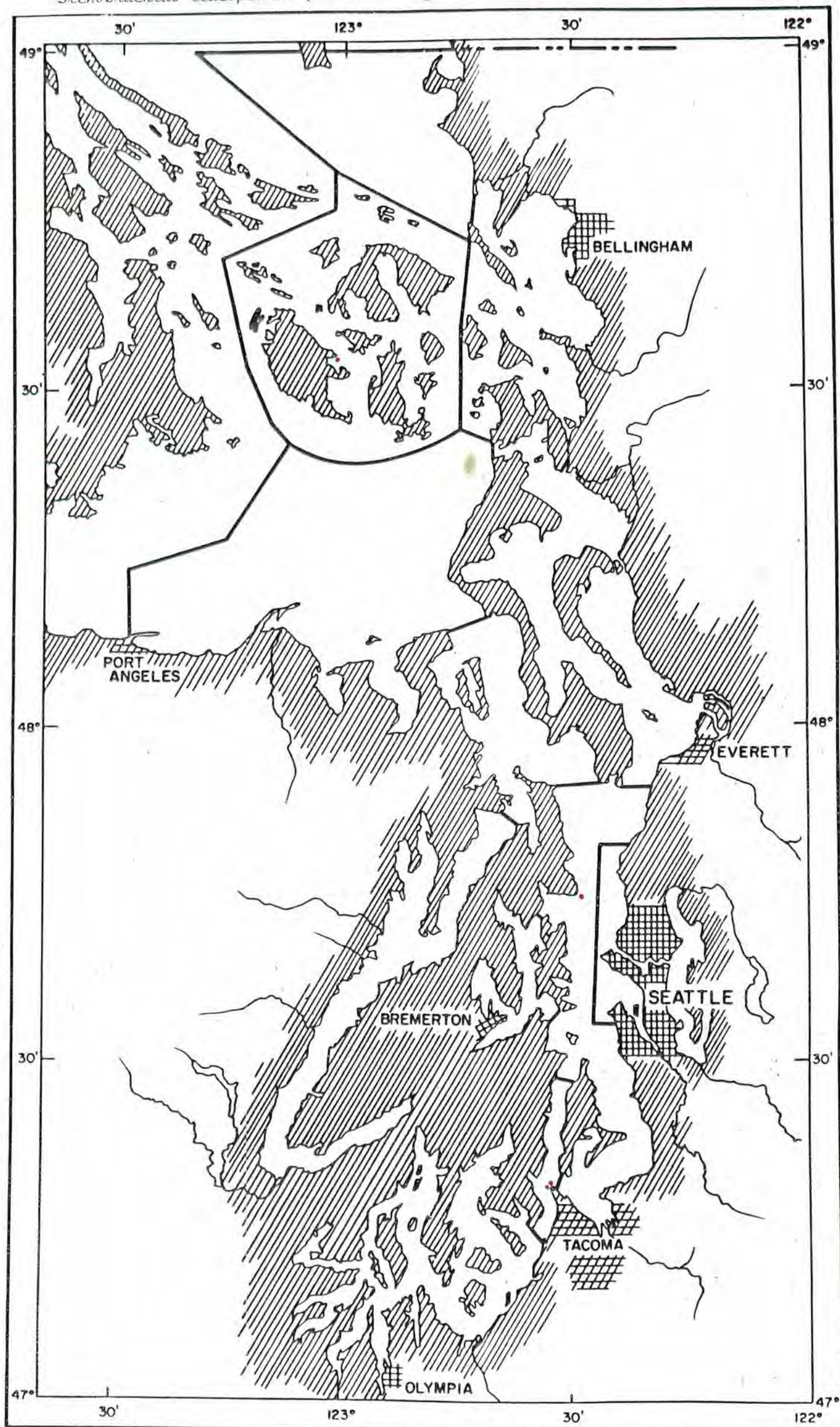
University of Washington  
Museum Collection

1-CP (Tacoma, Narrows near Point  
Defiance): 16124.  
1-CS (east of Vashon Island):  
19242.  
1-HC (off Chinom Point): 19181.

Friday Harbor Laboratory Log

1-SJ (off Flattop Island): 8/24/68.







*Stenobrachius leucopsarus*

Myctophidae

Published Records

1-CP (near Point Defiance):  
Shimada, 1948.

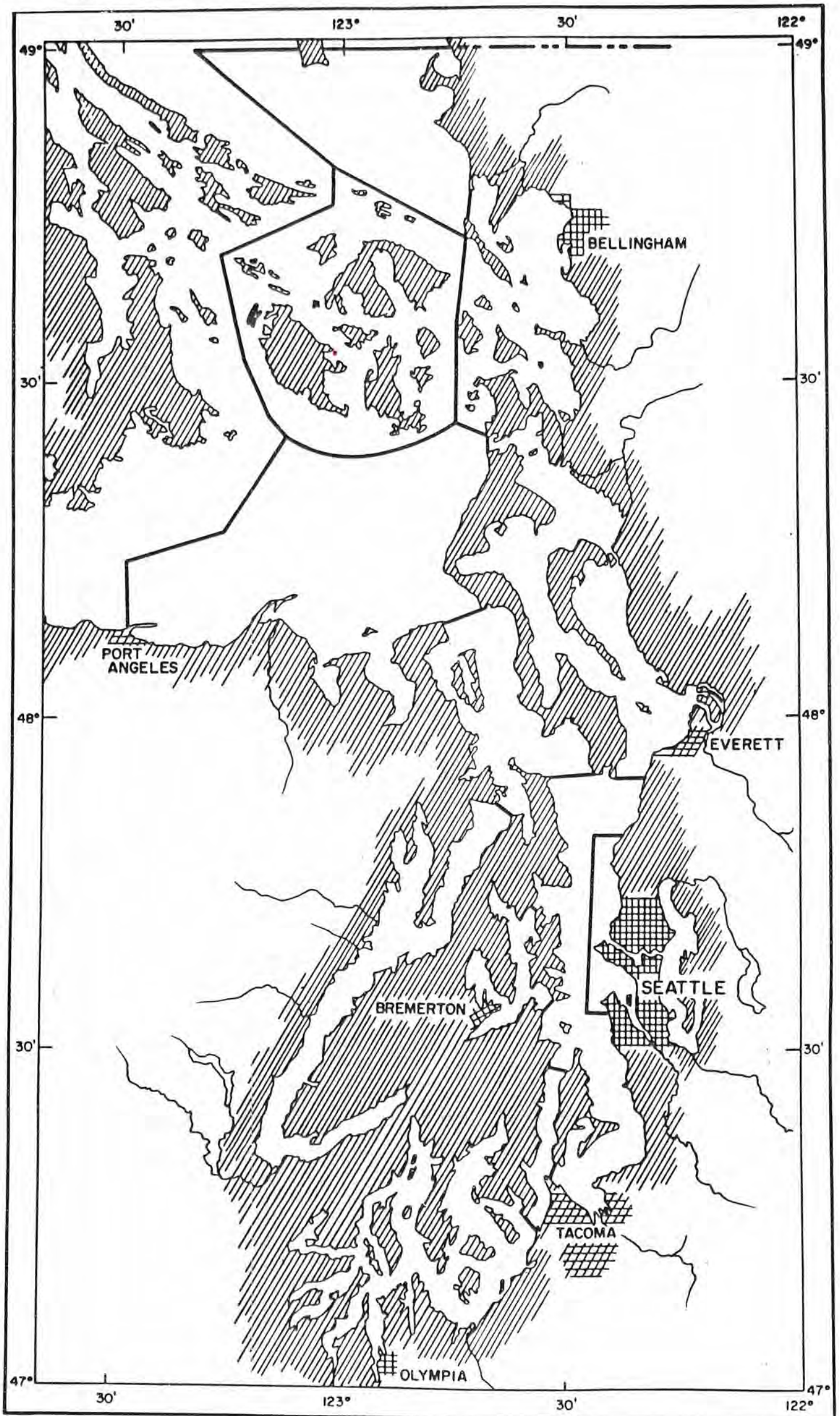
University of Washington  
Museum Collection

1-CP (at surface: Point Defiance):  
12873.  
1-CS (off Jefferson Head): 12874.

Miscellaneous Logs

1-SJ (night light: Friday Harbor Lab  
Dock): Larry Moulton, personal  
communication, 5/22/74.







*Tarletonbeania crenularis*

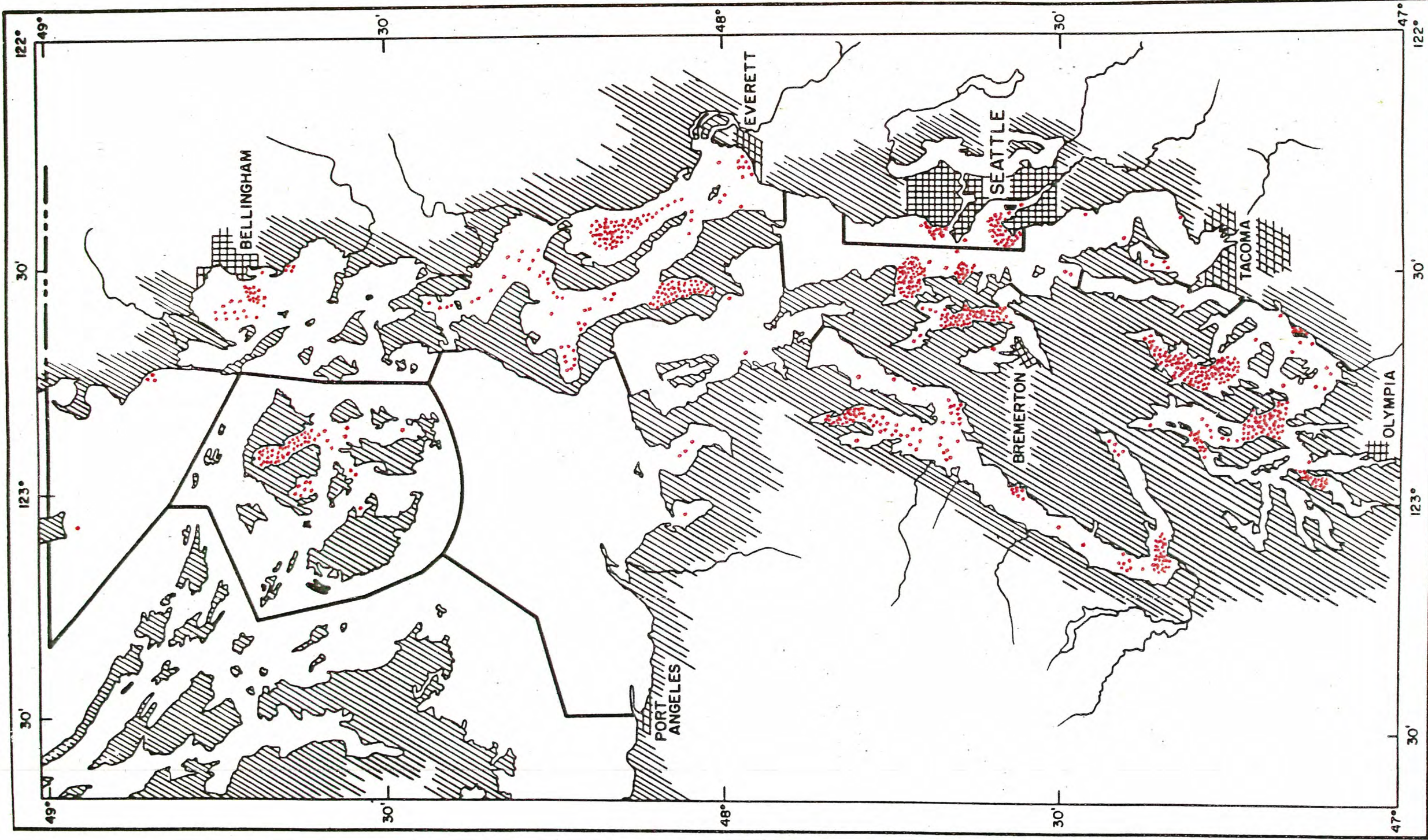
Myctophidae

Published Records

1-PS: Kincaid, 1919.

Friday Harbor Laboratory Log1-SJ (night light: Friday Harbor  
Lab): 6/15/53.







*Porichthys notatus*

## Batrachoididae

Published Records

- 1-SS (Fort Steilacoom):  
Girard, 1959; Suckley, 1860.  
1-SJ: Starks, 1911.  
1-SJ: Shelford et al., 1935.  
1-AI (near Colvos Rocks):  
Evermann and Goldsborough, 1907.  
1-GS: Smith, 1936.  
5-B (Bellingham Bay): Smith, 1936.  
4-E (Coupeville): Smith, 1936.  
1-JF (Sequim Bay):  
Smith, 1936 (also museum 3911).  
1-JF (Port Discovery):  
Smith, 1936 (also museum 3867).  
1-HC (Bangor): Smith, 1936.  
5-SS (Carr Inlet; Anderson Island;  
Nisqually Flats; Dofflemeyer  
Point; Case Inlet): Smith, 1937.  
3-E (Camano Head; Columbia Beach;  
Langley): Smith, 1937.  
2-E (Gedney Island): Smith, 1937.  
5-HC (Hoodsport): Smith, 1937.  
2-HC (Holly): Smith, 1937.  
2-HC (Skokomish Flats; Seabeck):  
Smith, 1937.  
1-HC (Quilcene Bay):  
Smith, 1937 (also museum 4230).  
3-SJ (Upright Channel; East Sound;  
Blakely Island): Smith, 1937.  
7-E (Kiket Island to Strawberry  
Point): Stober and Salo, 1970b.  
2-E (Skagit and Similk Bays):  
Stober and Salo, 1970b.  
1-S (Duwamish estuary): Salo, 1969.  
26-S (Duwamish Head): Salo, 1969.  
5-E (Skagit Bay): Salo, 1969.  
3-CS (beach seine: south side of  
Point Jefferson): Kendall, 1966.  
2-HC (Anderson Cove): Chew, 1970.  
2-HC (fyke net: in Big Beef Harbor):  
Anderson and Chew, 1972.  
1-CS (Dumas Bay): Miller, 1971b  
(also NIH 71105 and 71106).  
1-CS (Seahurst County Park):  
Miller, 1971a (also boat 7113 and  
NIH 71101).

University of Washington  
Museum Collection

- 1-PS: 202.  
8-SJ (East Sound):  
630; 740; 2283; 2965; 16687;  
18687 (also NIH, 1964); 18688  
(also NIH, 1954); 17126.  
1-SJ (near Olga): 1121.  
2-E (Holmes Harbor): 1684; 5303.  
1-SJ (west shore of Blakely Island):  
2122.  
1-SJ (West Sound): 2233.  
1-E (off Camano Head in Saratoga  
Pass.): 2549.  
1-E (east of Gedney Island): 2564.  
1-E (off Snohomish River): 2620.  
2-E (off Everett): 2903; 2932.  
2-S (Golden Gardens): 5651; 16931.

- 1-CS (off Port Madison):  
5720 (also boat 497B).  
1-SJ (north East Sound):  
5763; 5693 (also boat 491M).  
1-HC (across from Hoodsport):  
5774 (also boat 499F).  
1-CS (center of Port Madison):  
5788 (also boat 492B).  
1-S (off Golden Gardens):  
5848 (also boat 493B).  
1-CS (Port Madison):  
6035 (also boat 1/22/49-3).  
1-PO (Liberty Bay):  
6189 (also boat 2/5/49-5).  
1-SS (Nisqually Beach, south of  
Treble Point): 7586.  
1-HC: 8224.  
1-SS (off Glen Cove):  
8270 (also boat 5037C).  
1-SJ (Friday Harbor): 11503.  
1-SS (near Minter Creek): 14778.  
1-B (Chuckanut Bay): 18292.  
1-GS (6 miles south of Point  
Roberts): 5636.  
1-HC (Point Whitney): 16577.  
1-SJ (mid East Sound): 18686 (also  
Friday Harbor Log, 6/5/64).

Friday Harbor Laboratory Log

- 1-SJ (south East Sound):  
6/20/50-2 (also boat 5033I).  
1-SJ (south of Orcas Island):  
6/24/52.  
9-SJ (East Sound):  
8/11/52; 7/6/60-2; 7/26/60;  
8/13/60-1; 7/6/71-1; 6/20/61;  
5/11/62; 4/3/64; 6/29/71-1.  
3-SJ (East Sound entrance):  
7/28/55-2; 8/11/55-3; 8/22/55-5.  
3-SJ (mid East Sound):  
8/22/55-7; 6/20/69-1; 6/21/71-1.  
1-SJ (West Sound and Lopez Sound):  
6/27/60.  
2-SJ (Upright Head to Olga):  
8/1/60-2; 7/10/61-2.  
4-SJ (West Sound): 8/13/60-1;  
6/26/61; 6/20/69-2; 7/6/71-2.  
1-SJ (Upright Head to Obstruction  
Pass.): 8/22/55-4.  
1-SJ (lower East Sound): 6/26/73-1.

University of Washington Boat Log

- 1-SJ (north end of East Sound):  
491L.  
1-SJ (West Sound): 5033L.  
1-SJ (East Sound): 5033M.  
1-SJ (east of Humphrey Head):  
5033N.  
14-SJ (training cruise area: East  
Sound, north of Rosario Point):  
6507H; 6603H; 6614H; 6620H;  
6717H; 6815H; 6819H; 6908H;  
7118H; 7307H; 6914H; 7010H;  
7017H; 7110H.



*Porichthys notatus*

## Batrachoididae

University of Washington Boat Log

- 14-B (training cruise area: south-west of Post Point): 6603G; 6614G; 6620G; 6630G; 6815G; 6819G; 6826G; 6908G; 7118G; 7307G; 7010G; 7017G,G.1; 7313G.
- 13-E (mouth of Holmes Harbor, Rocky Point to Dines Point): 491Q; 5234A,C; 5307C,D,K,L,R,S; 5321R; 5327C,E; 5312I.
- 1-E (Port Susan, off Spee-Bi-Dah): 5023D.
- 2-E (Saratoga Pass.; Snatelum Point to Onamac Point): 5330F; 5712C.
- 1-E (Saratoga Pass.): 6810B.
- 8-E (mid Holmes Harbor, south of Dines Point to off Classic): 5234D; 5312F,G,K; 5405G; 5501D; 5712E,F.
- 27-E (lower Holmes Harbor, south of Classic): 5234E; 5305A,B,G; 5307E,F,G,H,O,P,T,U; 5312B,C,D,E,L,N; 5316E,N; 5321U,W; 5501A,B,C,E,F.
- 36-E (Holmes Harbor): 5305H,I,J,K,M; 5325A,B,C; 5327A,B; 5405A,B,C,D,E,F; 5420A,H; 5522D; 5604D,E,F,G,H; 56130,P,Q,T; 5614B,D,E,F; 5703E,G,H; 5810A.
- 2-E (Penn Cove): 5405K; 5522G.
- 2-E (Saratoga Pass., Onamac Point to Indian Beach): 5405L,M.
- 1-E (training cruise area: off Penn Cove): 7118E.
- 2-E (off north of Kayak Point): 7204A,B.
- 3-E (off Kayak Point): 6702A,B,C.
- 3-B (Bellingham Bay): 6715G; 6822G; 7017G2.
- 1-JF (Port Discovery): 5318A.
- 1-HC (off Union): 499H.
- 1-HC (off Thornedyke Bay): 499J.
- 23-HC (Dabob Bay): 5903A,B; 5921; 6013A,B; 6105A,C; 6202A,C,D,E,F; 7205M,N; 7102B,C,D,E,F,K,L,O; 7112.
- 1-HC (west of Misery Point): 7202A.
- 36-HC (Dabob Bay, Broad Spit to Long Spit): 6503A,B,D,E,H; 6601A,B,C,D; 6629A,B,D,E; 6702D,E,F; 6724A; 6804A,B,G,H; 6807B; 6828A; 6902A,B,H; 7202E,F,I,J; 7303E,F; 7003B,C,G,H.
- 1-HC (south of Oak Head): 6601E.
- 5-HC (off Pleasant Harbor): 6804E; 6828E; 7003J,K,L.
- 1-HC (northwest of Big Beef): 6902I.
- 1-HC (mid-channel, Hoodsport to Potlatch): 6804D.
- 9-CS (mid Port Madison): 5006D; 5048B; 5122A,B; 5132D; 5812A; 5924A; 5932A; 6204B.
- 2-CS (mid Quartermaster Harbor): 5042C,D.
- 2-CS (off Port Madison): 5043B,C.
- 1-CS (Tramp Harbor): 5104A.
- 2-CS (mouth of Quartermaster Harbor): 5104B; 5115H.
- 3-CS (Port Madison, off Agate Pass.): 5302AA; 5310.2F; 5317C.
- 1-CS (west of Point Monroe): 5315D.
- 4-CS (east off Point Monroe): 5805C; 5813A,B,C.
- 1-CS (off Murden Cove): 7308A.
- 16-CS (Murden Cove): 6610B; 6710B; 6713G,H; 6818A,B,C; 6819X; 6821.5G,H; 6823-1; 6912; 7016C; 3-7108.
- 1-CS (trap: Port Madison): 6213.
- 2-CS (off Sylvan Beach, Vashon Island): 6703A,B.
- 1-CS (off West Point): 6706B.
- 1-PO (Liberty Bay): 2/5/49-5.
- 55-PO (off Fletcher Bay to off south of Battle Point): 5207D; 5223B; 5228F; 5230F; 5235P; 5236E; 5301A; 5303; 5306A; 5309A; 5310.3B; 5315B; 5317A,B; 5402X; 5413A; 5422A; 5504; 5523A,B; 5602B; 5603E; 5615A; 5707A,B,G,H; 5709C; 5809A; 5904C; 5905A; 5915B; 5919A,B; 5923A,B; 5924B; 5927C; 6001AM; 6006A; 6016B1,A2,B2,A3,B3,A5,B5; 6101A; 6111A,B; 6201; 6202.5; 6205D1,D3; 6913.
- 11-PO (off south of Fletcher Bay): 5229A,C; 5413B,C,D,F; 5711C; 5801A,C; 6016B4; 6118A.
- 26-PO (most probably off Fletcher Bay): 5306B; 5926A; 6002A; 6007A,B; 6009A; 6204A,C; 7206; 7302A; 6214; 6711B,C; 6713B,E,F; 6715; 6813.5; 6821.5F; 6916D,H; 7011A,B; 7020; 7104-1,2.
- 1-PO (off Battle Point and north): 7310.3A.
- 9-PO (off Fletcher Bay): 6307; 6320A; 6322.5; 6403A,F; 6406C; 6427A,B; 6507K; 6707.
- 2-PO (off Manzanita to off Seabold): 5310.5E; 6215A.
- 4-PO (between "B-2" and "B-1"): 5526A; 6205C3,C1,C2.
- 1-PO (north of buoy 4): 5927A.
- 1-PO (Brownsville to White Point): 6806A.
- 2-S (off Golden Gardens to north of Meadow Point): 5119G,H.
- 1-S (Golden Gardens): 6311F.
- 1-S (off Golden Gardens): 5131C.
- 1-S (off Carkeek Park to Meadow Point): 5915D.
- 1-S (beach seine: Golden Gardens): 6513A.
- 1-SS (off McLane Cove): 7/20/49-3.
- 1-SS (northwest end of Nisqually Reach): 7/20/49-5.
- 2-SS (west off Herron Island): 5009G; 5126H.



*Porichthys notatus*

## Batrachoididae

University of Washington Boat Log

- 18-SS (off Minter Creek to off Elgin): 7/19/49-1; 5037H; 5045G, J; 5101C; 5104D,V; 5107A; 5126D, F; 5135A,B,C,D; 5201P; 5227E,G,I.  
 1-SS (north end of Pickering Pass. to off McLane Cove): 5009H.  
 32-SS (off Glen Cove to west of Cutts and Raft Islands): 5009J; 5045K; 5101B; 5102A; 5104J,L,P,Q,Y,Z,AA; 5115F; 5126M; 5201A,O; 5204A,B,C,D,E,K,L,M,N; 5213D; 5227B; 5613A,B,C,D,F,G.  
 3-SS (mouth of Carr Inlet, southwest of Green Point): 5037A; 5104S,T.  
 8-SS (off Wauna and south): 5037I; 5101A; 5104F,G,W; 5126L; 5227A,G.  
 1-SS (mid-channel, Gibson Point to Gertrude Island): 5046D.  
 1-SS (off north of Home to off Horsehead Bay Spit): 5104R.  
 1-SS (beach seine: 1 mile north of Minter Creek): 5126E.  
 1-SS (off Victor): 5126G.  
 1-SS (west of Ketron Island): 5126K.  
 3-SS (Carr Inlet): 5522C; 5605A; 5703C.  
 5-SS (Eld Inlet, trap: 1 mile northeast of Flapjack Point): 6208A,B; 6217-2; 6219-1,2.  
 3-SS (mid-channel, Glen Cove to Green Point): 6724B-1,2,3.  
 1-SS (east of Hartstene Island): 6724C.  
 1-SS (Drayton Pass.): 6724D.  
 3-HC (Anderson Cove): 7009A,B,D.  
 5-PO (most probably off Fletcher Bay): 7105-1,2; 7107A,B; 7313X.  
 2-E (north of Kayak Point to Tulalip): 7112.  
 1-SJ (training cruise area: south-west of Center Island): 7017I.

Miscellaneous Logs

- 1-SJ (East Sound): DeLacy Log, 6/20/69.  
 1-E (off Everett): DeLacy Log, 1932.  
 1-HC (Point Whitney): C. Lindsay, personal communication, 1962.  
 1-S (Duwamish estuary): Metro, 1966-70.  
 50+-S (Duwamish Head to Alki Point): U.W. Ocean., 1964-67.  
 5-E (Port Gardner Bay): U.W. Ocean., P.G., 1962-67.  
 261-PO (Narrows, just south of Fletcher Bay): U.W. Ocean., P.O., 1964-65.  
 2-S (Golden Gardens): U.W. Ocean., Hoh, 1963-67.  
 50+-PO (south and north of Fletcher Bay): U.W. Ocean., Hoh, 1963-67.  
 5-HC (Lynch Cove): U.W. Ocean., Hoh, 1963-67.

- 3-HC (Seabeck): U.W. Ocean., Hoh, 1963-67.  
 50+-SS (Case Inlet, off Taylor Bay to off Whiteman Cove): U.W. Ocean., Hoh, 1963-67.  
 10+-SS (Carr Inlet, off Horsehead Bay): U.W. Ocean., Hoh, 1963-67.  
 50+-CS (Port Madison): U.W. Ocean., Hoh, 1963-68.  
 4-E (Port Susan): U.W. Ocean., Hoh, 1963-67.  
 3-E (Penn Cove): U.W. Ocean., Hoh, 1963-67.  
 3-E (Saratoga Pass., Demock Point): U.W. Ocean., Hoh, 1963-67.  
 4-E (northeast of Rocky Point): U.W. Ocean., Hoh, 1963-67.  
 17-E (Holmes Harbor): U.W. Ocean., Hoh, 1963-67.  
 2-SS (off Taylor Bay to off Whiteman Cove): U.W. Ocean., Commando, 1968.  
 1-PO: U.W. Ocean., Commando, 1968.  
 2-CS (Skiff Point to Point Jefferson): U.W. Ocean., herring trawl, 1968-69.  
 3-HC (off southwest of Big Beef Harbor): Sea Grant, 1973.  
 38-SS (mouth of Carr Inlet): U.W. Ocean., herring trawl, 1968-69.  
 12-PO (south of Fletcher Bay): U.W. Ocean., herring trawl, 1968-69.  
 1-SJ (West Sound): U.W. Ocean., Hoh, S.J., 1966.  
 4-SJ (East Sound): U.W. Ocean., Hoh, S.J., 1966.  
 2-E (Port Susan): U.W. Ocean., Hoh, S.J., 1966.  
 3-E (Holmes Harbor): U.W. Ocean., Hoh, S.J., 1966.  
 1-E (Holmes Harbor): WSDF, Commercial Catch Comp., 1966-71.  
 3-SS (Case Inlet): WSDF, Commercial Catch Comp., 1966-71.  
 1-JF (Discovery Bay): NMFS, Cobb-35.  
 3-SS (Carr Inlet): NMFS, Cobb-68.  
 3-PO (south of Fletcher Bay): NMFS, Cobb-68.  
 2-HC (outside Dabob Bay; off Ayock Point): NMFS, Cobb-68.  
 2-E (Holmes Harbor): NMFS, Cobb-70.  
 2-HC (off Hoodspout; off north of Lilliwaup): NMFS, Cobb-71.  
 1-SS (Carr Inlet): NMFS, Cobb-75.  
 20-SJ (East Sound, south of Rosario Point): NIH, 1964-66.  
 2-SJ (East Sound): NIH, 1968-71.  
 3-B (Bellingham Bay, Marine Drive to Nooksack River): NIH, 1968-71.  
 3-S (Golden Gardens to Carkeek Park): NIH, 1968-71.  
 1-PO (off Fletcher Bay): NIH, 1968-71.  
 2-SS (Case Inlet, Stretch Island to Herron Island): NIH, 1968-71.



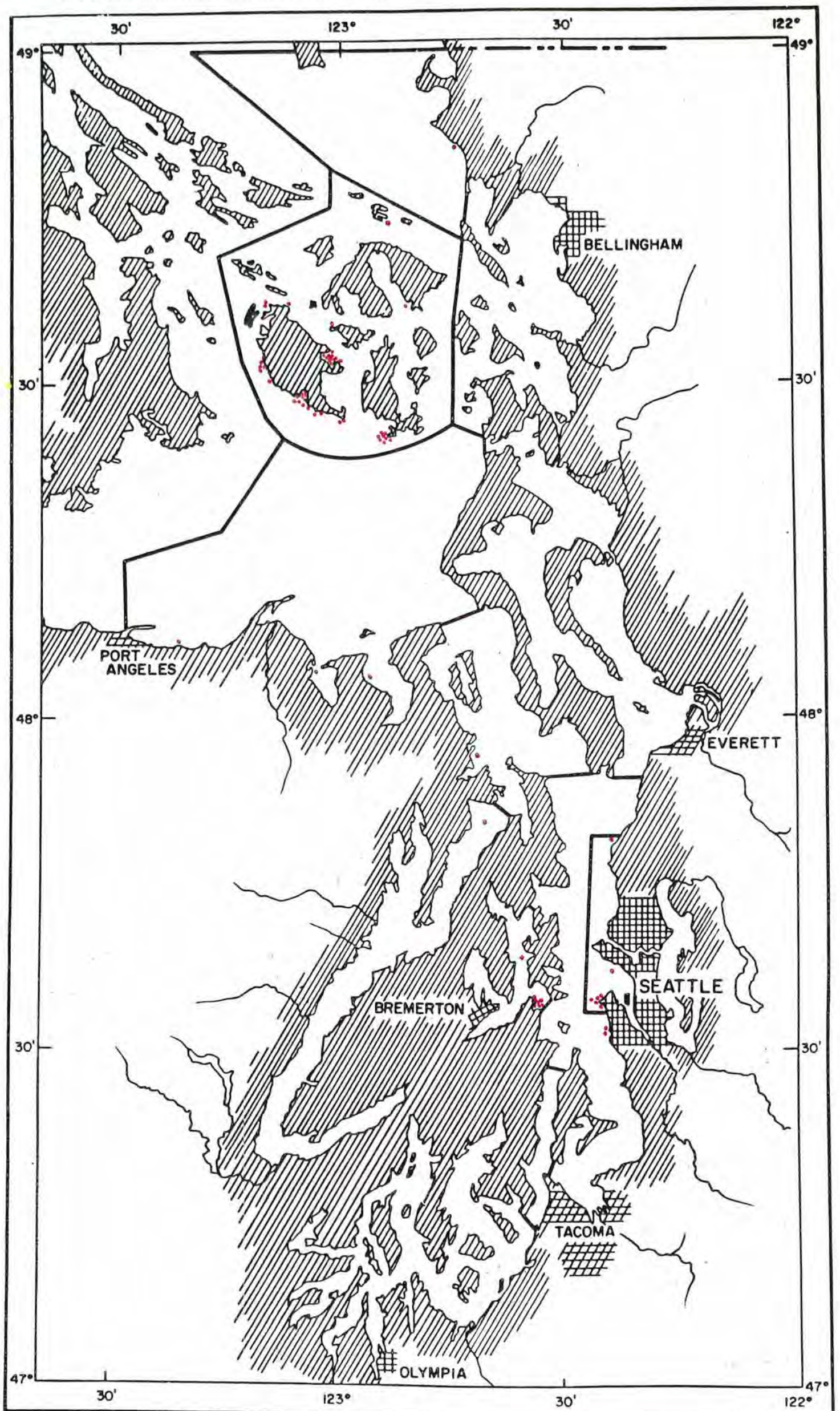
*Porichthys notatus*

## Batrachoididae

Miscellaneous Logs

- 82-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 5-PO (off Fletcher Bay):  
Van Cleve, trap, 1961-65.
- 118-SS (entrance to Eld Inlet):  
Van Cleve, trap, 1961-65.
- 3-E (Holmes Harbor):  
Van Cleve, trap, 1961-65.
- 3-SS (north part of Pickering Pass.):  
Van Cleve, trap, 1961-65.
- 3-E (just south of Penn Cove in Saratoga Pass.):  
Van Cleve, trap, 1961-65.
- 1-CP (beach seine: Gig Harbor Spit):  
Sea Grant, 72003 (also boat 7208).
- 1-GS (Cherry Point):  
Sea Grant, 52009.
- 1-AI (beach seine: Mutiny Bay):  
Sea Grant, 72011.
- 1-PO (beach seine: Dyes Inlet, Tracyton launch ramp):  
Sea Grant, 72018.
- 2-GS (Cherry Point):  
Sea Grant, 72019.
- 1-HC (off Big Beef Harbor):  
Sea Grant, 72026.
- 4-B (beach seine: Wildcat Cove launch ramp):  
Sea Grant, 72029; 1973.
- 1-B (mid off Point Frances):  
Sea Grant, 72035.
- 1-S (otter trawl: south side of West Point): Sea Grant, 1973.
- 1-S (southwest of Alki Point):  
Sea Grant, 1973.
- 2-S (deep otter trawl: southwest of Alki Point): Sea Grant, 1973.
- 4-PO (off south of Fletcher Bay):  
Sea Grant, 73008.
- 15-SS (off McLane Cove to Stretch Island, mid-channel):  
Sea Grant, 1973-74.
- 1-SS (near Dougall Point):  
Sea Grant, 1973-74.
- 6-HC (Union): Sea Grant, 1973.
- 10-HC (mid-channel, off Union):  
Sea Grant, 1973-74.
- 8-HC (off Skokomish River Delta):  
Sea Grant, 1973.
- 9-HC (mid-channel, off Skokomish River Delta):  
Sea Grant, 1973-74.
- 1-HC (Carlson Point to King Spit):  
Sea Grant, 73039.
- 5-SS (Cormorant Pass.):  
Sea Grant, 73060.
- 1-SS (Cormorant Pass.):  
Sea Grant, 73059.
- 1-SS (east side of Tatsolo Point):  
Sea Grant, 73059.
- 2-B (Bellingham Bay): Bill High, personal communication, 12/9/63.
- 1-SS (off Nisqually River-McAllister Creek Flats): Sea Grant, 1973.







