



BIBLIOGRAPHY

THE YEAR OF THE GRAY WHALE

FOR SEA: Oceanography and Marine Biology - Grade 7

This partially annotated bibliography has been selected as an entree to the many resources available to further your study of the topics covered in *The Year of the Whale*. A few of the titles listed are out of print, but worthwhile enough for you to check for them in your school and public libraries.

PRINT RESOURCES

Allen, K. Radway. 1980. Conservation and Management of Whales. University of Washington Press, Seattle, Washington.

Arnold, Augusta Foote. 1968. The Sea-Beach at Ebb-Tide. Dover Publications. New York.

A detailed identification guide.

APHA, Project Task Force Staff. 1991. Healthy Communities Two Thousand: Model Standards. American Public Health Association. New York.

AWWA Research Foundation Staff. 1985. Future of Water Reuse: Proceedings. American Public Health Association. New York.

American Water Works Association. 1996. Standard Methods for the Examination of Water and Waste Water. American Public Health Association. Washington, D.C.

- Barbour, John A. 1969. *In the Wake of the Whale*. Crowell Collier Press.
A readable book that describes the life history of the different whales. It also contains a very good discussion of whaling practices and how they have affected whale populations.
- Barnes, H. 1959. *Oceanography and Marine Ecology*. American Elsevier Publishing Co. New York.
A comprehensive college- level textbook.
- Barnes, R.S. 1993. *The Invertebrates: a New Synthesis*. Blackwell Scientific Publications. St. Louis, Missouri.
- Barnes, R.S. and R.N. Hughes. 1988. *Introduction to Marine Ecology*. Blackwell Scientific Publications. St. Louis, Missouri.
- Barnes, Robert D. 1968. *Invertebrate Zoology*. W.B. Saunders Company: Philadelphia.
Comprehensive college-level textbook.
- Barsh, Russel L. 1977. *The Washington Fishing Rights Controversy: An Economic Critique*. University of Washington, Graduate School of Business Administration. Seattle, Washington.
- Behrens, David W. 1991. *Pacific Coast Nudibranchs. Sea Challengers*. Monterey, California.
An identification guide with color photos.
- Brown, Bruce. 1990. *Mountain in the Clouds: A Search for the Wild Salmon*. Simon & Schuster, New York.
A readable and moving account of the natural history and issues surrounding northwest coast salmon.
- Buchsbaum, Ralph. 1987. *Animals without Backbones*. The University of Chicago Press. Chicago.
A readable and well illustrated introduction to scientific classification and structures and adaptation of invertebrates.

Buckland, S. T., J. M. Breiwick, K. L. Cattanach, and J. L. Loake. "Estimated Population Size of the California Gray Whale". SASS Environmental Modeling Unit, Aberdeen, Scotland and National Marine Mammal Laboratory, Alaska Fisheries Science Center, NMFS, Seattle, Washington, in "Marine Mammal Science", 9(3):235-249, July 1993.

Bullen, Frank T., First Mate. 1897. The Cruise of the Cachalot - Around the World in Search of the Sperm Whale. Grosset and Dunlap, New York.

Caduto, Michael J. and Joseph Bruchac. 1988. Keepers of the Earth: Native American Stories and Environmental Activities for Children. Fulcrum, Inc, Golden, Colorado, ISBN 1-55591-027-0. Keepers of the Earth Teacher Guide, ISBN 1-55591-040-8.

Calambokidis, John, Joseph R. Evenson, Gretchen H. Steiger and Steven J. Jeffries. 1994. Gray Whales of Washington State: Natural History and Photographic Catalog. Cascadia Research Collective. Olympia, Washington

Carefoot, Thomas. 1977. Pacific Seashores; A Guide to Intertidal Ecology. University of Washington Press. Seattle, Washington.

An interesting summary of research about how intertidal organisms are affected by each other and by environmental factors. It tells many fascinating stories about what is happening at the beach.

