Focus on Oyster Reef Ecology/Restoration, Especially *Crassostrea virginica*, Living Shorelines, Climate Change/Acidification, Remote Sensing, and Many Related Topics

(Revision date 5/26/16)

**Table of Content**

Recent Shellfish Reviews and Related Subjects (relevant Taxonomy, focus Biogenic Molluscan Species, Oysters, Ecosystem Services, Climate Change, Stessors, Coral Reefs, etc.) ................................................................. 3

General Climate and Acidification Related Papers/Reviews ....................................................................................................................... 21

General Restoration Literature, Approaches, etc. ........................................................................................................................................ 22

Disturbance From Harvesting, Non-Consumptive Human Impacts (Includes abandoned gear) .......... 25

Some Classic Works (and Reviews) ...................................................................................................................................................... 28

General Marine Ecological Contributions, Metapopulations, Incl. Reproduction, Habitats, Attraction-Production Issue, etc. ............................................................................................................................... 32

General Bivalve/Gastropod Feeding, Reproduction, Growth, Ecology Papers (scallops, mussels, *Mya* included) ......................................................................................................................................................... 37

Living Shorelines, Sea Level Rise, Nourishment, Related Topics by Location, etc. (In Progress) .......... 41

Recent Bivalve Contributions (w/ focus on Oyster Restoration includes ecosystem services, diseases, feeding, reserves, reproduction, larvae, etc.) primarily: ........................................................................................................ 52

Olympia oyster (*O. lurida*), Non-*Crassostrea* Work, U.S., Canada and Elsewhere ......................... 81

Mollusc Shells, Shape, Flow, Food, Behavior, Temperature, Salinity, DO, etc. (see also Paleobiology, Anthropology, Taphonomy, Geomorphology of Oysters and Reefs below): ........................................................................ 86

Reef Development, Habitat Landscapes, Organisms Associations, Shape, Flow, Edge Effects, Halos, Geomorphology, Paleontology, Taphonomy (includes molluscs, corals, etc.): .......................................... 90

Cultch Quarantine for Restoration ....................................................................................................................................................... 92

Some Pertinent “Grey” Literature (Oysters, Clams, etc.) and websites ............................................. 92

Papers/Reports/Books/Handbooks Related to Sampling Habitats, Reviews (focus on Oysters, Marsh, Mudflats, etc.) ................................................................................................................................................. 100

Relevant Genetics or Population (Fisheries, etc.) Models for Natural and Restored Reefs, Carrying Capacity, Aquaculture as An Alternative to Restoration, B-P Coupling ................................................................. 103

Modeling Restoration, Oyster Reef Habitat, Carrying Capacity, Aquaculture, ShellGis ..................... 111

Ocean Acidification, pH, El Niño, N& C trading, Climate-Disease Impacts, Sea-Level Rise, and Related Topics (See also Paleo and Shell Budgets) ........................................................................................................ 112