*Gobiesox maeandricus*

## Gobiesocidae

Published Records

- 1-S (Seattle):  
 Jordan and Starks, 1896.  
 1-AI (Port Ludlow): Starks, 1896b.  
 1-SJ: Starks, 1911.  
 1-SJ: Shelford et al., 1935.  
 1-SJ (Friday Harbor): Batts, 1961.

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- 1-S (west Seattle): 185.  
 4-SJ (Friday Harbor):  
 995; 1042; 2103; 2190.  
 1-SJ (Cattle Point): 1021.  
 1-SJ (Lime Kiln): 1030.  
 1-SJ (2 miles south of Lime Kiln):  
 1065.  
 3-SJ (Kanaka Bay):  
 1082; 1146; 1254.  
 1-SJ (near Olga): 1137.  
 1-SJ (False Bay): 1275.  
 1-SJ (False Bay Reef): 1476.  
 1-SJ (Sucia Island): 1766.  
 2-CS (Lincoln Park Beach):  
 3578; 3792.  
 1-S (beach seine: Alki Point):  
 4524.  
 2-S (Alki Point): 4836; 8221.  
 1-PO (Port Orchard or possibly  
 Orchard Point): 4806.  
 1-S (Edmonds): 5209.  
 1-S (off Alki Point): 11498.  
 1-JF (beach near Morse Creek):  
 14633.  
 1-PO (reef north of Manchester  
 Rocks): 643.  
 1-SJ (tidepools, 1 mile from False  
 Bay): 6222.  
 1-SJ (beach seine: between False and  
 Kanaka Bays): 10454.  
 1-SJ (Hannah Heights): 17996 (also  
 Friday Harbor Log, 8/3/63).  
 1-SJ (Iceberg Point): 18008 (also  
 Friday Harbor Log, 7/18/63-2).  
 1-SJ (Limestone Point): 17425 (also  
 Friday Harbor Log, 6/23/63).  
 1-SJ (point east of Eagle Cove):  
 17419 (also Friday Harbor Log,  
 8/5/63).

Friday Harbor Laboratory Log

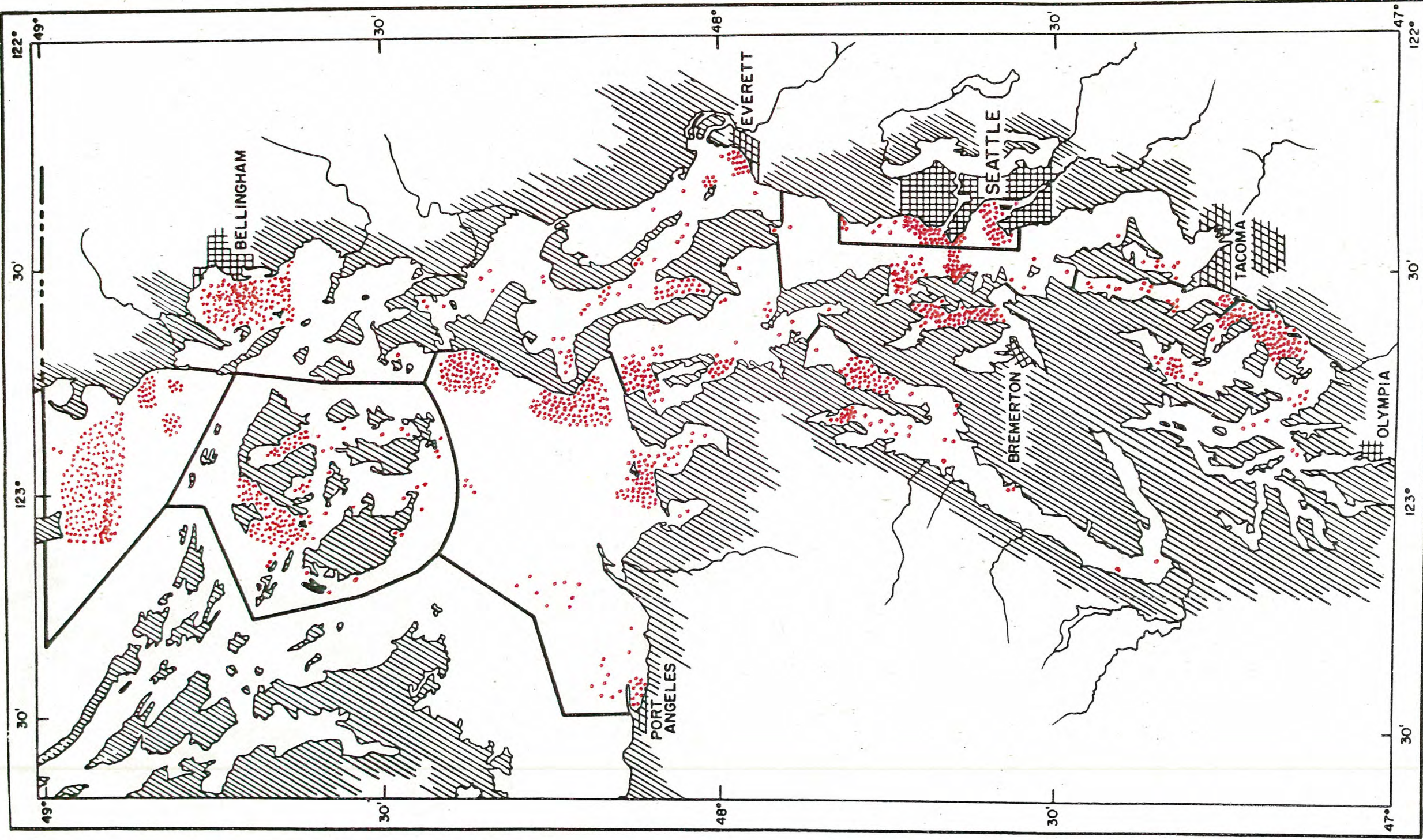
- 2-SJ (Iceberg Point, tidepool):  
 8/4/55-2; 8/22/60-1.  
 1-SJ (north side of Neck Point):  
 8/14/50-2.  
 3-SJ (Friday Harbor Lab):  
 6/23-30/60; 7/7/60; 8/4/60-1.  
 5-SJ (False Bay): 7/10/60; 8/5/60;  
 6/29/61; 7/26/61; 7/18/67.  
 2-SJ (Minnesota Reef):  
 7/11/60-2; 8/4/60-2.  
 4-SJ (Iceberg Point): 6/28/61-2;  
 7/19/63-2; 7/7/67; 6/30/69-3.  
 1-SJ (Friday Harbor): 7/25/61.  
 1-SJ: 5/62.

- 3-SJ (Deadman Bay):  
 6/22/63; 8/2/63; 7/11/67-1.  
 1-SJ (Hannah Heights): 7/6/67.  
 1-SJ (Cattle Point): 6/22/67.  
 1-SJ (Eagle Point): 7/5/67.  
 1-SJ (night light, Friday Harbor  
 Lab): 1969.  
 1-SJ (Iceberg Point, tidepool):  
 6/29/73-1.

Miscellaneous Logs

- 10+-PO (Clam Bay): L. Moulton,  
 personal communication, 1972.  
 1-GS (just south of Cherry Point):  
 Sea Grant, 72008.  
 1-PO (south and north of Fletcher  
 Bay): U.W. Ocean., Hoh, 1963-67.  
 1-JF (Sequim Bay):  
 Battelle, 1967-69.  
 1-JF (north of Gardiner, Discovery  
 Bay): Sea Grant, 71111.







*Gadus macrocephalus*Published Records

- 1-SS (Port Steilacoom):  
Suckley, 1860.
- 1-AI (Port Townsend):  
Suckley, 1860.
- 10+-JF (in Port Angeles Harbor):  
Smiley, 1885.
- 1-AI (Port Townsend): Bean, 1884.
- 2-JF (Discovery Bay; Port Angeles):  
Swan, 1887.
- 1-CS (near Quartermaster Harbor):  
Rathbun, 1894.
- 8-JF (large area northwest of  
Dungeness Spit): Greenwood, 1957  
(also NMFS, Cobb-25).
- 1-SJ (Blakely Island): Smith, 1937.
- 1-HC (Hoodsport): Smith, 1937.
- 4-GS: Smith, 1936.
- 7-B (Bellingham Bay): Smith, 1936.
- 5-E (Coupeville): Smith, 1936.
- 1-AI (Port Townsend): Smith, 1936.
- 2-JF (Sequim Bay; Port Discovery):  
Smith, 1936.
- 1-HC (Bangor): Smith, 1936.
- 1-SS (Hale Pass): Smith, 1936.
- 50+-GS (commercial fishing: large  
area west of Birch Bay and south  
of Point Roberts): Kelly, 1946.
- 50+-SJ (west of Orcas Island:  
fishing): Kelly, 1946.
- 50+-B (commercial fishing:  
Bellingham Bay): Kelly, 1946.
- 50+-JF (commercial fishing: west of  
Point Partridge): Kelly, 1946.
- 50+-HC (commercial fishing:  
Thorndike Bay area):  
Kelly, 1946.
- 2-E (Skagit and Similk Bays):  
Stober and Salo, 1970b.
- 3-S (Duwamish Head): Salo, 1969.
- 1-E (Port Gardner): Salo, 1969.
- 2-E (Kiket Island to Strawberry  
Point): Stober and Salo, 1970b.
- 50+-B (commercial fishing:  
Bellingham Bay): DiDonato, 1969.
- 50+-HC (commercial fishing):  
DiDonato, 1969.
- 3-CS (beach seine: south side of  
Point Jefferson): Kendall, 1966.
- 50+-JF (fishing areas: West Beach):  
Haw and Buckley, 1971.
- 50+-B (fishing area: Bellingham  
Bay): Haw and Buckley, 1971.
- 50+-GS (fishing area):  
Haw and Buckley, 1971.
- 50+-CP (sport fishing area: Tacoma  
Narrows): Haw and Buckley, 1971.
- 50+-SS (sport fishing areas: Tacoma  
to Anderson Island, especially  
just south of Point Fosdick):  
Haw and Buckley, 1971.
- 1-HC (Anderson Cove): Chew, 1970.
- 1-HC (fyke net: in Big Beef Harbor):  
Anderson and Chew, 1972.

## Gadidae

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- 2-PS: 205; 4747.
- 1-SJ (False Bay): 1176.
- 1-SJ (Blind Bay): 2250.
- 1-SJ (Waldron Island): 2888.
- 1-S (beach seine: spit near Ballard  
Locks): 4608.
- 1-S (Alki Point): 4903.
- 1-S (Edmonds): 5223.
- 1-SJ (west of Ram Island):  
5698 (also boat 491P).
- 2-S (off Golden Gardens):  
5730 (also boat 497E); 5843 (also  
boat 496C).
- 1-SJ (Iceberg Point tidepool):  
15346 (also Friday Harbor log,  
7/22/52-3).
- 1-SJ (north side Johns Island,  
second bay): 15347 (also Friday  
Harbor log, 8/19/52-2).
- 1-CS (beach seine: Cultus Bay):  
16493 (also boat 5217A).
- 1-CS (mid Port Madison):  
16494 (also boat 1/22/49-1).
- 1-SJ (East Sound):  
17064 (also boat 6/20/63).

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- 1-SJ (Upright Head): 6/28/51-1.
- 1-SJ (off Rocky Bay): 6/30/51-1.
- 1-SJ (Reef Bay, northeast side Johns  
Island): 7/5/51-1.
- 3-JF (west of McArthur Bank):  
7/12/51-1; 8/8/60; 7/8/69-1.
- 2-B (Bellingham Bay):  
7/26/51-2; 6/22/55.
- 1-B (south of Eliza Island):  
8/8/55-1.
- 1-SJ (Lopez Sound): 7/12/51-2.
- 1-SJ (south of Orcas Island):  
6/24/52.
- 1-SJ (Lopez Sound and East Sound):  
7/1/52.
- 1-SJ (east of Cattle Point):  
7/7/52-4.
- 2-SJ (West Sound): 7/9/52-3 (also  
boat 5220I); 6/26/61; 6/27/63-B.
- 1-SJ (off Fish Creek): 7/21/52-1.
- 1-SJ (west of Salmon Banks):  
7/22/52-2.
- 2-SJ (East Sound):  
8/11/52; 5/11/62.
- 1-SJ (East Sound or West Sound):  
7/25/55.
- 1-SJ (southeast of Cattle Point):  
8/3/55-2 (also boat 5520B).
- 1-SJ (off Iceberg Point):  
8/4/55-1 (also boat 5520C).
- 2-SJ (lower East Sound): 8/11/55-3;  
6/20/50-2 (also boat 5033I).
- 1-SJ (outside False Bay):  
8/17/55-2.



*Gadus macrocephalus*

## Gadidae

Friday Harbor Laboratory Log

- 1-SJ (east Roche Harbor):  
7/31/50-3.
- 1-SJ (Open Bay): 7/31/50-4.
- 1-SJ (north of Hunter Bay):  
6/19/50-5 (also boat 5033G).
- 1-SJ (Upright Head to Olga):  
8/1/60-2.
- 1-SJ (Smallpox Bay): 7/13/61.
- 1-SJ (south of Lopez Island):  
6/27/63-A.
- 1-SJ (Friday Harbor Lab):  
7/12/69-2.
- 1-SJ (west of Neck Point): 7/13/69.
- 4-SJ (mid East Sound):  
2/21/64; 4/3/64; 6/5/64; 7/11/64.

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- 1-GS (north of Alden Bank): 491G.
- 1-JF (Discovery Bay): 5318A.
- 2-JF (off Ediz Hook to Green Point):  
5705A,E.
- 1-JF (west of McArthur Bank):  
5520A.
- 1-SJ (off Johns Island): 491B.
- 1-B (Burrows Bay, east of Burrows  
Island): 5033S.
- 1-B (Bellingham Bay): 6822G.
- 9-B (training cruise area: southwest  
of Post Point): 6507G9; 6512G;  
6614G; 6630G; 6717G; 6815G;  
6826G; 6908G; 7010G.
- 3-SJ (training cruise area: East  
Sound, north of Rosario Point):  
6620H; 6717H; 6815H.
- 1-E (off Oak Harbor to Blower  
Bluff): 5220N.
- 8-E (Holmes Harbor, south of  
Classic): 5234E; 5237A,B; 5307H,  
M; 5316E; 5501E; 5611B.
- 5-E (Holmes Harbor, off Rocky Point  
to off Dines Point):  
5237E,F; 5307K; 5312H; 5237E.
- 10-E (Holmes Harbor):  
5305K,L; 5327B; 5405A,F; 5614E;  
5703E,H; 5810A; 5933G.
- 1-E (off Coupeville to off Lovejoy  
Point): 5316C.
- 2-E (off Utsalady Point): 5321C,E.
- 6-E (Saratoga Pass., Onamac Point to  
Indian Beach):  
5321L; 5330D; 5405L,N; 5418K,L.
- 3-E (Saratoga Pass., south of  
Snatelum Point to north of Onamac  
Point): 5330I; 5418H; 5712C.
- 3-E (in Elger Bay):  
5330J; 5405Q; 5418I.
- 1-E (Penn Cove): 5405I.
- 1-E (off Mukilteo): 5604C.
- 1-E (Saratoga Pass., off Cama Beach  
to off Lowell Point): 5712D.
- 1-E (Penn Cove mouth, off Long Point  
to off Snatelum Point): 5810G.
- 1-E (Mission Beach): 7204C.

- 2-E (training cruise area: Saratoga  
Pass, north of Langley):  
6614D; 7110D.
- 7-E (training cruise area: east of  
Gedney Island):  
6614C; 6620C; 6630C; 6815C;  
6819C; 6908C; 7213C.
- 1-E (south Saratoga Pass.): 6722X.
- 2-E (Saratoga Pass.):  
6821.5D; 6810C.
- 4-AI (training cruise area: east of  
north Marrowstone Island):  
6507J; 6603J; 6614J; 6630J.
- 1-AI (Oak Bay, north of Olele  
Point): 5009C.
- 1-HC (off Shine to off Sisters  
Light): 499C.
- 1-HC (off Thorndike Bay): 499J.
- 11-HC (Dabob Bay):  
5903B; 6105A,C; 6202C,E; 7205I,N;  
7102B,C; 7112A,B.
- 1-HC (west of Misery Point): 7202A.
- 11-HC (Dabob Bay, Broad Spit to Long  
Spit): 7202D,E,H,I; 7303B,C,D,F;  
6629H; 6724A; 6828A.
- 1-HC (off Pleasant Harbor): 6828E.
- 1-HC (west of Seabeck Bay): 6902J.
- 1-AI (trawling south from between  
Tala Point and Hood Head):  
6902M.
- 3-CS (mouth of Quartermaster  
Harbor): 5042A; 5104B; 5115H.
- 1-CS (mid Quartermaster Harbor):  
5042C.
- 3-CS (Port Madison):  
5043A; 5122A; 5932A.
- 2-CS (off Port Madison): 5043B,C.
- 1-CS (Tramp Harbor): 5104A.
- 1-CS (east of Blake Island): 5115I.
- 6-CS (off West Point): 5115J;  
6620B; 6626B; 6627B; 6705; 6706B.
- 1-CS (off Agate Pass.): 5232A.
- 1-CS (Fay Bainbridge State Park):  
5805A.
- 2-CS (mid-channel between Meadow  
Point and Port Madison):  
5516A; 5709B.
- 3-CS (east of Point Monroe):  
5805C; 5813B,C.
- 1-CS (beach seine: south of Fay  
Bainbridge State Park): 5806B.
- 36-CS (Murden Cove):  
6610A,B,C; 6612A; 6613A; 6616;  
6710A,A2,B2; 6711D; 6713C,D,G,H;  
6801B; 6806B; 6809A; 6818A,B,C;  
6821.5G; 6823-1,3; 6906B,C,D,E;  
6912; 4/4/73B; 7008B; 7016C,H;  
7108A,B,C,D.
- 6-CS (training cruise area: mid-  
channel, Skiff Point to West  
Point): 6819B; 6908B; 6603B;  
7307B; 7308B; 7313B.
- 1-CS (trap: Port Madison): 6213.
- 1-CS (Manchester): 6618.



*Gadus macrocephalus*

## Gadidae

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- 1-CS (off Sylvan Beach, Vashon Island): 6703A.  
 1-CS (east of Neill Point, Vashon Island): 6703C.  
 3-PO (south part of Agate Pass.): 495C; 4910B; 5401B.  
 15-PO (Agate Pass, buoy N4 to N6): 5048A; 5106E; 5131A; 5132C; 5206A; 5309C; 5310.1B; 5310.2E, .3D, .4F, .5C, .5F, .5J; 5414.1A; 6617B.  
 102-PO (off of Fletcher Bay to south of Battle Point to south of Brownsville): 5206B; 5223B; 5226B; 5228E,F; 5230F; 5232C; 5235P; 5236E; 5301A,B; 5302BB; 5303; 5306A; 5310.3B; 5315B; 5317A,B; 5402X; 5409.1; 5414.1C; 5421; 5422A,B,C,E; 5503A; 5504; 5507; 5523A,B; 5602A,B; 5615A,C; 5707A,B,G,H; 5709C; 5711A; 5809A,B; 5814; 5904A; 5906A; 5907A; 5910A; 5912A; 5915A,B; 5919A; 5922A; 5923A,B; 5924B; 5932B; 6001AM; 6003A; 6006A; 6008A,B; 6015A,B,C; 6016A1,A3,A5,B5; 6021A,B,C,D,E; 6100; 6101A; 6106; 6107; 6108; 6109A; 6111B; 6201; 6202.5; 6205D2,D3; 6307; 6317; 6320A; 6322.5; 6403AF; 6406C; 6425-1A,2A; 6427A,B; 6504; 6504.5; 6505A; 6507K; 6707; 6311.5; 6913.  
 13-PO (off south of Fletcher Bay): 5229A,C; 5413B,C,D,E,F; 5503B; 5801A,B,C; 6016B4; 6118A.  
 9-PO (off Seabold to off Manzanita): 5236B; 5310.1C,.1D,.2B,.2D,.4B,.5B,.5E; 6215A.  
 4-PO (between "B-2" and "B-1"): 5301C; 5236F; 5526A; 6205C3.  
 4-PO (off Battle Point and north): 5310.3A,.1A; 5422F,G.  
 1-PO (in Manzanita Bay): 5310.3C.  
 2-PO (Point Bolin to Keyport): 5310.4D,.4E.  
 1-PO (trap): 6305.2.  
 1-PO (Brownsville to White Point): 6806A.  
 30-PO (most probably off Fletcher Bay): 6007A,B; 6009A; 6214; 6312.5; 6407.2; 6415; 6419; 6711C; 6713A,E,F; 6715; 6716.5; 6801; 6806; 6821.5F; 7206; 7302A,B; 7313X; 6916H; 7011A,B; 7020; 7104-1,2; 7105-1,2; 7107.  
 44-S (off Golden Gardens to Meadow Point): 496C; 497E; 498A,B; 4910A; 5008C; 5009L; 5014C; 5017C; 5028A,C; 5029A,B; 5033A; 5034E,G; 5039A; 5112A,B,C; 5119G,H; 5126A; 5127A; 5129A,D; 5131C; 5132B; 5210D; 5314A,C; 5329C; 5408B; 5516C; 5702AN; 5704D; 5707J,K; 5713G; 5907D; 5920F; 6018A; 6112B; 6506C.  
 21-S (off Meadow Point to Carkeek Park): 5020A; 5039C,E; 5044A; 5110A; 5119B; 5203A,B; 5211B,C; 5212B,D,E; 5606A; 5915D; 5932C; 7119A,B; 7120A,B; 6510B.  
 20-S (beach seine: Golden Gardens to Meadow Point): 5024D; 5047A,C; 5105A; 5114B; 5116D1; 5129B; 5134A,B; 5137A,B; 5209D; 5215U,A,I,K,N; 5710B; 5807A,B.  
 4-S (beach seine: Carkeek Park): 5225A,B; 5231A; 5808B.  
 2-S (southwest of West Point to off Four-Mile Rock): 5602C; 6806C.  
 2-S (Alki Point to off Duwamish Head): 5702AM; 5802JJ.  
 2-S (off West Point, off sewer outfall): 6718-2,6.  
 2-S (Carkeek Park to Richmond Beach): 6719A,D.  
 1-S (Meadow Point to Richmond Beach): 6429B.  
 1-S (north of Carkeek Park): 6414E.  
 1-S (Golden Gardens): 6311A.  
 4-CP (off Camp Sealth): 5009E,F; 5104CC,DD.  
 1-CP (off Paradise Cove to Point Sanford): 5126N.  
 1-CP (west side, south of Command Point): 5133P.  
 1-CP (mid-channel, west of Cove): 5133Q.  
 1-CP (Olalla to Maplewood): 6703D.  
 1-SS (Hale Pass., Arletta to Cromwell): 5046B.  
 15-SS (off Glen Cove to off Cutts and Raft Islands): 5101B; 5102B; 5104O; 5201A; 5204A,B,C,D,E,K,L,M,N; 5213D; 5613H.  
 6-SS (northwest end of Nisqually Reach): 5126J; 5201C,M; 5204F,G,J.  
 1-SS (between Fox and Day Islands towing toward Toliva Shoal): 5201E.  
 1-SS (off Unsal Point, Dana Pass.): 5201J.  
 1-SS (Hale Pass., Wollochet Bay to Point Fosdick): 5201N.  
 1-SS (Dana Pass., Brisco Point to Dofflemeyer Point): 5204H.  
 2-SS (off Minter Creek to Elgin): 5227E; 5126F.  
 5-SS (Carr Inlet): 5522A,C; 5605B; 5703B,D.  
 1-SS (Carr Inlet, mid-channel, Glen Cove to Green Point): 6724B-3.  
 1-HC (Anderson Cove): 7009B.  
 1-CS (off West Point toward Murden Cove): 7017Y.  
 1-E (Port Susan, north of Kayak Point to Tulalip): 7112.



*Gadus macrocephalus*

## Gadidae

Miscellaneous Logs

- 1-AI (Port Gamble): Bill High,  
personal communication, 9/27/59.
- 15-HC: Bill High, personal  
communication, 12/30/66.
- 1-S (Duwamish River estuary):  
Metro, 1966-7C.
- 3-JF (off West Beach):  
WSDF, Sport Fish., 1965-70.
- 2-E (Skagit and Similk Bays):  
WSDF, Sport Fish., 1969.
- 3-E (Everett):  
WSDF, Sport Fish., 1965-70.
- 13+-S (Elliott Bay):  
WSDF, Sport Fish., 1965-70.
- 1-SS: WSDF, Sport Fish., 1965-70.
- 10+-HC: WSDF, Sport Fish., 1965-70.
- 18-S (off Duwamish Head to Alki  
Point): U.W. Ocean., 1964-67.
- 1-S (Meadow Point):  
U.W. Ocean., 1964-67.
- 11-E (Port Gardner Bay):  
U.W. Ocean., P.G., 1962-67.
- 43-PO (narrows, just south of  
Fletcher Bay):  
U.W. Ocean., P.O., 1964-65.
- 1-S (Golden Gardens):  
U.W. Ocean., Hoh, 1963-67.
- 9-PO (south and north of Fletcher  
Bay):  
U.W. Ocean., Hoh, , 1963-67.
- 1-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Hoh, 1963-67.
- 8-CS (Port Madison):  
U.W. Ocean., Hoh, 1963-68.
- 4-E (Port Gardner Bay):  
U.W. Ocean., Hoh, 1963-67.
- 2-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Commando, 1968.
- 1-PO (probably off Fletcher Bay):  
U.W. Ocean., Commando, 1968.
- 3-PO (south of Fletcher Bay): U.W.  
Ocean., herring trawl, 1968-69.
- 4-SJ (West Sound):  
U.W. Ocean., Hoh, S.J., 1966.
- 1-SJ (East Sound):  
U.W. Ocean., Hoh, S.J., 1966.
- 1-E (Penn Cove):  
U.W. Ocean., Hoh, S.J., 1966.
- 26-JF (Protection Island): WSDF,  
groundfish trawl, through 1970.
- 1-JF (off Green Point): WSDF,  
groundfish trawl, through 1970.
- 6-JF (Discovery Bay): WSDF,  
groundfish trawl, through 1970.
- 1-E (Holmes Harbor): WSDF,  
groundfish trawl, through 1970.
- 1-CP (Olalla): WSDF, groundfish  
trawl, through 1970.
- 10-AI (Port Townsend): WSDF,  
groundfish trawl, through 1970.
- 14-AI (Oak Bay): WSDF, groundfish  
trawl, through 1970.
- 1-AI (Useless Bay): WSDF,  
groundfish trawl, through 1970.
- 4-AI (Skunk Bay): WSDF, groundfish  
trawl, through 1970.
- 1-JF (Sequim Bay):  
Battelle, 1967-69.
- 1-AI (Foulweather Bluff to Liplip  
Point): WSDF, groundfish trawl,  
through 1970.
- 36-B (Bellingham Bay): WSDF,  
groundfish trawl, through 1970.
- 36-AI (east of Port Townsend and  
north of Marrowstone Island):  
NMFS, Cobb-35.
- 9-JF (west of Protection Island):  
NMFS, Cobb-35.
- 2-JF (Discovery Bay):  
NMFS, Cobb-35.
- 1-JF (Protection Island to Point  
Discovery): NMFS, Cobb-35.
- 2-PO (south of Fletcher Bay):  
NMFS, Cobb-68.
- 1-JF (mid-channel, north of Morse  
Creek): NMFS, Cobb-90.
- 1-S (north of Meadow Point):  
NMFS, Cobb-91.
- 1-JF (northwest of Dungeness Spit):  
NMFS, Cobb-92.
- 1-JF (Discovery Bay):  
NMFS, Cobb-75.
- 11-SJ (East Sound, south of Rosario  
Point): NIH, 1964-66.
- 2-SJ (East Sound): NIH, 1968-71.
- 1-S (Golden Gardens to Carkeek  
Park): NIH, 1968-71.
- 3-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 5-JF (off Port Angeles to off Morse  
Creek): NMFS, Cobb-25.
- 2-GS (tow area 1: Boundary Bay  
entrance):  
WSDF, G. Georgia, 1969-71.
- 12-GS (tow area 2: off Birch Bay):  
WSDF, G. Georgia, 1969-71.
- 20-GS (tow area 3: off Cherry  
Point):  
WSDF, G. Georgia, 1969-71.
- 8-GS (tow area 4: off north of  
Neptune Beach):  
WSDF, G. Georgia, 1969-71.
- 14-GS (tow area 5: north of Alden  
Bank):  
WSDF, G. Georgia, 1969-71.
- 17-GS (tow area 6: southeast of  
Point Roberts):  
WSDF, G. Georgia, 1969-71.
- 7-GS (tow area 7: mid-channel):  
WSDF, G. Georgia, 1969-71.
- 5-GS (tow area 8: mid-channel):  
WSDF, G. Georgia, 1969-71.
- 1-GS (tow area 9: mid-channel):  
WSDF, G. Georgia, 1969-71.
- 1-CS (south of Possession Point):  
NMFS, Cobb, 2/28/73.



