

New PASGAP 5



Pacific
Sea
Grant
Advisory
Program

INVENTORY

of marine resources publications and films

Compiled by
OREGON STATE UNIVERSITY
SEA GRANT MARINE ADVISORY PROGRAM

This publication is an inventory of printed and audio-visual material on marine resources that is available from the six western universities participating in the Pacific Sea Grant Advisory Program.

It is divided into three sections in the following order: publications, films, and supplementary bibliographies. Each is coded with a color for quick identification. This color coding is:

Publication Index, Section I -----	Blue
Alphabetical listing -----	White
Film Index, Section II -----	Green
Alphabetical listing -----	White
Bibliographies, Section III -----	Yellow

INTRODUCTION
TO
PACIFIC SEA GRANT ADVISORY PROGRAM
MARINE RESOURCES PUBLICATIONS AND FILMS INVENTORY

When they were meeting to form the Pacific Sea Grant Advisory Program, representatives of six western universities* and the National Marine Fisheries Service identified a need for an inventory of printed and audio-visual materials dealing with marine resources. The representatives asked the Publications Committee of the newly formed Pacific Sea Grant Advisory Program** to prepare such a summary for use by participating institutions and others concerned with the transfer of information about the sea. Each institution submitted lists of materials it had available. These lists and descriptions were compiled at Oregon State University by extension education aide Rodney Kaiser as part of the OSU Sea Grant Marine Advisory Program.

This initial compilation should be viewed as a working document. We consider it to be a "trial balloon" and we solicit your comments regarding its content, categories, and general utility. Eventually, the inventory is expected to be revised and printed annually as a publication of the Pacific Sea Grant Advisory Program. Before then, we are eager to work out the kinks. You can help by making your observations known to us. Write to: Gwil Evans, Extension Specialist, Marine Science Information, Oregon State University, Waldo Hall, Corvallis, Oregon 97331.

*University of Alaska, University of British Columbia, University of Hawaii, Oregon State University, University of California, University of Washington.

**At the time of this writing, the Pacific Sea Grant Advisory Program remained embryonic, awaiting word of action on a proposal for federal support.

Format of the inventory. The inventory is divided into three sections: Publications (Section I), Films (Section II), and Supplementary Bibliographic References (Section III). Sections I and II are further subdivided. In each of those sections you will find:

1. A listing of subject-matter categories under which the materials are inventoried.
2. The index of materials themselves, by subject-matter category.
3. An alphabetized list describing each entry in the inventory and identifying its source.

You will notice that materials are listed only by title under the subject-matter categories. After you have found titles that are of interest to you, turn to the alphabetical listing which follows. There you will find a complete description of the entry and the source from which you may obtain it.

Additional materials. Of course, many materials are available that are not inventoried here. To find out about other publications and films you may wish to consult some of the bibliographic references in Section III.

Criteria. In general, the materials inventoried here met the following qualifications:

- Published or produced by or available from one of the institutions participating in the Pacific Sea Grant Advisory Program*;
- Current and available;
- Intended not for strictly scientific audiences, but for broader, less technically oriented audiences such as the general public, educators fishermen, seafood processors, and so on.

*Because of the large volume of material produced by the National Marine Fisheries Service, none was included in this first inventory, but it may be expected to be included in future issues after appropriate decisions have been made.

In some cases, where materials did not exactly fit these criteria we preferred to err on the side of including too much rather than too little. This first inventory includes 91 publications and 124 films. Undoubtedly, if the inventory meets the need that has been identified, the number of entries will grow rapidly.

Gwil Evans
Oregon State University

December, 1970

SECTION I: PUBLICATIONS

These subject titles are used in the index of publications.

Aquariums
Beaches---see Seashore
Boats
California, Northern
California, Southern
Canning---see Seafood
Clams
Commercial Fishing---see Fisheries, commercial; Crabs; Seals
Conservation
Continental Shelf
Cooking
Crabs
Crayfish
Currents---see Ocean, currents
Disease
Dungeness Crabs---see Crabs
Economics---see Fisheries, economics
Education
Employment
Estuaries
Fisheries
Fisheries, Economics
Fisheries, Commercial
Fisheries, Sport
Fishes
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Fish Plants
Food Science
Geology
Geophysics
Hawaii
Hydrology
Mammals
Marine Animals---see Fisheries; Fishes; Mammals
Marine Biology
Marine Resources
Marine Science Center---see Oregon State University
Mollusks---see Clams
Ocean
Ocean, Currents
Ocean, Floor
Ocean, Waves
Oceanic
Oceanography
Oregon State University

SECTION I: PUBLICATIONS

(continued)

Pesticides
Phytoplankton
Plants
Pollution
Red Tide
Salmon Eggs
Sanitation---see Fish Plants; Seafood
San Francisco Bay
Seafood
Seals
Seashore
Sediment
Shells
Shrimp
Squid
Tidal Wave---see Tsunamis
Tsunamis
Water
Waves---see Ocean, waves

Note regarding Agricultural Experiment and Cooperative Extension Bulletins
from Oregon State University:

Single copies of all Agricultural Experiment Station technical bulletins and all Cooperative Extension bulletins will be mailed free to Oregon residents and to research workers upon request. Non residents should write the Bulletin Clerk, Industrial Building, Oregon State University, Corvallis, Oregon 97331, for information as to cost.

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SECTION I: PUBLICATIONS

AQUARIUMS

Home Aquarium and its Care, The

BEACHES---see Seashore

BOATS

Commercial Fishermen and Adult Education
Oceanographic Fleet-Oregon State University

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Introduction to the Natural History of Southern California
Seashore Life of Southern California
Seashore Plants of Southern California

CANNING---see Seafood

CLAMS

A Guide for Buying Oregon Fish and Shellfish
Crisis in Oregon Estuaries
Red Tides in California
Home Freezing of Seafood
Seashore Life of Southern California
Shell Collecting: An Illustrated History

COMMERCIAL FISHING---see Crabs; Fisheries, commercial; Seals

CONSERVATION---see also Fisheries; Ocean

Career Opportunities in Water Resources
Crisis in Oregon Estuaries
Department of Fisheries and Wildlife, Oregon State University
(career pamphlet)
Don't Bring 'Em Back Dead or Alive (poster)
Food and the Future
Man and Aquatic Communities
Pesticides Kill People Too
Water Studies in Oregon

CONTINENTAL SHELF

Continental Shelf Sediments off Oregon
Phytoplankton, Grass of the Sea

COOKING

Catching, Cleaning and Cooking Bay Crabs
Catching and Cooking Crayfish
Outdoor Cookery for the Family
Smokehouse for the Sportsman
To Can Fish in Glass Jars
To Can Fish in Tin Cans

SECTION I

CRABS---see also Fisheries, commercial and sport
Catching, Cleaning and Cooking Bay Crabs
Crabs of Sagami Bay
Guide for Buying Oregon Fish and Shellfish
Home Freezing of Seafood
Introduction to Seashore Life of the San Francisco Bay Region and
the Coast of Northern California
Long-Line (set-line) Crab Pot System
Seashore Life of Southern California

CRAYFISH
Catching and Cooking Crayfish

CURRENTS---see Ocean, currents

DISEASE
Facts on Salmonella

DUNGENESS CRAB---see Crabs

ECONOMICS---see Fisheries, economics

EDUCATION---see also Fisheries, economics; Oceanography
Commercial Fishermen and Adult Education
Oceanography at Oregon State University
Today's Youth in Tomorrow's Sea

EMPLOYMENT---see Fisheries; Oceanography

ESTUARIES---see also Conservation; Fisheries; Seashore
Crisis in Oregon Estuaries
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FISHERIES---see also Crab; Conservation; Fisheries, commercial and sport;
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Crisis in Oregon's Estuaries
Department of Fisheries and Wildlife, Oregon State University
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Pricing and Marketing Oregon Seafoods

FISHERIES, Commercial
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Commercial Fishermen and Adult Education
Long-Line (set-line) Crab Pot System
Plastics as a Fish-Hold Lining Material

FISHERIES, Economics
Background on Oregon's Marine Industry
Commercial Fishermen and Adult Education
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Economic Evaluation of the Oregon Salmon and Steelhead Sport Fishery