Carbonate and Shell Budgets and Restoration, etc. (see also Paleo section for more) .................... 121
Paleobiology, Anthropology, Taphonomy, Geomorphology of Oysters and Reefs (see also Shells, Shape, Flow, Food, DO, etc. Section above and Boonea): ............................................................... 124
Shellfish-SAV, Bloom Interactions, Some Bivalve Aquaculture Interactions with Natural Systems, Benthos (see also Relevant Genetics, etc.) ................................................................. 133
Alternative Substrates for Restoration ............................................................................. 141
Predation/Competition/Refugia (other Bivalves also, See Paleobiol. For Vermeij et al.) .......... 143
Predation on Oysters, Other Molluscs, Decapod Crabs on Reefs ........................................ 154
Community Restoration Work ........................................................................................... 158
Boat Wakes/Anthropogenic Impacts/FW and Diversions/Hurricanes, Erosion/Living Shorelines, Specific Marine-Related Statistical Treatments ......................................................................................... 159
General Statistics Texts, Modeling, Ecological Analyses and Relevant Critiques ................. 172
Remote Sensing, Status and Trends and Mapping Related to Habitats, Especially Shellfish Habitats (Subtidal and Intertidal), Misc. Methods, Sed Traps, etc. ................................................................. 177
Pollution and Impacts on Oysters and Other Faunal Associates on Reefs ............................... 184
General Intertidal and Subtidal Reef Assessments (Fish, Inverts, etc.) ..................................... 188
Pinnotherids and Related Lit. .............................................................................................. 189
Intertidal Oyster Reefs, Disease, Exposure, etc. ................................................................... 192
Diseases (Dermo, MSX, QPX, Vibrio, etc.) ......................................................................... 194
Parasites of Molluscs and Crabs ......................................................................................... 198
Birds associated with Shellfish Habitats, Beaches, Mudflats (Methods also) ............................. 198
Eutrophication, Denitrification, Nitrogen and C Sequestration (Reviews, Methods also) ........ 202
Non-Native Impacts, Dispersal of Oysters, etc. (does not include most mussel work) ............ 203
*Perna viridis* and Interactions with Oysters ....................................................................... 216
Feeding by Gastropods, Intertidally and Subtidally ............................................................... 218
General Faunal Summaries by Region, State, Area (see Heck and Spitzer also below) .......... 219
General Macroalgal Summaries by Region ......................................................................... 226
Species- or Taxa- Specific Information ................................................................................ 229
*Boonea impressa* (related archaeology) and Other Molluscan Parasites (Eulimids) .......... 229
*Geukensia* and Other Mussels on Reefs and in Marine and Estuaries (also Dreissenids) .... 234
*Palaemonetes*- (Grass shrimp) Related and Brachyuran (especially xanthid) Papers .......... 240
Recent Shellfish Reviews and Related Subjects (relevant Taxonomy, focus Biogenic Molluscan Species, Oysters, Ecosystem Services, Climate Change, Stessors, Coral Reefs, etc.)


*pugio* following exposure to three xenobiotics. Environmental Science and Technology, 40:3640–3645.


appendix). To get any of MP’s papers see http://www.palmerlab.umd.edu/publications.html


**General Climate and Acidification Related Papers/Reviews**


General Restoration Literature, Approaches, etc.


No. 23. NOAA National Centers for Coastal Ocean Science, Silver Spring, MD. 628pp. plus appendices.


**Disturbance From Harvesting, Non-Consumptive Human Impacts (Includes abandoned gear)**


Some Classic Works (and Reviews)


U.S. Coast Survey 1872 and 1874. Boat Sheets Nos. 1179a and 1179b approved for registry in 1872 and 1874, respectively. Incorporating Results of Surveys of the James River made in 1871, 1872 and 1873. U.S. Coast Survey. Washington, D.C.


Winslow, L.F., 1886. Report on the waters of North Carolina with reference to their possibilities for oyster culture. P.M. Hale, state printer and Binder, Raleigh, N.C.


**General Marine Ecological Contributions, Metapopulations, Incl. Reproduction, Habitats, Attraction-Production Issue, etc.**


LDC, FAU Pg 32


LDC, FAU Pg 33


**General Bivalve/Gastropod Feeding, Reproduction, Growth, Ecology Papers (scallops, mussels, Mya included)**


LDC, FAU Pg 38


Living Shorelines, Sea Level Rise, Nourishment, Related Topics by Location, etc. (In Progress)

General


shoreline protection strategy: effects of artificial structures on macrobenthic assemblages.

restored in the modern era. CRC Marine Science Series by CRC Press/Taylor & Francis
Group.

Borsje, B.W., van Wesenbeeck, B.K., Dekker, F., et al., 2011. How ecological engineering can

Hawkins, S.P.G. Hoggart, J.L. Lara, I.J. Losada, M. Maza, B. Ondiviela, M.W. Skov,
Identifying knowledge gaps hampering application of intertidal habitats in coastal

ordinance manual. This project was supported by the Mobile Bay National Estuary
Program with a grant from AL Department of Conservation and Natural Resources, State
Lands Division, Coastal Section, through funding from the NOAA, Office of Ocean and
Coastal Resource Management, Award # 11NOS4190104, 50pp. see http://www.oyster-

Bozek, C.M., and D.M. Burdick, 2005. Impacts of seawalls on saltmarsh plant communities in
the Great Bay Estuary, New Hampshire USA. Wetlands Ecology and Management
13:553–568.