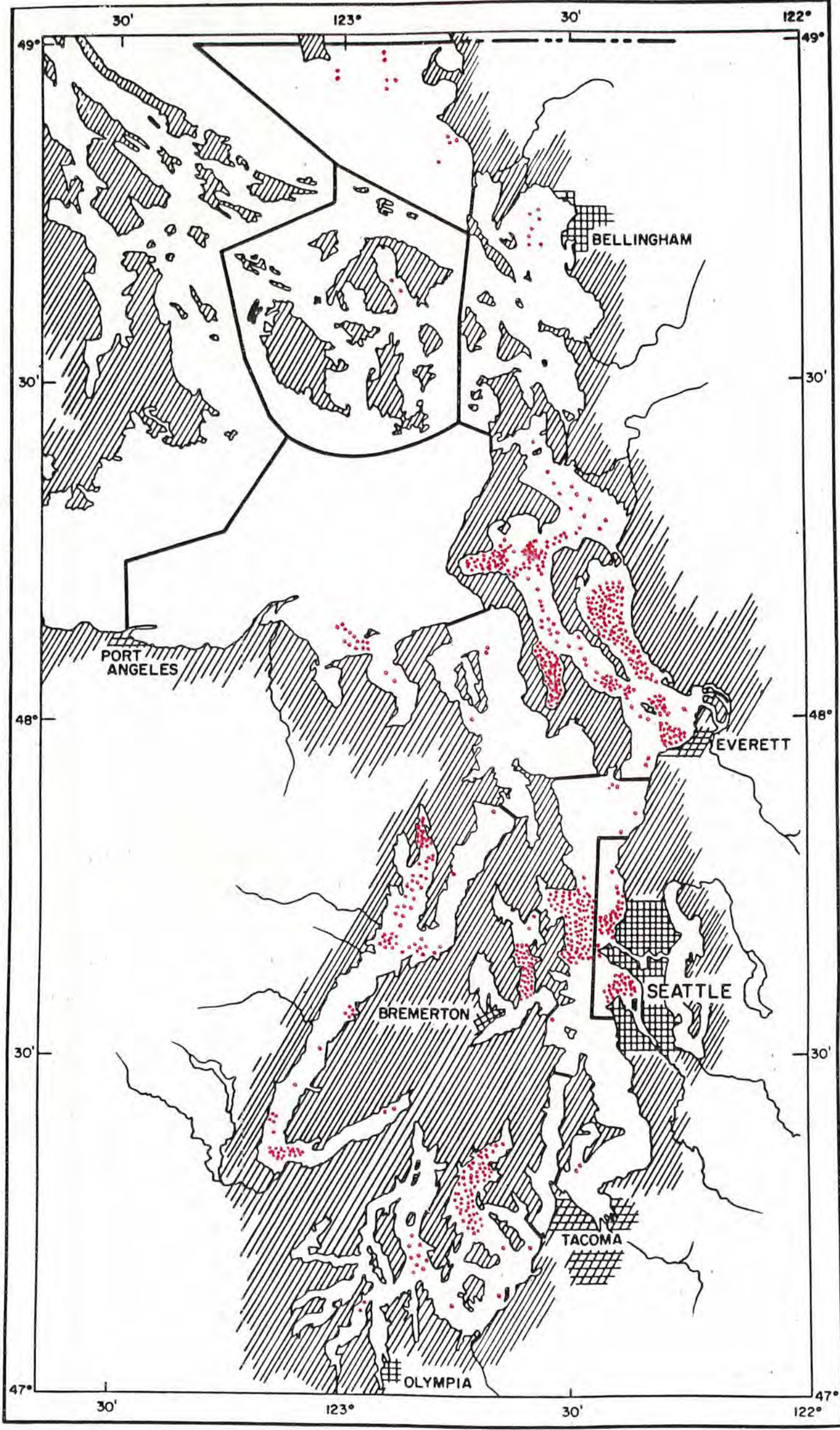
*Gadus macrocephalus*

Gadidae

Miscellaneous Logs

- 21-JF (west of Protection Island):  
NMFS, Cobb, 2/28/73.
- 3-CP (beach seine: Gig Harbor Spit):  
Sea Grant, 72003 (also boat  
7208).
- 1-CP (off Gig Harbor Spit): Sea  
Grant, 72003 (also boat 7208).
- 1-CP (mouth of Gig Harbor): Sea  
Grant, 72003 (also boat 7208).
- 2-S (beach seine: north side of West  
Point): Sea Grant, 1973.
- 4-S (off northwest side of West  
Point): Sea Grant, 1973.
- 2-S (off southwest side of West  
Point): Sea Grant, 1973.
- 1-S (deep trawl: off West Point):  
Sea Grant, 1973.
- 1-S (southwest of Alki Point):  
Sea Grant, 1973.
- 1-HC (off southwest of Big Beef  
Harbor): Sea Grant, 1973.
- 1-HC (off Skokomish River delta):  
Sea Grant, 1973.
- 2-AI (Mutiny Bay):  
Sea Grant, 73049.
- 23-CS (Port Madison): Doug Olander,  
Sport Catch, 1972-73.
- 2-S (south side of West Point):  
Doug Olander, Sport Catch,  
1972-73.
- 32-PO (south of buoy N6): Doug  
Olander, Sport Catch, 1972-73.
- 1-HC (Point Hannon to Hood Head):  
Doug Olander, Sport Catch,  
1972-73.
- 1-CS (south end of Bainbridge  
Island): Doug Olander, Sport  
Catch, 1972-73.
- 3-S (Edmonds breakwater): Doug  
Olander, Sport Catch, 1972-73.
- 1-CS (Neill Point to Point Dalco):  
Doug Olander, Sport Catch,  
1972-73.
- 1-SS (Cormorant Pass.):  
Sea Grant, 73060.
- 3-JF (Protection Island): WSDF,  
Commercial Catch Comp., 1966-71.
- 1-JF (Discovery Bay): WSDF,  
Commercial Catch Comp., 1966-71.
- 1-S (Edmonds wreck): Larry Moulton,  
Sport Catch, 6/25/73.







*Merluccius productus*

## Gadidae

Published Records

- 1-S (Duwamish Head): Rathbun, 1894.  
 1-S (Seattle): Rathbun, 1894.  
 1-CS (Orchard Point):  
     Jordan and Starks, 1896.  
 1-S (Seattle):  
     Evermann and Goldsborough, 1907.  
 1-PS: Starks, 1911.  
 3-B (Bellingham Bay): Smith, 1936.  
 5-E (Coupeville): Smith, 1936.  
 1-E (Camano Head): Smith, 1937.  
 2-E (Gedney Island): Smith, 1937.  
 3-HC (Hoodsport):  
     Smith, 1937 (also museum 3955).  
 3-HC (Skokomish Flats; Holly;  
     Quilcene Bay): Smith, 1937.  
 1-E (Skagit and Similk Bays):  
     Stober and Salo, 1970b.  
 1-S (Duwamish Head): Salo, 1969.  
 5-E (Port Gardner): Salo, 1969.  
 9-E (Skagit Bay): Salo, 1969.  
 2-E (between Kiket Island and  
     Strawberry Point):  
     Stober and Salo, 1970b.  
 50+-E (Port Susan):  
     Commercial Fish.; DiDonato, 1969.  
 50+-E: Haw and Buckley, 1971.  
 3-HC (Anderson Cove): Chew, 1970.

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- 1-E (Saratoga Pass., Camano Head):  
     2534.  
 1-E (east of Gedney Island): 2567.  
 1-E (off Snohomish River): 2627.  
 1-E (Saratoga Pass., Sandy Point):  
     2668.  
 1-E (Saratoga Pass., Watsak Point):  
     5211.  
 1-SS (off Minter Creek):  
     5659 (also boat 7/19/49-1).  
 1-CS (President Point): 7628.  
 1-CS: 15334.  
 1-E (Saratoga Pass.): 15493.  
 1-HC (lower Hood Canal): 19142.  
 1-E (training cruise area: east of  
     Gedney Island):  
     19161 (also boat 6630C).  
 1-CS (off West Point):  
     19635 (also boat 6628B).  
 1-E (Saratoga Pass., north of Holmes  
     Harbor): 19134.

Friday Harbor Laboratory Log

- 1-B (Bellingham Bay): 7/26/51-2.  
 1-SJ (mid East Sound): 2/21/64.  
 1-SJ (East Sound): 6/29/71-1.

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- 1-E (off Tulalip Bay): 7/1/49-1.  
 14-E (Holmes Harbor, off Rocky Point  
     to off Dines Point):  
     491Q; 5220D,0; 5234A,C; 5307C,K,  
     L,R,S; 5312H,I; 5327C,E.

- 6-E (Penn Cove entrance, off Long  
     Point to off Snatelum Point):  
     5213A; 5220E; 5321F; 5330H;  
     5810G; 7118.  
 2-E (off Oak Harbor to Blower  
     Bluff): 5220F,N.  
 12-E (mid Holmes Harbor, south of  
     Dines Point to Classic):  
     5234D; 5305C; 5312F,G,J; 5316A,B,  
     C; 5405G; 5501D; 5712E,F.  
 25-E (lower Holmes Harbor, south of  
     Classic):  
     5234E; 5237A,B; 5305A,B,G; 5307E,  
     F,H,P,T,U; 5312B,D,E,N; 5316E,M,  
     N; 5321T; 5501A,C,E,F; 5810E.  
 4-E (off Coupeville to off Lovejoy  
     Point): 5316I,J; 5321H; 5418E.  
 3-E (Saratoga Pass., Snatelum Point  
     to Onamac Point):  
     5316L; 5418H; 5712C.  
 44-E (Holmes Harbor): 5305H,I,J,K,  
     L; 5325A,B,C; 5327B; 5330A,B,C,M;  
     5405A,B,C,D,E; 5418A,B,C,D;  
     5420A,H; 5522D; 5604D,F,G; 5613O,  
     Q,R; 5614B,C,D,E,F,G,A; 5703E,G,  
     H; 5810A; 6821.5E; 7110D-2.  
 2-E (Saratoga Pass., Onamac Point to  
     Indian Beach): 5321K; 5405M.  
 17-E (Penn Cove):  
     5327G; 5330G; 5405K; 5418F,G;  
     5420E,F,G; 5522F,G; 5613U,W,X;  
     5614I,J; 5712A; 5810H.  
 2-E (off North Bluff to off  
     Greenbank): 5418M,N.  
 2-E (off Mukilteo): 5604C,B.  
 1-E: 5712B.  
 1-E (Saratoga Pass., Cama Beach to  
     Lowell Point): 5712D.  
 3-E (south end Saratoga Pass.):  
     6620E; 6722X,Y.  
 4-E (Saratoga Pass.):  
     6801.5; 6801B,C; 6821.5D.  
 1-E (north part Saratoga Pass.):  
     6821.5B.  
 19-E (training cruise area: east of  
     Gedney Island): 6507C8; 6517C;  
     6603C; 6614C; 6620C; 6717C;  
     6722C; 6815C; 6819C; 6826C;  
     6908C; 7010C; 7017C; 7110C;  
     7118; 7118C; 7213C; 7307C; 7313C.  
 14-E (training cruise area: off Penn  
     Cove): 6603E; 6614E; 6717E;  
     6815E; 6819E; 6826E; 6908E;  
     6914E; 7010E; 7017E; 7110E;  
     7118E; 7213E; 7313E.  
 1-E (Saratoga Pass., Saratoga to  
     Langley): 7118.  
 15-E (training cruise area: Saratoga  
     Pass., north of Langley):  
     6507D8; 6603D; 6614D; 6630D;  
     6717D; 6722D; 6815D; 6819D;  
     6826D; 7010D; 7017D; 7110D;  
     7118D; 7213D; 7307D.  
 1-E (Mission Beach): 7204C.  
 2-E (off north of Kayak Point):  
     7204A,B.



*Merluccius productus*

## Gadidae

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- 1-E (Everett): 6620D.  
 3-E (Port Susan, off Kayak Point): 6702A,B,C.  
 1-E (Saratoga Pass., off Camano Head): 6822D.  
 1-E (near Penn Cove): 6822E.  
 3-E (Port Susan): 6810A; 6821.5A,C.  
 3-E (Port Susan, north of Kayak Point to Tulalip): 7112.  
 1-E (Elger Bay): 7112.  
 2-AI (training cruise area: east of north Marrowstone Island): 6603J; 6630J.  
 1-HC (off Shine to off Sisters buoy): 499C.  
 10-HC (off Pleasant Harbor): 499E; 6804E; 6828E; 6902L; 7003I, J,K,L; 7102M; 7303G.  
 1-HC (off Union): 499H.  
 21-HC (Dabob Bay): 5921; 6013A,B; 6105A,B,C; 6202B,C,D,E; 7205I,M,N; 7102B,E,F,K,L,N,O; 7112.  
 1-HC (opposite Vinland): 7112C.  
 1-HC (mid-channel, Hoodspout to Potlatch): 6804D.  
 1-HC (south of Oak Head): 6601E.  
 2-HC (Anderson Cove): 7009A,B.  
 43-HC (Dabob Bay, Broad to Long Spit): 6503A,B,C,D,E,F,G,H; 6601A,C,D; 6629A,B,D,E; 6702E,F; 6724A; 6804B,G,H; 6807A,B; 6828B; 6902A,B,C,H; 7003A,B,C,D,G,H; 7202D,E,F,I,J; 7303B,C,D,E.  
 1-HC (northeast of Big Beef): 6902I.  
 5-CS (Port Madison): 5006D; 5048B; 5812A; 5924A; 5932A.  
 6-CS (off West Point): 5122D; 6620B; 6626B; 6605B; 6607B; 6627B.  
 1-CS (mid-channel, Meadow Point to Port Madison): 5709B.  
 1-CS (off Fay Bainbridge State Park): 5806C.  
 9-CS (training cruise area: mid-channel, Skiff Point to West Point): 6603B; 6819B; 6722B; 6914B; 7017B; 6614B; 7118B; 7307B; 7313B.  
 1-CS (Vashon Island, east of Neill Point): 6703C.  
 1-CS (mouth of Quartermaster Harbor): 5042A.  
 2-CS (off Murden Cove): 6710C2,D2.  
 7-CS (Murden Cove): 6713H; 7008B; 7016C,H; 7108; 6612A,B.  
 58-PO (off Fletcher Bay to south of Battle Point to south of Brownsville): 5228F; 5230F; 5236E; 5301B; 5310.3B,.5D; 5317A; 5413A; 5421; 5422A,D; 5503A; 5523A,B; 5602A,B; 5615A; 5707B; 5709C; 5711A; 5809A; 5814; 5901AK; 5904A,B,C; 5906A; 5907A; 5912A; 5915B; 5919A,B; 5922A; 5923A,B; 5924B; 5927C; 5932B; 6001AM,AN; 6006A; 6008A; 6016B1; 6021A; 6101A; 6109B; 6111B; 6201; 6202.5; 6205D1; 6307; 6320A; 6322.5; 6403AF; 6406C; 6427A,B; 6707.  
 7-PO (off south of Fletcher Bay): 5229A,C,D; 5413B; 5801B; 6016B4; 6118C.  
 1-PO (off Seabold to off Manzanita): 5236B.  
 1-PO (buoy N6 to N4): 6617B.  
 28-PO (most probably off Fletcher Bay): 6002A; 6007A,B; 6009A; 6214; 6419; 6515.5; 6711C; 6713E; 6716.5; 6801; 6821.5F; 6715; 6916D,H; 7011A,B,C; 7020; 7104-1, 2; 7107A,B; 7105-1,2; 7302A,B; 7313X.  
 1-PO (Brownsville to Point White): 6806A.  
 14-S (off Golden Gardens to Meadow Point): 492D; 494F; 4910A; 5014C; 5119G,H; 5126A; 5129A; 5314A; 5416B; 5920E,F; 5931A; 6114A.  
 3-S (beach seine: Golden Gardens to Meadow Point): 492E; 6319; 6518B.  
 4-S (off Meadow Point to Carkeek Park): 5212D; 5915C,D; 6414C.  
 1-S (off Alki Point toward Duwamish Head): 5603A.  
 2-S (off north of Carkeek Park): 6206C; 6414E.  
 2-S (Carkeek to Richmond Beach): 6719A,D.  
 3-S (off West Point sewer outfall): 6718-1,2,5.  
 1-S (Golden Gardens): 6311F.  
 20-SS (off Glen Cove to west of Raft and Cutts Islands): 5009J; 5037C; 5045K; 5101B; 5102A; 5104J,Q,Z; 5115F; 5126C; 5204B,C, D,E,K,L; 5213D; 5613A,D,F.  
 3-SS (mouth of Carr Inlet, southwest of Green Point): 5037A; 5104R,T.  
 3-SS (off Minter Creek to Elgin) 5045G; 5126D,F; 5135A; 5213F; 5104V.  
 1-SS (mouth of Carr Inlet, Gibson Point to Gertrude Island): 5046D.  
 2-SS (Carr Inlet, off Wauna and south): 5104E,G.  
 1-SS (northwest end of Nisqually Reach): 5126J.  
 1-SS (west of Ketron Island): 5126K.  
 1-SS (between Fox and Day Islands towing toward Toliva Shoal): 5201E.  
 1-SS (Carr Inlet, north of Home to Horsehead Bay Spit): 5201I.



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## Gadidae

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- 4-SS (Carr Inlet):  
5605A,B; 5703C,D.  
2-SS (Carr Inlet mid-channel Glen  
Cove to Green Point): 6724B-1,3.

Miscellaneous Logs

- 10+-S (Elliott Bay):  
WSDF, Sport Fish., 1965-70.  
5-HC: WSDF, Sport Fish., 1965-70.  
10-S (Duwamish Head to Alki Point):  
U.W. Ocean., 1964-67.  
50+-E (Port Gardner Bay):  
U.W. Ocean., P.G., 1962-67.  
23-PO (narrows, just south of  
Fletcher Bay):  
U.W. Ocean., P.O., 1964-65.  
5-S (Golden Gardens to Meadow  
Point):  
U.W. Ocean., Hoh, 1963-67.  
16-PO (south and north of Fletcher  
Bay): U.W. Ocean., Hoh, 1963-67.  
2-HC (Lynch Cove):  
U.W. Ocean., Hoh, 1963-67.  
1-HC (Seabeck):  
U.W. Ocean., Hoh, 1963-67.  
8-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Hoh, 1963-67.  
14-SS (Carr Inlet, off Horsehead  
Bay): U.W. Ocean., Hoh, 1963-67.  
24-CS (Port Madison):  
U.W. Ocean., Hoh, 1963-68.  
30-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.  
16-E (Port Gardner Bay):  
U.W. Ocean., Hoh, 1963-67.  
7-E (Penn Cove):  
U.W. Ocean., Hoh, 1963-67.  
15-E (Saratoga Pass., Demock Point):  
U.W. Ocean., Hoh, 1963-67.  
2-E (northwest of Brown Point):  
U.W. Ocean., Hoh, 1963-67.  
7-E (Holmes Harbor):  
U.W. Ocean., Hoh, 1963-67.  
2-CS (south of Possession Point):  
U.W. Ocean., Commando, 1968.  
3-CS (off Skiff Point):  
U.W. Ocean., Commando, 1968.  
2-SS (Case Inlet off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Commando, 1968.  
5-HC (near Seabeck):  
U.W. Ocean., Commando, 1968.  
4-E (Port Susan):  
U.W. Ocean., Commando, 1968.  
50+-CS (Skiff Point to Point  
Jefferson): U.W. Ocean., herring  
trawl, 1968-69.  
1-S (Elliott Bay): U.W. Ocean.,  
herring trawl, 1968-69.  
50+-SS (mouth of Carr Inlet): U.W.  
Ocean., herring trawl, 1968-69.  
50+-E (Port Susan): U.W. Ocean.,  
herring trawl, 1968-69.  
9-PO (south of Fletcher Bay): U.W.  
Ocean., herring trawl, 1968-69.  
2-E (Penn Cove):  
U.W. Ocean., Hoh, S.J., 1966.  
1-E (Utsalady):  
U.W. Ocean., Hoh, S.J., 1966.  
2-E (Port Gardner Bay):  
U.W. Ocean., Hoh, S.J., 1966.  
10-JF (Protection Island): WSDF,  
groundfish trawl, through 1970.  
2-JF (Discovery Bay): WSDF,  
groundfish trawl, through 1970.  
1-E (Holmes Harbor): WSDF,  
groundfish trawl, through 1970.  
1-AI (Oak Bay): WSDF, groundfish  
trawl, through 1970.  
1-HC (near the Great Bend):  
Al Millikan, personal  
communication, 1972.  
2-SS (Carr Inlet): Al Millikan,  
personal communication, 1972.  
50+-E (spawning ground: Port Susan):  
Al Millikan, personal  
communication, 1972.  
1-E (Holmes Harbor): WSDF,  
Commercial Catch Comp., 1969-70.  
1-E (Carr Inlet): WSDF, Commercial  
Catch Comp., 1969-70.  
4-SS (Carr Inlet): NMFS, Cobb-68.  
1-CS (Poverty Bay): NMFS, Cobb-68.  
1-E (Between Whidbey and Gedney  
Islands): NMFS, Cobb-68.  
3-E (Saratoga Pass.):  
NMFS, Cobb-68.  
3-E (Holmes Harbor): NMFS, Cobb-68.  
2-PO (south of Fletcher Bay):  
NMFS, Cobb-68.  
2-HC (outside Dabob Bay; off Ayoc  
Point): NMFS, Cobb-68.  
2-E (Holmes Harbor): NMFS, Cobb-70.  
2-E (Saratoga Pass., north of Holmes  
Harbor): NMFS, Cobb-71.  
1-CS (West Point to Port Madison):  
NMFS, Cobb-71.  
2-CS (northwest of Edmonds; off  
Norm Beach): NMFS, Cobb-71.  
1-CS (southeast of Port Madison):  
NMFS, Cobb-71.  
2-HC (off Hoodspoint; north of  
Lilliwaup): NMFS, Cobb-71.  
1-S (off Richmond Beach):  
NMFS, Cobb-71.  
1-SS (Henderson Bay, off north of  
Glen Cove): NMFS, Cobb-72.  
1-CS (Port Madison): NMFS, Cobb-72.  
1-CS (off Skiff Point):  
NMFS, Cobb-78.  
3-E (Port Susan): NMFS, Cobb-78.  
1-E (off Everett): NMFS, Cobb-78.  
1-HC (north of Seabeck Bay):  
NMFS, Cobb-78.  
4-E (Holmes Harbor): NMFS, Cobb-91.  
5-E (north end Saratoga Pass.):  
NMFS, Cobb-91.



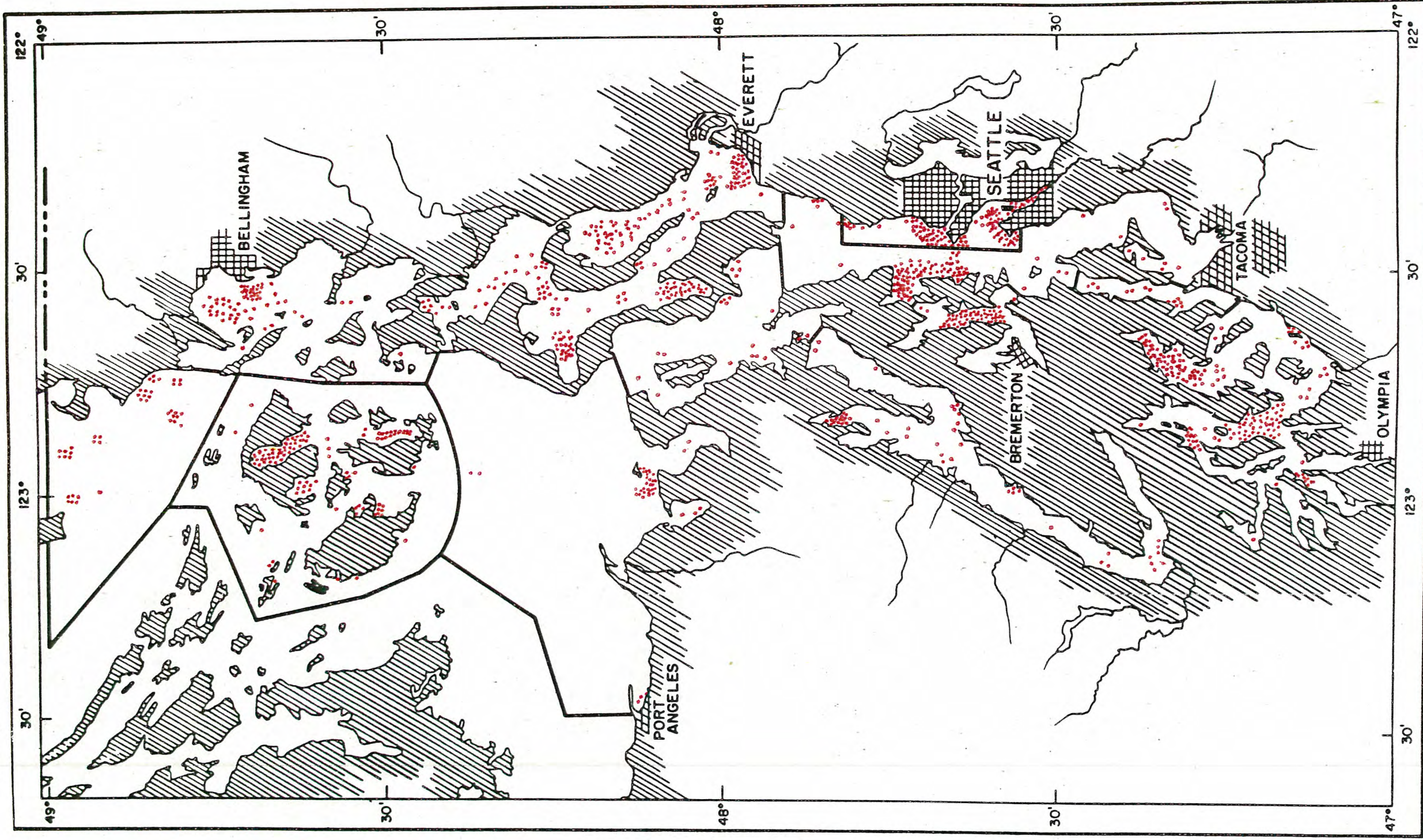
*Merluccius productus*

Gadidae

Miscellaneous Logs

- 1-S (off Golden Gardens):  
NMFS, Cobb-75.
- 2-SS (Carr Inlet; Case Inlet):  
NMFS, Cobb-75.
- 3-E (Everett Harbor):  
NMFS, Cobb, 1/20/61.
- 1-E (Saratoga Pass.):  
NMFS, Cobb, 1/20/61.
- 2-S (Meadow Point to Golden Gardens  
to Carkeek Park): NIH, 1968-71.
- 12-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 2-SS (entrance to Eld Inlet):  
Van Cleve, trap, 1961-65.
- 7-E (Holmes Harbor):  
Van Cleve, trap, 1961-65.
- 6-E (Saratoga Pass, west side just  
south of Penn Cove):  
Van Cleve, trap, 1961-65.
- 2-GS (tow area 1: Boundary Bay  
entrance):  
WSDF, Gulf Georgia, 1969-71.
- 3-GS (tow area 2: off Birch Bay):  
WSDF, Gulf Georgia, 1969-71.
- 2-GS (tow area 3: off Cherry Point):  
WSDF, Gulf Georgia, 1969-71.
- 1-S (beach seine: Golden Gardens):  
Sea Grant, 72023.
- 1-GS (tow area 5: north of Alden  
Bank):  
WSDF, Gulf Georgia, 1969-71.
- 2-GS (tow area 6: southeast of Point  
Roberts):  
WSDF, Gulf Georgia, 1969-71.
- 1-CS (south of Possession Point):  
NMFS, Cobb, 2/28/73.
- 1-HC (off Big Beef Harbor):  
Sea Grant, 72026.
- 1-E (east and northeast of Gedney  
Island):  
NMFS, Streeter, 2/21/73.
- 1-PO (off south of Fletcher Bay):  
Sea Grant, 73008.
- 10-HC (mid-channel, off Union):  
Sea Grant, 1973-74.
- 11-HC (mid-channel off Skokomish  
River delta):  
Sea Grant, 1973-74.
- 3-B (Bellingham Bay): Bill High,  
personal communication, 12/9/63.
- 1-AI: Bill High, personal  
communication, 12/9/63.
- 1-GS (Cherry Point): Bill High,  
personal communication, 12/30/66.







*Microgadus proximus*

## Gadidae

Published Records

- 1-JF (beach seine: Port Angeles):  
Gilbert, 1895.
- 1-AI (Port Ludlow): Starks, 1896b.
- 3-AI (Port Ludlow, near Colvos  
Rocks): Evermann and  
Goldsborough, 1907 (as corrected  
by Schultz and Welander, 1935).
- 1-S (Seattle):  
Evermann and Goldsborough, 1907.
- 1-SJ: Starks, 1911.
- 2-GS: Smith, 1936.
- 7-B (Bellingham Bay):  
Smith, 1936 (also museum 4571).
- 5-E (Coupeville) Smith, 1936.
- 1-JF (Sequim Bay): Smith, 1936.
- 1-SS (Hale Pass.): Smith, 1936.
- 2-SS (Carr Inlet; Dofflemeyer  
Point): Smith, 1937.
- 1-E (Camano Head): Smith, 1937.
- 2-HC (Hoodsport): Smith, 1937.
- 1-HC (Skokomish Flats):  
Smith, 1937.
- 2-E (Skagit and Similk Bays):  
Stober and Salo, 1970b.
- 4-E (Similk Bay):  
Stober and Salo, 1970a.
- 3-E Skagit Bay):  
Stober and Salo, 1970a.
- 10-S (Duwamish River estuary):  
Salo, 1969.
- 19-S (Duwamish Head): Salo, 1969.
- 17-E (Port Gardner Bay):  
Salo, 1969.
- 5-E (Skagit Bay): Salo, 1969.
- 6-E (between Kiki Island and  
Strawberry Point):  
Stober and Salo, 1970b.
- 1-B (Bellingham Bay):  
DiDonato, 1969.
- 1-B (Bellingham Bay, north of Eliza  
Island, townet): Tyler, 1964.
- 1-CS (beach seine: south side of  
Jefferson Point): Kendall, 1966.
- 2-HC (Anderson Cove): Chew, 1970.
- 1-HC (Fyke net in Big Beef Harbor):  
Anderson and Chew, 1972.
- 1-E (east of Gedney Island): 2568.
- 1-E (Saratoga Pass., Sandy Point):  
2659 1/2.
- 1-SJ: 3538.
- 1-E (Tulalip): 3667.
- 1-B (Bellingham Bay): 4241.
- 2-S (south of West Point):  
4369; 4405.
- 1-S (off Ballard Locks): 4376.
- 2-AI (Useless Bay): 4413; 4576.
- 2-AI (Bywater Bay): 4436; 14651.
- 1-S (beach seine: Alki Point):  
4515.
- 5-S (Edmonds Beach):  
4592; 5446; 5469; 5491; 10334.
- 1-CS (beach seine: Redondo Beach):  
4744.
- 1-B (Bellingham Bay): 4954.
- 1-SS (Carr Inlet): 5023.
- 1-SS (northwest end Nisqually  
Reach):  
5684 (also boat 7/20/49-5).
- 1-CS (off Port Madison):  
5728 (also boat 497B).
- 1-SJ (north East Sound):  
5759 (also boat 491M).
- 1-SS (Case Inlet, west of Herron  
Island): 5816 (also boat 5009G).
- 1-SJ (south of Spencer Spit):  
6037 (also boat 5033P).
- 1-B (east northeast of Vendovi  
Island): 6040.
- 1-SJ (beach seine: Friday Harbor):  
6221.
- 1-SS (Nisqually Reach): 8294.
- 4-S (off Golden Gardens):  
5685 (also boat 491A); 5841 (also  
boat 496C); 5729 (also boat  
497E); 6156.
- 7-S (beach seine: Golden Gardens to  
Meadow Point): 5773 (also boat  
5001); 5911 (also boat 5032.1C);  
5795 (also boat 5036A); 8293  
(also boat 492E); 15349 (also  
boat 5129B); 15350; 16492.
- 2-S (Edmonds) 4937; 5492.
- 1-CS (Redondo Beach): 4965.
- 1-S (Edwards Point to Point Wells):  
4981 and 4989.
- 3-S (Carkeek Park):  
5555; 5563; 5677.
- 1-S (Richmond Beach): 5583.
- 1-S (Golden Gardens): 5729.
- 1-S (beach seine: Carkeek Park):  
15348.
- 1-SS (Hale Pass., off Cromwell):  
15352 (also boat 5046B).
- 1-B (Saddlebag Island): 16690.
- 1-PO (off Fletcher Bay):  
17121 (also boat 6406C).

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- 1-HC (opposite Hoodsport):  
5784 (also boat 499F).
- 1-SJ (Davis Bay): 606.
- 5-S (Alki Point):  
759; 825; 4240; 4390; 4901.
- 1-SJ (Brown Island): 1117.
- 1-SJ (Waldron Island): 1502.
- 1-SJ (West Sound): 2239.
- 7-SJ (East Sound):  
2283; 17059 (also Friday Harbor  
Log 6/20/63); 17134; 18675;  
18676; 19452; 19564.
- 1-SJ (mid East Sound): 18674 (also  
Friday Harbor Log 6/5/64).
- 1-E (Camano Head, Saratoga Pass.):  
2533.

Friday Harbor Laboratory Log

- 1-B (south of Eliza Island):  
8/8/55-1.
- 1-B (off Inati Bay): 8/8/55-2.



*Microgadus proximus*

## Gadidae

Friday Harbor Laboratory Log

1-B (off Reil Harbor): 7/26/51-1.  
 1-SJ (south of Orcas Island):  
 6/24/52.  
 2-SJ (Lopez Sound and East Sound):  
 7/1/52; 7/11/63.  
 1-SJ (Reid Harbor, Stuart Island):  
 7/9/52-2 (also boat 5220H).  
 7-SJ (West Sound):  
 7/9/52-3 (also boat 5220I);  
 7/26/60-2; 8/13/60-2; 6/26/61;  
 6/27/63-B; 6/20/69-2; 7/6/71-2.  
 7-SJ (East Sound): 8/11/52;  
 7/6/60-2; 7/26/60-1; 8/13/60-1;  
 6/20/61; 5/11/62; 7/6/71-1.  
 2-SJ (north side Johns Island,  
 second bay): 8/19/52-1,2.  
 5-SJ (Lopez Sound):  
 7/28/55-1; 6/16/61; 7/13/60;  
 6/24/67; 7/8/69-2.  
 3-SJ (Squaw Bay):  
 8/1/55; 8/1/60-1; 7/10/61-1.  
 1-SJ (Brown Island): 8/2/55.  
 1-SJ (Upright Channel, Odlin Park):  
 8/1/55.  
 2-JF (west of McArthur Bank):  
 8/3/55-1; 7/8/59-1.  
 1-SJ (Trump Island to Decatur Head):  
 8/11/55-2.  
 1-SJ (outside False Bay):  
 8/17/55-2.  
 1-SJ (south of Neck Point):  
 8/14/50-1.  
 1-SJ (north of Hunter Bay):  
 6/19/50-5 (also boat 5033G).  
 1-SJ (West Sound and Lopez Sound):  
 6/27/60.  
 1-SJ (Upright Head to Olga):  
 8/1/60-2.  
 6-SJ (Argyle Bay): 8/11/60-3,4;  
 7/12/61-3,4; 7/15/63; 7/10/69-4.  
 1-SJ (Mitchell Bay): 8/16/60-1.  
 2-SJ (North Bay): 8/18/60-1,2.  
 1-SJ (Smallpox Bay): 7/13/61.  
 5-SJ (mid East Sound):  
 1/17/64; 2/21/64; 4/3/64;  
 7/11/64; 6/20/69-1.  
 1-SJ (Friday Harbor Lab night  
 light): 1969.  
 1-SJ (lower East Sound): 6/26/73-1.  
 1-SJ (Upright Head to Foster Point):  
 6/26/73-2.