Carroll, Geoff. "Local Harvest On the North Slope". ALASKA'S WILDLIFE, The Magazine of the Alaska Department of Fish and Game, Vol. 24, No. 1, Jan-Feb. 1992.

Carson, Rachel. 1991. The Sea Around Us. Signet. New York.

This classic book eloquently describes the many forces that shape the earth's oceans.

Chapman, Charles F. 1975. Piloting, Seamanship and Small Boat Handling. Motor Boating and Sailing Book Division, The Hearst Corporation. New York.

Cohen, Fay. 1986. Treaties on Trial: The Continuing Controversy over Northwest Indian Fishing Rights. University of Washington Press. Seattle, Washington.

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- Costerton, J.W. and R.R. Colwell. 1979. *Native Aquatic Bacteria: Enumeration, Activity and Ecology*. Academic Press (Harcourt Brace). San Diego, California.
- CRC Handbook of Chemistry and Physics. (Annual Revision). Chemical Rubber Co. Cleveland, Ohio
- Cupp, E. E. 1977. *Marine Plankton Diatoms of the West Coast of North America*. Koeltz Scientific Books. Champaign, Illinois.
- Curtis, Brian. 1949. *The Life Story of the Fish - His Manners and Morals*. Dover Publications, Inc. New York.
A readable introduction to the adaptations of fish.
- Dawson, E. Yale and Michael S. Foster. 1982. *Seashore Plants of California*. University of California Press. Berkeley, California.
- Dyckman, Claire and Stan Garrod. 1977. *Small Streams and Salmonid: A Handbook for Water Quality Studies*. United Nations Educational, Scientific and Cultural Organization. Paris.
- Eddy II, John. "Plankton: the basis of life in the sea", *The Seattle Aquarium Journal*, Vol. 1, No. 1, September/October 1977.
- Ellis, Richard. 1989. *The Book of Sharks*. Alfred A. Knopf. New York.
- Ellis, Richard. 1985. *The Book of Whales*. Alfred A. Knopf. New York.

Flora, Charles J. and Eugene Fairbanks, M.D. 1966. *The Sound and the Sea*. Pioneer Printing. Bellingham, Washington.

An identification book for marine invertebrates of the Pacific northwest. Black and white photos of specimens.

Fortner, Heather J. *The Limu Eater*. University of Hawaii Sea Grant Miscellaneous Report, UNIH-SEAGRANT-MR-79-01, November 1978.

Fraker, Mark A. "A Rescue that Moved the World", *OCEANUS*, Vol.32, No. 1. Spring, 1989.

Giese, Arthur C., 1987. *Reproduction of Marine Invertebrates: General Aspects*. Boxwood Publishers. Pacific Grove, California.

Gorman, Brian E. "Scrimshaw and Scrimshanders, Whalebone and Whalers", *NOAA*, Vol. 7, No. 4, Oct. 1977.

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An identification guide with color photos.

Gotshall, Daniel W. 1989. *Pacific Coast Inshore Fishes*. Sea Challengers. Monterey, California.

An identification guide to Pacific coast fish with color photos.

Gotshall, Daniel W. and Laurence L. Laurent. 1980. *Pacific Coast Subtidal Marine Invertebrates*. Sea Challengers. Los Osos, California.

A rare identification guide dedicated to subtidal invertebrates. Color photos.

Guberlet, Muriel Lewin. 1956. *Seaweeds at Ebb Tide*. University of Washington Press. Seattle, Washington.

A seaweed identification guide with keys and line drawings.

Haley, Delphine, ed., 1986. *Marine Mammals*. Pacific Search Press. Seattle, Washington.

An excellent overview of groups of marine mammals and natural history of specific species.

Hardy, A. H. 1961. *The Open Sea: Its Natural History: Part I The World of Plankton*. Houghton-Mifflin Co. Boston.

To quote one reviewer, "This is one of the great books about the sea of our generation. The best introduction to marine biology for the layman that we have."

Hart, J. L. 1973. *Pacific Fishes of Canada. Bulletin 180*. Fisheries Research Board of Canada. Ottawa.