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Food and the Future
Guide for Buying Oregon Fish and Shellfish
Plastics as a Fish-Hold Lining Material
Pricing and Marketing Oregon Seafoods

FISHERIES, Sport

Catching, Cleaning and Cooking Bay Crabs
Economic Evaluation of the Oregon Salmon and Steelhead Sport Fishery
Evaluation of the Punch Card Method of Estimating Salmon-Steelhead
Sport Catch
Fisherman Returns, The
Ocean Fishing
Preparing Cluster Egg Baits From Salmon and Steelhead Roe

FISHES

Deep-Water Fishes of California
Field Guide to Common Marine and Bay Fishes of Oregon
Fishes of the Pacific Coast of Canada
Offshore Fishes of California

FISHING

Ocean Fishing

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Fish Plant Sanitation and Cleaning Procedures
Pricing and Marketing Oregon Seafoods

FOOD SCIENCE

Sea Grant Science and Technology (summary of first meeting May 24, 1970)

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Landslides of Oregon: North Coast

GEOPHYSICS---see also Oceanography

A Preliminary Study of Ocean Waves in the Hawaiian Area

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Introduction to the Natural History of the San Francisco Bay Region
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- Employment Outlook for Oceanographers
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- Oregon State University's Marine Science Center Welcomes You

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- Pesticides Can Kill People Too

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Crisis in Oregon's Estuaries
Man and Aquatic Communities
Water Studies in Oregon

RED TIDE

Red Tide in California

SALMON EGGS

Preparing Cluster Egg Baits From Salmon and Steelhead Roe

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Home Freezing of Seafood
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Don't Bring 'Em Back Dead or Alive (poster)
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Landslides of Oregon-North Coast
Rare Shells

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- Seashore Plants of Southern California
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- Distribution and Abundance of the Epipelagic Squid (Cephalopoda, Decapoda) of the California Current

TIDAL WAVE---see Tsunamis

TSUNAMIS

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- Advanced Education in Water Resources at Oregon State University
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- Graduate Study in Water Resources-Oregon State University
- Heat Can Hurt
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- Water Studies in Oregon

WAVES---see Ocean, waves

PUBLICATIONS

- Advanced Education in Water Resources
at Oregon State University
Bulletin explaining areas of study
in water resources with suggested
programs included. Free
- Water Resources Research Institute
Covell Hall 115
Oregon State University
Corvallis, Oregon 97331
- Background on Oregon's Marine Industry
August 1970. Extension Cir. 750
Booklet covering economics of Oregon's
many marine resources, ocean commerce
and the recreational importance of
Oregon's coastal areas. Free
- Bulletin Clerk
Industrial Building
Oregon State University
Corvallis, Oregon 97331
- Career Opportunities in Water Resources
Spring 1966. Booklet describing
education, skills required, and
employment opportunities available.
Free
- Water Resources Research Institute
Covell Hall 115
Oregon State University
Corvallis, Oregon 97331
- Catching, Cleaning and Cooking Bay Crabs
February 1970. Extension Cir. 744
Photos and drawings illustrating
methods of catching, cleaning and
cooking of bay crabs. Free
- Dept. of Fisheries and Wildlife
BioScience Building
Oregon State University
Corvallis, Oregon 97331
- Catching and Cooking Crayfish
February 1970 (Reprinted). Fact
Sheet 56. Fact sheet illustrated
with photos describes common ways
of catching and preparing crayfish.
Free
- Bulletin Clerk
Industrial Building
Oregon State University
Corvallis, Oregon 97331
- Commercial Fishermen and Adult Education
October 1970. A study of British
Columbia fishermen and their interest
in selected subjects. Free
- Fisheries Programs
Center for Continuing Education
University of British Columbia
Vancouver 8, Canada
- Continental Shelf Sediment off Oregon
October 1968. Sea Grant Publications.
Booklet describing various bottom
sediments on the continental shelf off
Oregon. Drawings show where each
sediment type occurs along the Oregon
coast. Free
- Extension Marine Advisory Program
Waldo Hall
Oregon State University
Corvallis, Oregon 97331
- Crabs of Sagami Bay, The
1965. 556 p. Publication 15BN-0-
8428-0033-8. Book (in press).
Extensive studies on marine organisms
of Sagami Bay, Japan. Contains 100
full-color illustrations and map. \$25
- East-West Center Press
1777 East-West Center Road
Honolulu, Hawaii 96822

- Crisis in Oregon Estuaries
May 1970. Sea Grant #4. A summary of environmental factors affecting Oregon estuaries. Photos show examples of landfills in estuaries. Free
- Deep-Water Fishes of California
1968. Publication 00421-3. California Natural History Guide #25. A pocketbook with photos, drawings and charts of California's deep-water fish. \$2.25
- Department of Fisheries & Wildlife-Oregon State University (career pamphlet)
A list of suggested high school courses as preparation for a career in fish and game. Pamphlet shows where to write for information at OSU. Photos illustrate various phases of fish and game research at OSU. Free
- Distribution and Abundance of the Epipelagic Squid (Cephalopoda, Decapoda) of the California Current
Research Bulletin #14, Scripps Institute of Oceanography. Cost unknown
- Don't-Bring 'Em Back Dead or Alive
Poster. Sea Grant #3. 8 1/2 x 11 poster illustrates law against taking marine life from the beach. Free
- Economic Evaluation of the Oregon Salmon & Steelhead Sport Fishery, An
September 1964. Technical Bull. 78
Free
- Employment Outlook for Oceanographers
Bulletin No. 1550.29 US Dept. of Labor. Free
- Enjoy the Beaches--in Safety
June 1966. Extension Cir. 721. An illustrated pamphlet with beach safety pointers. Free
- Estuaries...Cradles or Graves
September 1969. CWA-15. Leaflet with drawings of what an estuary is, why they are important, what is destroying them and present action and future goals needed to save them. Free
- Extension Marine Advisory Program
Waldo Hall
Oregon State University
Corvallis, Oregon 97331
- University of California Press
2223 Fulton Street
Berkeley, California 94720
- Department of Fisheries & Wildlife
BioScience Building
Oregon State University
Corvallis, Oregon 97331
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- Bulletin Clerk
Industrial Building
Oregon State University
Corvallis, Oregon 97331
- Water Resources Research Institute
Covell Hall
Oregon State University
Corvallis, Oregon 97331

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| <p>Evaluation of the Punch Card Method of Estimating Salmon-Steelhead Sport Catch, An
November 1964. Technical Bull. 81
A statistical analysis of the Oregon salmon and steelhead sport fishery.
Free</p> | <p>Bulletin Clerk
Industrial Building
Oregon State University
Corvallis, Oregon 97331</p> |
| <p>Facts on Salmonella
December 1968. Extension Cir. 741
(limited number) Fact sheet telling what salmonella is, where it is found and preventive measures to take.
Free</p> | <p>Bulletin Clerk
Industrial Building
Oregon State University
Corvallis, Oregon 97331</p> |
| <p>Field Guide to Common Marine and Bay Fishes of Oregon
May 1970. Station Bulletin 607
Bulletin describes the many marine and bay fish of Oregon with drawings for each fish showing characteristic features. Glossary is also included.
Free</p> | <p>Bulletin Clerk
Industrial Building
Oregon State University
Corvallis, Oregon 97331</p> |
| <p>Fish Plant Sanitation and Cleaning Procedures
December 1970. Sea Grant Bull. #1
Information directed at the plant foreman or fish plant operator with no quality control department. Free</p> | <p>Fisheries Extension Program
University of Alaska
College, Alaska 99701</p> |
| <p>Fisherman Returns, The
1965. Publication P-27
Bulletin contains recipes and how to care and prepare fish. 10¢</p> | <p>Cooperative Extension Service
University of Alaska
College, Alaska 99701</p> |
| <p>Fishes of the Pacific Coast of Canada
1961. Bulletin #68. Book, 443 p.
Illustrated with many photos, this text describes all the known fish that inhabit the waters of the Pacific Coast of Canada. Keys to the fishes and glossary are included. \$8.50</p> | <p>Fishery Research Board of Canada
Sir Charles Tupper Building
Ottawa 8, Ontario
Canada</p> |
| <p>Fishing Business Management & Economic Information
August 1970. Sea Grant #6
Analysis of some business management procedures for the fisherman, ways to increase profits and how to interpret this and other information to benefit the fisherman. Free</p> | <p>Extension Marine Advisory Program
Waldo Hall
Oregon State University
Corvallis, Oregon 97331</p> |