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1-GS (north of Alden Bank): 491G.  
 2-SJ (south end of Lopez Sound):  
 491P; 5033R.  
 1-SJ (East Sound): 5033M.  
 1-SJ (between Puffin Island and  
 Orcas Island): 491E.  
 1-SJ (off Raccoon Point toward  
 Barnes Island): 491F.  
 1-SJ (Lopez Sound, south of Spencer  
 Spit): 5033P.

15-SJ (training cruise area: East  
 Sound, north of Rosario Point):  
 6603H; 6614H; 6620H; 6630H;  
 6717H; 6722H; 6815H; 6819H;  
 6908H; 6914H; 7010H; 7017H;  
 7118H; 7307H; 7313H.  
 3-SJ (training cruise area: Lopez  
 Sound, southwest of Center  
 Island): 7017I; 7118I; 7307I.  
 1-B (Hale Pass.): 491I.  
 1-B (east of Point Frances): 491J.  
 1-B (east of Burrows Island):  
 50335.  
 2-B (Bellingham Bay): 6715G, 6822G.  
 20-B (training cruise area:  
 Bellingham Bay, southwest of Post  
 Point): 6507G9; 6517G; 6603G;  
 6614G; 6620G; 6630G; 6717G;  
 6722G; 6815G; 6819G; 6822G;  
 6826G; 6908G; 6914G; 7010G;  
 7017G,G.1; 7118G; 7307G; 7313G.  
 1-E (Port Susan, off Spee-Bi-Dah):  
 5023D.  
 1-E (off Mission Beach): 5023F.  
 1-E (Penn Cove mouth, off Long Point  
 to off Snatelum Point): 5213A.  
 2-E (off Coupeville to off Lovejoy  
 Point): 5213B,C.  
 10-E (Holmes Harbor, south of  
 Classic): 5234E; 5305G; 5307F,U;  
 5312B,E,L,N; 5316E; 5501C.  
 4-E (Holmes Harbor, south of Dines  
 Point to off Classic):  
 5305C; 5312F; 5405G; 5501D.  
 3-E (mouth of Holmes Harbor, off  
 Rocky Point to off Dines Point):  
 5307K,R; 5312I.  
 3-E (Penn Cove):  
 5405K; 5522G; 5810H.  
 10-E (Holmes Harbor):  
 5305M; 5327A,B; 5405D; 5418B;  
 5522D; 5604G; 56130,Q; 5703E.  
 2-E (Saratoga Pass.):  
 6801.5; 6810B.  
 4-E (Saratoga Pass., Onamac Point to  
 Indian Beach): 5405L,M,N; 5418L.  
 1-E (off Mukilteo): 5604C.  
 1-E (Everett area): 5712B.  
 1-E (Saratoga Pass., Snatelum Point  
 to Onamac Point): 5712C.  
 11-E (training cruise area: east of  
 Gedney Island):  
 6517C; 6620C; 6630C; 6815C;  
 6819C; 6826C; 6908C; 7010C;  
 7017C; 7118C; 7213C.  
 1-E (training cruise area: Saratoga  
 Pass., north of Langley): 6630D.  
 4-E (training cruise area: off Penn  
 Cove):  
 6826E; 7010E; 7110E; 7118E.  
 2-E (Elger Bay): 7112K,L.  
 2-E (Port Susan, north of Kayak  
 Point to Tulalip): 7112.  
 1-AI (Oak Bay, north of Olele  
 Point): 5009C.



*Microgadus proximus*

## Gadidae

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- 2-AI (training cruise area: east of north Marrowstone Island): 6603J; 6630J.
- 1-HC (off Shine to off Sisters buoy): 499C.
- 4-HC (Dabob Bay): 6202A,C,F; 7102Q.
- 18-HC (Dabob Bay, Broad to Long Spit): 6702D,F; 6804F; 6902A; 6503A,B; 7003A,C,F,G,H; 7202D,H,I; 7303B,C,D,F.
- 1-HC (just south of floating bridge): 7112D.
- 1-HC (west of Seabeck Bay): 6902J.
- 3-HC (off Pleasant Harbor): 6902K; 7003I,J.
- 2-HC (Anderson Cove): 7009B,D.
- 1-CS (northeast of Apple Cove Point): 5009A.
- 1-CS (head of Quartermaster Harbor): 5042B.
- 1-CS (mid Quartermaster Harbor): 5042D.
- 5-CS (Port Madison): 5043A; 5122A; 5132D; 5812A; 6204B.
- 2-CS (off Port Madison): 5043B,C.
- 1-CS (Tramp Harbor): 5104A.
- 2-CS (mouth of Quartermaster Harbor): 5104B; 5115H.
- 1-CS (east of Blake Island): 5115I.
- 2-CS (Port Madison off Agate Pass.): 5310.2F; 5317C.
- 4-CS (east of Point Monroe): 5805C; 5813A,B,C.
- 4-CS (training cruise area: mid-channel Skiff Point to West Point): 7017B; 7118B; 7213B; 7313B.
- 27-CS (Murden Cove): 6610B,C; 6616; 6710A,B2,C2,D2; 6713D,G,H; 6801B; 6806B; 6809A; 6812D,E; 6818B; 6819X; 6821.5G; 6823-1,2; 6906D,E; 6912; 7008A; 3-7108.
- 3-CS (off West Point): 6626B; 6627B; 7017Y.
- 1-CS (Manchester): 6618.
- 2-CS (Vashon Island, off Sylvan Beach): 6703A,B.
- 1-CS (Vashon Island, east of Neill Point): 6703C.
- 2-PO (between buoy N4 and N6): 5131A; 5310.5J.
- 53-PO (off Fletcher Bay to south of Battle Point and Brownsville): 5206B; 5207D; 5223B; 5228F; 5230F; 5232C; 5235P; 5236E; 5301A,B; 5310.3B,.5G; 5317A,B; 5402X; 5523A,B; 5615A; 5707B,G,H; 5709C; 5711A; 5809A; 5915B; 5923B; 5924B; 6001AM,AN; 6006A; 6008A; 6016B1,A2,B2,B3,A4,B5; 6101A; 6111B; 6201; 6205D1,D3; 6317; 6320A,B; 6322.5; 6403AF; 6425-1A,2A; 6427A,B; 6507K; 6707.
- 2-PO (between "B-2" and "B-1"): 5301C; 6205C3.
- 7-PO (off south of Fletcher Bay): 5413C,D; 5801A,C; 6016B4; 6118A; 6119J.
- 2-PO (beach seine: 1 mile north of Illahee Dock): 6205A3.1,.2.
- 23-PO (most probably off Fletcher Bay): 5926A; 6002A; 6203C; 6204A; 6214; 6515-2; 6711B; 6713A,B,E,F; 6715; 6821.5F; 6916H; 7011A,B; 7020; 7104-2; 7105-1,2; 7107; 7302A; 7313X.
- 1-PO (Brownsville to White Point): 6806A.
- 45-S (off Golden Gardens to Meadow Point): 493B; 494C,E; 496B; 498B; 5008C; 5009L; 5017C,D; 5028A,C; 5029E; 5033A; 5034; 5110B,D; 5112A,B,C; 5119G,H; 5126A; 5127A; 5129C,D; 5131C; 5132A; 5203D; 5314A,C; 5329C; 5408B; 5516C; 5702AN; 5704E; 5707J,K; 5907D; 5920E,F; 5924C; 6010A; 6112B; 6114A,B.
- 17-S (off Meadow Point to Carkeek): 5020A; 5039B; 5041B; 5119A; 5203A; 5211B,C; 5212D,E,F; 5606A; 5915D; 6506C; 6510B; 7119A; 7120A,B.
- 1-S (Elliott Bay, off Four-Mile Rock to Pier 91): 5027C.
- 2-S (southwest of West Point to off Four-Mile Rock): 5027D; 6806C.
- 39-S (beach seine: Golden Gardens to Meadow Point): 5007D; 5015A; 5047A,B,C; 5105A; 5114A; 5127C; 5134A; 5137A,B; 5209C,D; 5320A; 5404A; 54150,P; 5424A,B; 5505D,E,F; 5508C,D; 5510E,F; 5513C,D; 5514C,D; 5710B; 5920M,N,O; 6311A,E,F; 6319; 6518A.
- 6-S (beach seine: Carkeek Park): 5221A,B,C; 5225A,B; 5231A.
- 1-S (off Alki Point toward Duwamish Head): 5702AM.
- 1-S (off north of Carkeek Park): 6206C.
- 7-S (beach seine: Alki Point to Duwamish Head): 6619.
- 1-S (training cruise area: south of West Point): 6819A.
- 1-S (Golden Gardens): 6511E.
- 1-S (off West Point): 6721A-2.
- 1-CP (south off Point Sandford): 7/18/49-1.
- 1-CP (west side south of Command Point): 5133P.
- 2-CP (off Cove): 5046A; 5133Q.
- 2-CP (off Camp Sealath): 5104CC,DD.
- 1-CP (off Cove to Fragaria): 5135E.
- 1-CP (off Paradise Cove to Point Sandford): 5126N.
- 1-SS (north end Pickering Pass. to off McLane Cove): 5009H.
- 2-SS (northwest end of Nisqually Reach): 5009I; 5126J.



*Microgadus proximus*

## Gadidae

University of Washington Boat Log

- 23-SS (off Glen Cove to Raft and Cutts Islands): 5009J; 5045A,B,K; 5101B; 5102B; 5104K,L,M,N,O,P,Y,Z,AA; 5115F; 5126M; 5213D; 5227B; 5613A,B,C,G.
- 1-SS (beach seine: Carr Inlet, west side of Cutts Island): 5037E.
- 20-SS (off Minter Creek to Elgin): 5037H; 5045G,J; 5046C; 5101C 5102C; 5104D,I,V,X; 5107A; 5126F; 5135A,C,D; 5213F; 5227D,E,G,I.
- 8-SS (Carr Inlet, off Wauna and south): 5037I; 5101A; 5104F,G,W; 5126L; 5227A,C.
- 1-SS (Carr Inlet, off north of Home to off Horsehead Bay Spit): 5104R.
- 1-SS (mouth of Carr Inlet, southwest of Green Point): 5104T.
- 1-SS (Oakland Bay, off Shelton): 5115B.
- 1-SS (Totten Inlet, Windy Point to Steamboat Island): 5115D.
- 1-SS (Eld Inlet, 1 mile northeast of Flapjack Point): 5115E.
- 1-SS (Case Inlet, off Victor): 5126G.
- 2-SS (Case Inlet, west of Herron Island): 5126H; 6724C.
- 1-SS (west of Ketron Island): 5126K.
- 3-SS (Carr Inlet): 5522C; 5605B; 5703D.
- 3-SS (Carr Inlet, Glen Cove to Green Point): 6724E-1,2,3.

Miscellaneous Logs

- 1-SJ (East Sound): DeLacy Log, 6/20/69.
- 2-S (beach seine: Duwamish River estuary): Metro, 1963-70.
- 5-S (trawl: Duwamish River estuary): Metro, 1966-70.
- 2-E (sport catch: Skagit and Similk Bays): WSDf, Sport Fish., 1965-70.
- 3-S (Elliott Bay): WSDf, Sport Fish., 1965-70.
- 1-SS: WSDf, Sport Fish., 1965-70.
- 50+-S (Duwamish Head to Alki Point): U.W. Ocean., 1964-67.
- 50+-E (Port Gardner Bay): U.W. Ocean., F.G., 1962-67.
- 256-PO (narrows, just south of Fletcher Bay): U.W. Ocean., F.O., 1964-65.
- 50+-S (Golden Gardens): U.W. Ocean., Hoh, 1963-67.
- 50+-PO (south and north of Fletcher Bay): U.W. Ocean., Hoh, 1963-67.
- 2-HC (Seabeck): U.W. Ocean., Hoh, 1963-67.
- 1-SS (Nisqually Flats): U.W. Ocean., Hoh, 1963-67.

- 50+-SS (Case Inlet, off Taylor Bay to off Whiteman Cove): U.W. Ocean., Hoh, 1963-67.
- 9-SS (Carr Inlet, off Horsehead Bay): U.W. Ocean., Hoh, 1963-67.
- 47-CS (Port Madison): U.W. Ocean., Hoh, 1963-68.
- 24-E (Port Gardner Bay): U.W. Ocean., Hoh, 1963-67.
- 28-E (Port Susan): U.W. Ocean., Hoh, 1963-67.
- 6-E (Penn Cove): U.W. Ocean., Hoh, 1963-67.
- 2-E (Saratoga Pass., Demock Point): U.W. Ocean., Hoh, 1963-67.
- 9-E (northeast of Rocky Point): U.W. Ocean., Hoh, 1963-67.
- 1-SS (Case Inlet, off Taylor Bay to off Whiteman Cove): U.W. Ocean., Commando, 1968.
- 21-CS (herring trawl: Skiff Point to Point Jefferson): U.W. Ocean., 1968-69.
- 1-S (herring trawl: Golden Gardens): U.W. Ocean., 1968-69.
- 3-SS (herring trawl: mouth of Carr Inlet): U.W. Ocean., 1968-69.
- 1-E (herring trawl: Port Susan): U.W. Ocean., 1968-69.
- 8-PO (herring trawl: south of Fletcher Bay): U.W. Ocean., 1968-69.
- 3-AI (Useless Bay; Port Townsend Bay; Skunk Bay): U.W. Ocean., Hoh, S.J., 1966.
- 2-JF (Discovery Bay): U.W. Ocean., Hoh, S.J., 1966.
- 1-B (Padilla Bay, near William Point): U.W. Ocean., Hoh, S.J., 1966.
- 1-SJ (West Sound): U.W. Ocean., Hoh, S.J., 1966.
- 6-SJ (East Sound): U.W. Ocean., Hoh, S.J., 1966.
- 7-E (Penn Cove): U.W. Ocean., Hoh, S.J., 1966.
- 4-E (Utsalady): U.W. Ocean., Hoh, S.J., 1966.
- 3-E (Port Susan): U.W. Ocean., Hoh, S.J., 1966.
- 2-E (Port Gardner Bay): U.W. Ocean., Hoh, S.J., 1966.
- 2-E (Holmes Harbor): U.W. Ocean., Hoh, S.J., 1966.
- 1-AI (Useless Bay): WSDf, groundfish trawl, through 1970.
- 8-B (Bellingham Bay): WSDf, groundfish trawl, through 1970.
- 1-E (Holmes Harbor): WSDf, Commercial Catch Comp., 1969-70.
- 1-SS (Carr Inlet): WSDf, Commercial Catch Comp., 1969-70.
- 3-SS (Case Inlet): WSDf, Commercial Catch Comp., 1969-70.



*Microgadus proximus*

## Gadidae

Miscellaneous Logs

- 1-AI (east of Port Townsend):  
NMFS, Cobb-35.
- 4-PO (south of Fletcher Bay):  
NMFS, Cobb-68.
- 2-HC (outside Dabob Bay; off Ayock Point): NMFS, Cobb-68.
- 1-B (Bellingham Bay near Eliza Island): NMFS, Cobb-68.
- 1-E (Saratoga Pass., north of Holmes Harbor): NMFS, Cobb-71.
- 1-CS (West Point to Port Madison):  
NMFS, Cobb-71.
- 1-CS (northwest of Edmonds):  
NMFS, Cobb-71.
- 1-SS (Case Inlet): NMFS, Cobb-75.
- 2-E (Everett Harbor):  
NMFS, Cobb, 1/20/61.
- 1-E (Elger Bay):  
NMFS, Cobb, 1/20/61.
- 19-SJ (East Sound, south of Rosario Point): NIH, 1964-66.
- 2-SJ (East Sound): NIH, 1968-71.
- 4-B (Bellingham Bay): NIH, 1968-71.
- 13-S (Golden Gardens to Carkeek Park): NIH, 1968-71.
- 1-S (Duwamish Head to Alki Point):  
NIH, 1968-71.
- 1-PO (Clam Bay): NIH, 1968-71.
- 1-HC (Big Beef Harbor): NIH, 69042.
- 1-SS (Case Inlet, Stretch Island to Herron Island): NIH, 1968-71.
- 6-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 3-PO (off Fletcher Bay):  
Van Cleve, trap, 1961-65.
- 14-SS (Eld Inlet entrance):  
Van Cleve, trap, 1961-65.
- 1-E (Holmes Harbor):  
Van Cleve, trap, 1961-65.
- 2-JF (beach seine: Port Angeles embayment):  
Peninsula College, 1971.
- 2-JF (lower Sequim Bay):  
Sea Grant, 71111.
- 7-GS (tow area 1: Boundary Bay entrance):  
WSDF, Gulf Georgia, 1969-71.
- 4-GS (tow area 2: off Birch Bay):  
WSDF, Gulf Georgia, 1969-71.
- 8-GS (tow area 3: off Cherry Point):  
WSDF, Gulf Georgia, 1969-71.
- 4-GS (tow area 4: off north of Neptune Beach):  
WSDF, Gulf Georgia, 1969-71.
- 8-GS (tow area 5: north of Alden Bank):  
WSDF, Gulf Georgia, 1969-71.
- 6-GS (tow area 6: southeast of Point Roberts):  
WSDF, Gulf Georgia, 1969-71.
- 1-GS (tow area 7: mid-channel):  
WSDF, Gulf Georgia, 1969-71.
- 1-SJ (Argyle Bay): Bruce Miller, Diving Log, 7/20/66.
- 20-JF (west of Protection Island):  
NMFS, Cobb, 2/28/73.
- 1-CS (south of Possession Point):  
NMFS, Cobb, 2/28/73.
- 4-CP (beach seine: Gig Harbor Spit):  
Sea Grant, 72003 (also boat 7208).
- 5-SS (Cormorant Pass.):  
Sea Grant, 73060, 73059.
- 2-CP (otter trawl: off Gig Harbor Spit): Sea Grant, 72003 (also boat 7208).
- 2-GS (off south of Cherry Point):  
Sea Grant, 72009.
- 3-S (Duwamish estuary):  
Sea Grant, 72010.
- 1-B (north Bellingham Bay):  
Sea Grant, 72004.
- 1-CS (beach seine: Seahurst Park):  
Sea Grant, 72013.
- 1-AI (beach seine: Mutiny Bay):  
Sea Grant, 72014.
- 3-GS (south off Cherry Point):  
Sea Grant, 72019.
- 1-S (beach seine: Golden Gardens):  
Sea Grant, 72023.
- 4-S (Duwamish estuary):  
Sea Grant, 72024.
- 1-CP (off Gig Harbor Spit):  
Sea Grant, 72025.
- 1-HC (off Big Beef Harbor):  
Sea Grant, 72026.
- 4-S (beach seine: Golden Gardens):  
Sea Grant, 72027.
- 6-S (beach seine: Golden Gardens):  
Sea Grant 72032.
- 3-AI (Mutiny Bay):  
Sea Grant, 73049.
- 1-AI (beach seine: Mutiny Bay launch ramp): Sea Grant, 72033.
- 3-B (Bellingham Bay, off Nooksack estuary): Sea Grant, 72035.
- 17-S (beach seine: north side of West Point): Sea Grant, 1973.
- 7-S (beach seine: south side of West Point): Sea Grant, 1973.
- 4-CS (beach seine: Meadowdale at Lunds Gulch): Sea Grant, 1973.
- 14-S (off northwest side of West Point): Sea Grant, 1973.
- 8-S (off southwest side of West Point): Sea Grant, 1973.
- 1-S (deep trawl: off West Point):  
Sea Grant, 1973.
- 7-S (north of Meadow Point to Carkeek Park): Sea Grant, 1973.
- 5-S (southwest of Alki Point):  
Sea Grant, 1973.
- 9-S (deep otter trawl: off southwest of Alki Point): Sea Grant, 1973.
- 4-PO (off south of Fletcher Bay):  
Sea Grant, 73008.
- 1-HC (beach seine: north of Vinland, Sea Grant, 73038.



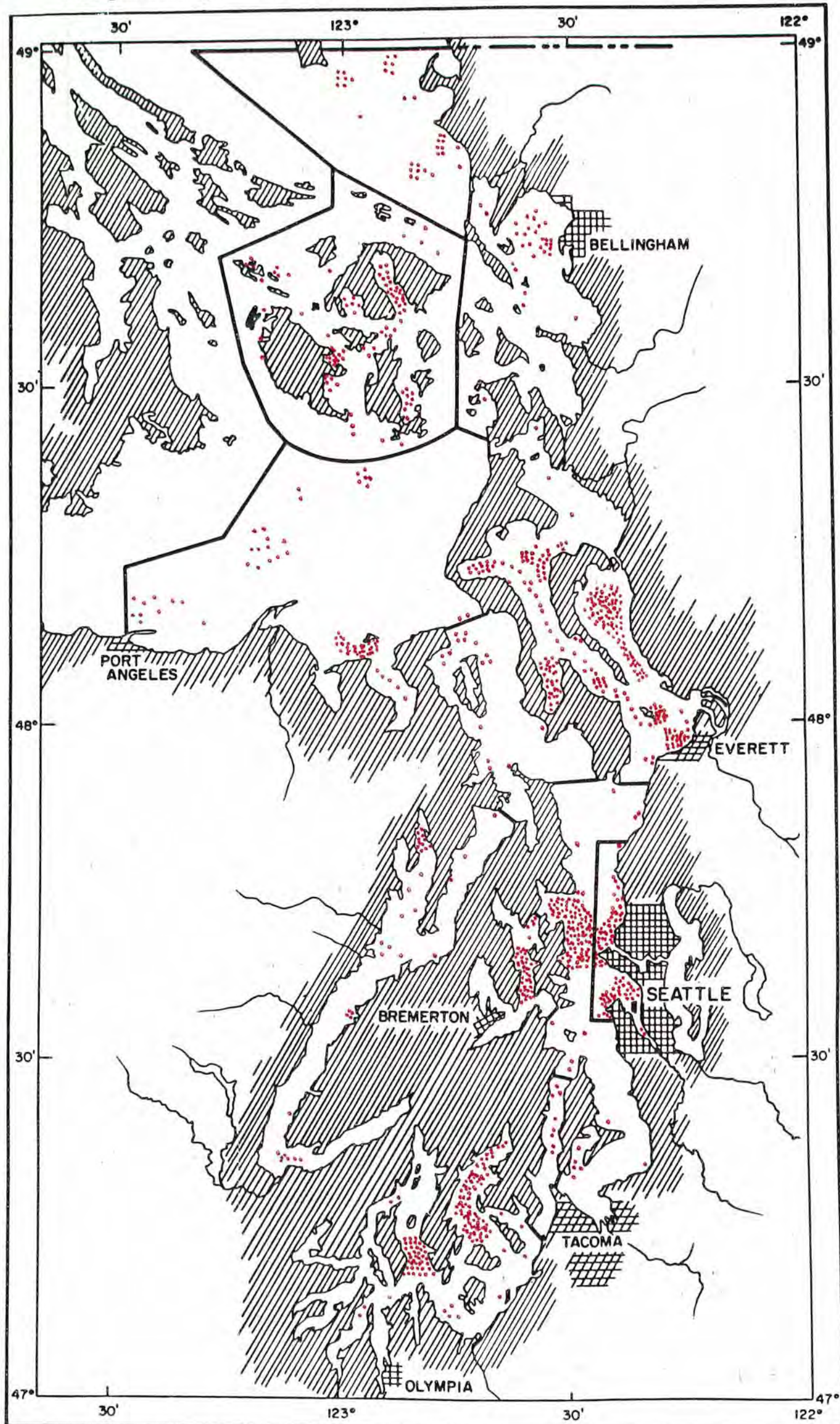
*Microgadus proximus*

Gadidae

Miscellaneous Log

- 2-S (Duwamish estuary, between 1st and 16th Ave. S. bridges):  
Sea Grant, 1973.
- 1-S (Duwamish estuary, downstream from 1st Ave. S. bridge):  
Sea Grant, 1973.
- 1-SS (off Nisqually River-McAllister Creek Delta): Sea Grant, 1973.
- 1-HC (off southwest of Big Beef Harbor): Sea Grant, 1973.
- 4-B (Bellingham Bay, off Nooksack River Delta): Sea Grant, 73032.
- 1-SS (McLane Cove toward Stretch Island): Sea Grant, 1973.
- 13-SS (mid-channel, McLane Cove to Stretch Island):  
Sea Grant, 1973-74.
- 3-HC (off Union): Sea Grant, 1973.
- 3-HC (mid-channel, off Union):  
Sea Grant, 1973-74.
- 1-HC (off Skokomish River Delta):  
Sea Grant, 1973.
- 2-HC (mid-channel, off Skokomish River Delta):  
Sea Grant, 1973-74.
- 3-SS (Tatsolo Point):  
Sea Grant, 73059.







*Theragra chalcogramma*

Gadidae

Published Records

- 1-S (Seattle):  
 Jordan and Gilbert, 1882.  
 1-SJ: Starks, 1911.  
 2-JF (mid Point Wilson to Admiralty Head):  
 Evermann and Goldsborough, 1907.  
 2-AI (Port Ludlow, north of Tala Point): Evermann and Goldsborough, 1907 (as corrected by Schultz and Welander, 1935).  
 2-GS (large area): Smith, 1936.  
 2-B (Bellingham Bay): Smith, 1936.  
 2-E (Coupeville): Smith, 1936.  
 2-E (Gedney Island): Smith, 1937.  
 5-JF (north of Dungeness Spit, large area near border): Greenwood, 1957 (also NMFS, Cobb-25).  
 2-E (Skagit and Similk Bays):  
 Stober and Salo, 1970b.  
 9-S (Duwamish Head): Salo, 1969.  
 2-E (Port Gardner Bay): Salo, 1969.  
 1-E (Skagit Bay): Salo, 1969.  
 1-B (Bellingham Bay):  
 DiDonato, 1969.  
 50+-E: Haw and Euckley, 1971.  
 2-HC (Anderson Ccve): Chew, 1970.

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- 2-SJ (Flat Point): 686; 2220.  
 11-SJ (Friday Harbor): 2109; 2194;  
 2205; 2295; 15338; 15339; 15340;  
 15341; 15342; 15344; 15345.  
 1-SJ (Brown Island): 2140.  
 1-SJ (West Sound): 2238.  
 1-SJ (East Sound): 2282.  
 1-E (Saratoga Pass., Camano Head):  
 2535.  
 1-E (east of Gedney Island): 2566.  
 1-E (off Snohomish River): 2626.  
 1-E (Saratoga Pass., Sandy Point):  
 2667.  
 1-SJ (Waldron Island): 2887.  
 1-S (beach seine: Alki Point):  
 4511.  
 1-S (south of Richmond Beach):  
 4713.  
 1-CS (off Port Madison):  
 5727 (also boat 497B).  
 2-S (off Golden Gardens):  
 5732 (also boat 497E); 5851 (also  
 boat 493B).  
 2-S (Golden Gardens):  
 5765 (also boat 5001); 5794 (also  
 boat 5036A).  
 1-CS (mid Port Madison):  
 5776 (also boat 492B).  
 1-HC (opposite Hoodspott):  
 5779 (also boat 499F).  
 1-B (east northeast of Vendovi  
 Island): 6042.  
 1-S (Edmonds): 7596.  
 1-S (beach seine: Golden Gardens):  
 8377 (also boat 5137A).

- 1-PO (Agate Pass.): 15335.  
 2-AI: 17024; 17025.  
 1-SJ (north part of East Sound):  
 5761 (also boat 491M).  
 1-SJ (west of Ram Island):  
 5697 (also boat 491P).  
 1-SJ (Roche Harbor): 2951.  
 1-SJ: 3544.  
 1-SJ (East Sound): 15343.  
 1-S (Meadow Point): 17150.  
 1-PO (off Fletcher Bay):  
 17119 (also boat 6406C).  
 2-JF (west of McArthur Bank):  
 17691; 17732 (also Friday Harbor  
 Log, 7/18/63-1; 7/19/63-1).

Friday Harbor Laboratory Log

- 2-B (Bellingham Bay):  
 7/26/51-2; 6/22/55.  
 1-B (south of Eliza Island):  
 8/8/55-1.  
 1-B (off Inati Bay): 8/8/55-2.  
 2-SJ (Upright Head):  
 6/28/51-1; 6/24/55-2.  
 1-SJ (off Rocky Bay): 6/30/51-1.  
 2-SJ (Lopez Sound):  
 7/12/51-2; 7/28/55-1.  
 1-B (Lummi Island, off Reil Harbor):  
 7/26/51-1.  
 1-SJ (south of Orcas Island):  
 6/24/52.  
 1-SJ (Lopez Sound and East Sound):  
 7/1/52.  
 3-JF (west of McArthur Bank):  
 7/7/52-1; 8/8/60; 7/8/69-1.  
 1-SJ (Stuart Island, Reid Harbor):  
 7/9/52-2 (also boat 5220H).  
 1-SJ (between Orcas Island and Matia  
 Island): 7/14/52-3.  
 5-SJ (West Sound): 7/9/52-3 (also  
 boat 5220I); 7/26/60-2;  
 8/13/60-2; 6/26/61; 6/27/63-B.  
 4-SJ (East Sound): 8/11/52;  
 7/26/60-1; 8/13/60-1; 7/6/71-1.  
 2-SJ (north side Johns Island,  
 second bay): 8/19/52-1,2.  
 9-SJ (Friday Harbor Lab.):  
 7/6/52; 7/7/52; 7/8/52; 7/13/52;  
 7/15/52; 7/16/52; 7/50; 8/4/61-2;  
 6/21/67-2.  
 1-SJ (Friday Harbor): 6/21/55.  
 1-SJ (East Sound or West Sound):  
 7/25/55.  
 1-SJ (southeast of Cattle Point):  
 8/3/55-2 (also boat 5520B).  
 1-SJ (off Iceberg Point):  
 8/4/55-1 (also boat 5520C).  
 1-JF (off Hein Bank): 8/3/55-3.  
 1-SJ (west of Center Island):  
 8/11/55-1.  
 1-SJ (Mitchell Bay): 8/16/60-1.  
 3-SJ (lower East Sound):  
 8/11/55-3; 8/22/55-5; 6/20/50-2  
 (also boat 5033I).



*Theragra chalcogramma*

## Gadidae

Friday Harbor Laboratory Log

- 2-SJ (south of Satellite Island):  
8/15/55-1,2.  
1-SJ (Mud Bay): 8/15/55-3.  
4-SJ (Argyle Bay): 8/16/55-1;  
7/8/61; 7/12/61-3; 7/18/61-2.  
1-SJ (mid East Sound): 8/22/55-7.  
1-SJ (Johns Island): 7/10/50-1.  
1-SJ (Satellite Island): 7/10/50-3.  
1-SJ (west of Gcose Island):  
7/13/50-5.  
1-SJ (north of Hunter Bay):  
6/19/50-5 (also boat 5033G).  
1-SJ (east of Puffin Island):  
6/20/50-4 (also boat 5033K).  
1-SJ (West Sound and Lopez Sound):  
6/27/60.  
2-SJ (Upright Head to Olga):  
8/1/60-2; 7/10/61-2.  
2-SJ (North Bay): 8/18/60-1,2.  
1-PS (Cattle Point to Smith Island):  
6/28/61-1.  
1-SJ (Squaw Bay): 7/10/61-1.  
1-SJ (Smallpox Bay): 7/13/61.  
1-SJ (south of Lopez Island):  
6/27/63-A.  
1-SJ (Cattle Point): 6/23/67-1.  
1-SJ (west of Neck Point): 7/31/69.  
1-SJ (off Friday Harbor): 8/22/69.  
1-SJ (lower East Sound): 6/26/73-1.  
1-SJ (Upright Head to Foster Point):  
6/26/73-2.

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- 1-GS (north of Alden Bank): 491G.  
1-SJ (off Johns Island): 491B.  
1-SJ (between Puffin Island and  
Orcas Island): 491E.  
1-SJ (off Raccocn Point toward  
Barnes Island): 491F.  
1-SJ (East Sound): 5033M.  
1-SJ (Lopez Sound, west of Ram  
Island): 5033R.  
1-SJ (training cruise area: East  
Sound, north of Rosario Point):  
6603H.  
2-SJ (training cruise area: Lopez  
Sound, southwest of Center  
Island): 7017I; 7118I.  
1-B (Burrows Bay, east of Burrows  
Island): 5033S.  
1-B (Bellingham Bay): 6822G.  
10-B (training cruise area:  
Bellingham Bay, southwest of Post  
Point): 6603G; 6614G; 6620G;  
6630G; 6717G; 6722G; 6815G;  
6819G; 6826G; 7313G.  
2-E (Penn Cove mouth, off Long Point  
to Snatelum Point):  
5213A; 5321F.  
2-E (north end Saratoga Pass., south  
from Point Polnell):  
5220M; 6821.5B.  
4-E (mouth of Holmes Harbor, off  
Rocky Point to off Dines Point):  
5234C; 5312I; 5327C,E.

