## References Cited in April 3, 2001 NMFS Final Listing Determination for Pacific Herring and Three Species of Rockfish in Puget Sound (66 FR 17659)

## **Federal Register Notices Cited**

56 FR 58612 (November 20, 1991)

51 FR 4722 (Typographic error - see 61 FR 4722 below)

61 FR 4722 (February 7, 1996)

64 FR 33037 (June 21, 1999)

65 FR 58612 (Typographic error - see 65 FR 70514 below)

65 FR 70514 (November 24, 2000)

## **Published Reports and Memoranda**

- Anderson, T.W. 1983. Identification and development of nearshore juvenile rockfishes (Genus *Sebastes*) in central California kelp forests. Masters Thesis, California State University, Fresno, 216 pp.
- Bekvar, N., J. Field, S. Salazar, and R. Hoff. 1996. Contaminants in Aquatic Habitats at Hazardous Waste Sites: Mercury. NOAA Tech. Memo. NOS ORCA 100. Seattle. Hazardous Materials Response and Assessment Division, NOAA. 74 pp.
- Buckley, R.M. and G.J. Hueckel. 1985. Biological processes and ecological development on an artificial reef in Puget Sound, Washington. Bull. Mar. Sci. 37:50-69.
- Buckley, M.B. 1997. Substrate associated recruitment of juvenile Sebastes in artificial reef and natural habitats in Puget Sound and the San Juan Archipelago, Washington. Washington Department of Fish and Wildlife Technical Report, #RAD97-06. 320p.
- Carr, M. 1991. Habitat selection and recruitment of an assemblage of temperate zone reef f ishes. J. Exp. Mar. Biol. Ecol. 146: 113-137.
- Chapman, W. M., M. Katz, and D. W. Erickson. 1941. The races of Herring in the state of Washington. Wash. Bio. Rep. No. 38A. 36 p.
- Chen, L. 1986. Meristic variation in *Sebastes* (Scorpaenidae) with an analysis of character association and bilateral pattern and their significance in species separation. NOAA Tech. Rep. NMFS 45.
- Clemens, W.A. and G.V. Wilby. 1961. Fishes of the Pacific coast of Canada. Bull. Fish. Res. Bd. Canada 68: 443p.
- DeLacy, A.C., B.S. Miller, and S.F. Borton. 1972. Checklist of Puget Sound fishes. Washington Sea Grant, Univ. Washington, Seattle, WA, No. WSG 72-3. 43 p.