A comprehensive guide to eastern Pacific fish species. Contains a line drawing of each species and natural history information.

Hilgard, Galen Howard, ed. 1987. *Observing Marine Invertebrates; Drawings from the Laboratory*. Stanford University Press. Stanford, California.

Line drawings by students of external and internal anatomy of marine invertebrates.

Hirschfelder, Arlene B. 1986. *Happily May I Walk: American Indians and Alaska Natives Today*. Scribners Young Readers. New York.

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Kinne, Otto. 1967. *Physiology of estuarine organisms with special reference to salinity and temperature: general aspects*. In Lauf, G., ed., *Estuaries*. Publication No. 83, American Association for the Advancement of Science, Washington, D.C.

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Kozloff, Eugene N. 1987. *Marine Invertebrates of the Pacific Northwest*. University of Washington Press. Seattle, Washington

Kozloff, Eugene N. 1983. *Seashore Life of the Northern Pacific Coast*. University of Washington Press.

An identification guide organized by habitat. Contains abundant information on scientific classification of organisms and tidbits of natural history about most of the organisms.

Lamb, Andy and Phil Edgell. *Coastal Fishes of the Pacific Northwest*. Harbour Publishing. Madeira Park, British Columbia, Canada.

An easy to use identification guide to fish species.

Loeb, Paul. "On the Cutting Edge of Scrimshaw", *Pacific Northwest*, Dec. 1980.

Love, Robin Milton. 1991. *Probably More Than You Want to Know About the Fishes of the Pacific Coast*. Really Big Press. Santa Barbara, California.

A readable and very entertaining book about the adaptations of fish.

McConnaughey, Evelyn. 1985. *Sea Vegetables Harvesting Guide and Cookbook*. Naturegraph Publishers, Inc. Happy Camp, California.

McElroy, William D. and Seliger, Howard H. "Biological Luminescence", *Scientific American*, Vol. 207, No. 6, 1962.

McIntyre, Joan, ed. 1974. *Mind in the Waters*. Charles Scribner's Sons. New York.

An interesting collection of writings about cetacean intelligence.

Meglitsch, Paul A. and Frederick R. Schram. 1991. *Invertebrate Zoology*. Oxford University Press. New York.

A comprehensive college-level textbook.

Miller, Tom. 1975. *The World of the California Gray Whale*. Baja Travel Publications. Santa Ana, California.

Morholt, Evelyn and Paul F. Brandwein. 1986. Sourcebook for the Biological Sciences. National Science Teachers Association. Arlington, Virginia.

If you need the recipe for a pH indicator or procedures for growing brine shrimp, this book will help. Useful descriptions of lab techniques, procedures and materials.

Morris, Robert H., Donald P. Abbott, and Eugene C. Haderlie. 1980. Intertidal Invertebrates of California. Stanford University Press. Stanford, California.

A huge compendium of descriptions and information about intertidal invertebrates.

Nehlsen, Willa, Jack E. Williams and James Lichatowich. "Pacific Salmon at the Crossroads; Nature's Blue Chip Stocks in Peril." Trout, Winter, 1992.

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A useful guide, but no longer in print.

Nickerson, Roy. 1987. The Friendly Whales. Chronicle Books. San Francisco.

Nickerson, Roy. 1977. Brother Whale - A Pacific Whalewatcher's Log. Chronicle Books. San Francisco.

An interesting account of watching the Humpback whale.

Nicol, Stephen. "Krill, Food for the Future?", Sea Frontiers/Sea Secrets. Jan-Feb, 1987.

Niesen, Thomas M. 1982. The Marine Biology Coloring Book. Harper Collins. New York.

Useful for student assignments and as a reference. Contains pages for students to color code and information about each page.

Osborne, R., Calambokidis, John, & Dorsey, Eleanor M. 1988. A Guide to Marine Mammals of Greater Puget Sound. Island Publishers. Anacortes, Washington.