Bradley, C.D., R.D. Seitz, and K.E. Knick, in review. Classification of benthic communities and


Douglass, S. L. and B. H. Pickel. 1999. The tide doesn't go out anymore - the effect of bulkheads
on urban shorelines. Shore and Beach 67:19-25.

Currin, C.A., W.S. Chappell, and A. Deaton, 2010. Developing alternative shoreline armoring
strategies: the living shoreline approach in North Carolina. Pp. 91-102, In: H. Shipman,
Shorelines and the Impacts of Armoring—Proceedings of a State of the Science

Marine urbanization: an ecological framework for designing multifunctional artificial
http://dx.doi.org/10.1890/140050

the Conterminous United States 2004 to 2009. U.S. Department of the Interior, FWS and


Linked In Living Shoreline Erosion Control forum. See http://www.linkedin.com/groups/Living-Shoreline-Erosion-Control-Forum-4157277/about


Mid-Atlantic Living Shorelines Summit (December 2013), presentations are now available at http://www.estuaries.org/mid-atlantic-living-shorelines-summit-presentations.html.

metrics. E & C 38(4):1274-1287. Includes useful metrics for monitoring fringing marshes that are exposed to shoreline development


Mississippi-Alabama Sea Grant Legal Program, National Sea Grant Law Center, Troy University, 2014. Inventory of Shellfish restoration permitting & programs in the coastal states. Prepared for The Nature Conservancy, under TNC Cost Center Number 1981203049 with additional funding from the NOAA, U.S. Department of Commerce, 189pp. a timely summary of shellfish policies in 21 coastal states.


Pinsky, M.L. and D.A. Byler, in press. Fishing, climate variability, and fast growth increase the risk of collapse. Proceedings B


http://www.habitat.noaa.gov/restoration/techniques/livingshorelines.html
http://www.habitat.noaa.gov/restoration/techniques/lsimplementation.html


Living Shorelines Database, COPRI, http://livingshores.mycopri.org/

Southern Environmental Law Center’s LS site, http://www.southernenvironment.org/cases/living_shorelines/


New England

New York/New Jersey

Mitigating shoreline erosion along New Jersey’s sheltered coast: overcoming regulatory obstacles to allow for living shorelines. see http://www.state.nj.us/dep/cmp/docs/livingshores2011.pdf
Maryland

Burke, D.G., E.W. Koch, and J.C. Stevenson, 2005. Assessment of hybrid type shore erosion control projects in Maryland’s Chesapeake Bay-Phases I and II: Annapolis, Md., Chesapeake Bay Trust.


Mid-Atlantic Living Shorelines Summit 2014, presentation are now available at http://www.estuaries.org/mid-atlantic-living-shorelines-summit-presentations.html.

Luscher, A. and C. Hollingsworth, 2005. Shore erosion control the natural approach. Maryland Department of Natural Resources


Living Shoreline Stabilization at Riviera Beach, MD. See http://www.jmt.com/project-portfolio/living-shoreline-stabilization-at-riviera-beach/

Maryland Department of Natural Resources has debuted a new living shorelines website, See link (http://www.dnr.state.md.us/ccs/livingshores.asp).


Evaluation of Living Shoreline Techniques, Dr. Bhaskar Subramanian et al., http://www.vims.edu/cbnerr/_docs/ctp_docs/ls_docs/06_LS_Eval.pdf

CoastSmart Communities, http://dnr.maryland.gov/coastsmart/

Shoreline erosion maps by county, what are my options?, here St. Mary’s, http://dnr.maryland.gov/coastsmart/pdfs/StMarys.pdf

Restoring the Chesapeake Bay through Innovation, http://dnr.maryland.gov/ccs/livingshores.asp


North Carolina


NC Estuarine Shoreline Stabilization, NCDENR, http://dcm2.enr.state.nc.us/estuarineshoreline/estuarine.html