<p>Food and the Future May 1967. Pamphlet contains a series of special lectures and seminars conducted at University of British Columbia on the theme "Food and the Future." Free</p>	<p>University of British Columbia Agriculture and Fisheries Programs Department of Extension Vancouver, Canada</p>
<p>Freezing Fish to Maintain Quality 1970. Publication P-127 Bulletin illustrated with drawings of how to freeze fish and maintaining quality of the fish once frozen. Free.</p>	<p>Cooperative Extension Service University of Alaska College, Alaska 99701</p>
<p>Graduate Studies in Water Resources 1970. Bulletin explains educational opportunities in the United States for graduate studies in water resources. Free</p>	<p>Water Resources Research Institute Covell Hall 115 Oregon State University Corvallis, Oregon 97331</p>
<p>Graduate Studies in Water Resources- Oregon State University Pamphlet with photos, describing educational programs, facilities for study and research and admission requirements in water resources at OSU. Free</p>	<p>Same as above</p>
<p>Guide for Buying Oregon Fish and Shellfish August 1970 (reprinted). FS 170 One page fact sheet describing species available on the market, season when most available, and recommended forms of freezing. Free</p>	<p>Bulletin Clerk Industrial Building Oregon State University Corvallis, Oregon 97331</p>
<p>Hawaii Institute of Geophysics, The 1962. HIG Contrib 30. Free</p>	<p>Hawaii Institute of Geophysics University of Hawaii 2525 Correa Road Honolulu, Hawaii 96822</p>
<p>Heat Can Hurt September 1969. CWA-14 Leaflet describing the damaging effects of heat in our streams, lakes and estuaries; control methods available for discharged heated waters. Free</p>	<p>Water Resources Research Institute Covell Hall 115 Oregon State University Corvallis, Oregon 97331</p>
<p>Home Aquarium and its Care, The a 14 page bulletin on how to care for a home aquarium, and what to put in it. Free</p>	<p>Department of Fisheries & Wildlife BioScience Building Oregon State University Corvallis, Oregon 97331</p>

<p>Home Freezing of Seafood 1970. Sea Grant #7. Booklet shows the housewife how to choose, prepare, wrap, label, store and thaw seafood. Free</p>	<p>Extension Marine Advisory Program Waldo Hall Oregon State University Corvallis, Oregon 97331</p>
<p>How About the Water Booklet telling what quality water should be, and defines the different standards used for water quality. Free</p>	<p>Water Resources Research Institute Covell Hall 115 Oregon State University Corvallis, Oregon 97331</p>
<p>Hydrology Fact sheet defining the hydrologic cycle and illustrating principles involved. Free</p>	<p>Same as above</p>
<p>Introduction to the Natural History of the San Francisco Bay Region California Natural History Guide #1 Pocketbook \$1.50</p>	<p>University of California Press 2223 Fulton Street Berkeley, California 94720</p>
<p>Introduction to the Natural History of Southern California California Natural History Guide #13 Pocketbook \$1.95</p>	<p>Same as above</p>
<p>Introduction to Seashore Life of the San Francisco Bay Region and the Coast of Northern California 1962. California Natural History Guide #9. Pocketbook \$1.95</p>	<p>Same as above</p>
<p>Kuroshio, The: A Symposium on the Japan Current 1970. Publication-ISBN-0-8248-0090-7 Book 626 p. The Kuroshio is one of the principal currents in the Pacific and is of vital concern to fishing industries of Asia. Reports findings of the International Cooperative Study of the Kuroshio and Adjacent regions. \$17.50</p>	<p>East-West Center Press 1777 East-West Center Road Honolulu, Hawaii 96822</p>
<p>Landslides of Oregon--North Coast December 1970. Sea Grant #5 Booklet explaining different landslide and rock types on the North Coast, and procedures for landslide prevention. Photos and drawings show various areas with landslide problems and how they have been corrected. Free</p>	<p>Extension Marine Advisory Program Waldo Hall Oregon State University Corvallis, Oregon 97331</p>

- Long-Line (Set-Line) Crab Pot System
 July 1970. Circular of Information
 630. Booklet describing the complete
 rigging and setting of the long-line
 crab pot system. Photos and drawings
 show how the pot system and boat must
 be equipped. Also explained is how to
 run the gear when it is actually
 installed. Free
- Bulletin Clerk
 Industrial Building
 Oregon State University
 Corvallis, Oregon 97331
- Man and Aquatic Communities
 July 1970. Semn. WR. 012.70
 A collection of 12 seminars conducted
 Spring Term 1970 at Oregon State
 University by the Water Resources
 Research Institute. Topics discussed
 include man's use of fresh and salt
 water areas. Free
- Water Resources Research Institute
 Covell Hall 115
 Oregon State University
 Corvallis, Oregon 97331
- Mammals of the San Francisco Bay Region
 California Natural History Guide #2
 Pocketbook \$1.50
- University of California Press
 2223 Fulton Street
 Berkeley, California 94720
- Native Trees of San Francisco Bay Region
 California Natural History Guide #4
 Pocketbook \$1.50
- Same as above
- Ocean Engineering--Oregon State University
 April 1969. Bulletin containing
 information on graduate programs in
 ocean engineering at OSU's Dept. of
 Oceanography. Free
- Department of Oceanography
 Oregon State University
 Corvallis, Oregon 97331
- Ocean Fishing (California)
 Conservation information folder.
 Free
- State of California
 Department of Fish and Game
 Resources Building
 1416 Ninth Street
 Sacramento, California 95814
- Oceanic Observations of the Pacific
 1950-1970
 Yearly information on Pacific
 research and observations put
 together in cloth-bound volumes.
 Prices vary, write for information.
- University of California Press
 2223 Fulton Street
 Berkeley, California 94720
- Oceanography at Oregon State University
 Illustrated booklet with photos
 showing facilities at OSU in oceanography,
 graduate programs and where
 to apply. Free
- Department of Oceanography
 Oregon State University
 Corvallis, Oregon 97331

<p>Oceanographic Fleet--Oregon State University Fact sheet with photos describing all vessels of the Department of Oceanog- raphy at OSU. Free</p>	<p>Department of Oceanography Oregon State University Corvallis, Oregon 97331</p>
<p>Oceanographic Research Programs--Oregon State University Booklet includes oceanography faculty and description of courses. Free</p>	<p>Same as above</p>
<p>Offshore Fishes of California Bulletin describing offshore fish of the California waters. Free</p>	<p>State of California Department of Fish and Game Resources Building 1416 Ninth Street Sacramento, California 95814</p>
<p>Oregon State University's Marine Science Center Welcomes You April 1969. Illustrated folder with photos of work and facilities at the center. Free</p>	<p>OSU Marine Science Center Marine Science Drive Newport, Oregon 97365</p>
<p>Outdoor Cookery for the Family July 1967 (Reprinted). Extension Bulletin 778. Booklet illustrating with photos, tables and drawings how to plan and prepare meals outdoors. Free</p>	<p>Bulletin Clerk Industrial Building Oregon State University Corvallis, Oregon 97331</p>
<p>Pesticides Kill People Too! Extension Circular 727. Fact sheet with instructions on what precautions should be observed when using pesti- cides. Free</p>	<p>Same as above</p>
<p>Phytoplankton, Grass of the Sea 1970. Sea Grant #9. Bulletin des- cribing phytoplankton, how they live and multiply, their place in the ocean food chain and how other lifeforms in the ocean depend on them for survival. Drawings show many of the most common species. Free</p>	<p>Extension Marine Advisory Program Waldo Hall Oregon State University Corvallis, Oregon 97331</p>
<p>Plastics as a Fish-Hold Lining Material September 1970. Circular of Informa- tion 631. Booklet describing plastic material considerations and limita- tions for lining fish holds and pens; advantages over other types of material. Free</p>	<p>Bulletin Clerk Industrial Building Oregon State University Corvallis, Oregon 97331</p>