- 5-E (Holmes Harbor, Dines Point to  
Classic): 5234D; 5305C; 5405G;  
5501D; 5712E.  
5-E (Holmes Harbor, south of  
Classic):  
5305B; 5307F; 5312E; 5316D,E.  
14-E (Holmes Harbor): 5305E,M;  
5325B,C; 5327B; 5405B,D; 5418A,B;  
5420A; 56130,Q; 5614D; 5810A.  
2-E (off Utsalady Point): 5321C,D.  
2-E (Saratoga Pass., Onamac Point to  
Indian Beach): 5321K; 5330D.  
3-E (Saratoga Pass., Snatelum Point  
to Onamac Point):  
5330I; 5418H; 5712C.  
2-E (in Elger Bay): 5330J; 5418I.  
6-E (Penn Cove):  
5405K; 5522G; 5613U,W,X; 5712A.  
1-E: 5712B.  
3-E (off Mukilteo): 5604A,C,B.  
1-E (Saratoga Pass., Cama Beach to  
Lowell Point): 5712D.  
19-E (training cruise area: east of  
Gedney Island):  
6507C8; 6603C; 6614C; 6620C;  
6630C; 6717C; 6722C; 6815C;  
6819C; 6826C; 6908C; 7010C;  
7017C; 7110C; 7118C; 7213C;  
7307C; 7313C; 6914C.  
9-E (training cruise area: off Penn  
Cove): 6614E; 6717E; 6815E;  
6819E; 6826E; 7010E; 7110E;  
7118E; 7213E.  
1-E (off north of Kayak Point, Port  
Susan): 7204A.  
10-E (training cruise area: Saratoga  
Pass., north of Langley):  
6614D; 6630D; 6722D; 6819D;  
6826D; 6914D; 7010D; 7110D;  
7213D; 7307D.  
2-E (south end of Saratoga Pass.):  
6620E; 6722Y.  
3-E (Port Susan, off Kayak Point):  
6702A,B,C.  
1-E (Port Susan): 6821.5C.  
4-E (Saratoga Pass.):  
6801.5; 6810B,C; 6821.5D.  
1-E (Saratoga Pass., off Camano  
Head): 6822D.  
1-E (near Penn Cove): 6822E.  
1-JF (Discovery Bay): 5318A.  
1-JF (west of McArthur Bank):  
5520A.  
3-AI (training cruise area: east of  
north Marrowstone Island):  
6507J; 6603J; 6614J.  
1-AI (Oak Bay, north of Olele  
Point): 5009C.  
1-AI (just south of Foulweather  
Bluff on east side of Hood  
Canal): 7112E.  
1-HC (off Shine to off Sisters  
Buoy): 499C.  
1-HC (off Thorndike Bay): 499J.  
4-HC (Dabob Bay): 6105A,B,C; 7102B.



*Theragra chalcogramma*

## Gadidae

University of Washington Boat Log

- 1-HC (west of Misery Point): 7202A.  
 3-HC (off Pleasant Harbor):  
 6804E; 6902L; 7102M.  
 13-HC (Dabob Bay, Broad Spit to Long Spit):  
 7202D,E,F,H; 6601A; 6804F; 6828A,  
 B; 6902D; 6629E; 6702D,F; 6724A.  
 2-HC (Anderson Cove): 7009A,B.  
 1-HC (opposite Vinland): 7112C.  
 5-CS (Port Madison): 5006D; 5048B;  
 5132D; 6203A; 7011C.  
 1-CS (northeast of Apple Cove Point): 5009A.  
 3-CS (mouth of Quartermaster Harbor): 5042A; 5104B; 5115H.  
 1-CS (mid Quartermaster Harbor): 5042D.  
 1-CS (off Port Madison): 5043C.  
 1-CS (Tramp Harbor): 5104A.  
 1-CS (off Point Jefferson): 5112D.  
 1-CS (east of Blake Island): 5115I.  
 9-CS (off West Point): 5122D;  
 6605B; 6606B; 6607B; 6611B;  
 6620B; 6626B; 6628B; 7017Y.  
 2-CS (Meadow Point to Port Madison): 5709B; 5911B.  
 4-CS (east of Point Monroe): 5805C; 5813A,B,C.  
 14-CS (training cruise area: mid-channel, Skiff Point to West Point): 6507B8; 6603B; 6614B; 6815B; 6819B; 6914B; 7017B,Z; 7110B; 7118B; 7213B; 7307B; 7308B; 7313B.  
 1-CS (Manchester): 6618.  
 1-CS (Vashon Island, east of Neill Point): 6703C.  
 2-CS (Vashon Island, off Sylvan Beach): 6703A,B.  
 15-CS (Murden Cove): 6610B,C; 6616; 6710B2,C2; 6713G,H; 6809A; 6818B; 6819X; 6821.5G; 6912; 3-7108.  
 3-PO (buoy N4 to N6): 5106E; 5131A; 5310.5C.  
 22-PO (off Fletcher Bay to south of Battle Point and Brownsville): 5223B; 5232C; 5236E; 5302BB; 5310.3B; 5317A; 5402X; 5523A; 5602A,B; 5707B,G; 5709C; 5809A; 5932B; 6016B5; 6109B; 6205D1,D2,D3; 6320A; 5523A.  
 1-PO (between "B-2" and "B-1"): 5301C.  
 1-PO (off Manzanita to off Seabold): 5310.1D.  
 2-PO (off south of Fletcher Bay): 5801A,C.  
 13-PO (most probably off Fletcher Bay): 6214; 6604B; 6821.5F; 7011B; 7020; 7104-1; 7105-1,2; 7107A,B; 7302A,B; 7313X.  
 1-PO (Brownsville to White Point): 6806A.  
 43-S (off Golden Gardens to Meadow Point):  
 494F; 496B; 498B; 4910A; 5008C; 5014C; 5017C; 5028A,C; 5029B,E; 5033A; 5034E; 5039A,D; 5041B; 5110D; 5112A,B; 5119G,H; 5126A; 5127A; 5129A,C; 5203D; 5233D; 5314A,C; 5329C,D; 5408B; 5416B; 5516C; 5702AN; 5704E; 5707J,K; 5713G; 6005C; 6112B; 6114A,B.  
 1-S (south off West Point to off Four-Mile Rock): 5027D.  
 15-S (off Meadow Point to Carkeek Park):  
 5020A; 5039C; 5044A; 5110A; 5203A,B; 5211C; 5212C,D,E; 5216B; 5606A; 5915D; 6414C; 6510B.  
 14-S (beach seine: Golden Gardens to Meadow Point): 5047A,C; 5134A,B; 5137B; 5209C,D; 5328A; 5417A; 2-6310; 6518A,B; 5007D.  
 1-S (beach seine: Carkeek Park): 5231A.  
 2-S (Alki Point to Duwamish Head): 5603A; 5702AM.  
 1-S (off north of Carkeek Park): 6206C.  
 2-S (Golden Gardens): 6311E,F.  
 1-S (north of Meadow Point): 6406A.  
 3-S (off West Point sewer outfall): 6718-1,4,5.  
 1-S (1 mile southwest of West Point): 6806C.  
 2-S (Carkeek Park to Richmond Beach): 6719A,D.  
 1-S (Meadow Point to Richmond Beach): 6429B.  
 2-CP (off Cove): 5046A; 5133Q.  
 1-CP (off Paradise Cove to Point Sandford): 5126N.  
 1-CP (west side south of Command Point): 5133P.  
 2-CP (off Camp Sealath): 5104CC,DD.  
 1-CP (Cove to Fragaria): 5135E.  
 1-SS (north end Pickering Pass. to off McLane Cove): 5009H.  
 4-SS (northwest end of Nisqually Reach): 5009I; 5126J; 5204F,G.  
 18-SS (Carr Inlet, off Glen Cove to off Raft and Cutts Islands): 5009J; 5101B; 5102B; 5104L,N,O,Y,Z; 5115F; 5204A,B,C,E,K,L,M,N; 5213D.  
 6-SS (Carr Inlet, off Minter Creek, to Elgin): 5045J; 5102C; 5104V; 5135A; 5201P; 5213F.  
 1-SS (Hale Pass., Arletta to Cromwell): 5046B.  
 1-SS (mouth of Carr Inlet, Gibson Point to Gertrude Island): 5046D.  
 3-SS (off Wauna): 5101A; 5104G,W.  
 1-SS (Carr Inlet mouth, southwest of Green Point): 5104T.



*Theragra chalcogramma*

## Gadidae

University of Washington Boat Log

- 1-SS (west of Ketron Island):  
5126K.
- 1-SS (between Fox and Day Islands,  
towing toward Toliva Shoal):  
5201E.
- 1-SS (Hale Pass., Wollochet Bay to  
Point Fosdick): 5201N.
- 1-SS (Dana Pass., Brisco Point to  
Dofflemeyer Point): 5204H.
- 5-SS (Carr Inlet):  
5522C; 5605A,B; 5703C,D.
- 1-SS (trap, Eld Inlet entrance):  
6217-3.
- 3-SS (Carr Inlet, mid Glen Cove to  
Green Point): 6724B-1,2,3.

Miscellaneous Logs

- 1-E (Everett):  
WSDF, Sport Fish., 1965-70.
- 10+-S (Sport Catch; Elliott Bay):  
WSDF, Sport Fish., 1965-70.
- 4-HC (Sport Catch):  
WSDF, Sport Fish., 1965-70.
- 50+-S (Duwamish Head to Alki Point):  
U.W. Ocean., 1964-67.
- 50+-E (Port Gardner Bay):  
U.W. Ocean., P.G., 1962-67.
- 50+-PO (just south of Fletcher Bay):  
U.W. Ocean., P.O., 1964-65.
- 11-S (Golden Gardens):  
U.W. Ocean., Hoh, 1963-67.
- 1-S (Spring Beach):  
U.W. Ocean., Hoh, 1963-67.
- 1-S (Meadow Point):  
U.W. Ocean., Hoh, 1963-67.
- 19-PO (south and north of Fletcher  
Bay): U.W. Ocean., Hoh, 1963-67.
- 35-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Hoh, 1963-67.
- 6-SS (Carr Inlet, off Horsehead  
Bay): U.W. Ocean., Hoh, 1963-67.
- 35-CS (Port Madison):  
U.W. Ocean., Hoh, 1963-68.
- 1-CS (Norma Beach):  
U.W. Ocean., Hoh, 1963-68.
- 16-E (Port Gardner Bay):  
U.W. Ocean., Hoh, 1963-67.
- 30-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.
- 7-E (Penn Cove):  
U.W. Ocean., Hoh, 1963-67.
- 15-E (Saratoga Pass., Demock Point):  
U.W. Ocean., Hoh, 1963-67.
- 2-E (northeast of Rocky Point):  
U.W. Ocean., Hoh, 1963-67.
- 1-E (Holmes Harbor):  
U.W. Ocean., Hoh, 1963-67.
- 1-CS (off Skiff Point):  
U.W. Ocean., Commando, 1968.
- 3-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Commando, 1968.

- 43-CS (herring trawl, Skiff Point to  
Point Jefferson):  
U.W. Ocean., 1968-69.
- 1-S (herring trawl, Elliott Bay):  
U.W. Ocean., 1968-69.
- 44-SS (herring trawl, mouth of Carr  
Inlet): U.W. Ocean., 1968-69.
- 50+-E (herring trawl, Port Susan):  
U.W. Ocean., 1968-69.
- 14-PO (herring trawl, south of  
Fletcher Bay):  
U.W. Ocean., 1968-69.
- 3-AI (Port Townsend Bay):  
U.W. Ocean., Hoh, S.J., 1966.
- 1-B (Samish Bay):  
U.W. Ocean., Hoh, S.J., 1966.
- 2-B (Lummi Bay):  
U.W. Ocean., Hoh, S.J., 1966.
- 4-SJ (East Sound):  
U.W. Ocean., Hoh, S.J., 1966.
- 25-JF (Protection Island): WSDF,  
groundfish trawl, through 1970.
- 1-JF (off Green Point): WSDF,  
groundfish trawl, through 1970.
- 1-CP (Olalla and south): WSDF,  
groundfish trawl, through 1970.
- 1-CP (Richmond Point): WSDF,  
groundfish trawl, through 1970.
- 3-JF (Protection Island): WSDF,  
Commercial Catch Comp., 1966-71.
- 1-JF (Discovery Bay): WSDF,  
Commercial Catch Comp., 1966-71.
- 1-SS (Carr Inlet): WSDF, Commercial  
Catch Comp., 1966-71.
- 6-JF (north and northwest of  
Dungeness Spit): NMFS, Cobb-25.
- 5-AI (east of Port Townsend):  
NMFS, Cobb-35.
- 3-JF (west of Protection Island;  
Port Discovery; between Port  
Discovery and Protection Island):  
NMFS, Cobb-35.
- 3-SS (Carr Inlet): NMFS, Cobb-68.
- 1-CS (Poverty Bay): NMFS, Cobb-68.
- 1-E (Whidbey Island to Gedney  
Island): NMFS, Cobb-68.
- 3-E (Saratoga Pass.):  
NMFS, Cobb-68.
- 3-E (Holmes Harbor): NMFS, Cobb-68.
- 2-PO (south of Fletcher Bay):  
NMFS, Cobb-68.
- 2-E (Holmes Harbor): NMFS, Cobb-70.
- 1-E (Saratoga Pass., north of Holmes  
Harbor): NMFS, Cobb-71.
- 1-CS (southeast of Port Madison):  
NMFS, Cobb-71.
- 1-S (off Richmond Beach):  
NMFS, Cobb-71.
- 1-SS (off north of Glen Cove):  
NMFS, Cobb-72.
- 1-CS (off Skiff Point):  
NMFS, Cobb-78.
- 2-JF (mid-channel north of Morse  
Creek): NMFS, Cobb-90.



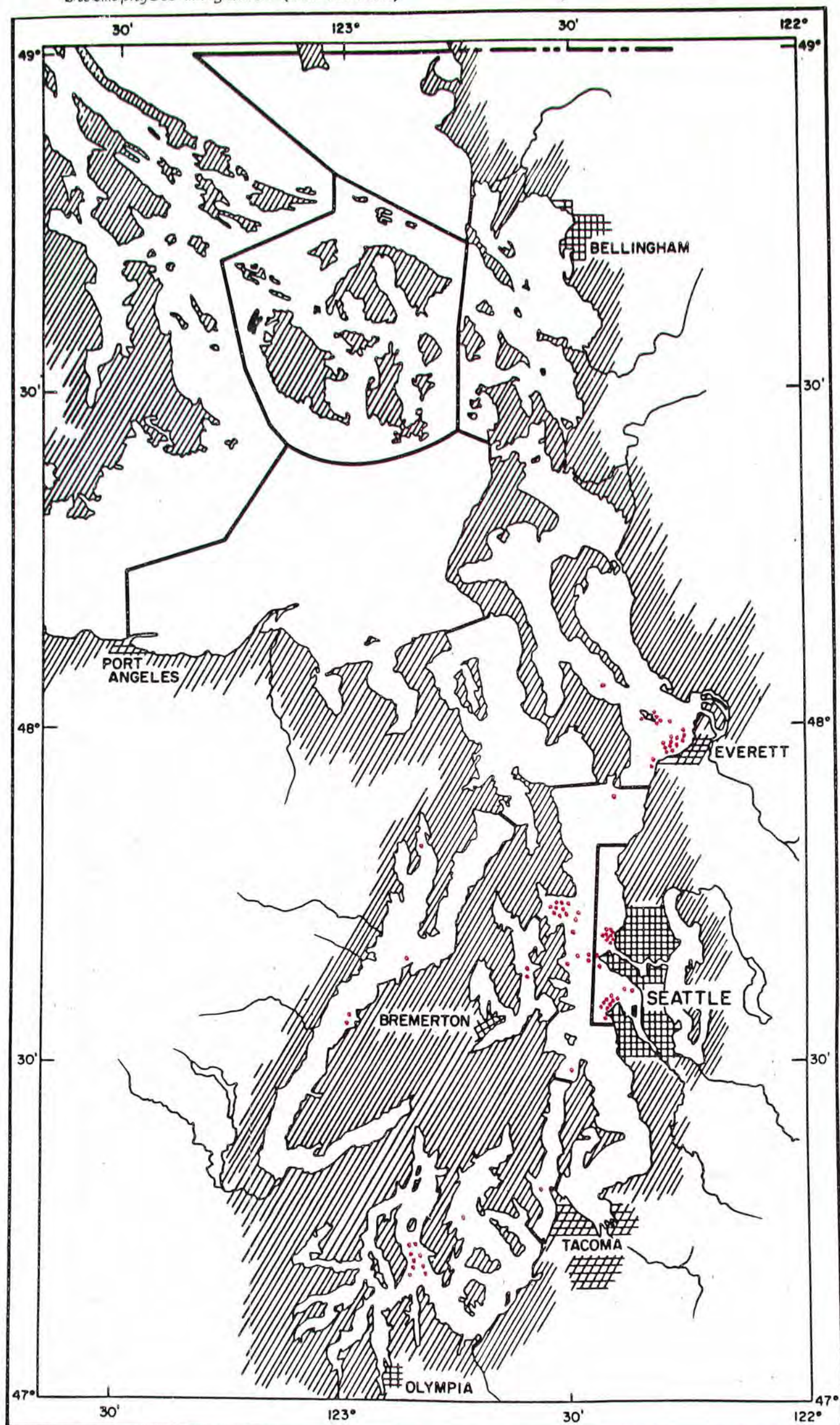
*Theragra chalcogramma*

## Gadidae

Miscellaneous Logs

- 1-JF (west of Hein Bank):  
NMFS, Cobb-90.
- 1-JF (northwest of Dungeness Spit):  
NMFS, Cobb-92.
- 1-S (off Golden Gardens):  
NMFS, Cobb-75.
- 1-JF (Discovery Bay):  
NMFS, Cobb-75.
- 2-SS (Carr Inlet): NMFS, Cobb-75.
- 3-E (Everett Harbor):  
NMFS, Cobb, 1/20/61.
- 1-E (Saratoga Pass.):  
NMFS, Cobb, 1/20/61.
- 13-SJ (East Sound, south of Rosario Point): NIH, 1964-66.
- 1-B (Bellingham Bay, off Nooksack River to Marine Drive):  
NIH, 1968-71.
- 1-S (Golden Gardens to Carkeek Park): NIH, 1968-71.
- 6-CS (Port Madison):  
Van Cleve, trap, 1961-65.
- 1-SS (entrance to Eld Inlet):  
Van Cleve, trap, 1961-65.
- 1-E (Saratoga Pass., west side just south of Penn Cove):  
Van Cleve, trap, 1961-65.
- 1-JF (Discovery Bay):  
Battelle, 1967-69.
- 7-JF (north of Ediz Hook):  
NMFS, Cobb-25.
- 6-GS (tow area 1: mouth of Boundary Bay):  
WSDF, Gulf Georgia, 1969-71.
- 2-GS (tow area 2: off Birch Bay):  
WSDF, Gulf Georgia, 1969-71.
- 8-GS (tow area 3: off Cherry Point):  
WSDF, Gulf Georgia, 1969-71.
- 1-GS (tow area 4: off north of Neptune Beach):  
WSDF, Gulf Georgia, 1969-71.
- 7-GS (tow area 5: north of Alden Bank):  
WSDF, Gulf Georgia, 1969-71.
- 7-GS (tow area 6: southeast of Point Roberts):  
WSDF, Gulf Georgia, 1969-71.
- 1-GS (tow area 7: mid-channel):  
WSDF, Gulf Georgia, 1969-71.
- 2-JF (west of Protection Island):  
NMFS, Cobb, 2/28/73.
- 1-CS (south of Possession Point):  
NMFS, Cobb, 2/28/73.
- 2-S (Duwamish River estuary, 16th S. to 1st Ave. S. bridge):  
Sea Grant, 72C10.
- 1-GS (south of Cherry Point):  
Sea Grant, 72C19.
- 1-S (beach seine: Golden Gardens):  
Sea Grant, 72C22.
- 1-HC (off Big Beef Harbor):  
Sea Grant, 72C26.
- 3-S (off northwest side of West Point): Sea Grant, 1973.
- 2-S (off southwest side of West Point): Sea Grant, 1973.
- 1-S (deep otter trawl: off West Point): Sea Grant, 1973.
- 1-S (southwest of Alki Point):  
Sea Grant, 1973.
- 3-S (deep otter trawl: off southwest of Alki Point): Sea Grant, 1973.
- 2-HC (mid-channel, off Union):  
Sea Grant, 1974.
- 1-HC (off Skokomish River Delta):  
Sea Grant, 1973.
- 4-HC (off Skokomish Delta, mid-channel): Sea Grant, 1973-74.
- 1-AI (Mutiny Bay):  
Sea Grant, 73049.
- 6-B (Bellingham Bay): Bill High, personal communication, 12/9/63.
- 1-JF (Discovery Bay): Bill High, personal communication, 12/9/63.
- 1-AI: Bill High, personal communication, 12/9/63.
- 2-CS (Port Madison; Norma Beach):  
NMFS, Cobb-72.







*Brosmophycis marginata*

## Ophidiidae

Published Records

- 1-PS: Kincaid, 1919.  
 1-E (Gedney Island):  
     Smith, 1973 (also museum 4671).  
 1-HC (Holly):  
     Schultz and DeLacy, 1935-36.  
 1-HC (Anderson Cove): Chew, 1970.

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Museum Collection

- 1-E (east of Gedney Island): 2573.  
 1-E (off Snohomish River): 2616.  
 1-E (off Everett): 3138.  
 2-S (Elliott Bay): 3170; 3790.  
 3-S (off Golden Gardens): 5994  
     (also boat 494F); 7564; 16924.  
 1-PS: 7318.  
 1-CS (off West Point):  
     8225 (also boat 5115J).  
 1-S (off Meadow Point):  
     8272 (also boat 5044A).  
 1-SS (Carr Inlet): 10318.  
 1-CP (Point Defiance): 14005.  
 1-CS (off Fay Bainbridge State  
     Park): 14403 (also boat 5806C).  
 1-CS (off Port Madison):  
     5726 (also boat 497B).

University of Washington Boat Log

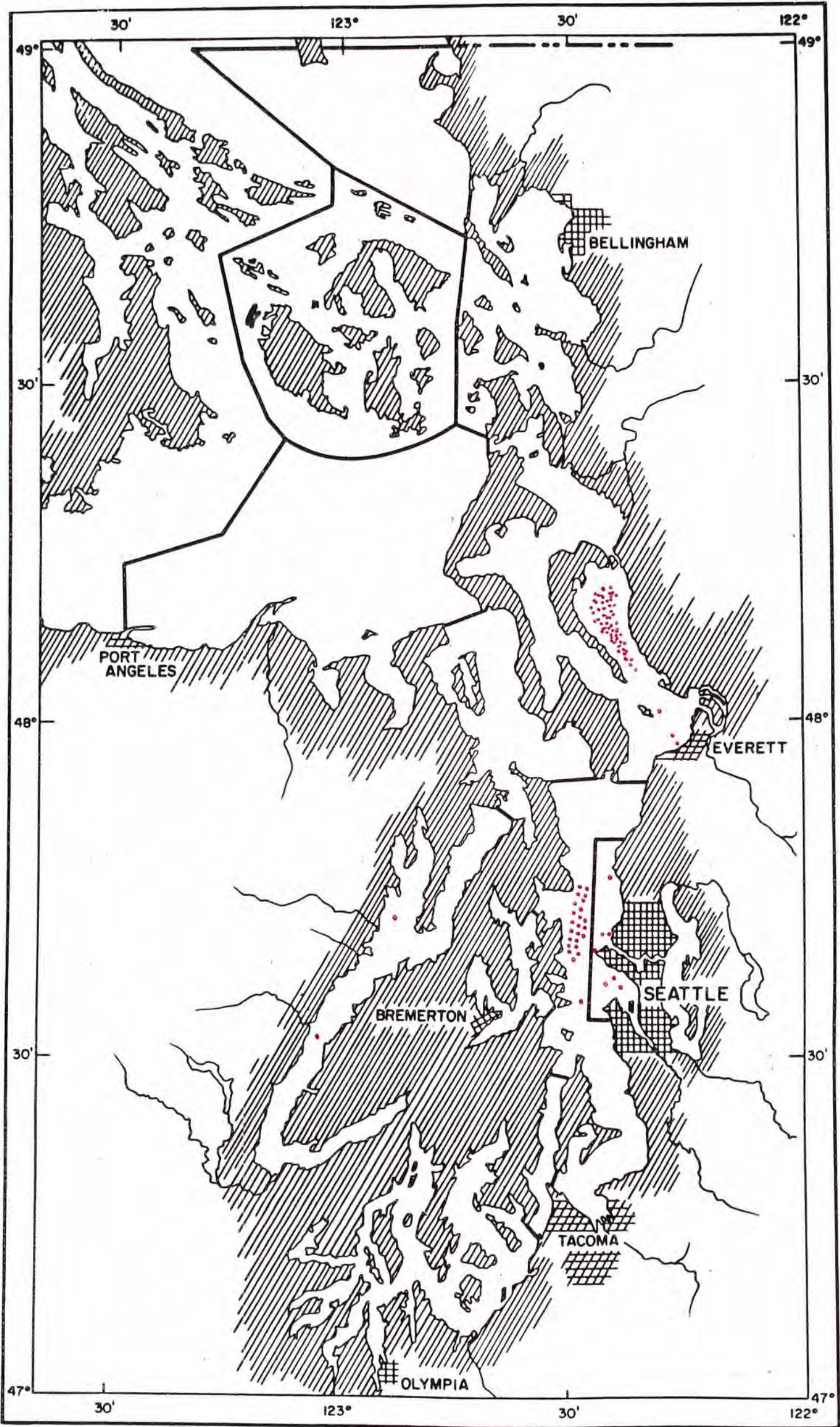
- 3-S (Golden Gardens):  
     5034F; 6311A,E.  
 1-CS (off Port Madison): 497A.  
 2-E (Mukilteo): 5613N; 6407.  
 2-PO (off Fletcher Bay):  
     6427; 6707.  
 5-E (training cruise area: east of  
     Gedney Island): 6507C; 6614C;  
     6722C; 6815C; 5908C.  
 1-CS (training cruise area: mid-  
     channel, Skiff to West Point):  
     6614B.  
 1-CS (off West Point): 6620B.  
 1-CS (Vashon Island, off Sylvan  
     Beach): 6703A.  
 1-HC (Dabob Bay, Broad Spit to Long  
     Spit): 6724A.  
 1-E (training cruise area: Saratoga  
     Pass., north of Langley): 6826D.  
 1-S (off Golden Gardens): 6510C.  
 1-S (off West Point sewer outfall):  
     6718-3.  
 1-HC (west of Misery Point): 7202A.  
 1-CS (Murden Cove): 7008B.  
 1-CS (Port Madison): 7011C.

Miscellaneous Logs

- 8-S (off Duwamish Head to Alki  
     Point): U.W. Ocean., 1964-67.  
 9-E (Port Gardner Bay):  
     U.W. Ocean. P.3., 1962-67.  
 9-SS (Case Inlet, off Taylor Bay to  
     off Whiteman Cove):  
     U.W. Ocean., Hoh, 1963-67.

- 5-CS (Port Madison):  
     U.W. Ocean. Hoh, 1963-68.  
 2-E (Port Gardner Bay):  
     U.W. Ocean., Hoh, 1963-67.  
 3-CS (Port Madison):  
     Van Cleve, trap, 1961-65.  
 1-CS (south of Possession Point):  
     NMFS, Cobb, 2/28/73.  
 1-S (deep otter trawl, off West  
     Point): Sea Grant, 1973.  
 1-S (deep otter trawl, off southwest  
     of Alki Point): Sea Grant, 1973.







*Lycodapus mandibularis*

Zoarcidae

Published Records

- 1-S (Seattle): Bayliff, 1959.  
 1-CS (East Pass to Possession Sound): Bayliff, 1959.

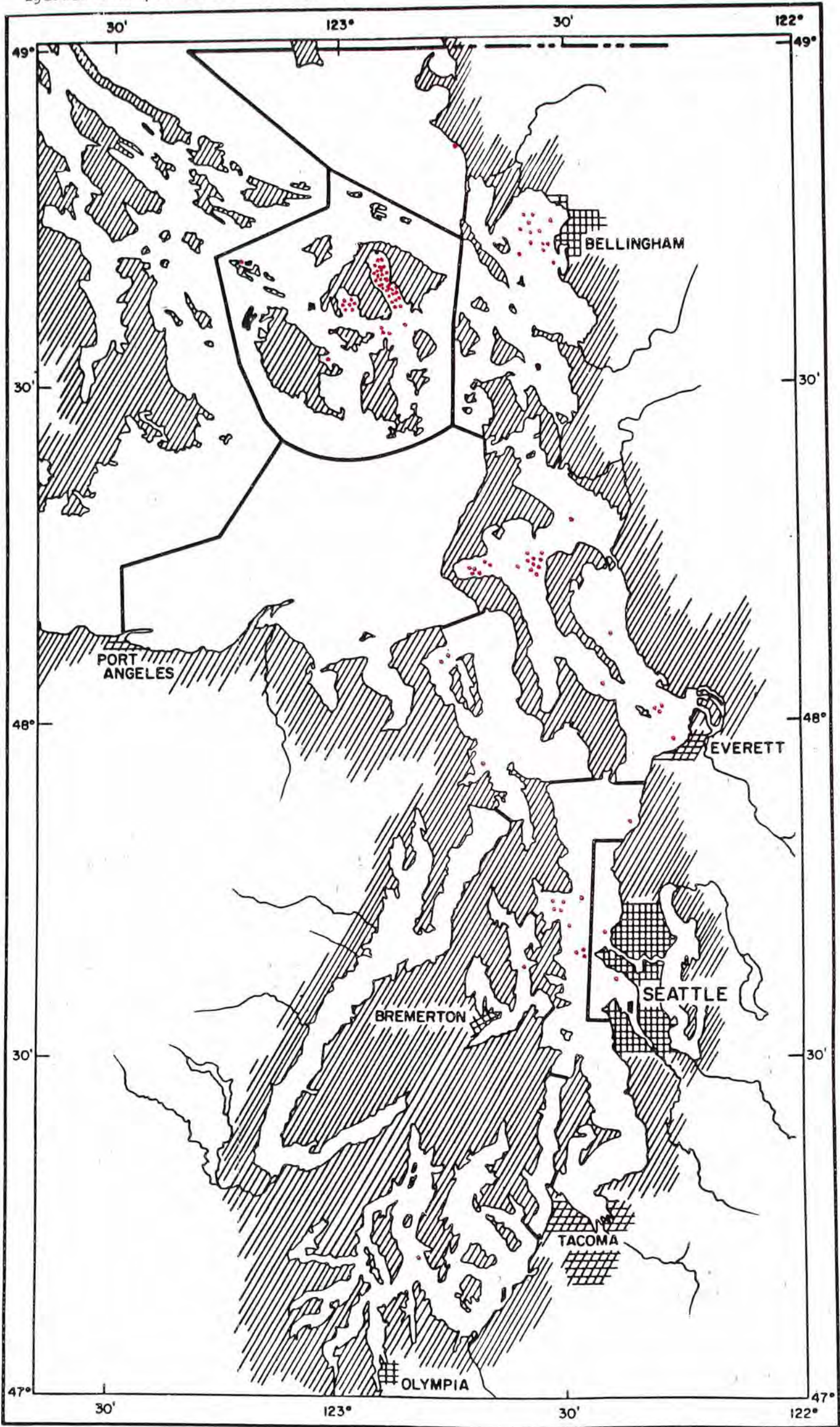
University of Washington  
Museum Collection

- 1-CS (mid-channel, Alki Point to Blakely Rocks):  
 8103 (also boat 5103L).  
 1-S (off West Point):  
 8104 (also boat 5103I).  
 1-S (Elliott Bay): 11403.  
 1-S (off Golden Gardens):  
 14290 (probably is same collection as Bayliff, 1959).  
 1-S (off Golden Gardens):  
 16776 (also boat 6114B).  
 1-S (Elliott Bay): 16926.  
 3-E (Port Susan): 19257; 19263;  
 19265 (all probably NMFS, Cobb).  
 1-S (Richmond Beach): 19264.  
 1-CS (mid-channel, off Golden Gardens):  
 19248 (also NMFS, Cobb, 3/30/65).  
 1-HC (off Chinom Point):  
 19255 (also NMFS, Cobb, 10/8/65).  
 2-CS (mid-water trawl: mid-channel, Point Monroe to Meadow Point):  
 5709B; 5707I.  
 1-CS (off Murden Cove): 6710D2.  
 1-E (mid-water trawl: training cruise area, east of Gedney Island): 7313C.

