

Nearshore studies of the Strait of Juan de Fuca

Bibliography compiled by the [Coastal Watershed Institute](#), 15 Oct 2013

Studies are listed from newest to oldest, except for *

General studies:

- *Shaffer, J.A., T. Ritchie, P. Crain, M. Beirne, and C. Lear. 2008. Nearshore function of the central Strait of Juan de Fuca for juvenile fish, including Puget Sound Chinook salmon. http://hws.ekosystem.us/prun.aspx?p=Page_e7e0ad79-17d5-489b-9ed8-cb76f1f7c879&m=1&text=juan+de+fuca+nearshore&cols=2
- Parks, D., A. Shaffer and D. Barry. 2013. Drift cell sediment processes and ecological function for forage fish: Implications for ecological restoration in impaired Pacific Northwest marine ecosystems. *Journal of Marine Research*. 29 (4): pp. 984 – 997
- Shaffer J.A., P. Crain, T. Kassler, D. Penttila, and D Barry. 2012. Geomorphic Habitat Type, Drift Cell, Forage Fish, and Juvenile Salmon: Are They Linked? *Journal of Environmental Science and Engineering A*(1):688-703.
- Shaffer, J.A.2004. Salmon in the Nearshore: What do we know and where do we go? A synthesis discussion concluding the all day special session entitled ‘Salmon in the Nearshore’ of the 2004 Pacific Estuarine Research Society (PERS). Available on line from the PERS webpage, <http://www.pers-erf.org/SalmonNearshoreFinal.pdf>
- Shaffer, J.A.2004. Preferential use of nearshore kelp habitats by juvenile salmon and forage fish. In T.W. Droscher and D.A. Fraser (eds). *Proceedings of the 2003 Georgia Basin/Puget Sound Research Conference*. http://www.psat.wa.gov/03_proceedings/start.html
- Shaffer, J.A. 2001. Nearshore habitats of Clallam County: how we interact. In: workshop proceedings, Clallam County Marine Resources Committee. Clallam County, Port Angeles, Washington. <http://www.clallammrc.org>
- Shaffer, J.A. 2000. Seasonal variation in understory kelp bed habitats of the Strait of Juan de Fuca. *Journal of Coastal Research*. 16 (3) 768-775.
- Shaffer, J.A.1998. Kelp habitats of Inland Waters of Western Washington. Puget Sound Research 98. Puget Sound Watershed Action Team, Olympia, Washington.
- Shaffer, J. A., D. Doty, R. Buckley and J. West 1995. Community Composition and Trophic Use of Drift Vegetation Habitat by Juvenile Splitnose Rockfish, *Sebastes diploproa*. *Marine Ecology Progress Series*. 123 (1-3).

Water quality and nearshore habitat:

- Shaffer, J.A.2004. Water quality as a contemporary limiting factor to Olympia oyster (*Ostreola conchaphila*) restoration in Washington state. In T.W. Droscher and D.A. Fraser (eds). *Proceedings of the 2003 Georgia Basin/Puget Sound Research Conference*. http://www.psat.wa.gov/03_proceedings/start.htm
- Shaffer, J.A. 2002. Macroalgae blooms and nearshore habitat and resources of the Strait of Juan de Fuca. In: *Proceeding, Puget Sound Research 2001*. Puget Sound Water Quality Action Team, Olympia, Washington. http://www.psat.wa.gov/01_proceedings/start.htm

Shaffer, J. A. and D. S. Parks 1994. Seasonal Variations in and Observations of Landslide Impacts on the Algal Composition of a Puget Sound Nearshore Kelp Forest. *Botanica Marina*. 37: 315-323.

Shaffer, J.A. and C. Burge. 1999. Ulvoid mats and shellfish of the Strait of Juan de Fuca: a pilot study. *Estuarine and Coastal Sciences Association Bulletin*. (32) 56-59.

Elwha dam removal implications:

2013 Elwha nearshore consortium proceedings:

http://www.coastalwatershedinstitute.org/resources_24_905640298.pdf

Quinn, T. P., J. A. Shaffer, J. Brown, N. Harris, C. Byrnes, and P. Crain. 2013. Juvenile Chinook salmon, *Oncorhynchus tshawytscha*, use of the Elwha River estuary prior to dam removal. *Environmental Biology of Fishes*

Quinn, T, N. Harris, A. Shaffer, C. Byrnes, and P. Crain, 2013. Juvenile coho salmon, *Oncorhynchus kisutch*, in the Elwha River estuary prior to dam removal: Seasonal occupancy, size distribution, and comparison to nearby Salt Creek . *Transactions of the American Fisheries Society*.142(4): 1058-1066

Shaffer, J. A. M. Beirne, T. Ritchie, R. Paradis, D. Barry, and P. Crain. 2009. Fish use of the Elwha estuary and the role anthropogenic impacts to physical processes play in nearshore habitat function for fish. *Hydrobiologia* 636:179–190.

Shaffer, J.A, P. Crain, B. Winter, M. McHenry, C. Lear and T. Randle. 2008. Nearshore Restoration of the Elwha River Through Removal of the Elwha and Glines Canyon Dams: An Overview. *Northwest Science*. 82:48-58.

Ward, L., P. Crain, B. Freymond, M. McHenry, D. Morrill, G. R. Pess, R. Peters, J. A. Shaffer, B. Winter, B. Wunderlich. 2008. [Elwha River Fish Restoration Plan, developed pursuant to the Elwha River Ecosystem and Fisheries Restoration Act, Public Law 102-495](#). U.S. Dept. of Commerce, NOAA Tech. Memo., NMFS-NWFSC-90, 168 p

Norris, J, I. Ward, A. Shaffer and C. Lear 2007. Eelgrass mapping of the Elwha Nearshore. in *Proceedings, Puget Sound Georgia Basin Conference* , Puget Sound Water Quality Authority, Olympia Washington.

Shaffer, J.A., D. Penttila, M. McHenry and D. Vilella. 2007. Observations of Eulachon, *Thaleichthys pacificus*, in the Elwha River, Olympic Peninsula, Washington. *Northwest Science*.81(1):76-81

Shaffer, J.A., L. Ward, P. Crain, B. Winter, K. Fresh, and C. Lear. 2005. Elwha and Glines Canyon dam removals: nearshore restoration and salmon recovery of the central Strait of Juan de Fuca, in *Proceedings, Puget Sound Research Conference 2005*, Puget Sound Water Quality Action Team, Olympia Washington.