<p>Preliminary Study of Ocean Waves in the Hawaiian Area, A August 1969. Publication HIG-69-16 Illustrated booklet. Free</p>	<p>Hawaii Institute of Geophysics University of Hawaii 2525 Correa Road Honolulu, Hawaii 96822</p>
<p>Preparing Cluster Egg Baits from Salmon & Steelhead Roe October 1968. Fact Sheet 152. Free</p>	<p>Bulletin Clerk Industrial Building Oregon State University Corvallis, Oregon 97331</p>
<p>Pricing and Marketing Oregon Seafoods April 1970. Special Report 289. Free</p>	<p>Same as above</p>
<p>Proper Care of Seal Skins 1965. Publication P-121. Short bulletin. Free</p>	<p>Cooperative Extension Service University of Alaska College, Alaska 99701</p>
<p>Putting Oregon's Ocean to Work March 1970. Sea Grant #1. Pamphlet explaining the development of Oregon State University's Marine Advisory Program. Also included is a listing of present staff members in the program and what each does. Free</p>	<p>Extension Marine Advisory Program Waldo Hall Oregon State University Corvallis, Oregon 97331</p>
<p>Preparation for Study in Oceanography December 1969. Folder describing pre- parations needed for specific fields of study in physical, chemical, geo- logical, geophysical and biological oceanography. Free</p>	<p>Department of Oceanography Oregon State University Corvallis, Oregon 97331</p>
<p>Rare Shells 1969. Publication 00288-1. Pocket- book with photos, drawings and charts of rare shells. \$17</p>	<p>University of California Press 2223 Fulton Street Berkeley, California 94720</p>
<p>Red Tide in California Marine Resources Leaflet #2. Free</p>	<p>State of California Department of Fish and Game Resources Building 1416 Ninth Street Sacramento, California 95814</p>
<p>Relationship of Shrimp Width and Weight to Mechanical Sizing October 1970. Special Report 308. Aimed at the shrimp processor, this bulletin discusses the width and weight relationship of shrimp which is directly related to the improvement of the processing system and making shrimp products more adaptable for the market. Free</p>	<p>Bulletin Clerk Industrial Building Oregon State University Corvallis, Oregon 97331</p>

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| Reptiles and Amphibians of the San Francisco Bay Region
California Natural History Guide #3.
Pocketbook \$1.50 | University of California Press
2223 Fulton Street
Berkeley, California 94720 |
| Sea Grant Food Science and Technology
(Summary of first meeting May 24, 1970)
Summer 1970. Booklet summarizing proceedings of meetings in conjunction with the 30th Annual Meeting of the Institute of Food Technologists. Very limited supply-Free | OSU Seafoods Laboratory
250 36th Street
Astoria, Oregon 97103 |
| Seashore Life of Southern California
California Natural History Guide #26.
1969. Publication 01470-7. Pocketbook with photos and drawings showing seashore of Southern California. \$2.25 | University of California Press
2223 Fulton Street
Berkeley, California 94720 |
| Seashore Plants of Northern California
California Natural History Guide #20.
1966. Publication 00301-2. Pocketbook with photos and drawings. \$1.75 | Same as above |
| Seashore Plants of Southern California
California Natural History Guide #19.
1966. Publication 00300-4. Pocketbook with photos and drawings. \$1.75 | Same as above |
| Shell Collecting: An Illustrated History
1966. Publication 00287-3. Pocketbook with photos and drawings. \$1.00 | University of California Press
2223 Fulton Street
Berkeley, California 94720 |
| Smokehouse for the Sportsman and Hobbyist, A
October 1969. Extension Bulletin 788.
Bulletin contains photos and drawings on how to build, smoking and kippering meats and fish. Free | Bulletin Clerk
Industrial Building
Oregon State University
Corvallis, Oregon 97331 |
| To Can Fish in Glass Jars
1966. Publication P-24. Simple short bulletin designed to teach Alaska natives canning techniques. 10¢ | Cooperative Extension Service
University of Alaska
College, Alaska 99701 |
| To Can Fish in Tin Cans
1965. Publication P-25. 10¢ | Same as above |
| Today's Youth in Tomorrow's Sea
Summer 1970. Sea Grant #11. Booklet discussing the real facts of what oceanography is, what it takes to get into the field, opportunities for youth and the training they must complete to find good employment.
(Reprint now in press.) | Marine Science Education Specialist
Oregon State University
Marine Science Center
Marine Science Drive
Newport, Oregon 97365 |

Tsunamis in the Pacific Ocean
1970. Publication ISBN-0-8248-
0095-8. Book (in press) 528 p.
Tsunamis, commonly misnamed "tidal
waves", are described with tables
and figures. \$15

East-West Center Press
1777 East-West Center Road
Honolulu, Hawaii 96822

Water and Environmental Quality
January 1968. Semn. WR 008.67.
Seminars conducted fall quarter 1967
at Oregon State University by the
Water Resources Research Institute.
Topics covered included multiple
water resource problems. Free

Water Resources Research Institute
Covell Hall 115
Oregon State University
Corvallis, Oregon 97331

Water Studies in Oregon
January 1970. Semn. WR 012.69.
Seminars conducted fall quarter at
Oregon State University by the Water
Resources Research Institute. Topics
discussed included current water
studies being conducted at OSU by
various departments. Free

Same as above

Where Do We Go From Here
1967. Publication HIG Contrib 220.
Limited supply. Free

Hawaii Institute of Geophysics
University of Hawaii
2525 Correa Road
Honolulu, Hawaii 96822

SECTION II: FILMS

These subject titles are used in the index of films.

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Algae	Salmon, Sockeye
Algal Reproduction	Sea Urchins
Anarctic	Seals
Anatomy, Comparative	Seashore
Bristol Bay	Seines
Canada	Skindiving
Commerce	Submarine Geology
Crayfish	Tides
Crustacea	Tropical Fish
Cuttlefish	Trout
Coral	Water
Disease	Water Birds
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Natural Resources	
Nature Study	
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Ocean, Transportation	
Ocean, Waves	
Oceanography	
Oregon	
Otter Trawling	
Plankton	
Salmon, Economics	
Salmon, Life Cycle	

SECTION II: FILMS

Please note the following concerning film listings:

All Oregon State University films are from Audiovisual Instruction, and available to anyone in the states of Oregon, Washington, California, Idaho, Montana, Arizona, Nevada, Wyoming, Colorado, New Mexico, Utah, Alaska and Hawaii (all films shipped to and from Alaska & Hawaii are by air parcel post).

Send or phone film request to: Audiovisual Instruction
 Division of Continuing Education
 Gill Coliseum 133
 Corvallis, Oregon 97331
 Phone: Schedule Clerk (503) 754-2911

Fee Policy:

Fees need not be paid in advance. Statement will be mailed at the first of the month following date of use. No cancellation of charges will be made if schedule is canceled by user after film has been shipped.

All University of Washington films are available from:

University of Washington
Audio-Visual Services
Room 114, Lewis Hall DW-10
Seattle, Washington 98105

All University of California (at Davis) films listed are available from:

University of California
Extension Media Center
2223 Fulton Street
Berkeley, California 94720

University of Alaska films are available where indicated in each descriptive alphabetical listing.

AGE LEVEL CODE

Included with each description of a film will be an age level code by which the user can gauge to which age each film is aimed. The code is as follows:

k-kindergarten and preschool	s-senior high (10-12)
p-primary grades (1-3)	c-college
i-intermediate grades (4-6)	a-adult
j-junior high (7-9)	

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Algal Reproduction

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Oceanographers in the Polar Regions

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Salmon: Life Cycle of the Sockeye

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1965. Color 18 min. \$6.50 s-c-a Earth & Sea Series. Marine Science Series. A unique Thailand frog adapts to a constantly changing level of salt in its underwater environment. Adapting mechanisms employed by other organisms living along the ocean shore. Oregon State University.