South Carolina

Georgia

Florida

http://www.dep.state.fl.us/coastal/news/articles/2008/0812_Shorelines.htm

http://www.dep.state.fl.us/northwest/ecosys/section/living_shorelines.htm
GOM


Alabama


Mississippi

Shoreline protection alternatives:

http://www.masgc.org/page.asp?id=235


Louisiana


Texas

http://www.jmt.com/project-portfolio/living-shoreline-stabilization-at-riviera-beach/
http://tcwp.tamu.edu/files/2012/06/LivingShorelineBrochureFinal_3.pdf

California

http://www.thewatershedproject.org/WhatWeDo/LivingShoreLine.html
http://www.californiawildlifefoundation.org/pdf/Attachment%201_SF%20Bay%20Living%20Shorelines%20JARPA%202012.pdf

Oregon

Washington


The Puget Sound Restoration Fund (PSRF) is a Washington-based nonprofit founded in 1997, dedicated to restoring marine habitat, water quality and native species in Puget Sound. They are: (1) adding shell substrate to increase settlement success; (2) spreading shell and seed on shell (SOS, hatchery or natural set); or (3) producing hatchery-propagated native oyster seed using appropriate genetic protocols co-developed with the state’s WDFW. NMFS/NOAA is building a restoration hatchery to produce Olympia oyster (Ostrea conchaphia) seed on a larger scale. For more information about their Olympia oyster project see their website: www.restorationfund.org.


Green Shores website, http://www.stewardshipcentrebc.ca/greenshores/

**International**


**Recent Bivalve Contributions (w/ focus on Oyster Restoration includes ecosystem services, diseases, feeding, reserves, reproduction, larvae, etc.) primarily:**


Bolton-Warberg, M., L.D. Coen and J. Weinstein, 2007. Acute toxicity and acetylcholinesterase inhibition in grass shrimp (Palaemonetes pugio) and oysters (Crassostrea virginica) exposed to the organophosphate dichlorvos: laboratory and field studies. Archives of Environmental Contamination and Toxicology 52:207-216.


LDC, FAU Pg 55


LDC, FAU Pg 59


http://drum.lib.umd.edu/bitstream/1903/12697/1/Lombardi/umd_0117E_13088.pdf


LDC, FAU Pg 68


Olympia oyster (*O. lurida*), Non-*Crassostrea* Work, U.S., Canada and Elsewhere


Troost, K., 2009. Pacific oysters in Dutch estuaries: causes of success and consequences for native bivalves. This project was funded by the Netherlands Organization for Scientific Research – Earth and Life Sciences (NOW-ALW; Project number 812.03.003). Part of a Ph.D. Dissertation, Wageningen IMARES – Yersek. University of Groningen, Department of Marine Biology Centre for Ecological and Evolutionary Studies, 255pp. see http://www.waddenacademie.nl/fileadmin/inhoud/pdf/06-wadweten/Proefschriften/Proefschrift_Karin_Troost.pdf


**Mollusc Shells, Shape, Flow, Food, Behavior, Temperature, Salinity, DO, etc. (see also Paleobiology, Anthropology, Taphonomy, Geomorphology of Oysters and Reefs below):**


Hopkins, S.H., 1950. The inter-relationship of weight, volume, and linear measurements of oysters and the number of oysters per Louisiana sack measure. Texas A&M University, College Station, TX. 15pp.


Reef Development, Habitat Landscapes, Organisms Associations, Shape, Flow, Edge Effects, Halos, Geomorphology, Paleontology, Taphonomy (includes molluscs, corals, etc.):


**Cultch Quarantine for Restoration**


**Some Pertinent “Grey” Literature (Oysters, Clams, etc.) and websites**


Introduced species of Hawaii [http://www2.bishopmuseum.org/HBS/invertguide/species/crassostrea_virginica.htm](http://www2.bishopmuseum.org/HBS/invertguide/species/crassostrea_virginica.htm)


Cerco, C. F., and M. R. Noel. 2005. Assessing a ten-fold increase in the Chesapeake Bay native oyster population. A report to the EPA Chesapeake Bay Program.