- Eldridge, M. B., and W. M. Kaill. 1973. San Francisco Bay area's herring resource—a colorful past and a controversial future. Mar. Fish. Rev. 25:25-31.
- Emmett, R. L., S. L. Stone, S. A. Hinton, and M. E. Monaco. 1991. Distribution and abundance of fishes and invertebrates in west coast estuaries, Volume II: Species life history summaries. ELMR Rep. No. 8. NOAA/NOS/Strategic Environmental Assessments Division, Rockville, MD, 329 p.
- Eschmeyer, W.N., E.S. Herald, and H. Hammon. 1983. A field guide to Pacific Coast fishes of North America. Houghton Mifflin, Boston, Massachussetts. 336p.
- Everitt, R.D., P.J. Gearin, J.S. Skidmore, and R.L. DeLong. 1981. Prey items of harbor seals and California sea lions in Puget Sound, Washington. The Murrelet 62: 83-86.
- Garrison, K.J., and B.S. Miller. 1982 a. Review of the early life history of Puget Sound fishes. Seattle, WA, Fish. Res. Inst., Univ. Washington, 729 p.
- Gonyea, G., and B. Trumble. 1983. Growth and mortality rates for Puget Sound herring. *In* Proceedings of the fourth Pacific Coast herring workshop, October 1981., p. 133-139. Can. Manuscr. Fish. Aquat. Sci. 1700.
- Gowan, R. E. 1983. Population dynamics and exploitation rates of rockfish (*Sebastes* spp.) in central Puget Sound, Washington. Ph.D. Thesis, Univ. of Washington, Seattle, 90 p.
- Grant, W.S., and F.M. Utter. 1984. Biochemical population genetics of Pacific herring (*Clupea pallasi*). Can. J. Fish. Aquat. Sci. 41:856-864.
- Haegele, C. W., and J. F. Schweigert. 1985. Distribution and characterisitics of herring spawning grounds and description of spawning behavior. Can. J. Aquat. Sci. 42 (Suppl. 1): 39-55.
- Haldorson, L. and L.J. Richards. 1986. Post-larval copper rockfish in the Strait of Georgia: Habitat use, feeding, and growth in the first year. In Proc. Int. Rockfish Symposium. Alaska Sea Grant College Program, Anchorage, Alaska. 87-2: 129-141.
- Hart, J.L. 1973. Pacific Fishes of Canada. Bull. Fish. Res. Bd. Canada 180, 730 p.
- Hay, D. E. and D. M. Outram. 1981. Assessing and monitoring maturity and gonad development in Pacific herring. Can. Tech. Rep. Fish Aquat. Sci. 988. 31 p.
- Hay, D. E. 1985. Reproductive biology of Pacific herring (*Clupea harengus pallasi*) Can. J. Fish. Aquat. Sci. 42 (Suppl. 1): 31-38.
- Hay, D. E., P. B. McCarter. 1997. Larval distribution, abundance, and stock structure of British Columbia herring. J. Fish Bio. 51: 155-175.

- Katz, M. 1942. The herring races of Washington, with a note on the fecundity of the Seal Rock population. M. S. Thesis, Univ. Wash., Seattle, 65 p.
- Katz, M. 1948. The fecundity of herring from various parts of the North Pacific. Trans. Am. Fish. Soc. 75:72-76.
- Kessler, D.W. 1985. Alaska's Saltwater Fishes and Other Sea Life. Alaska Northwest Publishing Company, Anchorage, Alaska. 358 p.
- Kobayashi, T. 1993. Biochemical analyses of genetic variability and divergence of populations in Pacific herring. Bull. Nat. Inst. Far Seas Fish. 30:1-77.
- Koenings, J. 2000. Draft comments. Letter to Dr. Methot, NMFS, from J. Koenings, Director, Washington Department of Fish and Wildlife, dated December 2000. 6 p. (Available from Pacific Herring Administrative Record, Protected Resources Division, Natl. Mar. Fish. Serv., 525 N. E. Oregon Street, Portland, OR 97232.)
- Lassuy, D. R. 1989. Species profiles: Life histories and environmental requirements of coastal fishes and invertebrates. U. S. Dept. of Int., Bio. Rep. 82 (11.126). 18 p.
- Lemberg, N. A., M. F. O'Toole, D. E. Penttila, and K. C. Stick. 1997. 1996 Forage fish stock status report. Wash. Dept. of Fish and Wildlife Fish Management Program, Dec. 1997. Stock Status Rep. No. 98-1.
- Love, M.S. 1991. Probably more than you want to know about the fishes of the Pacific coast. Really Big Press, Santa Barbara, California. 215 p.
- Love, M.S., M.H. Carr, and L.J. Haldorson. 1996. The ecology of substrate-associated juveniles of the genus *Sebastes*. Environ. Biol. Fish. 30: 225-243.
- McQuinn, I. H. 1997. Metapopulations and the Atlantic herring. In Reviews in Fish Biology and Fisheries. 7: 297-329.
- Mahaffy, M.S., D.R. Nysewander, K. Vermeer, T.R. Wahl, and P.E. Whitehead. 1994. Status, trends, and potential threats related to birds in the Strait of Georgia, Puget Sound, and Juan de Fuca Strait. Can. Tech. Rep. Fish. Aquat. Sci. 1948:256-281.
- Malins, D.C., B.B. McCain, D.W. Brown, A.K. Sparks, H.O. Hodgins, and S-L. Chan. 1982. Chemical contaminants and abnormalities in fish and invertebrates from Puget Sound. NOAA Tech. Memo OMPA-19. 168 pp.
- Matthews, G.M. and R.S. Waples. 1991. Status Review for Snake River spring and summer chinook salmon. U.S. Department of Commerce, NOAA Tech. Memo. NMFS-F/NWC-200, 75p.