Algae

1964. 17 min. \$6.00 j-s-c-a Introduces major groups of algae and their diversity of form, habitat, and reproduction, shows the evolution of living forms, illustrating their unity of function and diversity of types. University of Washington

Algal Reproduction

1960. Color 28 min. \$8.00 s-c-a AIBS biology series, part 7: Diversity of Plants #3. The ocean while at present insignificant as far as man's food supply is concerned, has tremendous possibilities for the future. Some life cycles of marine algae. Excellent inserts of red, brown, green marine algae. (Lecture) Oregon State University

Alive From the Deep

1952. 15 min. \$2.25 i-j-s-c-a The eternal fight for life that goes on among animals of the deep sea: Fish, corals, eels, jellyfish, octopuses, seals, etc. Oregon State University

Animal Life at Low Tide

1955. Color 11 min. \$4.50 i-j A boy and girl visit the seashore and at a tidepool find and study many salt-water animals and their means of locomotion, protection and getting food. Included are starfish, tube-building sea worms, sea anemones, limpets, sea urchins, sea crabs and snails. Also molting and selection of a home of hermit crabs. Oregon State University

Anyone for Diving

1962. Color 35 min. \$9.50 s-c-a Training of a hypothetical skin diving class; includes an animated brief history of skin diving. Oregon State University

Arctic Fishermen in World Trade

1964. Color 11 min. \$4.50 i-j The interdependence of people in world trade. How Norwegian fishermen catch and ship cod to Italy. Africa and the US in exchange for manufactured goods and agricultural products. Oregon State University

Beach: A River of Sand

1965. Color 20 min. i-j-a Earth Science Series. Analysis of currents produced by waves and calculations of the accumulation and depletion of sand. The pronounced movement along the shore making the beach a "river of sand." Oregon State University (rental \$6.50) - University of Washington (rental \$7.00)

Beach and Sea Animals

1957. Color 11 min. i-j-s-c Typical beach and sea animals, habitats and activities. Interrelationships and methods of self protection. Balance of mature portrayed. Physical structure and activities of starfish, sea urchin, crabs, cuttlefish, octopus, crayfish, lobster, shrimp, snail, scallop and sea-cucumber. Oregon State University (rental \$3.75) - University of Washington (rental \$5.00)

Between the Tides

1959. Color 20 min. i-j-s-c-a Animal and plant life around the tide zones in Britain. Includes time-lapse photography, underwater sequences and detailed close-ups; very outstanding scenes of underwater life. Oregon State University (rental \$6.50) - University of Washington (rental \$6.00)

Biography of a Fish

1950. 10 min. \$3.75 i-j-s-c-a Macro- and microphotography of the 'stickleback' fish. Details of nest building, mating, and guarding the young. University of Washington

Birds of the Sea

1965. Color 11 min. \$4.50 i Sea birds in their natural habitats on headlands, cliffs and islands of the Atlantic Coast as they nest, feed and care for their young. Includes scenes of gulls, terns, skimmers, pelicans, eiders, gannets, murrets and puffins. Oregon State University

Birds That Eat Fish

1952. Color 6 min. \$4.50 p-i-j-s Living Science Series. How the physical structure, long sharp bill, strong wings, and long toes and legs enable some birds to catch and eat fish. Oregon State University

Bogus Creek

Color 10 min. i-s-c-a- Available on loan. Color film of salmon spawning in California stream. University of Alaska, Fisheries Extension Program, College, Alaska 99701

Bristol Bay Story

1961. Color 45 min. j-s-c-a Available on loan. Biology, harvesting and processing geography, economics and recreation of Alaska's Bristol Bay salmon fishery. University of Alaska, Fisheries Extension Program, College, Alaska 99701

Canada---The Pacific Province

1958. 16 min. \$3.75 j-s-c-a Progress of pacific province of British Columbia in logging, fishing, mining, agriculture, ship-building and manufacturing. University of Washington

Catching, Filleting and Packaging

1950. j-s-c-a Available on loan. Otter trawling, also processing, filleting, packaging, and freezing of fish for market. (antiquated) University of Alaska, Fisheries Extension Program, College, Alaska 99701

Challenges of the Oceans

1961. Color 27 min. \$8.00 s-c-a Planet Earth Series. Research activities being carried out to learn more facts about the ocean and its floor, currents, tides, etc. Worldwide explorations during the IGY. Oregon State University

Challenge of the Ocean

1960. Color 29 min. \$6.00 j-s-c-a Available on loan. Planet Earth Series Explains the physical aspects of the ocean, including variety of currents, the relationship of the dynamics of the oceans to weather and climate, the composition of ocean waters. University of Washington

Clean Waters

1954. Color 21 min. \$6.00 j-s-c-a Clean natural water becomes polluted by sewage and industrial wastes. Steps in adequate sewage disposal. University of Washington

Coco and the Seabirds

1953. Color 11 min. \$4.50 p-i Coco and an adult friend find sea gulls, pelicans, sandpipers and egrets in the marshes near the ocean. They study their food and flight patterns. Oregon State University

Coco at the Seashore

1953. Color 11 min. \$4.50 p-i Coco and an adult friend examine sea anemones, periwinkles, limpets, hermit crabs and sea hares. Oregon State University

Coco Explores a Pier

1953. Color 11 min. \$4.50 p-i Coco and his friend find barnacles, gooseneck barnacles, and mussels. How sea weeds differ from land plants. Oregon State University

Coco Explores a Tide Pool

1953. Color 10 min. \$4.50 p-i Coco and an adult friend find sand dollars, sea urchins, starfish, and rock crabs. They study the protection provided for each. Oregon State University

Colorful Fish of the Caribbean

1964. Color 11 min. \$4.50 i-j-s-a Cultural Heritage Series. Art and Adventure Series. Detailed closeups of the fish of a tropical sea. Variety of life forms, adaptations which aid survival. Oregon State University.

Colorful Cuttle

1962. Color 14 min. \$6.50 j-s-a Habits and behavior of cuttlefish: adaptability, locomotion, control of skin texture and color, and ability to secrete an inky substance to hide its movements. Oregon State University

Conquering the Sea

1967. Color 25 min. \$8.00 s-c-a 21st Century Series. Current research which will enable man to live in and harvest great resources from the sea. Oregon State University

Crayfish

1947. 11 min. \$3.75 j-s-c Zoology Series. First examines the crayfish in general terms, then analyzes the function of the individual parts, reproduction, digestion and the nervous system. University of Washington - Oregon State University

Crustacea and Their Allies

1961. Color 28 min. \$8.00 s AIBS Biology Series, part 8; Diversity of Animals #5. Numerous species of phylum Arthropoda; their distinguishing features and comparison of their structure to Annelida. Explains biramus appendage and serial homology. Photomicrography of Crustacea in their various environments. (Lecture) Oregon State University

Deep Frontier

1967. Color 25 min. \$8.00 i-j-s 21st Century Series. New techniques in exploring the ocean. Interviews six men who are among the pioneers of ocean exploration. Six newly developed devices for accomplishing missions in the depths of the sea. Oregon State University

Deep Sea Trawler

Color 25 min. s-a Available on loan. Describes the way of life on a German deep sea trawler. Shooting and hauling a large trawl from modern stern ramp trawler. Audio-Visual Communications Department, University of Alaska, College, Alaska 99701

Earth Beneath the Sea

1967. Color 27 min. \$8.00 s-c-a Earth and Sea Series. Marine Science Series. Some of the techniques employed to study the natural history of the ocean bottom. How data collected is interpreted and put to use. Oregon State University

Earth-Its Oceans

1960. 13 1/2 min. \$4.50 i-j The oceans of the world. Modern means of present-day mapping and charting of the oceans. Development of oceanography. Studies of currents, sea bottom, water temperatures. Oregon State University

Echinoderms

1965. Color 13 min. \$6.50 s-c Echinoderms, five classes of. The general characteristics and external anatomy of each class. Dissection of a starfish provides a detailed study of the anatomy and function of the digestive, reproductive and water vascular systems. Information on food getting, locomotive and regenerative aspects of the starfish. Oregon State University

Echinoderms and Mollusks

1968. 16 min. \$4.50 s Echinoderms and mollusks in their natural habitats. Development of a sea urchin egg. Reproductive system of the clam. Radial body plan of echinoderms and bilateral body plan of mollusks. Uses underwater photography and photomicrography. Oregon State University

Echinoderms-Sea Stars and Their Relatives

1961. Color 16 min. \$6.50 s Biology Program, unit 3 Animal Life. Classes of spiny-skinned, radially-symmetrical animals. Respiration, locomotion, regeneration, digestion, and reproduction illustrated partially through photomicrography and animated drawings. Oregon State University