LDC, FAU Pg 93


Hicks, R. 2004. Recreational fishing and the benefits of oyster reef restoration in the Chesapeake Bay. Working Paper #1, College of William and Mary.


http://www.dnr.state.md.us/irc/docs/00000260_03.pdf


Lipton, D. Final draft economic analysis for oyster restoration alternatives. www.nao.usace.army.mil/OysterEIS


Philpots, John R., 1890. Oysters, and all about them. being a complete history of the titular subject, exhaustive on all points of necessary and curious information from the earliest writers to those of the present time, with numerous additions, facts and notes. John Richardson & Co. Medical Publishers, London, U.K.


Walne, P.R., 1979. Culture of bivalve molluscs. 50 Years of Experience at Conwy Fishing New Books Ltd., Farnham 189.


Papers/Reports/Books/Handbooks Related to Sampling Habitats, Reviews (focus on Oysters, Marsh, Mudflats, etc.)


LDC, FAU Pg 100


Minello, TJ. 1999. Nekton densities in shallow estuarine habitats of Texas and Louisiana and the identification of Essential Fish Habitat. AFS Symposium 22:43-75.


**Relevant Genetics or Population (Fisheries, etc.) Models for Natural and Restored Reefs, Carrying Capacity, Aquaculture as An Alternative to Restoration, B-P Coupling**


**Modeling Restoration, Oyster Reef Habitat, Carrying Capacity, Aquaculture, ShellGIS**

Practical models are required to help manage aquaculture production, including the effects of aquaculture on wider ecosystem services, towards internalisation of wastes within multi-trophic systems. However, models to date in general lack detailed representation of critical hydrodynamic effects in and around aquaculture, whether suspended or on the bottom, thus without sufficient spatial resolution to be useful on an individual farm scale. ShellGIS has been developed as a custom application of STEMgis, a geographic information system (GIS) that handles additional dimensions of time and depth, within which we have embedded state-of-the-art models that account for interactive effects of culture type, see [http://shellgis.com/Default.aspx](http://shellgis.com/Default.aspx)


LDC, FAU Pg 111


**Ocean Acidification, pH, El Niño, N & C trading, Climate-Disease Impacts, Sea-Level Rise, and Related Topics (See also Paleo and Shell Budgets)**

http://www.ecy.wa.gov/climatechange/ipa_resources.htm#OceanAcid web resource

http://pcsga.net/pcsga-tidings/ web resource


**Carbonate and Shell Budgets and Restoration, etc. (see also Paleo section for more)**


http://www.sustainablefish.org/news/articles/2012/03/28/state-of-washington-establishes-ocean-acidification-panel

http://www.oceanacidification.noaa.gov/

http://www.oceanacidification.noaa.gov/AreasofFocus/OceanAcidificationMonitoring/coralmonitoringnetwork.aspx
http://www.ecy.wa.gov/water/marine/oa/panel.html


LDC, FAU Pg 122


**Paleobiology, Anthropology, Taphonomy, Geomorphology of Oysters and Reefs** (see also Shells, Shape, Flow, Food, DO, etc. Section above and Boonea):

http://www.georgiaencyclopedia.org/articles/history-archaeology/coastal-shell-rings


Keogh, C.L., M.E. Sanderson, and J.E. Byers, 2016. Local adaptation to parasite selective pressure: comparing three congeneric co-occurring hosts. Oecologia 180:137-147. 3 Littorines and parasites


Vermeij, G.J., 2010a. The Evolutionary world: how Adaptation explains everything from seashells to civilization. thomas Dunne Books, St. Martin’s Press, N.Y.


See http://archaeology.about.com/od/boneandivory/a/shellmidden.htm

**Shellfish-SAV, Bloom Interactions, Some Bivalve Aquaculture Interactions with Natural Systems, Benthos (see also Relevant Genetics, etc.)**


Carriker, M.R., 1959. The role of physical and biological factors in the culture of *Crassostrea* and *Mercenaria* in a salt-water pond. Ecol. Monogr. 29:219-266.


productivity and nutrient dynamics in tidal creeks of the north central Gulf of Mexico. Estuaries and Coasts 33:1355–1364.