Miscellaneous Logs

- 1-HC (Dabob Bay or possibly Chinom Point): NMFS, Cobb.  
 1-E (Port Susan): NMFS, Cobb.  
 1-E (Port Gardner Bay):  
 U.W. Ocean. P.G., 1962-67.  
 8-E (Port Susan):  
 U.W. Ocean., Hoh, 1963-67.  
 1-E (Port Gardner Bay):  
 U.W. Ocean., Hoh, 1963-67.  
 16-CS (herring trawl, Skiff Point to Point Jefferson):  
 U.W. Ocean., 1968-69.  
 32-E (herring trawl, Port Susan):  
 U.W. Ocean., 1968-69.  
 4-E (Port Susan):  
 U.W. Ocean., Commando, 1968.







*Lycodes brevipes*Published Records

- 1-SJ (East Sound):  
Gilbert and Thompson, 1905.  
1-SJ: Starks, 1911.  
1-AI (Port Ludlow, north of Tala Point):  
Evermann and Goldsborough, 1907.  
1-SJ: Shelford et al., 1935.  
1-SJ (East Sound): Smith, 1937.  
1-B (Bellingham Bay): Smith, 1936.  
3-E (Coupeville): Smith, 1936.  
1-E (Skagit Bay): Salo, 1969.

University of Washington  
Museum Collection

- 1-SJ (East Sound near Olga): 1120.  
1-SJ (Friday Harbor): 2154.  
1-SJ (West Sound): 2234.  
5-SJ (East Sound): 2284; 6849;  
14374 (also Friday Harbor Log,  
8/11/52); 17075 (also Friday  
Harbor Log, 6/20/63); 17132.  
1-B (off Chuckanut Drive, Bellingham Bay): 3768.  
1-SJ (north East Sound):  
5755 (also boat 491M).  
1-B (east of Point Frances):  
5792 (also boat 491K).  
1-B (Bellingham Bay, 1/2 mile west  
of Starr Rock): 11055.  
1-SJ (mid East Sound): 18695 (also  
Friday Harbor Log, 6/5/64).  
1-CS (southwest of Norma Beach):  
19154 (also NMFS, Cobb-75).  
1-SJ (East Sound, south of Rosario  
Point):  
19559 (also NIH, 1964-66).

Friday Harbor Laboratory Log

- 1-SJ (Prevost Harbor): 7/10/50-4.  
1-SJ (south of Orcas Island):  
6/24/52.  
2-SJ (East Sound and Lopez Sound):  
7/1/52; 7/11/63.  
1-B (Bellingham Bay): 6/22/55.  
4-SJ (West Sound):  
7/9/52-3 (also boat 5220I);  
8/13/60-2; 6/26/61; 6/20/69-2.  
6-SJ (East Sound):  
7/6/60-2; 7/25/60; 8/13/60-1;  
6/20/61; 5/11/62; 7/6/71-1.  
1-SJ (off Upright Head): 6/24/55-2.  
1-SJ (Upright Head to Obstruction  
Pass): 3/22/55-4.  
1-SJ (lower East Sound): 8/22/55-6.  
3-SJ (mid East Sound):  
8/22/55-7; 7/11/64; 6/20/69-1.  
1-SJ (lower East Sound): 6/26/73-1.  
1-SJ (Upright Head to Foster Point):  
6/26/73-2.

## Zoarcidae

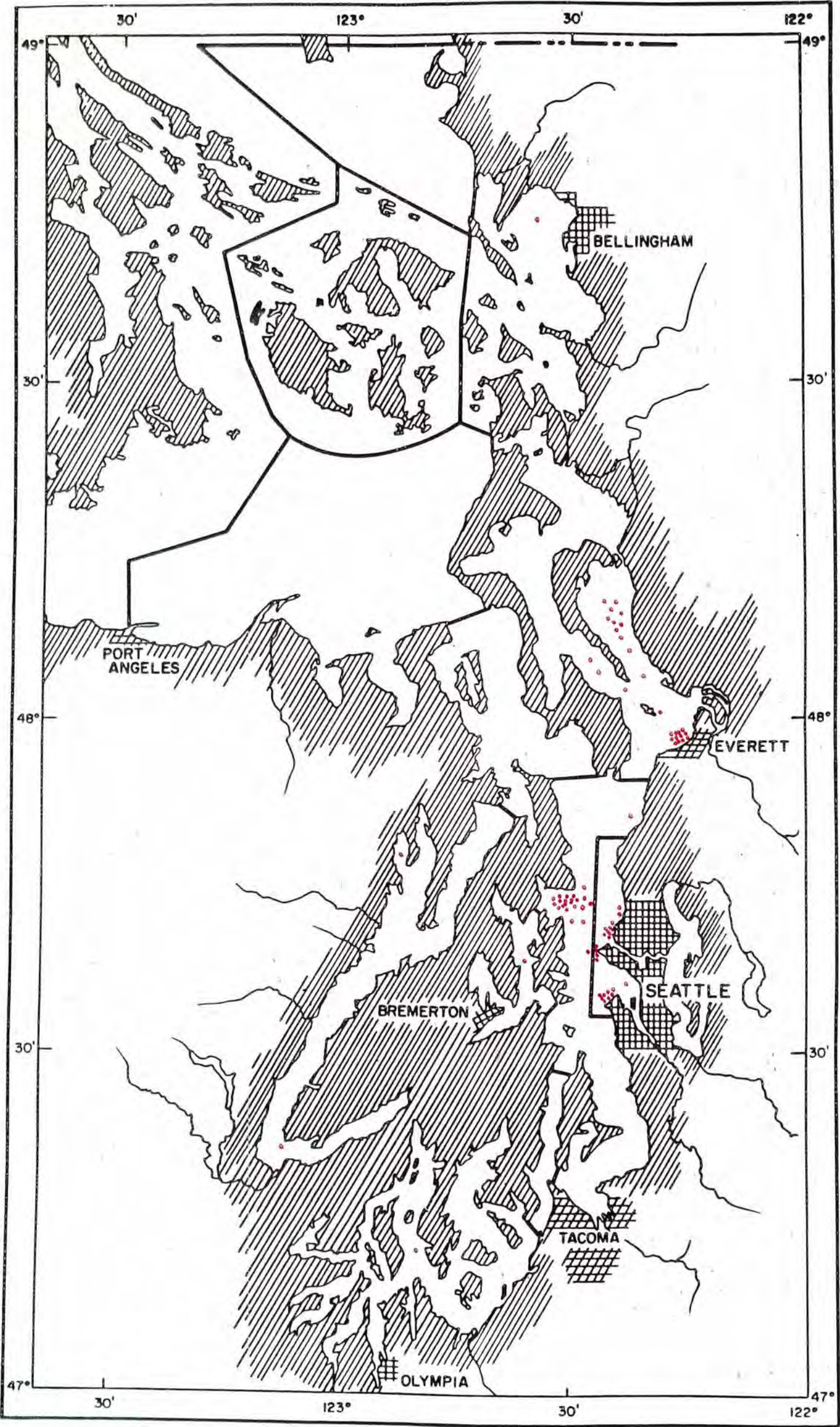
University of Washington Boat Log

- 1-CS (Point Jefferson to Carkeek  
Park, mid-channel): 5911B.  
1-CS (off Fay Bainbridge State  
Park): 5806C.  
1-S (off Golden Gardens): 5924C.  
2-CS (training cruise area: off West  
Point): 6611B; 7118B.  
(Training cruise area).  
1-B (Bellingham Bay): 6822G.  
1-E (near Penn Cove): 6822E.  
2-E (training cruise area: off Penn  
Cove): 6614E; 6815E.  
3-B (training cruise area: southwest  
of Post Point):  
6717G; 6826G; 7313G.  
1-CS (training cruise area: mid-  
channel, Skiff Point to West  
Point): 6914B.  
3-E (training cruise area: east of  
Gedney Island):  
7118C; 7213C; 7010C.  
1-E (training cruise area: Saratoga  
Pass., north of Langley): 7118D.

Miscellaneous Logs

- 1-PO (south and north of Fletcher  
Bay): U.W. Ocean., Hoh, 1963-67.  
1-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Hoh, 1963-67.  
4-CS (Port Madison):  
U.W. Ocean., Hoh, 1963-68.  
7-E (Saratoga Pass., Demock Point):  
U.W. Ocean., Hoh, 1963-67.  
10-SJ (East Sound, south of Rosario  
Point): NIH, 1964-66.  
1-SJ (East Sound): NIH, 1968-71.  
1-GS (south of Cherry Point):  
Sea Grant, 72009.  
3-B (off Nooksack estuary,  
Bellingham Bay):  
Sea Grant, 72035; 73032.  
1-S (Seattle): NMFS, Cobb.  
1-SJ (East Sound): A.C. DeLacy,  
personal communication, 6/20/69.  
1-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.  
1-E (Port Gardner Bay):  
U.W. Ocean., Hoh, 1963-67.  
2-AI (Port Townsend Bay):  
U.W. Ocean., Hoh, S.J., 1966.  
2-B (Bellingham Bay):  
U.W. Ocean., Hoh, S.J., 1966.  
2-SJ (West Sound):  
U.W. Ocean., Hoh, S.J., 1966.  
4-SJ (East Sound):  
U.W. Ocean., Hoh, S.J., 1966.  
3-E (Penn Cove):  
U.W. Ocean., Hoh, S.J., 1966.  
1-SJ (East Sound): Bruce Miller,  
Diving Log, 6/26/66.







*Lycodes diapterus*

## Zoarcidae

Published Records

- 1-HC (Quilcene Bay):  
Smith, 1937 (also museum 4446).  
1-E (Gedney Island):  
Chapman and DeLacy, 1933  
(duplicates a museum log record).

University of Washington  
Museum Collection

- 1-E (Camano Head, Saratoga Pass.):  
2539.  
1-S (Elliott Bay): 2907.  
1-E (off Tulalip): 2913.  
1-E (Saratoga Pass.): 2920.  
2-E (Port Susan): 2931; 3581.  
2-CS (off Port Madison):  
5721 (also boat 497B); 10582.  
2-CS (Port Madison):  
5746 (also boat 492B); 6053.  
1-S (off Golden Gardens):  
5881 also boat 5029E).  
2-S (Golden Gardens):  
16919; 17139.  
1-CS (off Meadow Point to Point  
Monroe): 12253.  
1-B (Bellingham Bay): 10786.  
1-S (off north of Carkeek Park):  
16842 (also boat 6206C).  
1-CS (off West Point):  
19057 (also boat 6626B).  
1-CS (southwest of Norma Beach):  
19155 (also NMFS, Cobb-75).

University of Washington Boat Log

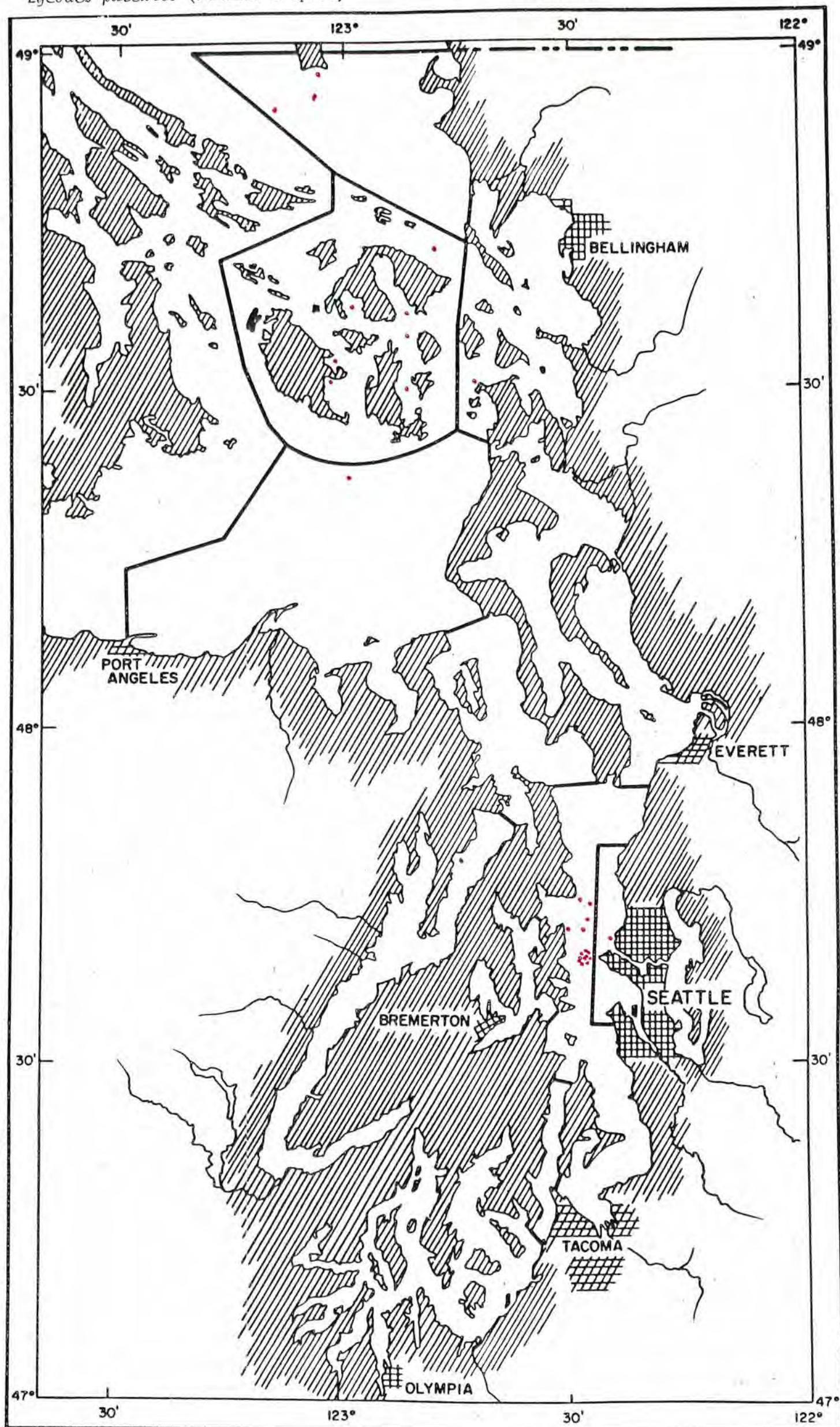
- 4-S (off Golden Gardens to Meadow  
Point):  
5029A; 5039A; 5110D; 6311E.  
2-S (off Meadow Point to Carkeek  
Park): 5044A; 5119A.  
1-CS (off Point Jefferson): 5112D.  
1-CS (off Port Madison): 5043C.  
1-CS (Port Madison): 5122B.  
1-CS (off Fay Bainbridge State  
Park): 5806C.  
1-E (training cruise area: east of  
Gedney Island): 6630C.  
1-E (Port Susan, off Kayak Point):  
6702C.  
3-S (off West Point sewer outfall):  
6718-3,4,5.

Miscellaneous Logs

- 8-S (off Duwamish Head to Alki  
Point): U.W. Ocean., 1964-67.  
6-E (Port Gardner Bay):  
U.W. Ocean., F.G., 1962-67.  
1-S (Golden Gardens to Meadow  
Point):  
U.W. Ocean., Hoh, 1963-67.  
1-PO (south and north of Fletcher  
Bay): U.W. Ocean., Hoh, 1963-67.  
1-SS (Case Inlet, off Taylor Bay to  
off Whiteman Cove):  
U.W. Ocean., Hoh, 1963-1967.

- 18-CS (Port Madison):  
U.W. Ocean., Hoh, 1963-68.  
5-E (Port Gardner Bay):  
U.W. Ocean., Hoh, 1963-67.  
7-E (Port Susan):  
U.W. Ocean., Hoh, 1963-67.  
2-CS (Port Madison):  
Van Cleve, trap, 1961-65.  
1-S (deep otter trawl, off southwest  
of Alki Point): Sea Grant, 1973.  
1-HC (mid-channel, off Skokomish  
Delta): Sea Grant, 1973.  
1-E (Port Gardner Bay):  
U.W. Ocean., Hoh, S.J., 1966.  
1-E (Saratoga Pass.):  
NMFS, Cobb, 1/20/61.







*Lycodes palearis*

Zoarcidae

Published Records

- 1-SJ: Starks, 1911; Kincaid, 1919.  
 1-B (Shannon Point):  
     Halstead, 1950.  
 1-GS (Point Roberts Reef):  
     Slipp and DeLacy, 1952 (also  
     museum 5362).  
 1-GS (6 miles south of Point  
     Roberts): Slipp and Delacey,  
     1952 (also museum 5639).  
 1-PS: Bayliff, 1959.

University of Washington  
Museum Collection

- 1-SJ (near Olga): 1208.  
 1-CS (off Point Jefferson):  
     6228 (also boat 5112D).  
 1-HC (Thorndike Bay):  
     6857 (also probably boat 499J).  
 1-PS (Bellingham Bay-Point Roberts):  
     6997.  
 1-CS (off Meadow Point to Point  
     Jefferson): 3100.  
 1-CS (off Meadow Point to Point  
     Monroe): 12252.  
 1-CS (off Fay Bainbridge State  
     Park): 14427 (also boat 5806C).  
 1-GS (American side): 9098.

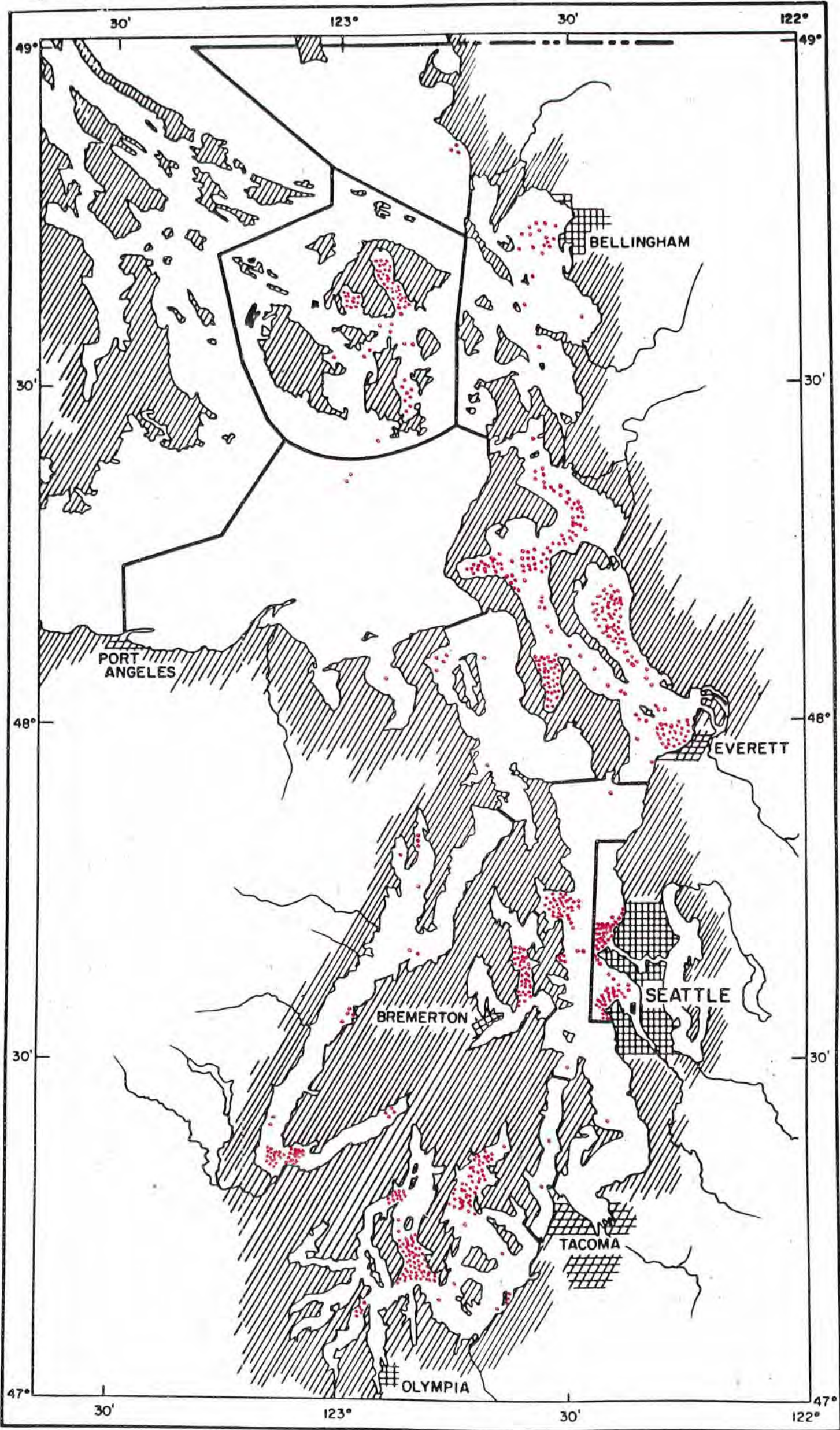
Friday Harbor Laboratory Log

- 1-SJ (northwest of Barnes Island):  
     6/20/50-3 (also boat 5033J).  
 1-SJ (Lopez Sound to East Sound):  
     7/1/52.  
 1-SJ (Friday Harbor): 6/21/55-2.  
 1-JF (west of McArthur Bank):  
     8/8/60.  
 1-SJ (Lopez Sound): 8/22/60-4.  
 1-SJ (West Sound): 6/20/69-2.  
 1-SJ (Argyle Bay): 7/10/69-4.

University of Washington Boat Log

- 1-S (off Golden Gardens): 5416.  
 1-CS (Point Jefferson to off Carkeek  
     Park): 5911B.  
 1-CS (off West Point): 6611B.  
 7-CS (training cruise area: mid-  
     channel, Skiff Point to West  
     Point): 6623B; 6819B; 7118B;  
     6914B; 7017B; 7213B; 7308B.







*Lycodopsis pacifica*

## Zoarcidae

Published Records

- 1-AI (Port Townsend, north of Kala Point):  
Evermann and Goldsborough, 1907.  
1-AI (Port Ludlow, north of Tala Point):  
Evermann and Goldsborough, 1907.  
1-S (Seattle):  
Evermann and Goldsborough, 1907.  
1-SJ: Starks, 1911.  
1-SJ: Shelford et al., 1935.  
5-E (Mukilteo; Columbia Beach; Dines Point; Camano; Watsak Point):  
Smith, 1937.  
3-E (Gedney Island): Smith, 1937.  
2-HC (Hoodspout): Smith, 1937.  
3-HC (Skokomish Flats; Holly; Quilcene Bay):  
Smith, 1937 (Quilcene Bay record is also museum 4333).  
1-E (Kiket Island):  
Stober and Salo, 1970b.  
7-E (Port Gardner): Salo, 1969.  
23-E (Skagit Bay): Salo, 1969.  
7-S (Duwamish Head): Salo, 1969.  
1-HC (Anderson Cove): Chew, 1970.  
1-S (Golden Gardens Beach):  
Bayliff, 1959 (also museum 6120).  
1-CS (beach seine: south side of Point Jefferson): Kendall, 1966.

University of Washington  
Museum Collection

- 2-PS: 206; 13947.  
2-SJ (near Olga): 1209; 1495.  
1-E (Holmes Harbor): 1685.  
1-SJ (west shore of Blakely Island): 2121.  
1-SJ (West Sound): 2235.  
1-SJ (Harney Channel): 2261.  
1-SJ (Flat Point): 2277.  
7-SJ (East Sound):  
2285; 5361; 6030 (also boat 5033M); 14375 (also Friday Harbor Log, 8/11/52); 17076 (also Friday Harbor Log, 6/20/63); 17124; 18696 (also NIH, 1964-66).  
1-E (Saratoga Pass., Camano Head): 2540.  
1-E (Saratoga Pass., Sandy Point): 2662.  
1-E (off Everett): 2904.  
3-S (Elliott Bay):  
2906; 3789; 11053.  
1-E (Port Susan): 2930.  
1-E (Coupeville): 3958.  
1-SS (Carr Inlet): 4348.  
1-E (Saratoga Pass., Watsak Point): 5327.  
1-SS (off McLane Cove):  
5689 (also boat 7/20/49-3).  
1-B (east of Vendovi Island):  
5690 (also boat 491K).  
2-SS (Carr Inlet, off Minter Creek):  
5691; 6097 (also boat 5037H).

- 2-CS (off Port Madison):  
5719 (also boat 497B); 10583.  
1-SJ (west of Ram Island):  
5751 (also boat 491P).  
1-B (east of Point Frances):  
5777 (also boat 491J).  
3-CS (Port Madison):  
5745 and 5789 (also boat 492B);  
5880 (also boat 5006D); 6093.  
1-E (off Mission Bar):  
5873 (also boat 5023E).  
2-SS (Carr Inlet, off Glen Cove):  
5813 (also boat 5009J); 8029  
(also boat 5213D).  
4-S (off Golden Gardens):  
5845 (also boat 493B); 6076 (also boat 5029C); 6903 (also boat 491A); 5735 (also boat 497E).  
2-E (off Tulalip):  
3668; 5951 (also boat 7/1/49-1).  
1-SJ (Friday Harbor): 3699.  
1-S (Four-Mile Rock to Pier 91):  
5882 (also boat 5027C).  
1-E (off Warm Beach):  
5886 (also boat 5023A).  
1-CP (Point Defiance): 11054.  
1-B (Bellingham Bay, 1/2 mile west of Starr Rock): 11057.  
1-SS (Drayton Pass.): 14373.  
1-SJ (north end of East Sound):  
5762 (also boat 491M).  
1-CP (West Pass.): 8395.  
1-SS (west of Cutts Island):  
6902 (also boat 5037C).  
1-E (Saratoga Pass.): 17991.  
1-SJ (mid East Sound): 18697  
(Friday Harbor Log, 6/5/64).  
2-SJ (East Sound, south of Rosario Point):  
19453; 19584 (also NIH, 1964-66).

Friday Harbor Laboratory Log

- 1-B (Bellingham Bay): 7/26/51-2.  
7-SJ (West Sound):  
6/23/51; 7/9/52-3 (also boat 5220I); 7/26/60-2; 8/13/60-2;  
6/26/61; 7/27/63-B; 6/20/69-2.  
1-SJ (south of Orcas Island):  
6/24/52.  
2-SJ (Lopez Sound and East Sound):  
7/1/52; 7/11/63.  
1-JF (west of McArthur Bank):  
7/7/52-1.  
4-SJ (lower East Sound): 7/28/55-2;  
8/11/55-3; 8/22/55-5,6.  
1-SJ (off Iceberg Point): 8/4/55-1.  
1-SJ (west of Center Island):  
8/11/55-1.  
4-SJ (mid East Sound): 8/22/55-7;  
2/21/64; 7/11/64; 6/20/69-1.  
1-SJ (Upright Channel, Odlin Park):  
8/22/55-8.  
1-SJ (north of Hunter Bay):  
6/19/50-5 (also boat 5033G).



*Lycodopsis pacifica*

## Zoarcidae

Friday Harbor Laboratory Lab

- 1-SJ (West Sound and Lopez Sound): 6/27/60.
- 4-SJ (Lopez Sound): 7/6/60-1; 8/22/60-4; 6/16/61; 7/8/69-2.
- 5-SJ (East Sound): 7/6/60-2; 7/26/60-1; 8/13/60-1; 6/20/61; 7/6/71-1.
- 2-SJ (Upright Head to Olga): 8/1/60-2; 7/10/61-2.
- 1-SJ (lower East Sound): 6/26/73-1.

University of Washington Boat Log

- 1-JF (Discovery Bay): 5318A.
- 1-JF (west of McArthur Bank): 5520A.
- 1-SJ (West Sound): 5033L.
- 3-SJ (training cruise area: East Sound, north of Rosario Point): 6620H; 6717H; 6819H.
- 1-SJ (training cruise area: Lopez Sound, southwest of Center Island): 7118I.
- 9-E (Holmes Harbor, Rocky Point to Dines Point): 491Q; 5220D,0; 5234C; 5307C,Q,R; 5312I; 5327C.
- 1-E (Port Susan, off Spee-Bi-Dah): 5023D.
- 2-E (mouth of Penn Cove, off Long Point to off Snatelum Point): 5213A; 5220E.
- 2-E (Penn Cove, off Coupeville to off Lovejoy Point): 5213B; 5316I.
- 2-E (off Oak Harbor to Blower Bluff): 5220F,N.
- 2-E (north end of Saratoga Pass.): 5220M; 6821.53.
- 11-E (Holmes Harbor, south of Classic): 5234E; 5305B,G; 5307F, P,U; 5312E,N; 5316E,N; 5501C.
- 19-E (Holmes Harbor): 5305I,F,J,M; 5325A,B,C; 5327B; 5405D; 5418A,B; 5420A; 5522D; 5604F,G; 5613Q,R; 5614D; 5810A.
- 4-E (Holmes Harbor, Dines Point to Classic): 5312H; 5316A; 5405G; 5501D.
- 1-E (Saratoga Pass., Saratoga to Langley): 5321Q.
- 1-E (Saratoga Pass., Onamac Point to Indian Beach): 5405L.
- 7-E (Penn Cove): 5418G; 5420G; 5522G; 5613V,W,X; 5614J.
- 1-E (Saratoga Pass., Onamac Point to Snatelum Point): 5418H.
- 4-E (Everett area): 5712B; 6117I,M,L.
- 3-E (training cruise area: east of Gedney Island): 6614C; 6717C; 6815C.
- 11-E (training cruise area: off Penn Cove): 6614E; 6717E; 6815E; 6819E; 6826E; 6908E; 7010E; 7017E; 7118E; 7213E; 7313E.

- 3-E (Port Susan, off Kayak Point): 6702A,B,C.
- 1-E (Port Susan): 6821.5A.
- 2-E (south Saratoga Pass.): 6722X,Y.
- 3-E (Saratoga Pass.): 6810B,C; 6821.5D.
- 1-E (near Penn Cove): 6822E.
- 1-B (Bellingham Bay): 6822G.
- 4-B (training cruise area: Bellingham Bay, southwest of Post Point): 6614G; 6717G; 6819G; 6815G.
- 1-AI (training cruise area: east of north Marrowstone Island): 6603J.
- 3-HC (Dabob Bay, Broad Spit to Long Spit): 6702E,F; 6724A.
- 1-CS (off Port Madison): 5043C.
- 4-CS (Port Madison): 5048B; 5122A,B; 5132D.
- 1-CS (off Agate Pass.): 5317C.
- 2-CS (east of Point Monroe): 5813A,C.
- 1-CS (trap, Port Madison): 6213.
- 1-CS (Tramp Harbor): 5104A.
- 1-CS (Vashon Island, off Sylvan Beach): 6703A.
- 2-CS (training cruise area: mid-channel, Skiff Point to West Point): 6614B; 6819B.
- 4-CS (Murden Cove): 6713G,H; 6818B; 6821.5G.
- 10-PO (off Fletcher Bay to south of Battle Point): 5317A; 5709C; 5809A,B; 5915B; 5924B; 6016B1,B2; 6205D1; 6320A.
- 3-PO (most probably off Fletcher Bay): 6214; 6821.5F; 6203C.
- 1-PO (off south of Fletcher Bay): 6016B4.
- 1-PO (between "B-2" and "B-1"): 6205C2.
- 21-S (off Golden Gardens to Meadow Point): 498B; 5017B; 5029B,E; 5033A; 5034E,F,G; 5119G; 5129C; 5233D; 5314A,C; 5329C; 5408B; 5707K; 5920E,F; 5924C; 6114A,B.
- 1-S (off Alki Point to Duwamish Head): 5027B.
- 5-S (off Meadow Point to Carkeek Park): 5039C; 5119B; 5212E; 5915C; 6510B.
- 1-S (Golden Gardens): 6311A.
- 13-SS (off Minter Creek to Elgin): 5045G,J; 5046C; 5104D,V; 5126D,F; 5135A,B,C,D; 5227F,I.
- 7-SS (Carr Inlet, off Glen Cove to off Taft and Cutts Islands): 5045K; 5102A; 5115F; 5126M; 5227B; 5613F,G.
- 2-HC (Anderson Cove): 7009B,D.
- 1-SS (mouth of Carr Inlet, Gertrude Island to Gibson Point): 5104C.
- 2-SS (off Wauna, Carr Inlet): 5104E; 5227A.



*Lycodopsis pacifica*

## Zoarcidae

University of Washington Boat Log

- 2-SS (Case Inlet, west of Herron Island): 5126H; 5009G.  
 1-SS (northwest end of Nisqually Reach): 5126J.  
 2-SS (Carr Inlet): 5522C; 5605B.  
 3-SS (Carr Inlet, Glen Cove to Green Point): 6724B-1,2,3.  
 1-SS (Case Inlet, east of Hartstene Island): 6724C.