Embryonic Development of a Fish, The

1968. Color 28 min. \$8.00 s-c-a Development of the fish embryo from fertilization to hatching, using the egg of the zebra fish. Utilizes photomicrography and animation. Oregon State University

Embryonic Development of a Fish, The

1961. Color 28 min. \$8.25 s-c-a The development of the fish embryo from fertilization to hatching is shown by magnification, time-lapse and natural speed photography. University of Washington

End of One

Color 7 min. \$4.50 i-j-s-c-a As sea gulls compete for edible bits of garbage from city trash dump, a lone sick bird limps, struggles and dies ignored by the rest of the gulls. Suggests a death knell for our environment, an allegory of greed, a parody of life. Oregon State University

Epidemiology of Salmonellosis in Man and Animals

1964. 15 min. \$3.75 s-c-a Shows transmission patterns of salmonellosis from contaminated feeds to food animals to humans. Significance of human 'carriers' among food handlers. Suggests means of control. University of Washington

Eskimo Sea Hunters-Northwestern Alaska

1949. 20 min. \$5.00 j-s-a Adaption of the Eskimo to his environment illustrated by activities of one Eskimo family, village and home life, fishing, trapping and making clothing, caribou hunting, visit to a trading post and a social gathering. University of Washington

Eskimos-Winter in Western Alaska

1951. Color 11 min. \$5.00 j-s-a Presents typical events in the daily lives of an Eskimo family living on the west coast of Alaska. Depicts the Eskimo's dependence upon fish as a food supply. Illustrates methods of obtaining fish, shows household activities, reveals dangers of a seal hunt and portrays an Eskimo dance. University of Washington

Exploring the Ocean

1960. Color 11 min. \$4.50 p-i The ocean's floor, slopes and continental shelf. Sea plants and animals; how all life in the ocean depends on the tiniest forms of plant life. The ocean's vast storehouse of minerals and the part played by the water cycle in depositing these minerals-animated. Oregon State University

Farmer-Fisherman-Norway

1949. 20 min. \$5.00 i-j-s-a Life among the farmer-fishermen of Norway with emphasis on family and children. Economic factors that make it necessary for some Norwegians to both farm and fish for a livelihood. University of Washington

Fish and Their Characteristics

1961. 11 min. \$3.75 i-j Four common characteristics of fish: fins, gills, scales, and cold blood. How fish breathe, swim and feed. Oregon State University

Fish Are Interesting

1954. Color 10 min. \$4.50 i-j Classes of fish. Characteristics of all fish. How they breathe, eat, sleep; methods of locomotion. Oregon State University

Fish Embryo: From Fertilization to Hatching

1962. Color 12 min. \$6.50 s Biology Program, unit 3: Animal Life. How eggs of a bony fish, or teleost, are fertilized. Observations in detail of the growth and development of the embryo. The processes by which undifferentiated embryonic cells give rise to the complex organs and structure of the adult fish. Oregon State University

Fish, Moon and Tides: The Grunion Story

1964. Color 15 min. j-s Relationship of reproduction of grunion to the moon and tides. Spawning, fertilization, growth of embryo presented by photomicrography, and hatching. Excellent instruction to study reproduction. University of Washington (rental \$5.00) - Oregon State University (rental \$6.50) - University of California (rental \$10 for one day use).

Fish Out of Water

1954. Color 11 min. \$4.50 i-j-s-c Grunion, one of the few fish that lays its eggs out of water. Closeup of female nesting in sand. Eggs studied in lab; time-lapse photography. Animated charts show movements of tides and how it affects hatching eggs. Oregon State University

Fisherman's Boy

1955. 11 min. \$4.75 p Danny earns an interesting trip on his father's commercial fishing boat. Oregon State University

Fishes, Amphibians and Reptiles

1961. Color 30 min. \$8.00 s AIBS Biology Series, part 8: Diversity of animals #9. General features of the phylum Chordata. Main patterns of fish evolution and specialization. Characteristics and typical life cycles of various amphibia and reptilia. Oregon State University

Fishing Arctic Style

1955. 12 min. \$4.50 i-j-s-a How salmon are caught by seine nets in rivers. Fishing through the ice by the Eskimos. Oregon State University

Fish and the Seine Net

1954. 15 min. c-a Underwater photography of fishing with a seine net. Action of the Danish seine (Scottish fly net), reactions of fish and escape from the nets. Made in Great Britain with good underwater scenes of operation. University of Washington (rental \$3.75) - University of Alaska, Fisheries Extension Program, College, Alaska 99701 (Available on loan).

Fish Spoilage Control

1956. 10 min. s-a Available on loan. Animated cartoon, illustrating bacteriological contamination and correct handling of fish to save quality. University of Alaska, Fisheries Extension Program, College, Alaska 99701

Fisheries of the Great Slave Lake

s-a Available on loan. Fresh water fisheries of Great Slave Lake. Summer and winter, geography and economics of industry. Good pictures and description of ice jig used to set nets under ice. University of Alaska, Fisheries Extension Program, College, Alaska 99701

Granton Trawler

1934. 11 min. \$3.75 j-s-c-a Fishermen engaged in dragnet fishing off the coast of Scotland. An early documentary. Oregon State University

History, Layer by Layer

1967. Color 23 min. \$8.00 s-c-a Earth and Sea Series: Marine Science Series. Reconstruction of Earth's history from recovery of sediment cores from ocean floor. Work of Lamont Geological Observatory research vessels in taking ocean bottom cores. Oregon State University

Japan Harvests the Sea

1958. Color 29 min. \$8.00 i-j-s-a People and Places Series. Importance of the sea to Japan. How so many of the people are dependent upon fishing for a livelihood. Young girls who spend each day diving for seaweed. Life along the coast, fishing, etc. Oregon State University

Land of the Long Day, Part I

1952. Color 19 min. \$6.50 i-j-s-c Life of the Eskimo on Baffin Island in Northern Canada in spring and early summer. Springtime moving activities, stalking of seals on the ice. Oregon State University

Land of the Long Day, Part II

1957. Color 19 min. \$6.50 i-j-s-c Life of the Eskimo on Baffin Island in the summer and early autumn. Family activities; hunting in kayaks for white whales and narwhal. Oregon State University

Life Cycle

1958. Color 29 min. \$8.00 s-c-a Survival in the Sea Series #8. The cycle between plant and animal life in the sea. The importance of plankton in providing food for many species of marine life. How various marine organisms capture their food; the part they play in the food chain. Examples of sponge, clam, octopus, ray, barracuda and other fish. Oregon State University

Life in the Sea

1958. Color 11 min. \$4.50 i-j-s-a Explains main groups of life in the sea; the plankton, the bottom dwellers, and the free-swimming animals. Interrelationships of plants and animals and the economic importance to man. Oregon State University

Life on the Coral Reef

1958. Color 29 min. \$8.00 s-c-a Survival in the Sea Series #5. The three regions of a coral reef--the outer reef, middle reef and inner reef; the differences in each of the dwellers in each area. Many examples of coral, including fan, star, lettuce, and brain. Oregon State University

Life Cycle of the Trout

11 min. s-c-a Available on loan. Film showing embryology of trout. University of Alaska, Fisheries Extension Program, College, Alaska 99701

Little Plover River Project

1963. Color 31 min. \$7.00 c-a Collection and interpretation of data to determine the occurrence, movements, and amount of water available in a particular area, interrelation of ground and surface water, prediction of various water uses on stream flow and ground-water levels. University of Washington

Man Invades the Sea

1965. 29 min. \$5.00 j-s-a An introduction to oceanography. International scientific explorations of the oceans and new ways of probing the sea. Oregon State University

Marine Animals and Their Foods

1949. 8 min. \$4.75 j-s The interrelation of marine animals and their surroundings. The five types of food on which they depend. Oregon State University

Marine Animals of the Open Coast

1963. Color 22 min. i-s-c-a How animals of the open coast are modified to adapt to conditions in which they live. Oregon State University (rental \$6.50) - University of Washington (rental \$7.00)

Marine Ecology

1963. Color 28 min. \$8.00 s AIBS Biology Series. Limiting factors that influence distribution of plants and animals in the ocean. Characteristics pertaining to life forms, zonation, stratification, and productivity of the ocean. Oregon State University