Rheault, R.B., 2001. Eelgrass is Great, but Shellfish aquaculture is better. http://www.ecsga.org/Pages/Sustainability/eelgrass.htm


STAC (Chesapeake Bay Program Scientific and Technical Advisory Committee), 2013. Evaluation of the use of shellfish as a method of nutrient reduction in the Chesapeake


**Alternative Substrates for Restoration**


Predation/Competition/Refugia (other Bivalve also, See Paleobiol. For Vermeij et al.)


and *C. ariakensis* in Chesapeake Bay: does oyster species affect habitat function? J. Shellfish Res. 29:253–269.


Kulp, R.E., V. Politano, H.A. Lane, S.A. Lombardi and K.T. Paynter, 2011. Predation of juvenile *Crassostrea virginica* by two species of mud crabs found in the Chesapeake Bay. Shellfish Res. 30: 261–266.


Milke, L.M. and V. S. Kennedy, 2001. Mud crabs (Xanthidae) in Chesapeake Bay: claw characteristics and predation on epifaunal bivalves. Invertebr. Biol. 120:67–77.


**Predation on Oysters, Other Molluscs, Decapod Crabs on Reefs**


Canton, L.L., 2011. Factors affecting the selection and consumption of oyster reef prey (Crassostrea virginica, Geukensia demissa) by mud crabs (Panopeus herbstii). MS in Coastal Marine and Wetland Studies, Coastal Carolina University, 35pp.


LDC, FAU Pg 155


Munroe, D., J. Kraeuter, B. Beal, K. Chew, M. Luckenbach, and C.P. Peterson, 2015. Clam predator protection is effective and necessary for food production. Marine Pollution Bulletin DOI: 10.1016/j.marpolbul.2015.09.042 Review of more than 35 peer-reviewed articles, as well as our own research that demonstrates the efficacy of predator protection


**Community Restoration Work**


**Boat Wakes/Anthropogenic Impacts/FW and Diversions/Hurricanes, Erosion/Living Shorelines, Specific Marine-Related Statistical Treatments**


Bhowmik, N. G., A.C. Miller, and B.S. Payne, 1990. Techniques for studying the physical effects of commercial navigation traffic on aquatic plants. Technical Report EL-90-10, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS., NTIS No. AD A229 834.


Department of Fisheries and Oceans Canada, Canadian Heritage, Ontario Ministry of Natural Resources and Conservation Ontario. 1999. Working around water: What you should know about fish habitat and docks, boathouses and boat launches. Fact Sheet #5, Issue Date September 1999. Published by the Fish Habitat Management Program, Fisheries and Oceans Canada. Burlington, ON.


Maryland Coastal Program, 2005. Shorelines Online. Department of Natural Resources, Tawes State Building E-2, Annapolis, MD, 21401.


LDC, FAU Pg 168


Wright, D., 1989. Benthic boundary layers of estuarine and coastal environments. Reviews in Aquatic Sciences 1:75-95


http://boatwakes.homestead.com/files/wakesb.htm

General Statistics Texts, Modeling, Ecological Analyses and Relevant Critiques


Transformations: an introduction, see http://fmwww.bc.edu/repec/bocode/t/transint.html and http://udel.edu/~mcconnon/stattransform.html


http://www.maths.unsw.edu.au/sites/default/files/wartonhui10-0340final_0.pdf


Remote Sensing, Status and Trends and Mapping Related to Habitats, Especially Shellfish Habitats (Subtidal and Intertidal), Misc. Methods, Sed Traps, etc.


oysters (Crassostrea virginica, Gmelin 1791) in the Maryland Portion of the Chesapeake Bay, United States, from 1959 to 2010. J. Shellfish Res. 31:591–598.


Harris, D.C., 1980. Survey of the intertidal and subtidal oyster resources of the Georgia coast. Georgia Department of Natural Resources Coastal Resources Division (Project no. 2-234-R). Brunswick, Georgia, 44pp.


Linton, T.L., 1969. Inventory of the intertidal oyster resources of Georgia. Pages 2-6, In: Linton, T.F. (Ed.) Feasibility study of methods for improving oyster production in Georgia. Final Report, Marine Fisheries Division, Georgia Game and Fish Commission and the University of Georgia.


Oyster Sentinel, clearinghouse for environmental info and related health of estuaries in the Gulf of Mexico. Includes modeling tools to assess the impact of salinity alterations on oysters site selection for reef restoration, estimate timing and related info for sustainable harvests, see http://www.oystersistential.org/.