- Matthews, K.R. 1987. Habitat utilization by recreationally-important bottomfish in Puget Sound: An assessment of current knowledge and future needs. State of Washington Department of Fisheries Progress Report No. 264, 57p.
- Matthews, K.R. 1988. Habitat use and movement patterns of copper, quillback, and brown rockfishes in Puget Sound, Washington. Ph.D. Dissertation. University of Washington, Seattle, Washington. 138p.
- Matthews, K.R. 1990a. An experimental study of the habitat preferences and movement patterns of copper, quillback, and brown rockfishes (Sebastes spp.). Envir. Biol. Fish. 29: 161-178.
- Matthews, K.R. 1990b. A comparative study of habitat use by young-of-the-year, and adult rockfishes on four habitat types in central Puget Sound. Fish. Bull. 88: 223-239.
- Matthews, K.R. 1990c. A telemetric study of the home ranges and homing routes of copper and quillback rockfishes on shallow rocky reefs. Can. J. Zool. 68: 2243-2250.
- Meador, J.P. 2000. An analysis in support of tissue and sediment based threshold concentrations of polychlorinated biphenyls (PCBs) to protect juvenile salmonids listed by the Endangered Species Act. Internal report, NMFS. Memo from Tracy K. Collier, through John E. Stein, to Steven Landino. September 2000. Northwest Fisheries Science Center, NMFS, NOAA. Seattle, WA.
- Meng, H.J., and M. Stocker. 1984. An evaluation of morphometrics and meristics for stock separation of Pacific herring (*Clupea harengus pallasi*). Can. J. Fish. Aquat. Sci. 41:414-422.
- Miller, D.J. and R.N. Lea. 1972. Guide to the coastal marine fishes of California. Calif. Dept. Fish and Game, Fish. Bull. 157: 249p.
- Morrow, J. E. 1980. The fresh water fishes of Alaska. Alaska Northw. Publ. Col, Anchorage, AK, 248 p
- Murie, et al. 1993 (Typographic error see Murie, et al. 1994 below)
- Murie, D.J., D.C. Parkyn, B.G. Clapp, and G.G. Krause. 1994. Observations on the distribution and activities of rockfish, Sebastes spp., in Saanich Inlet, British Columbia, from the Pisces IV submersible. Fish. Bull. 92: 313-323.
- Narum, S. 2000. Assortative mating and genetic structure of gopher rockfish, (*S. carnatus*) and black-and-yellow rockfish (*S. chrysomelas*): A case of incipient speciation. Masters Thesis, University of San Diego.
- National Marine Fisheries Service. 1997. Investigation of scientific information on the impacts