Marine Life

1952. Color 11 min. \$4.50 i-j Life under the sea, struggle for existence. Many strange and common animals as they try to stay alive. Oregon State University

Med. Skovelkutter

26 min. Silent film with Danish subtitles (no translation available). Available on loan. Small boat trawling in the village of Fjellbroen, Denmark. Primary interest is in live place fishery. University of Alaska, Fisheries Extension Program, College, Alaska 99701

Mysteries of the Deep

1961. Color 24 min. \$8.00 i-j-s-a True-Life Adventure Series. Some of the strange and unusual sea life and its fight for survival. Oregon State University

New England Fishermen

11 min. \$4.75 i-j-s Spirit of Gloucester fishermen and precarious way of making a living. Work and living conditions aboard a steam fishing trawler. Oregon State University

Noisy Underwater World of the Weddell Seal

1966. Color 13 min. \$6.50 i-j-s-c-a The Weddell seal as a creature of two worlds finding food and steady temperatures under the Antarctic ice and air above it. Describes an expedition which has been undertaken to discover how the seal finds his breathing hole in winter when there is no sun to light the way. Oregon State University

Northern Elephant Seal

Color 16 min. Sale Price \$150 Rental Price \$8.50 for one-day use. University of California

Ocean Bounty

1952. Color 22 min. \$3.75 s-c-a Demonstration of equipment used and methods of handling fish in Norway's large fisheries. Oregon State University

Ocean Currents

1963. Color 16 min. \$6.50 j-s General Science Series #8. The constant motion of ocean water, caused by tides, winds and currents. How differences in densities of hot and cold, fresh and salt water cause convection currents. The northward and southward flow of masses of water as definite ocean currents. Coriolis effect and the location and shape of landforms in the currents path. Countercurrents. Oregon State University

Ocean Tides--Bay of Fundy

1957. Color 14 min. j-s-a Unusual tides at Bay of Fundy, maps and charts used to explain the causes of tides and reasons for the extreme high and low tides. Tidal waves. Oregon State University (rental \$6.50) - University of Washington (rental \$5.00)

Oceanographers in the Polar Regions

1967. Color 29 min. \$1.60 s-c-a Story of how men are meeting the challenges and dangers of oceanographic research in the Arctic and the Antarctic to master the oceans for defense and economic betterment of the world. University of Washington

Oceanography at Work: Diamonds Under the Sea

1966. Color 24 min. \$8.00 j-s How the principles of oceanography aid a scientific expedition to survey and explore the ocean floor in search of diamonds. Oregon State University

Oceanography--The Study of Oceans

1969. Color 15 min. \$6.50 i-j-s The work of the meteorologist, physicist, chemist, biologist, and geologist in studying the ocean. Oregon State University

On the Rocks

1958. Color 29 min. \$8.00 s-c-a Survival in the Sea Series #3. Examples of the corals and other animals living in the zoological zone of fast water on rocky bottom. Methods these animals use in obtaining food. Some plants and their adaptative behavior to this environment. Oregon State University

Pacific Halibut Fishing

1949. Color 16 min. \$2.25 i-j-s-c-a A trip with a halibut schooner from its base in Seattle to the Shumigan Islands off Alaska. Method of fishing shown by diagram. Oregon State University

Pass Creek

1968. Color 10 min. \$2.25 j-s-c-a Impact of logging practices on streams and their steelhead trout population. An appeal for multiple use management of forest lands. Focuses on Oregon's North Umpqua River. Oregon State University

Perch Anatomy

1963. Color 17 min. \$6.50 s-c Exterior structure and coloration of a living perch. Uses fresh specimens to demonstrate dissection techniques and reveal internal structures. Respiratory, digestive, excretory, circulatory, and reproductive systems. Offactory tract and brain; observes heart action in freshly killed specimen. Oregon State University

Pink Salmon Story

1964. Color 33 min. j-s-c-a Available on loan. Produced by the Alaska Department of Fish and Game. Life history of pink salmon, harvesting, and processing. Good shots of Southeast Alaska. University of Alaska, Fisheries Extension Program, College, Alaska 99701

Plankton and the Open Sea

1962. Color 19 min. s Demonstrates importance of minute plankton organisms to marine food chains. Shows typical forms of plankton and how they are studied at sea, in floating laboratories, and shore-based laboratories. Oregon State University (rental \$6.50) - University of Washington (rental \$7.00)

Problems of Conservation--Water

1969. Color 16 min. \$6.50 j-s-c-a Inquiry into the problems of water shortage, drought, increased demands for a supply of water irrigation and human consumption, and water pollution. How drinking water can be obtained from the ocean. Oregon State University

Project "Mohole"

1960. Color 20 min. \$6.50 s-c-a Horizons of Science Series. Scientific project to break through the earth's crust to explore its interior. Moho--the thin layer between the rocky crust layer and the center of the earth. Testing in the sea to find a crust layer thin enough to break through. Oregon State University

Reel Fun in Oregon

Color 24 min. \$2.25 j-s-a Good fishing spots in Oregon. Kinds of fish and how to fish at various locations around the state. Oregon State University

Reproduction in the Sea Urchin

1965. Color 13 min. \$6.50 s Uses closeups and photomicrography to illustrate the physiology of the sea urchin's reproductive system. Follows the reproductive process through the primary stages of cell division and embryonic development. Oregon State University

Restless Sea, The

1964. Color 54 min. j-s-c-a Animated sequences illustrate work of oceanographers in searching out complex and interwoven relationships in nature in the sea. Integrating and marine applications of many sciences. Filmed action from above and below surface shows various instruments used in oceanography. University of Washington (rental \$1.60) - Oregon State University (rental \$2.25) - University of Alaska (Available on loan), Fisheries Extension Program, College, Alaska 99701

Salmon Catch to Can

For information, write: University of Alaska, Fisheries Extension Program, College, Alaska 99701

Salmon: Life Cycle of the Sockeye

1951. Color 11 min. \$4.50 i-j-s-a The life cycle of a sockeye salmon from its birth in inland waters, its maturity in the ocean, and its return to fresh-water streams to spawn and die. Importance of the salmon fishing industry in the Pacific Northwest. Oregon State University

Science of the Sea

1958. Color 19 min. s-c-a Study of the physical, geological, meteorological, chemical, and biological aspects of the ocean. Employs underwater photography and other methods to reveal some of the mysteries of the sea and the animal and plant life with which it teems. University of Washington (rental \$6.00) - Oregon State University (rental \$6.50)

Sea, The

1962. Color 27 min. s Biology Program Unit #1: Ecology. Depicts the interdependence and interrelationships between living things in the sea, dependence on varying conditions of the marine environment. Illustrates basic concepts of marine environment. Basic concepts of marine ecology: evolution, predation, and reproduction. Partially in animated drawings. Oregon State University (rental \$8.00) - University of Washington (rental \$8.25)

Sea Adventures of Sandy the Snail (a lesson in finger painting)

1957. Color 16 min. \$6.50 p-i Sandy the snail travels the ocean floor, by way of the finger paintings of Betty Chirogge, seeing the plants and animals of the Pacific. Oregon State University

Sea-Surface Meteorology

1965. 24 min. \$5.00 s-c-a The role played by the formation of rain with the transfer of large condensation nuclei and electrical charges from the sea surface to the atmosphere. Effects of an erupting volcano at the sea surface. Oregon State University

Sea Gull

1968. Color 14 min. \$6.50 i Nesting site, courtship display, nest building, and incubation of the black-tailed sea gull. Activities of young fledglings. Oregon State University

Sea Shell Animals

1955. Color 10 min. \$5.00 j-s-a Survey of the group of sea animals living in shells (mollusks)--how they move and feed. University of Washington

Sea Urchin

1948. 10 min. s-c Zoology Series. Compares the life cycles of the sea urchin and its close relative the starfish. University of Washington (rental \$3.75) - Oregon State University (rental \$3.75)

Seal Island

1949. Color 28 min. \$10 (one day use only) i-j-s-c-a Documents the process of mating and reproduction of fur seals on an island off Alaska. Arrival of the bulls, their wait for the harems, playful pranks of offspring as they walk and swim. Oregon State University