**Pollution and Impacts on Oysters and Other Faunal Associates on Reefs**


[http://cmbc.ucsd.edu/content/1/docs/jackson1989.pdf](http://cmbc.ucsd.edu/content/1/docs/jackson1989.pdf)

Gulf Oil Spill Information Center, [http://guides.lib.usf.edu/content.php?pid=121415&sid=1059513](http://guides.lib.usf.edu/content.php?pid=121415&sid=1059513)


LDC, FAU Pg 184


Soniat, T.M. S.M. King, M.A. Tarr and M.A. Thorne, 2011. Chemical and physiological measures on oysters (*Crassostrea virginica*) from oil-exposed sites in Louisiana. J. Shellfish Res. 30:713-717.


**General Intertidal and Subtidal Reef Assessments (Fish, Inverts, etc.)**


**Pinnothereids and Related Lit.**


**Intertidal Oyster Reefs, Disease, Exposure, etc.**


**Diseases (Dermo, MSX, QPX, Vibrio, etc.)**


Parasites of Molluscs and Crabs


Birds associated with Shellfish Habitats, Beaches, Mudflats (Methods also)


Jodice home page, http://people.clemson.edu/~pjodice/publications.html


**Eutrophication, Denitrification, Nitrogen and C Sequestration (Reviews, Methods also)**


**Non-Native Impacts, Dispersal of Oysters, etc. (does not include most mussel work)**


See [http://www.nobanis.org/MarineIdkey/Bivalvia/LitCrassostrea.htm](http://www.nobanis.org/MarineIdkey/Bivalvia/LitCrassostrea.htm)

Introduced species of Hawaii
http://www2.bishopmuseum.org/HBS/invertguide/species/crassostrea_virginica.htm


Joint Nature Conservation Committee (JNCC), UK, C. gigas, http://jncc.defra.gov.uk/page-1714


Edgar, G.J., 1997. Australian marine life: the plants and animals of temperate waters. Reed Books, Victoria. *(cited in Last et al. 2011 Global Ecol Biog. 20:58-72, pg 70) at least 4 NZ marine invertebrate spp. have been introduced into Tasmanian waters, probably with shipments of live oysters around the 1920s, also triplefins perhaps


Huvet, A., A. Gérard, C. Ledu, P. Phélipot, S. Heurtebise, and P. Boudry, 2002. Is fertility of hybrids enough to conclude that the two oysters Crassostrea gigas and Crassostrea angulata are the same species? Aquatic Living Resources 15:45-52.


LDC, FAU Pg 211


Troost, K., 2009. Pacific oysters in Dutch estuaries: causes of success and consequences for native bivalves. This project was funded by the Netherlands Organization for Scientific Research – Earth and Life Sciences (NOW-ALW; Project number 812.03.003). Part of a Ph.D. Dissertation, Wageningen IMARES – Yersek. University of Groningen, Department of Marine Biology Centre for Ecological and Evolutionary Studies, 255pp. see http://www.waddenacademie.nl/fileadmin/inhoud/pdf/06-wadweten/Proefschriften/Proefschrift_Karin_Troost.pdf


http://diggy.ruc.dk/bitstream/1800/2735/1/The%20Pacific%20Oyster%20(Crassostrea%20gigas)%20in%20the%20Isefjord%20Denmark.pdf


http://dx.doi.org/10.1890/ES14-00437.1


Zebra mussels

*Perna viridis* and Interactions with Oysters


**Feeding by Gastropods, Intertidally and Subtidally**

General Faunal Summaries by Region, State, Area (see Heck and Spitzer also below)

See http://www.dep.state.fl.us/labs/cgi-bin/sbio/keys.asp
http://www.biodiversitylibrary.org/
http://decapoda.nhm.org/pdfs/ Source for a lot of invert pdfs
http://www.fiddlercrab.info/ Uca website worldwide

Marine invertebrates and seaweeds, flora and fauna of Hawaii and beyond (wonderful images),
http://www.marinelifephotography.commarine/marine.htm
http://www.dnr.sc.gov/marine/sertc/
http://www.dnr.sc.gov/marine/sertc/Blue%20Crab%20SOM.pdf
http://www.dnr.sc.gov/marine/sertc/links.htm