Miscellaneous Log

- 50+-S (off Duwamish Head to Alki Point): U.W. Ocean., 1964-67.  
 44-E (Port Gardner Bay):  
 U.W. Ocean., P.G., 1962-67.  
 50+-PO (just south of Fletcher Bay):  
 U.W. Ocean., P.O., 1964-65.  
 3-S (Golden Gardens to Meadow Point):  
 U.W. Ocean., Hoh, 1963-67.  
 45-PO (south and north of Fletcher Bay): U.W. Ocean., Hoh, 1963-67.  
 4-HC (Lynch Cove):  
 U.W. Ocean., Hoh, 1963-67.  
 2-HC (Seabeck):  
 U.W. Ocean., Hoh, 1963-67.  
 50+-SS (Case Inlet, off Taylor Bay to off Whiteman Cove):  
 U.W. Ocean., Hoh, 1963-67.  
 10+-SS (Carr Inlet, off Horsehead Bay): U.W. Ocean., Hoh, 1963-67.  
 50+-CS (Port Madison):  
 U.W. Ocean., Hoh, 1963-68.  
 36-E (Port Susan):  
 U.W. Ocean., Hoh, 1963-67.  
 4-E (Port Gardner Bay):  
 U.W. Ocean., Hoh, 1963-67.  
 9-E (Penn Cove):  
 U.W. Ocean., Hoh, 1963-67.  
 10-E (northeast of Rocky Point):  
 U.W. Ocean., Hoh, 1963-67.  
 11-E (Saratoga Pass., Demock Point):  
 U.W. Ocean., Hoh, 1963-67.  
 15-E (Holmes Harbor):  
 U.W. Ocean., Hoh, 1963-67.  
 1-SS (herring trawl: mouth of Carr Inlet): U.W. Ocean., 1968-69.  
 3-AI (Port Townsend Bay):  
 U.W. Ocean., Hoh, S.J., 1966.  
 2-B (Padilla Bay; Samish Bay):  
 U.W. Ocean., Hoh, S.J., 1966.  
 3-B (Bellingham Bay):  
 U.W. Ocean., Hoh, S.J., 1966.  
 3-SJ (West Sound):  
 U.W. Ocean., Hoh, S.J., 1966.  
 7-SJ (East Sound):  
 U.W. Ocean., Hoh, S.J., 1966.  
 3-E (Penn Cove):  
 U.W. Ocean., Hoh, S.J., 1966.  
 2-E (Utsalady):  
 U.W. Ocean., Hoh, S.J., 1966.  
 4-E (Port Susan):  
 U.W. Ocean., Hoh, S.J., 1966.  
 1-E (Port Gardner Bay):  
 U.W. Ocean., Hoh, S.J., 1966.  
 4-E (Holmes Harbor):  
 U.W. Ocean., Hoh, S.J., 1966.  
 15-SJ (East Sound, south of Rosario Point): NIH, 1964-66.  
 1-SJ (East Sound): NIH, 1968-71.  
 1-B (off Nooksack River to Marine Drive, Bellingham Bay):  
 NIH, 1968-71.  
 1-S (Golden Gardens to Carkeek Park): NIH, 1968-71.  
 44-CS (Port Madison):  
 Van Cleve, trap, 1961-65.  
 1-E (Everett): Chapman and DeLacy, personal communication, 1932.  
 1-PO (off Fletcher Bay):  
 Van Cleve, trap, 1961-65.  
 7-SS (Eld Inlet entrance):  
 Van Cleve, trap, 1961-65.  
 6-E (Holmes Harbor):  
 Van Cleve, trap, 1961-65.  
 6-E (Saratoga Pass., west side just south of Penn Cove):  
 Van Cleve, trap, 1961-65.  
 1-CS (south of Possession Point):  
 NMFS, Cobb, 2/28/73.  
 1-GS (south of Cherry Point):  
 Sea Grant, 72009.  
 2-GS (south of Cherry Point):  
 Sea Grant, 72019.  
 2-B (Bellingham Bay, off Nooksack River): Sea Grant, 72035.  
 3-S (beach seine: north side of West Point): Sea Grant, 1973.  
 3-S (off northwest side of West Point): Sea Grant, 1973.  
 2-S (off southwest side of West Point): Sea Grant, 1973.  
 1-S (deep otter trawl: off West Point): Sea Grant, 1973.  
 4-S (deep otter trawl; off southwest of Alki Point): Sea Grant, 1973.  
 3-PO (off south of Fletcher Bay):  
 Sea Grant, 73008.  
 1-B (Bellingham Bay, off Nooksack River): Sea Grant, 73032.  
 12-SS (mid-channel, McLane Cove to Stretch Island):  
 Sea Grant, 1973-74.  
 6-HC (off Union): Sea Grant, 1973.  
 12-HC (mid-channel, off Union):  
 Sea Grant, 1973-74.  
 5-HC (off Skokomish River delta):  
 Sea Grant, 1973.  
 12-HC (deep otter trawl: mid-channel, off Skokomish River delta): Sea Grant, 1973-74.  
 1-SS (Cormorant Pass.):  
 Sea Grant, 73059.  
 1-SS (Tatsolo Point):  
 Sea Grant, 73059.  
 2-SS (Cormorant Pass.):  
 Sea Grant, 73060.  
 1-SJ (East Sound): A.C. DeLacey, personal communication, 6/20/69.  
 1-B (Eliza Island): NMFS, Cobb-68.  
 1-HC (Dabob Bay): NMFS, Cobb-69-1.



*Lycodopsis pacifica*

Zoarcidae

Miscellaneous Logs

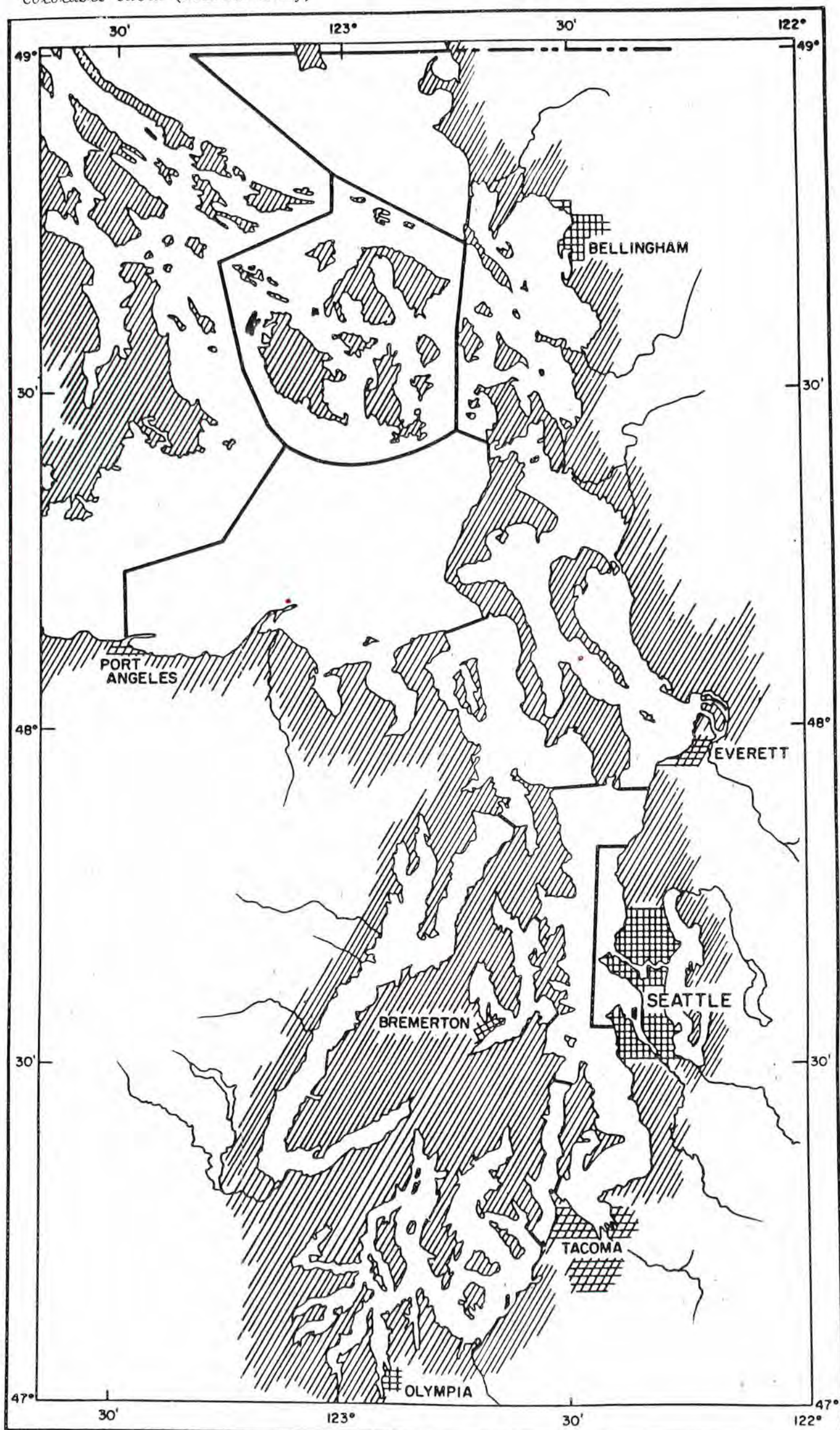
3-SJ (East Sound):

Bruce Miller, Diving Log,  
6/26/66; 7/15/66; 7/29/66.

2-S (southwest of Alki Point):

Sea Grant, 1973.







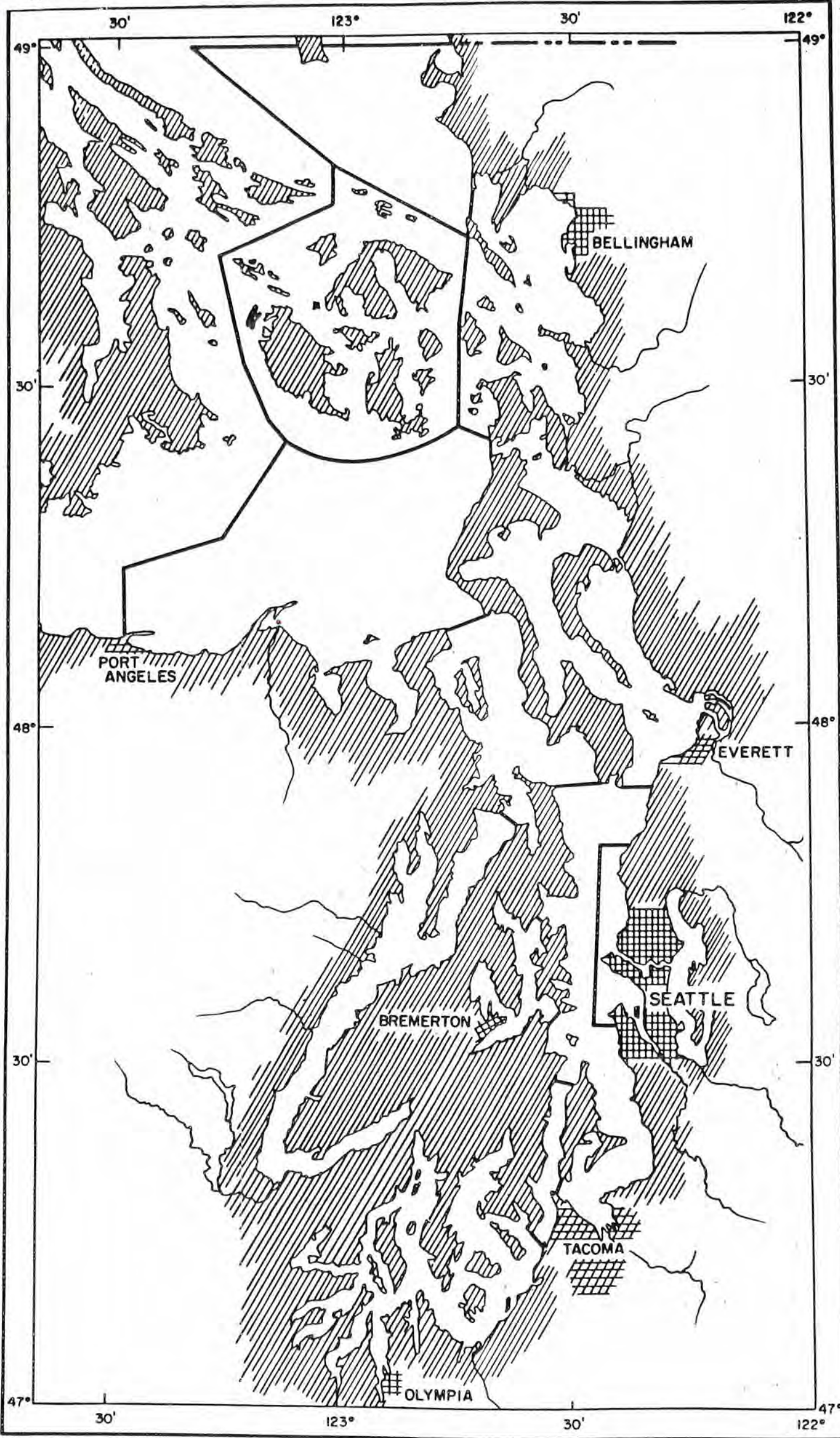
*Coloïabis saira*

Scomberesocidae

University of Washington  
Museum Collection

- 1-JF (Ediz Hook, off Port Angeles,  
one of a school): 4740.  
1-E (Saratoga Pass.): 5388.







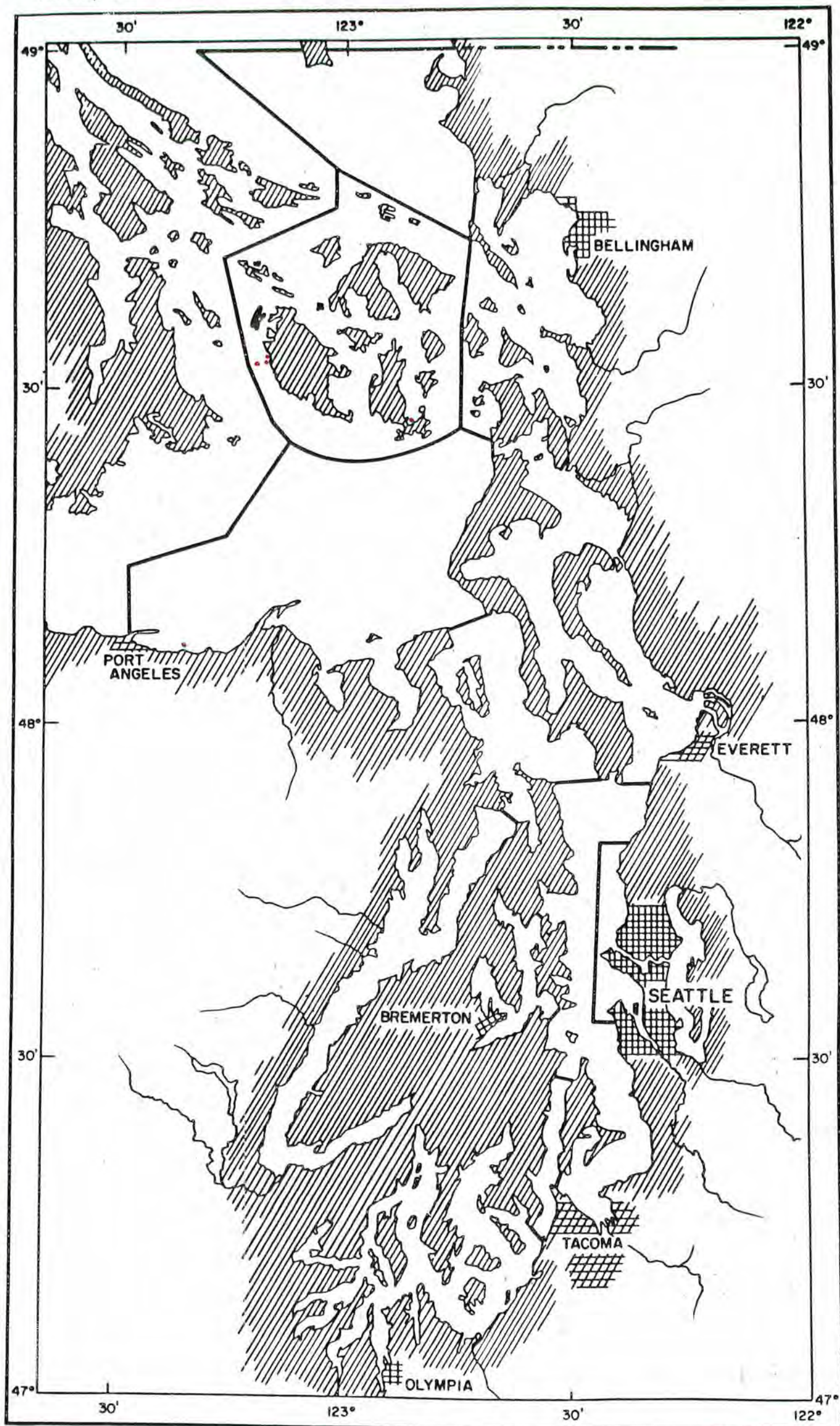
*Cyprinoāon variegatus*

Cyprinodontidae

Published Records

1-JF (estuary near Dungeness River  
mouth): Greenfield and Grinols,  
1965 (also museum 7725).







*Trachipterus altivelis*

## Trachipteridae

Published Records

- 1-SJ (reef netters): Walker, 1953.  
1-PS: Kincaid, 1919.  
1-JF (near Morse Creek):  
Seattle Times, 6/24/65.

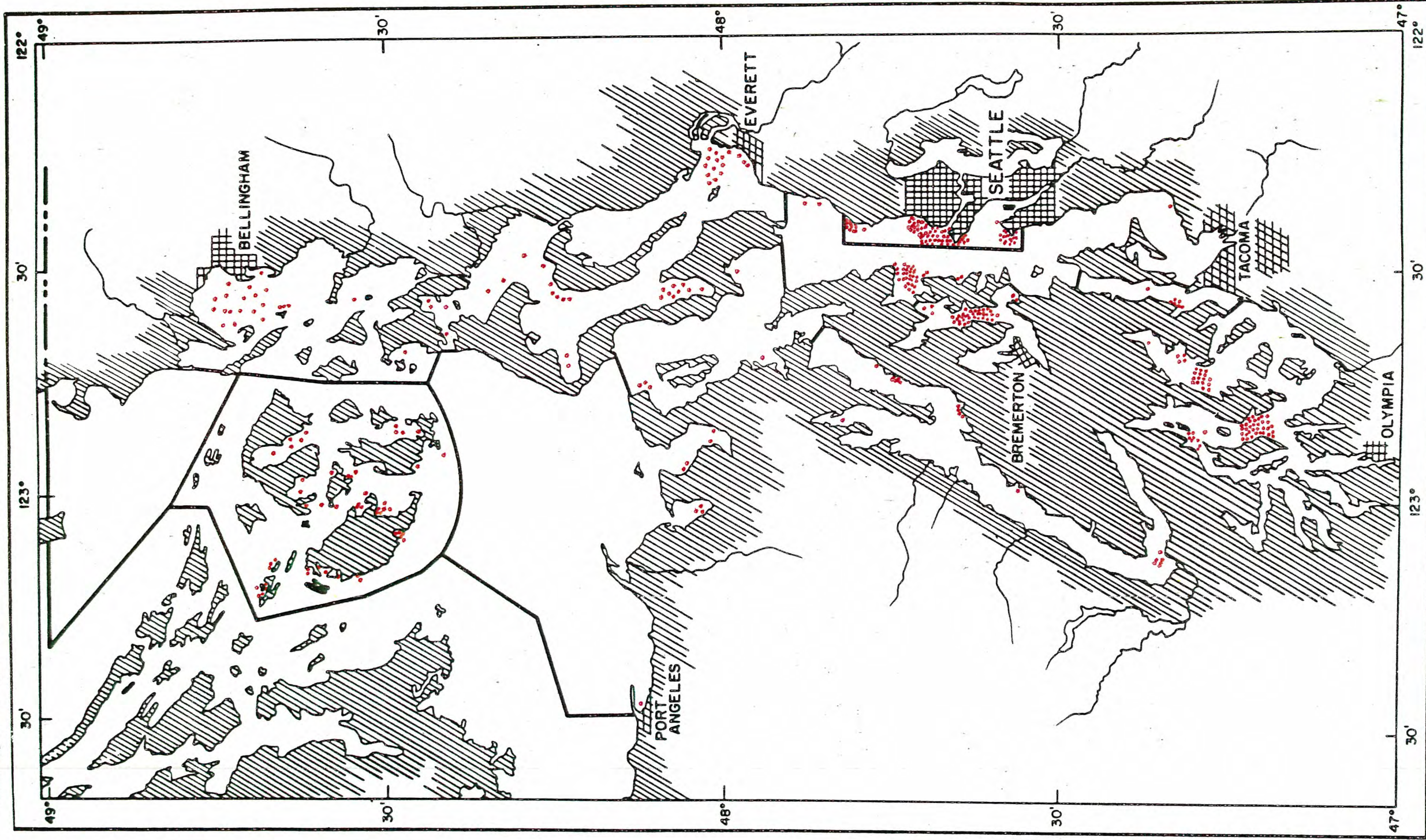
University of Washington  
Museum Collection

- 1-PS: 200528

Friday Harbor Laboratory Log

- 1-SJ (found on beach: Mud Bay, Lopez  
Island, at Henderson's Camp):  
8/22/55.  
1-SJ (Haro Strait): 8/27/68.  
1-SJ (San Juan Park, Haro Strait):  
Spring, 1969.  
1-SJ (found on beach, San Juan  
Park): 8/1/73.







*Aulorhynchus flavidus*

## Gasterosteidae

Published Records

- 1-AI (Port Townsend):  
Steindachner, 1877.  
1-JF (beach seine: Port Angeles):  
Gilbert, 1895.  
1-AI (Port Ludlow): Starks, 1896b.  
2-AI (Port Townsend):  
Evermann and Goldsborough, 1907.  
1-SJ: Starks, 1911.  
1-HC: Schultz and DeLacey, 1935-36.  
2-E (Similk Bay):  
Stober and Salo, 1970a.  
1-E (Skagit Bay):  
Stober and Salo, 1970a.  
1-S (Duwamish Head): Salo, 1969.  
3-E (Kiket Island to Strawberry  
Point): Stober and Salo, 1970b.  
2-B (beach seine: Bellingham Bay,  
north of Eliza Island):  
Tyler, 1964.  
3-CS (beach seine: south side of  
Point Jefferson): Kendall, 1966.

University of Washington  
Museum Collection

- 1-S (Youngs Cove): 11.  
1-PS (near Whidbey Island): 14.  
1-SJ (Davis Bay): 599.  
1-SJ: 733.  
16-S (Alki Point):  
757; 781; 818; 1439; 1922; 3632;  
4227; 4238; 4440; 658; 925; 4393;  
4819; 4898; 6155; 6197.  
11-S (Golden Gardens):  
768; 6002 (also boat 5021A); 5904  
(also boat 5032.1C); 5913 (also  
boat 5032.1E); 5808 (also boat  
5036A); 5647; 6066 (also boat  
5047A); 8209 (also boat 492E);  
8851; 14087; 16431.  
1-SJ (Brown Island): 2136.  
1-SJ (West Sound): 2231.  
1-SJ (Blind Bay): 2248.  
1-SJ (Deer Harbor): 2968.  
1-B (Burrows Bay): 4179.  
1-PO (Seabold): 4342.  
1-CS (Port Madison, west of Point  
Jefferson): 4442.  
2-PS: 4635; 8216.  
1-CS (mouth of Port Madison): 6083.  
1-SS (beach seine: west side of  
Cutts Island):  
8200 (also boat 5037E).  
1-SJ (Prevost Harbor): 10446 (also  
Friday Harbor Log, 8/19/52).  
1-SJ (north side Johns Island,  
second bay): 14088 (also Friday  
Harbor Log, 8/19/52-1).  
1-SJ (Smallpox Bay): 14089.  
1-E (Everett): 14090.  
1-PO (Agate Pass.): 14093.  
1-B (Chuckanut Bay): 18283.  
1-SJ (Iceberg Point): 2975.  
4-S (North Beach):  
4247; 4498; 4525; 4682.

- 2-S (south of West Point):  
4370; 4404.  
1-S (Ballard Beach): 4269.  
7-S (Edmonds): 4256; 4919; 4932;  
4933; 4934; 5288; 6119.  
1-S (off Ballard Locks): 4379.  
4-S (Edmonds Beach):  
4473; 4551; 5471; 5488.  
1-S (spit near Ballard Locks):  
4584.  
1-CS (beach seine: Redondo): 4730.  
1-S (Edwards Point to Wells Point):  
4977 and 4979.  
4-S (Carkeek Park):  
5529; 5557; 5567; 5977.  
1-S (off Golden Gardens):  
14126 (also boat 498A).  
1-S (beach seine: Carkeek Park):  
14695 (also boat 5808A).  
1-SJ (north side of Johns Island,  
second bay): 16432.  
1-B (Saddlebag Island): 16692.  
1-SJ (False Bay): 17973 (also  
Friday Harbor Log, 8/4/52-1).  
10-S (beach seine: Golden Gardens):  
14120 (also boat 5129B); 14113  
(also boat 5215U); 14125 (also  
boat 5015A); 14127 (also boat  
5209C); 16409 (also boat 5040A);  
16410 (also boat 5134A); 17842  
(also boat 5001); 17843 (also  
boat 5007D); 17844; 17845.  
1-SJ (East Sound, south of Rosario  
Point):  
19462 (also NIH, 1964-66).

Friday Harbor Laboratory Log

- 1-SJ (Satellite Island): 7/10/50-6.  
2-SJ (east Roche Harbor):  
7/31/50-2,3.  
3-SJ (False Bay):  
8/4/52-2; 8/5/60; 7/18/67.  
1-SJ (north side of Johns Island,  
second bay): 8/19/52-2.  
1-SJ (Prevost Harbor): 8/19/52.  
1-SJ (Garrison Bay): 6/25/55-3.  
3-SJ (Squaw Bay):  
8/1/55; 8/1/60-1; 7/10/61-1.  
1-SJ (Brown Island): 8/2/55.  
2-SJ (south of Satellite Island):  
8/15/55-1,2.  
1-SJ (Mud Bay): 8/15/55-3.  
1-SJ (south of Neck Point):  
8/14/50-1.  
1-SJ (north of Neck Point):  
8/14/50-2.  
1-SJ (outside False Bay):  
8/17/55-1.  
1-SJ (Mitchell Bay): 8/16/60-1.  
1-SJ (Westcott Bay): 8/16/60-2.  
1-SJ (White Beach): 8/16/60-4.  
2-SJ (North Bay): 8/16/60-1,2.  
1-SJ (McArdle Bay): 8/22/60-3.  
3-SJ (Argyle Bay):  
7/12/61-4; 7/15/63; 7/8/67.



*Aulorhynchus flavidus*

## Gasterosteidae

Friday Harbor Laboratory Log

- 1-SJ (Smallpox Bay): 7/13/61.  
 1-SJ (Turn Island): 7/30/61.  
 1-SJ (San Juan Island): 5/62.  
 1-SJ (Upright Channel): 7/5/63.  
 1-SJ (Friday Harbor Lab):  
 7/22/69-2.

University of Washington Boat Log

- 1-SJ (training cruise area: East Sound, north of Rosario Point): 6603H.  
 3-SJ (training cruise area: Lopez Sound, southwest of Center Island): 7118I; 7307I; 7110I.  
 1-E (Holmes Harbor, Dines Point to Classic): 5305C.  
 2-E (Holmes Harbor): 5305M; 5604I.  
 1-E (Holmes Harbor, south of Classic): 5307N.  
 1-HC (Dabob Bay, Broad to Long Spit): 6702F.  
 1-HC (Anderson Cove): 7009C.  
 2-CS (beach seine: Fay Bainbridge State Park): 5806A,B.  
 2-CS (Murden Cove): 6613A; 6710A.  
 13-S (off Golden Gardens):  
 4/2/49-2; 4/16/49-4; 494A,B;  
 498B; 5034B; 5112E; 5131C; 5132A,  
 B; 5512E,F; 5704D.  
 40-S (beach seine: Golden Gardens to Meadow Point):  
 5024A,C; 5032.1A; 5047B,C; 5105A,  
 B; 5114A,B,C; 5116B,C1,E; 5121B;  
 5127C; 5134B; 5137A,B; 5209D;  
 5214B; 5215B,C,H,K,M,N; 5320A;  
 5324E; 5328A; 5329E; 5415B;  
 5424B; 5505F; 5508C,D; 5513C,D;  
 5612A; 5710D; 6207A.  
 7-S (beach seine: Carkeek Park):  
 5220A; 5225A; 5231A; 5708B,C,D;  
 5808B.  
 2-S (off Meadow Point to Carkeek Park): 7120A,B.  
 2-PO (south of Battle Point):  
 5223B; 5228E.  
 1-PO (off Fletcher Bay): 5707A.  
 1-PO (beach seine: 1 mile north of Illahee State Park): 6205A1.  
 1-PO (trap): 6203B.  
 1-PO (off Seabold): 6617A.  
 1-CP (off Camp Sealath): 5009E.  
 1-SS (east of Cutts Island): 5037D.  
 1-SS (Carr Inlet): 5522C.  
 2-SS (Carr Inlet, west of Raft Island): 5045H; 5104M.  
 1-SS (off Wauna): 5101A.  
 2-S (beach seine: Golden Gardens):  
 6211; 6509.

Miscellaneous Logs

- 10+-B (Bellingham Bay, north of Eliza Island): R. Tyler,  
 personal communication, 6/3/63.

- 10+-E (east of Gedney Island):  
 R. Tyler, personal communication,  
 6/3/63.  
 1-S (off Duwamish Head to Alki Point): U.W. Ocean., 1964-67.  
 2-E (Port Gardner Bay):  
 U.W. Ocean., P.G., 1962-67.  
 27-PO (just south of Fletcher Bay):  
 U.W. Ocean., P.O., 1964-65.  
 50+-S (Golden Gardens to Meadow Point):  
 U.W. Ocean., Hoh, 1963-67.  
 3-PO (south and north of Fletcher Bay): U.W. Ocean., Hoh, 1963-67.  
 27-SS (Case Inlet, off Taylor Bay to off Whiteman Cove):  
 U.W. Ocean., Hoh, 1963-67.  
 17-SS (Carr Inlet, off Horsehead Bay): U.W. Ocean., Hoh, 1963-67.  
 18-CS (Port Madison):  
 U.W. Ocean., Hoh, 1963-68.  
 1-E (Penn Cove):  
 U.W. Ocean., Hoh, 1963-67.  
 4-E (Saratoga Pass., Demock Point):  
 U.W. Ocean., Hoh, 1963-67.  
 1-E (off Rocky Point to off Utsalady Point):  
 U.W. Ocean., Hoh, 1963-67.  
 4-E (Holmes Harbor):  
 U.W. Ocean., Hoh, 1963-67.  
 1-AI (Useless Bay):  
 U.W. Ocean., Hoh, S.J., 1966.  
 1-SJ (East Sound):  
 U.W. Ocean., Hoh, S.J., 1966.  
 2-E (Penn Cove; Utsalady):  
 U.W. Ocean., Hoh, S.J., 1966.  
 1-E (Holmes Harbor):  
 U.W. Ocean., Hoh, S.J., 1966.  
 1-SJ (East Sound, south of Rosario Point): NIH, 1964-66.  
 6-S (Meadow Point to Carkeek Park):  
 NIH, 1968-71.  
 1-HC (Big Beef Harbor): NIH, 69042.  
 1-SS (Case Inlet, Stretch Island to Herron Island): NIH, 1968-71.  
 2-CS (Port Madison):  
 Van Cleve, trap, 1961-65.  
 1-PO (off Fletcher Bay):  
 Van Cleve, trap, 1961-65.  
 1-SS (north part of Pickering Pass.):  
 Van Cleve, trap, 1961-65.  
 3-JF (lower half of Sequim Bay):  
 Sea Grant, 71111.  
 2-JF (upper Discovery Bay):  
 Sea Grant, 71111.  
 2-JF (lower Discovery Bay):  
 Sea Grant, 71111.  
 1-SJ (Argyle Bay): Bruce Miller,  
 Diving Log, 7/20/66.  
 1-SJ (southeast shore of East Sound): Bruce Miller, Diving  
 Log, 8/18/66.  
 1-CS (Picnic Point Beach): Bruce  
 Miller, Diving Log, 10/2/70.