Seashore

Color 10 min. i-j-s Explains waves, how sand is made, two types of western shoreline tides, and tide pools. Sea animals, birds, seashells, and seaweed. Oregon State University (rental \$4.50) - University of California (rental \$5.00)

Seashore Life

1950. Color 11 min. \$4.50 p-i-j Life in the rock pool, sandy beach, and mudflat of the seashore. Ways representative seashore animals are adapted to survive in their special environments. Oregon State University

Seashore Oddities

1947. Color 10 min. \$1.60 j-s-a Scientific secrets of marine life in the first fathom of ocean waters--how marine invertebrates secure food and maintain their species. University of Washington

Secrets of the Underwater World

1960. Color 16 min. \$6.50 j-s-a Secrets of Life Series. True-Life Adventure Series. Describes many of the unusual animals found in the shallow seas in the tidal fringes and in fresh water, including the stickleback, diving spiders, archer fish, kelpfish, jellyfish, centosphere, angler fish, decorator crab and fiddler crab. Oregon State University

Sounds in the Sea

1955. Color 16 min. \$6.50 i-j-s-a Events during World War II leading to the discovery that fish produce sounds. The findings of an undersea biological expedition. Oregon State University

Three Squares, The

For information write: University of Alaska, Fisheries Extension Program,
College, Alaska 99701

Tide Pool Life

1947. Color 11 min. \$4.50 p-i More unusual species of marine life
found near rocky shores and tide pools. Detailed study of mussels,
whelks, sea anemones, sea urchins, and abalones. Elementary version.
Oregon State University

Tides of the Ocean

1964. Color 17 min. i-j What tides are: how the sun and moon cause
them; man's use of tides. Partially animated. Oregon State University
(rental \$6.50) - University of Washington (rental \$6.00)

Transportation: A Ship Comes Home

1965. Color 16 min. \$6.50 i-j Complexity of modern ocean transporta-
tion. The exact maneuvers, expert timing, and alertness to shifts of wind
and current. Oregon State University

Treasure Under the Sea

1966. Color 24 min. \$8.00 i-j Smithsonian Series. The story of a
ship up to the time of her sinking. The work of archeologists in unravel-
ing the secrets of the sea. Oregon State University

Underwater Safety: Effects of Pressure on the Human Body

Color 15 min. \$6.50 j-s-c-a Dangers inherent in skin diving, particularly
with reference to the bends. Explains the use of the US Navy Standard
Compression Table in timing decompression stops. Oregon State University

Vermilion Sea Expedition: Hydrographic Work

1959. Color 13 min. Sale Price \$130 One-day use \$7.50 c University
of California

Water

1961. Color 14 1/2 min. \$6.50 j-s-a Animated presentation of the world
water problem by Philip Stapp. Needs, uses, and water resources. Know-
ledge of the water cycle and scientific use of that knowledge to benefit
all mankind with some intercuts of still photos on the animation. Oregon
State University

Water Birds

1957. Color 30 min. One-day use \$10 j-s-c-a True-Life Adventure Series.
The many water birds and how they live. Nesting, rearing of young. Oregon
State University

Water Cycle

1947. 11 min. \$3.75 i-j Evaporation of water from the sea. Formation
of clouds, precipitation over land areas, flow back to sea. Theory of
evaporation, formation of ground water; the water table. Oregon State
University

Waves Across the Pacific

1967. Color 32 min. s-c-a Marine Science Series. An oceanographic experiment-studying the passage of a group of waves across the pacific ocean from their source in antarctic storms to their final dissipation on the shores of Alaska. Sites for wave stations. Dr. Walter Monk, Director of the Institute of Geophysics, University of California at La Jolla, describes the origin of the experiment. University of Washington (rental \$8.25) - Oregon State University (rental \$9.50)

Waves on Water

1965. 16 min. \$4.50 i-j Earth Science Series. Uses principles discovered in the laboratory as a basis for interpreting the characteristics of waves and wave motion on the sea surface. Identifies wind and underwater earthquakes as sources of wave's energy. How particles in a wave describe circular orbits of a size inversely related to depth. Oregon State University

We Explore Ocean Life

1962. 11 min. \$3.75 p Steve and his father go down under the surface of the water to explore a coral reef and the plants and animals of the ocean floor. Oregon State University

We Explore the Beach

1955. Color 11 min. \$4.50 p Betty and Billy discover many things along the beach: a bird's nest, seashells and water animals. Oregon State University

Whales and Whalersmen

1957. Color 22 min. \$6.50 i-j-s-a Far Places Series. Follows a whaling expedition in the Indian Ocean off the coast of South Africa. Preparation of harpoons and powder charges, harpooning of three whales and dissection of the carcasses. Economic importance of whaling. Oregon State University

What is a Fish

1963. Color 22 min. \$6.50 s Biology Program, unit 3 : Animal Life. Major types of fish. Evolutionary development of the fish. Habits, characteristics, anatomy and reproductive processes of many kinds of fishes. Oregon State University

Where Land and Water Meet

1958. Color 29 min. \$8.00 s-c-a Survival in the Sea Series #2. The shoreline habitats: the animals that have adapted to the seashore environment and live and reproduce there. General abilities of most animals living in their zone such as the sand dwellers and the rock dwellers. Oregon State University

Wide, Wide Sea: Background for Reading and Expression

1958. 11 min. \$3.75 p Poems and stories of the sea brought out by a boy, a girl and their mother as they play at the seashore on a summer day. Oregon State University

SECTION III: BIBLIOGRAPHIES

This section contains book, publication and bibliographical listings of non-technical and semi-technical material on marine resources.

An Introduction to Oceanographic Literature (Hawaii Institute of Geophysics)
September 1966, Hawaii Institute of Geophysics. Publication HIG-66-15.
University of Hawaii, 2525 Correa Road, Honolulu, Hawaii 96822 Supply
Limited. Free

Books in Print 1970 (East-West Center Press, Hawaii)
Describes a variety of books available including many relating to marine
sciences. East-West Center Press, 1777 East-West Road, Honolulu, Hawaii
96822 Free

Books on Pollution for the Layman
Summer 1970. (Bulletin). Pacific Northwest Water Laboratory, 200 South
35th Street, Corvallis, Oregon 97330 Free

Clean Water Publications (Federal Water Quality Administration)
A listing of available publications concerning water quality. Pacific
Northwest Water Laboratory, 200 South 35th Street, Corvallis, Oregon
97330 Free

List of Available Publications from Oregon State University, Department of
Fisheries and Wildlife. Department of Fisheries and Wildlife, BioScience
Building, Oregon State University, Corvallis, Oregon 97331 Free

Oregon Commercial Fisheries Newsletter (Oregon State University Sea Grant Pub.)
A newsletter on commercial fisheries in Oregon that appears periodically
throughout the year. To be included on mailing list, write: Extension
Marine Advisory Program, Waldo Hall, Oregon State University, Corvallis,
Oregon 97331 Free

Publications Price List (California Department of Fish and Game)
July 1968. Listing includes bulletins, reports, periodicals, leaflets,
maps, and vacation aids pertaining to fish and wildlife in California.
Department of Fish and Game, Resources Building, 1416 Ninth Street,
Sacramento, California 95814 Free

Publications 1970 (Hawaii Institute of Geophysics)
1970 (pamphlet). Listing available technical reports, data reports,
annual reports, sea grant reports and joint report series. Hawaii
Institute of Geophysics, Publications, Room 252, University of Hawaii,
2525 Correa Road, Honolulu, Hawaii 96822 Free

Readings in Marine Science-Partially Annotated Bibliography for Young Readers,
Nonprofessionals, and teachers. Department of Oceanography, Oregon State
University, Corvallis, Oregon 97331 Free

Readings in Oceanography
Oregon State University Bookstore, Corvallis, Oregon 97331 35¢

Sources of Oceanographic Education Materials (March 1970)
Fact sheet listing available booklets, bulletins, circulars and magazines
of interest to oceanography. Department of Oceanography, Oregon State
University, Corvallis, Oregon 97331 Free

Soundings (Oregon State University, Sea Grant Marine Advisory Program Pub.)
Bimonthly publication on sea grant activities at Oregon State University.
To be included on mailing list, write: Marine Advisory Program, Editor,
Room 206 Waldo Hall, Oregon State University, Corvallis, Oregon 97331
Free