Marine Invertebrates of Coastal South Carolina, https://sites.google.com/site/gricecove/home
Historical ecology of Charleston waters – https://sites.google.com/site/gricecove/historical-data-project
http://decapoda.nhm.org/pdfs/12365/12365-001.pdf

Indian River Lagoon (SW Atl. FL) Species Inventory http://www.sms.si.edu/irlspec/, see also
http://www.sms.si.edu/irlspec/Phyl_Mollus1.htm

Indian River Lagoon (SW Atl. FL) C. virginica.
http://www.sms.si.edu/irlspec/Crassostrea_virginica.htm

West coast field guides/books,
https://sites.google.com/site/seauariainschools/extresources/fieldguidesbooks

Polychaetes of Chesapeake Bay and Coastal VA,
http://www.vims.edu/bio/benthic/polychaete.html

FL keys online for all sorts of organisms, http://www.dep.state.fl.us/labs/cgi-bin/sbio/keys.asp


Related Websites for Malacology, etc., http://shellmuseum.org/links.cfm


Jax Shells, shell collecting, wonderful images and info on molluscs. Molluscs checklists for larger geographic scope but focus on east coast of FL, Perna viridis non-native also, http://www.jaxshells.org/

Integrated Taxonomic Information System, authoritative taxonomic information on plants, animals, fungi, and microbes of North America and the world, http://www.itis.gov/
American Oyster in SC, ACE Basin Executive Summary Home,
http://www.dnr.sc.gov/marine/mrri/acechar/specgal/oyster.htm
Sharks of Florida, FL Sea Grant,
https://www.flseagrant.org/images/PDFs/sgef_203_common_sharks_florida.pdf
World Register of Marine Species (WoRMS) provides an authoritative and comprehensive list of names of marine organisms, including information on synonymy,
http://www.marinenspecies.org/
Hardy's Internet Guide To Marine Gastropods, common names of gastropod mollusks by group, worldwide with lots of info,
http://www.okeefes.org/index.htm general marine organisms for NC
http://www.okeefes.org/Crabs/crab_photos.htm images crabs, NC coast

Alphabetical List
Chace, F.A., Jr., 1972. The Shrimps of the Smithsonian-Bredin Caribbean Expeditions with a Summary of the West Indian Shallow-water Species (Crustacea: Decapoda: Natantia)


Heard, R., T. Hansknecht, and K. Larsen. 2003. An illustrated identification guide to Florida Tanaidacea (Crustacea: Peracarida) occurring in depths of less than 200 m. see http://publicfiles.dep.state.fl.us/dear/labs/biology/biokeys/tanaidacea.pdf also http://www.dep.state.fl.us/labs/cgi-bin/sbio/keys.asp


Simone, L.R.L., P.M. Mikkelsen, and R. Bieler, in press. Comparative anatomy of selected marine bivalves from the Florida Keys, with notes on Brazilian congeners (Mollusca: Bivalvia). Malacologia.


**General Macroalgal Summaries by Region**

http://botany.si.edu/projects/algae/biblio.htm


- Keys and descriptions for the common species of algae, with black-and-white line drawings.


Species- or Taxa- Specific Information

*Boonea impressa* (related archaeology) and Other Molluscan Parasites (Eulimids)

http://www.pac.dfo-mpo.gc.ca/sci/shelldis/pages/pyrasnoy_e.htm

http://erato.acnatsci.org/wasp/search.php/9129


Fradkin, A., 2005. Applying a seasonality measure of oyster harvesting: A Case Study from the Precolumbian Florida Coast. From M. Russo


**Geukensia and Other Mussels on Reefs and in Marine and Estuaries (also Dreissenids)**


For a discussion on *G. demissa* vs. *G. granosissima* see:


The Animal Diversity Web,

http://animaldiversity.ummz.umich.edu/accounts/Geukensia_demissa/

http://txmarspecies.tamug.edu/invertdetails.cfm?scinameID=Geukensia%20granosissima


**Palaemonetes** - (Grass shrimp) Related and Brachyuran (especially xanthid) Papers