- of California sea lions and Pacific harbor seals on salmonids and on the coastal ecosystems of Washington, Oregon, and California. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-NWFSC-28, 172 p.
- National Marine Fisheries Service. 2001a. Status review of copper rockfish (*Sebastes caurinus*), quillback rockfish (*S. malinger*), and brown rockfish (*S. auriculatus*) in Puget Sound, Washington. U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-46, 158 p.
- National Marine Fisheries Service. 2001b. Status review of Pacific Herring (Clupea pallasi) in Puget Sound, Washington. U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-45, 175 p.
- National Research Council. 1995. Science and the Endangered Species Act. National Academy of Sciences, National Academy Press, Washington, D.C., 162 p.
- Olesiuk, P.F., M.A. Bigg, G.M. Ellis, S.J. Crockford, and R.J. Wigen. 1990. An assessment of the feeding habits of harbor seals (*Phoca vitulina*) in the Strait of Georgia, British Columbia, based on scat analysis. Can. Tech. Rep. Fish. Aquat. Sci. 1739, 135 p.
- O'Toole, M., D. Penttila, and K. Stick. 2000 [DRAFT]. A review of stock discreteness in Puget Sound herring. Wash. Dept. Fish. Brief. Rept. 27 p.
- Pacunski, R.E., and W.A. Palsson. 1998. The distribution and abundance of nearshore rocky-reef habitats and fishes in Puget Sound. In Proceedings of Puget Sound Research '98 Conference, March 12-13, p. 545-554. Puget Sound Water Quality Action Team, Olympia, WA.
- Patten, B. G. 1973. Biological information on copper rockfish in Puget Sound, Washington. Trans. Amer. Fish. Soc., No. 2: 412-416.
- Paulson, A.C., and R.L. Smith. 1977. Latitudinal variation of Pacific herring fecundity. Trans. Am. Fish. Soc. 106:244-247.
- Puget Sound Water Quality Action Team. 2000. 2000 Puget Sound Update: Seventh Report of the Puget Sound Ambient Monitoring Program. Puget Sound Water Quality Action Team, Olympia, WA. 127p.
- Puget Sound Water Quality Authority (PSWQA). 1988. State of the Sound 1988 report. Puget Sound Water Quality Authority, Seattle, WA. 225 p.
- Quinnell, S., and C. Schmitt. 1991. Abundance of Puget Sound demersal fishes: 1987 research trawl survey results. Wash. Dept. Fish. Prog. Rep. No. 286, 267p.
- Richards, L.J. and A.J. Cass. 1987. The British Columbia inshore rockfish fishery: Stock assessment and fleet dynamics of an unrestricted fishery. In: Proceedings of The

- International Rockfish Symposium, Anchorage, AK, 1986. Alaska Sea Grant Report No. 87-2.
- Rocha-Olivares, A., Kimbrell, C. A., Eitner, B. J., and Vetter, R. D. 1999. Evolution of a mitochondrial cytochrome b gene sequence in the species-rich genus *Sebastes* (Teleostei, Scorpaenidae) and its utility in testing the monophyly of the subgenus *Sebastomus*. Mol. Phyl. and Evol. 11: 426-440.
- Rosenthal, R.J., V. Moran-O'Connell, and M.C. Murphy. 1988. Feeding ecology of ten species of rockfishes (Scorpaenidae) from the Gulf of Alaska. Alaska Dept. Fish and Game 74: 16-36.
- Rounsefell, G.A. 1929. A racial study of the Pacific herring. Univ. Washington, Seattle, 63 p.
- Rounsefell, G.A. 1930. Contribution to the biology of the Pacific herring, Clupea pallasii, and the condition of the fishery in Alaska. Bull. U. S. Bur. Fish. 45:227-326.
- Schweigert, J.F. 1991. Multivariate description of Pacific herring (*Clupea harengus pallasi*) stocks from size and age information. Can. J. Fish. Aquat. Sci. 48:2365-2376.
- Schweigert, J.F. and C. Fort. 1999. Stock assessment for British Columbia herring in 1999 and forecasts of the potential catch in 2000. PSARC H99:1. 94p.
- Seeb, L. W. 1986. Biochemical systematics and evolution of the scorpaenid genus *Sebastes* (PhD dissertation). Seattle: University of Washington.
- Seeb, L. W. 1998. Gene flow and introgression within and among three species of rockfishes, Sebastes auriculatus, S. caurinus, and S. maliger. Amer. Gene. Ass. 89: 393-403.
- Seeb, J.E., S.E. Merkouris, L.W. Seeb, J.B. Olsen, P. Bentzen, and J.M. Wright. 1999. Genetic discrimination of Prince William Sound herring populations. *Exxon Valdez* Oil Spill Restoration Project final report (Restoration Project 97165), Alaska Department of Fish and Game, Anchorage, Alaska.
- Shinomiya, A., and Ezaki, O. 1991. Mating habits of the rockfish *Sebastes inermis*. Env. Biol. Fish. 30: 15-22.
- Stein, D. and T. J. Hassler. 1989. Species profiles: Life histories and environmental requirements of coastal fishes and invertebrates (Pacific Southwest): Brown rockfish, copper rockfish, and black rockfish. Wash. Dept. Fish. Bio. Rept. 82 (11.113) 16 p.
- Stocker, M., and R. Kronlund (Editors). 1985. (Typographic error see Stocker, M., and R. Kronlund 1998 below.)
- Stocker, M., and R. Kronlund (Editors). 1998. Report of the PSARC herring subcommittee