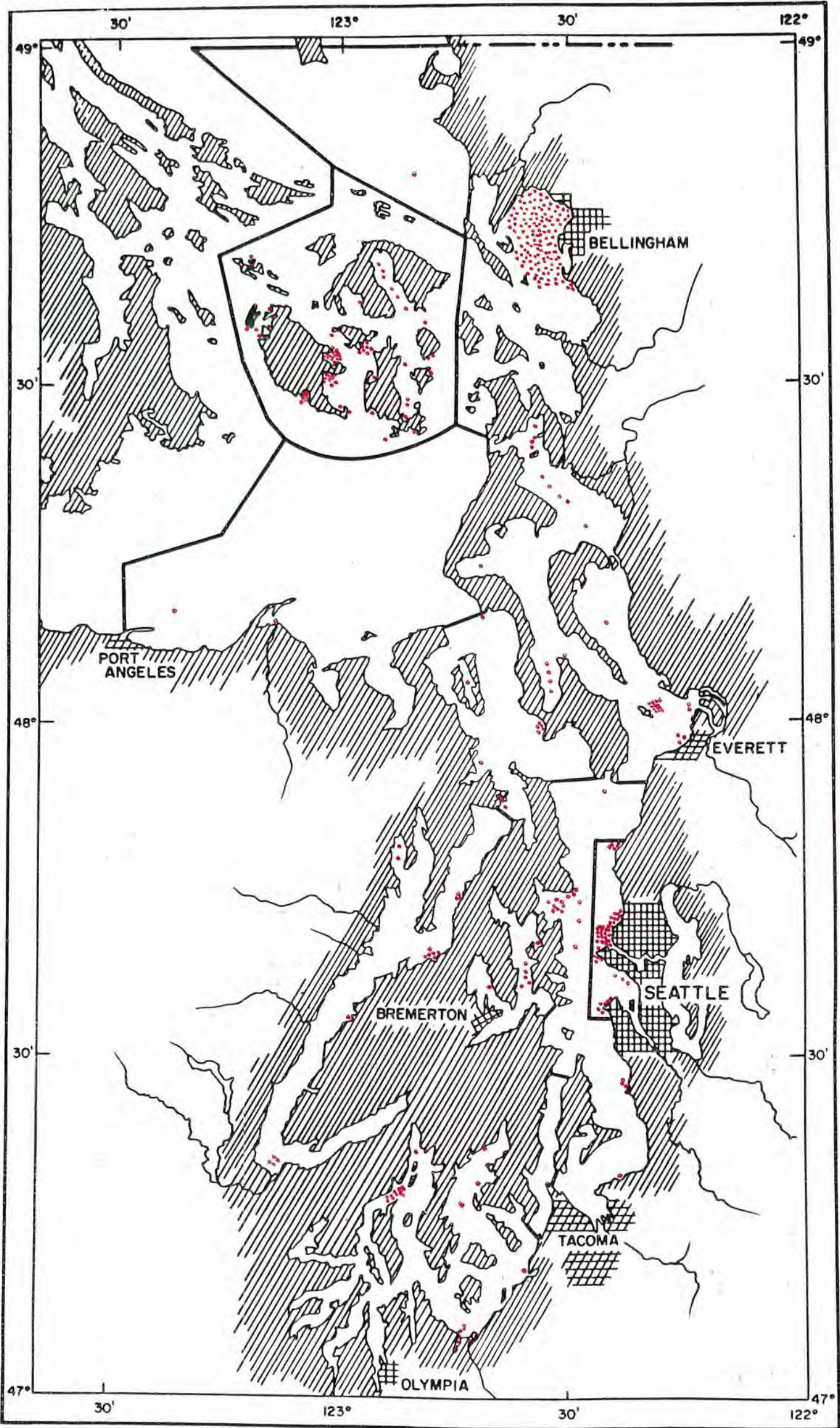
*Aulorhynchus flavidus*

## Gasterosteidae

Miscellaneous Logs

- 4-S (Golden Gardens):  
S.L. Ralston, Diving Log, 1971.
- 1-E (Bowman Bay):  
S.L. Ralston, Diving Log, 1971.
- 6-CP (beach seine: Gig Harbor spit):  
Sea Grant, 72003 (also boat  
7208).
- 3-AI (beach seine: Mutiny Bay):  
Sea Grant, 72015.
- 1-B (beach seine: Wildcat Cove  
launch ramp): Sea Grant, 72029.
- 1-S (beach seine: Golden Gardens):  
Sea Grant, 72032.
- 3-AI (beach seine: Mutiny Bay):  
Sea Grant, 72033.
- 3-B (just east of Eliza Island):  
Sea Grant, 72035.
- 3-S (beach seine: north side of West  
Point): Sea Grant, 1973.
- 2-S (beach seine: south side of West  
Point): Sea Grant, 1973.
- 1-CS (beach seine: Lunds Gulch,  
north of Meadowdale):  
Sea Grant, 73002.
- 11-S (north of Meadow Point to  
Carkeek Park): Sea Grant, 1973.
- 3-HC (off southwest of Big Beef  
Harbor): Sea Grant, 1973.
- 1-B (beach seine: Wildcat Cove  
launch ramp): Sea Grant, 1973.
- 5-SS (McLane Cove toward Stretch  
Island): Sea Grant, 1973.
- 3-SS (east side of Dougall Point):  
Sea Grant, 1973-74.
- 1-SS (mid-channel, McLane Cove to  
Stretch Island):  
Sea Grant, 1973.
- 1-HC (off Union): Sea Grant, 1973.
- 5-HC (off Skokomish River delta):  
Sea Grant, 1973-74.
- 1-HC (beach seine: just north of  
Vinland): Sea Grant, 73038.
- 1-AI (Mutiny Bay):  
Sea Grant, 73049.
- 5-HC (Bangor Annex): Kramer, Chin  
and Mayo, NCEL Survey, 1973.
- 2-PO (Clam Bay): NIH, 1968-71.







*Gasterosteus aculeatus*

## Gasterosteidae

Published Records

- 1-SS (Fort Steilacoom):  
Girard, 1857a; 1859.  
1-S (Ballard):  
Jordan and Starks, 1896.  
1-AI (Port Ludlow): Starks, 1896b.  
1-AI (Admiralty Head):  
Evermann and Goldsborough, 1907.  
1-AI (Kilisut Harbor):  
Evermann and Goldsborough, 1907.  
1-SJ: Starks, 1911.  
1-SJ (Friday Harbor): Powers, 1921.  
1-SJ: Shelford et al., 1935.  
1-HC (Holly):  
Schultz and DeLacy, 1935-36.  
6-E (Kiket Island to Strawberry  
Point): Stober and Salo, 1970b.  
1-E (Skagit and Similk Bays):  
Stober and Salo, 1970b.  
1-E (beach seine: Kiket Island):  
Stober and Salo, 1970a.  
1-E (Port Gardner): Salo, 1969.  
3-CS (beach seine: south side of  
Point Jefferson): Kendall, 1966.  
1-CS (Dumas Bay): Miller, 1971b.  
54-B (beach seine: Bellingham Bay,  
north of Eliza Island):  
Tyler, 1964.  
62-B (tow net: Bellingham Bay, north  
of Eliza Island): Tyler, 1964.  
3-HC (fyke net: in Big Beef Harbor):  
Anderson and Chew, 1972.  
1-SJ (Squaw Bay): Kohlruss, 1933.

University of Washington  
Museum Collection

- 1-S (Pipers Canyon): 146.  
2-SJ (False Bay): 561; 1130.  
3-SJ (Squaw Bay): 565; 2175; 689.  
3-SJ (East Sound): 700; 4970; 7389.  
2-S (Seattle): 713; 839.  
1-SJ: 725.  
4-S (Alki Point):  
750; 788; 1922; 660.  
1-SJ (near Peavine Pass.): 1112.  
1-SJ (near Olga): 1136.  
1-SJ (Davis Bay): 1189.  
1-SJ (False Bay Reef): 1489.  
9-SJ (Friday Harbor):  
2097; 2189; 11280; 11281; 11282;  
14095; 14097; 14099; 14100.  
3-HC (Bywater Bay):  
4438; 14654; 4457.  
2-S (North Beach): 4492; 4639.  
5-S (Edmonds Beach):  
4549; 5294; 5300; 5472; 7399.  
1-CS (off Cultus Bay):  
5921 (also boat 5032A).  
2-E (Snohomish River mouth):  
8214; 5093.  
1-HC (Quilcene): 8593.  
1-HC (beach seine: Quilcene Bay):  
14737.  
1-JF (Dungeness River mouth):  
16701.

- 1-AI: 17028.  
5-S (Golden Gardens): 5768 (also  
boat 5001); 6006 (also boat  
5021G); 6016 (also boat 5021B);  
5799 (also boat 5036A); 18036.  
1-GS (near Alden Bank): 5076.  
1-S (Carkeek Park): 5531.  
1-SJ (Fishermans Bay): 7360.  
1-S (Elliott Bay):  
14098 (also boat 5702AC1).  
2-S (beach seine: Golden Gardens):  
14114 (also boat 5134A); 16438  
(also boat 5040A).  
1-HC (Big Beef Harbor): 19005.  
1-SJ (Upright Channel): 17202 (also  
Friday Harbor Log, 7/5/63).  
1-SJ (Iceberg Point): 17988 (also  
Friday Harbor Log, 7/18/63-2).  
1-SJ (training cruise area: Lopez  
Sound, southwest of Center  
Island):  
19415 (also boat 6517I).

Friday Harbor Laboratory Log

- 1-SJ (Jackles Lagoon, Cattle Point):  
6/29/51.  
1-SJ (Argyle Pond): 7/3/52.  
15-SJ (Argyle Bay):  
7/21/52; 8/16/55-1,4; 7/5/60;  
7/15/60-2; 8/11/60-2,3,4;  
6/23/61; 7/12/61-1,3; 7/18/61-2;  
8/3/61; 7/15/63; 7/8/67.  
11-SJ (Friday Harbor Lab):  
7/30/52; 7/31/52; 8/1/52; 8/2/52;  
7/6/52; 7/7/52; 7/50; 8/4/61-2;  
7/12/69-2; 7/21/69-2; 7/22/69-2.  
3-SJ (Mitchell Bay):  
6/25/55-2; 8/16/60-1; 7/17/61-2.  
1-SJ (Garrison Bay): 6/25/55-3.  
3-SJ (Squaw Bay):  
8/1/55; 8/1/60-1; 7/10/61-1.  
1-SJ (south of Satellite Island):  
8/15/55-2.  
1-SJ (Mud Bay): 8/15/55-3.  
1-SJ (Satellite Island): 7/10/50-6.  
1-SJ (west of Goose Island):  
7/13/50-4.  
1-SJ (west of Decatur Head):  
7/24/50-1.  
2-SJ (west of Armitage Island):  
7/24/50-7,8.  
1-SJ (east of Roche Harbor):  
7/31/50-2.  
1-SJ (Open Bay): 7/31/50-4.  
1-SJ (south of Neck Point):  
8/14/50-1.  
1-SJ (south of Frost Island):  
6/19/50-2 (also boat 5033D).  
8-SJ (False Bay):  
7/17/50-1; 7/14/60; 7/24/60;  
8/5/60; 6/29/61; 7/26/61; 8/8/61;  
6/21/67-1; 7/18/67.  
1-SJ (Westcott Bay): 8/16/60-2.  
1-SJ (White Beach): 8/16/60-4.



*Gasterosteus aculeatus*

## Gasterosteidae

Friday Harbor Laboratory Log

- 8-SJ (Argyle Lagoon):  
 7/2/60; 7/11/60-1; 7/15/60-3;  
 7/31/60; 8/11/60-1; 7/12/60-2;  
 7/10/69-2,3.  
 2-SJ (North Bay): 8/18/60-1,2.  
 1-SJ (McArdle Bay): 8/22/60-3.  
 1-SJ (Mosquito Pass.): 7/17/61-1.  
 1-SJ (San Juan Island): 5/62.  
 1-SJ (Squaw Bay or West Sound):  
 6/30/67.  
 1-SJ (Squaw Bay-Ogden): 6/27/69.  
 1-SJ (night light: Friday Harbor  
 Lab dock): 7/28/73.

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- 2-E (Holmes Harbor): 5325A; 7110D2.  
 1-E (night light: Whidbey Island,  
 near East Point): 7213.  
 1-SJ (training cruise area: East  
 Sound, north of Rosario Point):  
 6717H.  
 3-B (training cruise area:  
 Bellingham Bay, southwest of Post  
 Point): 6630G; 7017G2, G1.  
 14-S (beach seine: Golden Gardens to  
 Meadow Point):  
 5032.1D; 5047A; 5116G2; 5121B;  
 5127C; 5129B; 5215H, I, L; 5414D;  
 5508C; 5612A; 5909E; 6509.  
 5-S (beach seine: Carkeek Park):  
 5221C; 5225A, B; 5313B; 5708B.  
 1-S (off Golden Gardens to Meadow  
 Point): 5508F.  
 1-S (beach seine: Alki Point to  
 Duwamish Head): 6619N.  
 1-PO (off Fletcher Bay): 6320B.  
 1-PO (night light: in Manzanita  
 Bay): 5518.  
 1-CS (trap: Port Madison): 6213.  
 1-SS (beach seine: west side of  
 Cutts Island): 5037E.  
 1-SS (beach seine: 1 mile north of  
 Minter Creek): 5126E.  
 1-SJ (night, south end of Lopez  
 Sound): 7017.

Miscellaneous Logs

- 10+-E (east of Gedney Island):  
 R. Tyler, personal communication,  
 6/3/63.  
 1-JF (mid-channel, north of Morse  
 Creek): NMFS, Cobb-76.  
 10+-B (Bellingham Bay):  
 FRI, Tyler Data Sheets, 1965.  
 1-S (Duwamish Head to Alki Point):  
 U.W. Ocean., 1964-67.  
 1-E (Port Gardner Bay):  
 U.W. Ocean., P.G., 1962-67.  
 10-PO (just south of Fletcher Bay):  
 U.W. Ocean., P.O., 1964-65.  
 26-S (Golden Gardens to Meadow  
 Point):  
 U.W. Ocean., Hoh, 1963-67.

- 1-SS (Carr Inlet, off Horsehead  
 Bay): U.W. Ocean., Hoh, 1963-67.  
 1-E (Port Gardner Bay):  
 U.W. Ocean., Hoh, 1963-67.  
 1-E (Penn Cove):  
 U.W. Ocean., Hoh, 1963-67.  
 1-E (herring trawl: Port Susan):  
 U.W. Ocean., 1968-69.  
 3-PO (herring trawl: south of  
 Fletcher Bay):  
 U.W. Ocean. 1968-69.  
 1-SJ (East Sound, south of Rosario  
 Point): NIH, 1964-66.  
 1-SJ (Argyle Spit): NIH, 1968-71.  
 1-B (Bellingham Bay, Nooksack River  
 to Marine Drive): NIH, 1968-71.  
 3-S (Golden Gardens to Carkeek  
 Park): NIH, 1968-71.  
 1-PO (Clam Bay): NIH, 1968-71.  
 2-CS (Port Madison):  
 Van Cleve, trap, 1961-65.  
 1-SJ (Argyle Bay): Bruce Miller,  
 Diving Log, 7/20/66.  
 1-SS (Case Inlet, North Bay):  
 S.L. Ralston, Diving Log, 1971.  
 1-AI (South Whidbey State Park):  
 S.L. Ralston, Diving Log, 1971.  
 1-S (south of Carkeek Park):  
 Sea Grant, 3/17/71.  
 5-AI (beach seine: Mutiny Bay):  
 sea Grant, 72015.  
 3-CS (beach seine: Seahurst County  
 Park): Sea Grant, 72016.  
 1-PO (beach seine: Dyes Inlet,  
 Tracyton launch ramp):  
 Sea Grant, 72018.  
 2-SS (beach seine: Nisqually Head):  
 Sea Grant, 72021.  
 1-S (beach seine: north side of West  
 Point): Sea Grant, 1973.  
 4-S (beach seine: south side of West  
 Point): Sea Grant, 1973.  
 1-S (north of Meadow Point to  
 Carkeek Park): Sea Grant, 1973.  
 4-SS (McAllister Creek estuary):  
 Sea Grant, 1973.  
 2-HC (off southwest of Big Beef  
 Harbor): Sea Grant, 1973.  
 1-HC (Big Beef Creek-Harbor, above  
 bridge): Sea Grant, 1973.  
 4-B (beach seine: Wildcat Cove):  
 Sea Grant, 1973.  
 10+-SS (mid-channel, McLane Cove to  
 Stretch Island):  
 Sea Grant, 1973.  
 1-HC (off Big Beef Harbor):  
 Sea Grant, 72026.  
 4-HC (Skokomish River delta):  
 Sea Grant, 1973.  
 3-HC (Bangor Annex): Kramer, Chin  
 and Mayo, NCEL Survey, 1973.  
 5-CS (Port Madison):  
 U.W. Ocean., Hoh, 1963-68.  
 3-CS (herring trawl: Skiff Point to  
 Point Jefferson):  
 U.W. Ocean., 1968-69.



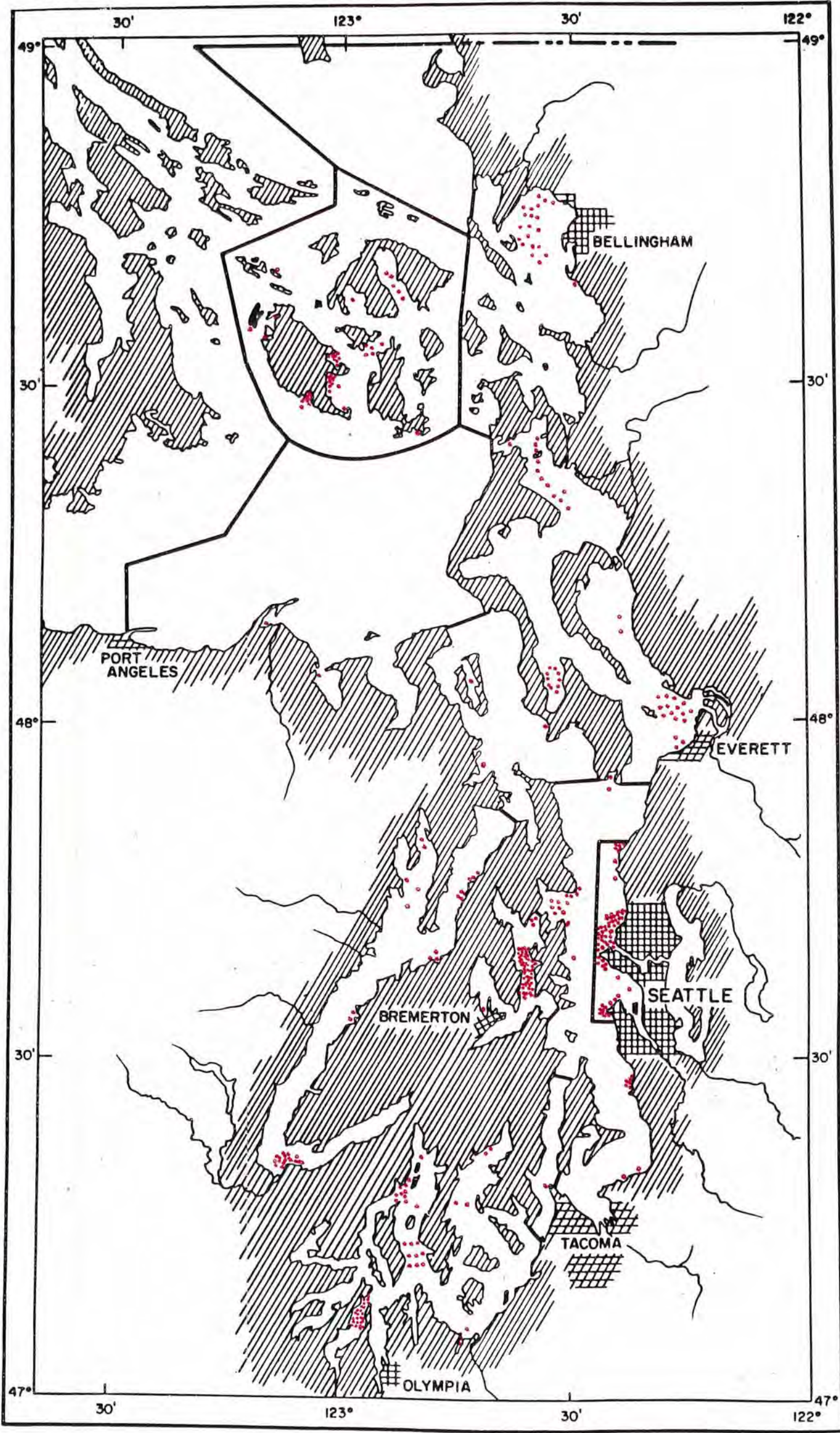
*Gasterosteus aculeatus*

## Gasterosteidae

Miscellaneous Logs

- 1-E (Holmes Harbor):  
U.W. Ocean., Hoh, S.J., 1966.  
1-E (Holmes Harbor):  
Van Cleve, trap, 1961-65.







*Syngnathus griseolineatus*

## Syngnathidae

Published Records

- 1-AI (Port Ludlow): Starks, 1896b.  
 1-AI (Kilisut Harbor):  
   Evermann and Goldsborough, 1907.  
 1-SJ: Starks, 1911.  
 1-SJ: Shelford et al., 1935.  
 1-HC (Holly):  
   Schultz and DeLacy, 1935-36.  
 1-E (Skagit and Similk Bays):  
   Stober and Salo, 1970b.  
 1-S (Duwamish Head): Salo, 1969.  
 9-E (townet: Kiket Island to  
   Strawberry Point):  
   Stober and Salo, 1970b.  
 8-B (beach seine: Bellingham Bay,  
   north of Eliza Island):  
   Tyler, 1964.  
 2-B (townet: Bellingham Bay, north  
   of Eliza Island): Tyler, 1964.  
 4-CS (beach seine: south side of  
   Point Jefferson): Kendall, 1966.  
 1-CS (Dumas Bay): Miller, 1971b.  
 1-CS (Seahurst County Park):  
   Miller, 1971b.  
 1-HC (Anderson Cove): Chew, 1970.  
 1-HC (fyke net: in Big Beef Harbor):  
   Anderson and Chew, 1972.  
 1-E (beach seine: Kiket Island):  
   Stober and Salo, 1970a.

University of Washington  
Museum Collection

- 2-SJ (East Sound): 631; 746.  
 3-SJ (False Bay): 586; 570; 1131.  
 1-S (Pipers Canyon): 140.  
 1-S (West Seattle): 186.  
 1-SJ (Squaw Bay): 560.  
 1-SJ (East Sound, White Beach):  
   592.  
 1-SJ (Flat Point): 719.  
 1-SJ: 735.  
 1-S (Seattle): 838.  
 7-S (Alki Point): 1922; 4504; 4825;  
   4831; 4895; 5129; 6214.  
 2-SJ (Friday Harbor): 2104; 14059.  
 12-S (Golden Gardens):  
   4181; 6004 (also boat 5021A);  
   6007 (also boat 5021G); 5945  
   (also boat 5032.1A); 5939 (also  
   boat 5032.1B); 5912 (also boat  
   5032.1C); 5930 (also boat  
   5032.1D); 5803 (also boat 5036A);  
   5656; 8848; 14055; 17972.  
 5-S (Edmonds):  
   4258; 4918; 4927; 4936; 6047.  
 1-S (Ballard Beach): 4270.  
 1-S (Magnolia): 4296.  
 2-S (North Beach): 4500; 4838.  
 1-SS (north of Minter Creek): 5635.  
 1-CS (off Cultus Bay):  
   5922 (also boat 5032A).  
 1-HC: 8281.  
 1-CP (Point Defiance): 14060.  
 1-PO (Ostrich Bay): 14068.

- 1-SS (beach seine: 1 mile north of  
   Minter Creek):  
   14073 (also boat 5126E).  
 1-SS (beach seine: mainland west of  
   Stretch Island): 14076.  
 1-CS (beach seine: Fay Bainbridge  
   State Park): 14404.  
 1-HC (Dabob Bay, Point Whitney):  
   14688.  
 1-CS (beach seine: Cultus Bay):  
   16433.  
 1-PO (Agate Pass., north of buoy  
   N4): 5828 (also boat 5020B).  
 1-S (beach seine: Alki Point):  
   4514.  
 4-S (Edmonds Beach):  
   4553; 5296; 5444; 5489.  
 1-S (beach seine: spit near Ballard  
   Locks): 4586.  
 1-S (beach seine: Redondo Beach):  
   4731.  
 1-S (Edwards Point to Wells Point):  
   4975 and 4986.  
 2-S (Carkeek Park): 5556; 5970.  
 1-S (Richmond Beach): 5581.  
 1-CS (Port Madison): 6090.  
 8-S (beach seine: Golden Gardens):  
   7374 (also boat 5007D); 8910  
   (also boat 5121A); 11394 (also  
   boat 5215B); 14080 (also boat  
   5215C); 14081 (also boat 5108B);  
   14083 (also boat 5108C); 14084  
   (also boat 5215G); 14086 (also  
   boat 5215I).  
 1-SJ (Upright Channel): 17212 (also  
   Friday Harbor Log, 7/5/63).  
 1-PO (Agate Pass.): 14052.  
 1-S (beach seine: Carkeek Park):  
   14079.

Friday Harbor Laboratory Log

- 1-SJ (Jackles Lagoon, Cattle Point):  
   6/29/51.  
 1-SJ (Open Bay): 7/31/50-4.  
 1-SJ (north Johns Island, second  
   Bay): 8/19/52-2.  
 4-SJ (Friday Harbor Lab.):  
   7/6/52; 8/4/61-2; 6/67; 8/5/69.  
 11-SJ (Argyle Bay):  
   7/5/60; 8/16/55-1,4; 7/15/60-3;  
   8/11/60-2,3; 6/23/61; 7/12/61-3;  
   7/18/61-2; 7/15/63; 7/8/67.  
 1-SJ (outside False Bay):  
   8/17/55-2.  
 5-SJ (False Bay):  
   7/17/50-1; 8/5/60; 6/29/61;  
   6/21/63; 7/18/67.  
 1-SJ (Mitchell Bay): 6/24/60.  
 3-SJ (Argyle Lagoon):  
   7/31/60; 8/11/60-1; 7/12/61-2.  
 1-SJ (Squaw Bay): 8/1/60-1.  
 1-SJ (Westcott Bay): 8/16/60-2.  
 2-SJ (North Bay): 8/18/60-1,2.  
 1-SJ (McArdle Bay): 8/22/60-3.



*Syngnathus griseolineatus*

## Syngnathidae

Friday Harbor Laboratory Log

- 1-SJ (West Sound): 6/26/61.  
 1-SJ (Friday Harbor): 6/27/61.  
 1-SJ (San Juan Island): 5/62.  
 2-SJ (Squaw Bay or West Sound):  
 6/30/67; 7/1/69-2.  
 1-SJ (Squaw-Ogden): 6/27/69.  
 1-SJ (night light: Friday Harbor  
 Lab): 1969.

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- 1-SJ (training cruise area: East  
 Sound, north of Rosario Point):  
 6819H.  
 2-HC (Dabob Bay, Broad Spit to Long  
 Spit): 7003E; 7303A.  
 2-HC (Dabob Bay): 7102A,L.  
 1-CS (off Murden Cove): 4/4/73B.  
 1-PO (trap): 6204.  
 1-PO (south of Agate Pass. bridge):  
 6711A.  
 1-PO (beach seine: 1 mile north of  
 Illahee State Park): 6205A1.  
 46-S (beach seine: Golden Gardens to  
 Meadow Point):  
 5012C; 5013; 5018A; 5019C; 5047B;  
 5110G; 5112G; 5114A; 5116A,B,D1,  
 E,F; 5119E; 5121B; 5127C; 5129B;  
 5137A; 5209A,B,D; 5214A1,A2,B,C,  
 D1,D2,E,F1,F2; 5215N; 5324E;  
 5328A; 5409; 5412B; 5414A; 5417A;  
 5419; 5508C; 5609B; 5909E; 5913B;  
 6014B; 6116C; 6207; 6211.  
 1-S (off Golden Gardens): 5119H.  
 1-S (beach seine: Carkeek Park):  
 5231A.  
 2-S (off Meadow Point to Carkeek):  
 7119A,B.  
 1-SS (trap, Eld Inlet): 6219-1.

Miscellaneous Logs

- 10+-E (east of Gedney Island):  
 R. Tyler, personal communication,  
 6/3/63.  
 9-B (Bellingham Bay):  
 FRI, Tyler Data Sheets, 1965.  
 1-S (Elliott Bay): Metro, 1966-70.  
 1-S (Duwamish Head to Alki Point):  
 U.W. Ocean., 1964-67.  
 3-E (Port Gardner Bay):  
 U.W. Ocean., F.G., 1962-67.  
 31-PO (just south of Fletcher Bay):  
 U.W. Ocean., P.O., 1964-65.  
 47-S (Golden Gardens to Meadow  
 Point):  
 U.W. Ocean., Hoh, 1963-67.  
 20-PO (south and north of Fletcher  
 Bay): U.W. Ocean., Hoh, 1963-67.  
 9-SS (Case Inlet, off Taylor Bay to  
 off Whiteman Cove):  
 U.W. Ocean., Hoh, 1963-67.  
 2-SS (Carr Inlet, off Horsehead  
 Bay): U.W. Ocean., Hoh, 1963-67.

- 1-E (Holmes Harbor):  
 U.W. Ocean., Hoh, S.J., 1966.  
 4-CS (Port Madison):  
 U.W. Ocean., Hoh, 1963-68.  
 2-E (Port Susan):  
 U.W. Ocean., Hoh, 1963-67.  
 1-E (Holmes Harbor):  
 U.W. Ocean., Hoh, 1963-67.  
 1-SS (Stretch Island to Herron  
 Island): NIH, 1968-71.  
 2-CS (Port Madison):  
 Van Cleve, trap, 1961-65.  
 2-PO (off Fletcher Bay):  
 Van Cleve, trap, 1961-65.  
 29-SS (Eld Inlet entrance):  
 Van Cleve, trap, 1961-65.  
 7-E (Holmes Harbor):  
 Van Cleve, trap, 1961-65.  
 1-JF (beach seine: Dungeness  
 embayment):  
 Peninsula College, 1971.  
 1-JF (Sequim Bay):  
 Battelle, 1967-69.  
 1-SJ (East Sound): Bruce Miller,  
 Diving Log, 9/9/65.  
 1-SJ (Friday Harbor): Bruce Miller,  
 Diving Log, 9/10/65.  
 1-SJ (Argyle Bay): Bruce Miller,  
 Diving Log, 7/20/66.  
 1-SS (Case Inlet, North Bay):  
 S.L. Ralston, Diving Log, 1971.  
 4-S (Golden Gardens):  
 S.L. Ralston, Diving Log, 1971.  
 1-E (Bowman Bay):  
 S.L. Ralston, Diving Log, 1971.  
 1-AI (beach seine: Mutiny Bay):  
 Sea Grant, 72011.  
 5-CS (beach seine: Seahurst County  
 Park): Sea Grant, 72016.  
 2-PO (beach seine: Dyes Inlet,  
 Tracyton launch ramp):  
 Sea Grant, 72018.  
 1-SS (beach seine: Nisqually Head):  
 Sea Grant, 72021.  
 1-HC (off Big Beef Harbor):  
 Sea Grant, 72026.  
 1-B (beach seine: Wildcat Cove):  
 Sea Grant, 72029.  
 5-S (beach seine: south side of West  
 Point): Sea Grant, 1973.  
 1-S (off northwest side of West  
 Point): Sea Grant, 1973.  
 6-S (north of Meadow Point to  
 Carkeek Park): Sea Grant, 1973.  
 2-SS (McAllister Creek estuary):  
 Sea Grant, 1973.  
 1-HC (off southwest of Big Beef  
 Harbor): Sea Grant, 1973.  
 2-SS (McLane Cove toward Stretch  
 Island): Sea Grant, 1973.  
 1-SS (west side of Dougall Point):  
 Sea Grant, 1973.  
 5-SS (mid-channel, McLane Cove to  
 Stretch Island):  
 Sea Grant, 1973-74.



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Syngnathidae

Miscellaneous Logs

- 5-HC (off Union):  
Sea Grant, 1973-74.  
10-HC (Skokomish River Delta):  
Sea Grant, 1973-74.  
3-HC (beach seine: just north of  
Vinland): Sea Grant, 73038.  
4-HC (Bangor Annex): Kramer, Chin  
and Mayo, NCEL Survey, 1973.  
3-S (Golden Gardens to Meadow  
Point): NIH, 1968-71.



Published Records

- 1-SJ: Starks, 1911; Kincaid, 1919.  
1-B (Shannon Point):  
Halstead, 1950.  
1-GS (Point Roberts Reef):  
Slipp and DeLacy, 1952 (also  
museum 5362).  
1-GS (6 miles south of Point  
Roberts): Slipp and Delacey,  
1952 (also museum 5639).  
1-PS: Bayliff, 1959.

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Museum Collection

- 1-SJ (near Olga): 1208.  
1-CS (off Point Jefferson):  
6228 (also boat 5112D).  
1-HC (Thorndike Bay):  
6857 (also probably boat 499J).  
1-PS (Bellingham Bay-Point Roberts):  
6997.  
1-CS (off Meadow Point to Point  
Jefferson): 9100.  
1-CS (off Meadow Point to Point  
Monroe): 12252.  
1-CS (off Fay Bainbridge State  
Park): 14427 (also boat 5806C).  
1-GS (American side): 9098.

Friday Harbor Laboratory Log

- 1-SJ (northwest of Barnes Island):  
6/20/50-3 (also boat 5033J).  
1-SJ (Lopez Sound to East Sound):  
7/1/52.  
1-SJ (Friday Harbor): 6/21/55-2.  
1-JF (west of McArthur Bank):  
8/8/60.  
1-SJ (Lopez Sound): 8/22/60-4.  
1-SJ (West Sound): 6/20/69-2.  
1-SJ (Argyle Bay): 7/10/69-4.

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- 1-S (off Golden Gardens): 5416.  
1-CS (Point Jefferson to off Carkeek  
Park): 5911B.  
1-CS (off West Point): 6611B.  
7-CS (training cruise area: mid-  
channel, Skiff Point to West  
Point): 6623E; 6819B; 7118B;  
6914B; 7017B; 7213B; 7308B.