- Oxenhorn, Harvey. 1990. *Tuning the Rig - A Journey to the Arctic*. Harper and Row. New York.
An account of a whale research voyage aboard a square rigger along the east coast of Canada into the Arctic.
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An anthology of biological oceanographic articles giving insight into methods and types of research done by the biologist in the sea.
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A classic guide to intertidal life along the California coast written by Ed Ricketts, the biologist immortalized by John Steinbeck in *Cannery Row*.
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An excellent dramatization of whale biology.
- Schneiderwind and Ellen Davidson. 1983. Open Minds to Equality: A Sourcebook of Learning Activities to Promote Race, Sex, Class and Age Equity. Prentice Hall. New York.
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- Smith, Deboyd L. 1977. A Guide to Marine Coastal Plankton and Marine Invertebrate Larvae. Kendall/Hunt Publishing Company. Dubuque, Iowa.
No longer in print, but the best book around for identification of plankton.
- Smith, Harvey Garrett. 1975. The Marlinspike Sailor. John DeGraff, Inc.
Crafts and projects based on traditional skills of the sea: knots, splices, whippings, rope ladders, lanyards, fenders, mats, grommets, decorations for chests, bags and fittings.
- Smith, R. I., and Carlton, J. T. 1975. Light's Manual, Intertidal Invertebrates of the Central California Coast. University of California Press. Berkeley, California.
- Snively, Gloria. 1991. Exploring the Seashore. Gordon Soules Book Publishers. Vancouver, British Columbia, Canada.
An excellent identification guide, complete with general ecological information, line drawings and interesting natural history notes.
- Southward, A.J. 1965. Life on the Sea-Shore. Harvard University Press.
Provides excellent examples of how to study various problems of biology on the sea shore. Recommended for those interested in designing constructive field trip exercises.
- Stafford-Deitsch, Jeremy. 1988. Shark: A Photographer's Story. Sierra Club Books. San Francisco.
- Strickland, Richard M. 1983. The Fertile Fjord - Plankton in Puget Sound. University of Washington Press. Seattle, Washington.

- Sumich, James L. 1992. *An Introduction to the Biology of Marine Life*. Wm. C. Brown Publishers. Dubuque, Iowa.
A high school or college level textbook.
- Trefil, James S. 1987. *A Scientist at the Seashore*. Collier Books. New York.
An interesting book exploring the simple, yet complex, questions anyone might wonder about how things work at the seashore.
- Vernberg, W. and F.J. Vernberg. 1972. *Environmental Physiology of Marine Animals*. Springer-Verlag. New York.
- Waaland, J. Robert. 1977. *Common Seaweeds of the Pacific Coast*. Pacific Search Press. Seattle, Washington.
- Weiss, Howard M. and Michael W. Dorsey. 1979. *Investigating the Marine Environment: A Sourcebook*. Project Oceanology. Groton, Connecticut.
Contains a wealth of ideas and technical information for lab and field experiences.
- Williamson, W.M., editor. 1946. *The Eternal Sea: An Anthology of Sea Poetry*. Books for Libraries, Inc.
Twenty-one chapters of poetry arranged by titles such as “The Call of the Sea”, “Homeward Bound; Making Port”, “Fishermen...”
- Wimpenny, R. S. 1966. *The Plankton of the Sea*. American Elsevier Publishing Co. New York.
- Yates, Steve. 1988. *Adopting a Stream*. University of Washington Press. Seattle, Washington.

OTHER RECOMMENDED MATERIALS

Mac's Field Guides: plastic cards with color illustrations of animals to use for identification in the field. There are many guides for both terrestrial and aquatic habitats and for different regions of the west. Examples:

Northwest Coastal Fishes, Northwest Coastal Invertebrates, Northwest Marine Birds, Whales and Dolphins... Mac's Field Guide, The Mountaineers, 1011 S.W. Klickitat Way, Seattle, WA 98134; (206) 223-6303.