- meeting September 1-3, 1998 and the steering committee meeting September 15, 1998. Can. Stock Assessment Proceedings Series 98/14. 46 p.
- Suer, A. L. 1987. The herring of San Francisco and Tomales Bays. The Ocean Res. Inst., San Francisco, CA, 64 p.
- Taylor, C. A. 1998. Phylogenetics and larval identification of rockfishes (genus *Sebastes*) using mitochondrial DNA techniques. Masters Thesis. San Diego State University.
- Thompson, W.F. 1917. A contribution to the life-history of the Pacific herring: its bearing on the condition and future of the fishery. Rep. B.C. Comm. Fish. for 1916, p. 39-87.
- Trumble, R. 1979. Analysis of data relating to possible effects of sac roe herring fishing on the abundance of bait herring. Wash. Dept. Fish. Prog. Rept. 80. 31 p.
- Trumble, R.J. 1980. Herring management activities in Washington state. *In* Melteff, B., and V. G.Wespestad (eds), Proceedings of the Alaska herring symposium, February 19-21, 1980, Anchorage, AK, p. 91-113. Alaska Sea Grant Rep. 80-4.
- Trumble, R. 1983. Management plan for baitfish species in Washington State. WDF Progress Report 195.
- Utter, F.M. 1972. Phosphoglucomutase and esterase polymorphism in Pacific herring in Washington waters. *In* R.C. Simon and P.A. Larkin, (eds.), The stock concept in Pacific salmon, p.191-197. H.R. MacMillan Lectures in Fisheries, Univ. British Columbia, Vancouver, B.C.
- Utter, F.M., H.O. Hodgins, and F.W. Allendorf. 1974. Biochemical genetic studies of fishes: potentialities and limitations. *In* D.C. Malins and J.R. Sargent, (eds.), Biochemical and biophysical perspectives in marine biology, Volume I, p. 213-238. Academic Press, New York, N.Y.
- Wang, J. C. S. 1986. Fishes of the Sacramento-San Joaquin estuary and adjacent waters, California: A guide to the early life histories. Tech. Rep. 9. Interagency ecological study program for the Sacramento-San Joaquin estuary. Cal. Dept. Water Res., Calif. Dept. Fish Game, U. S. Bureau Reclam., and U. S. Fish. Wildl. Ser., various pagination.
- Washington Department of Fish and Wildlife 2000. Letter to Dr. Methot, NMFS, from J. Koenings, Director, Washington Department of Fish and Wildlife, dated December 2000. 6 p. (Available from Pacific Herring Administrative Record, Protected Resources Division, Natl. Mar. Fish. Serv., 525 N. E. Oregon Street, Portland, OR 97232.)
- West, J.E. and S. M. O'Neill. 1998. Persistent pollutants and factors affecting their accumulation in rockfishes (Sebastes spp.) from Puget Sound, Washington. In Puget Sound Research '98 Proceedings, Bellevue, WA. Puget Sound Water Quality Authority.

pp. 336-345.

Wiens, J.A. and J.M. Scott. 1975. Model estimation of energy flow in Oregon coastal seabird populations. The Condor 77:439-449.