Nature series episodes, PBS, including: Elephant Seals

Warm Hearts, Cold Water (sea otters)

Incredible Suckers (cephalopods)

Under the Emerald Sea

Jewels of the Caribbean

Island of the Whales

Spirit of the Sound

NOVA production: Swimming with Whales

3-2-1 Contact production: Boy Under the Ice

Excellent review of hypothermia and bradycardia using a real-life drama about a boy who survives after falling through ice and becoming trapped in freezing water for 20 minutes as a springboard.

Washington State Boaters Education Curriculum Guide including a very enlightening and entertaining video with Bill Nye ("the Science Guy"). The curriculum guide and tape are available from Washington State Parks and Recreation Commission, 7150 Cleanwater Lane KY-11, P.O. Box 42650, Olympia, WA 98504-2650, 206-753-5755.

The Books That Inspire Marine Biology

John Trowbridge and Jim Wandersee*

Results of a survey of 1200 marine educators and scientists concerning the use of marine literature for instructional purposes.

Recommended Readings by All Groups

(includes noninstructional books)

Top 25 Suggested titles out 583 suggested books and 416 different titles

Rank	Title	Author
1.	The Sea Around Us	Rachel Carson
2.	Log From the Sea of Cortez	John Steinbeck
3.	Beautiful Swimmers.....	William Warner
4.	Life and Death of the Salt Marsh	John and Mildred Teal
5.	Edge of the Sea	Rachel Carson
6.	Kon Tiki	Thor Heyerdahl
7.	The Living Dock	Jack Rudloe
8.	Moby Dick	Herman Melville
9.	Old Man and the Sea	Ernest Hemingway
10.	Silent Spring.....	Rachel Carson
11.	Sailing Alone Around the World.....	Joshua Slocum
12.	Seaside Naturalist.....	Deb Colulombe
13.	Under the Sea Wind.....	Rachel Carson
14.	Cannery Row	John Steinbeck
15.	Chesapeake	James Michener
16.	Island of Blue Dolphins.....	Scott O'Dell
17.	Marine Biology Coloring Book	Niesen
18.	Outermost House.....	Henry Betson
19.	Silent World	Jacques Cousteau
20.	Soundings	Frank Searles
21.	Time of the Turtle	Jack Rudloe
22.	Voyage of the Beagle	Charles Darwin
23.	Waves and Beaches	Willard Bascom
24.	Whale for the Killing	Farley Mowatt
25.	Year of the Crab.....	William Sargent

Books Instructors Suggest Their Students Read

Top 5 of 81 titles given

Rank	Title	Author
1.	Log From the Sea of Cortez	John Steinbeck
2.	Moby Dick	Herman Melville
3.	The Sea Around Us	Rachel Carson
4.	Life and Death of the Salt Marsh.....	John and MildredTeal
5.	Cannery Row	JohnSteinbeck

Books Selected as Required Reading in Courses Taught

Top 10 of 125 titles

Rank	Title	Author
1.	Life and Death of the Salt Marsh.....	John and Mildred Teal
2.	Beautiful Swimmers.....	William Warner
3.	Kon Tiki.....	Thor Heyerdahl
4.	Old Man and the Sea	Ernest Hemingway
5.	The Sea Around Us	Rachel Carson
6.	Two Years Before the Mast	R.H. Dana
7.	Twenty Thousand Leagues Under the Sea	Jules Verne
8.	Silent Spring.....	Rachel Carson
9.	Whale for the Killing.....	Farley Mowatt
10.	Under the Sea Wind.....	RachelCarson

Books That Influenced Respondents or Which Affected Their Job Choice

Top 5 of 49 titles

Rank	Title	Author
1.	Between Pacific Tides	Ed Ricketts
2.	SilentSpring.....	RachelCarson
3.	The Sea Around Us	Rachel Carson
4.	Log From the Sea of Cortez	John Steinbeck
5.	Silent World	Jacques Cousteau

Books With Which Respondents Philosophically Identify

Out of 37 suggested titles only two books were suggested by three people:

Sand County Almanac

Aldo Leopold

Silent Spring

Rachel Carson

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