

## JENIFER E. DUGAN

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**Projects:** *Joint UCSB-MMS Pacific OCS Student Internship and Trainee Program*  
*Advancing Marine Biotechnology: Use of OCS Oil Platforms as Sustainable Sources of Marine*  
*Natural Products*  
*Habitat Value of Shell Mounds to Ecologically and Commercially Important Benthic Species*

**Education:** A.A. Liberal Arts, De Anza Junior College, Cupertino, CA 1977  
B.A. Aquatic Biology, University of California, Santa Barbara 1980  
Ph.D. Biology, University of California, Santa Barbara 1990

**Positions:** 2003-present Associate Research Biologist, Marine Science Institute, University of California, Santa Barbara  
1991-2004 Lecturer, Environmental Studies Program and Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara  
1995-2003 Assistant Research Biologist, Marine Science Institute, University of California, Santa Barbara  
1990-1995 Postdoctoral Researcher, Marine Science Institute, University of California, Santa Barbara  
1994 Postdoctoral Fellow, Department of Marine Science, University of Otago, New Zealand  
1993 Postdoctoral Fellow, Department of Zoology, University of Port Elizabeth, Republic of South Africa  
1988-1993 Marine Biologist, Cooperative Park Science Unit, University of California, Davis, Channel Islands National Park, Ventura, CA

### Selected Publications:

- Bram, J.B., H.M. Page and J.E. Dugan. 2005. Spatial and temporal variability in early successional patterns of an invertebrate assemblage at an offshore oil platform. *Journal of Experimental Marine Biology and Ecology* **317**:223-237.
- Dugan, J.E., D.M. Hubbard, E. Jaramillo, H. Contreras and C. Duarte. 2004. Competitive interactions in macroinfaunal animals of exposed sandy beaches. *Oecologia* **139**(4):630-640.
- Bomkamp, R., H.M. Page and J.E. Dugan. 2004. Role of food subsidies and habitat structure in influencing benthic communities of shell mounds at sites of existing and former offshore oil platforms. *Marine Biology* 1432-1793 (Online) DOI: 10.1007/s00227-004-1413-8.
- Dugan, J.E. and D. Hubbard. 2004. Southern New Zealand Beaches *in* Natural History of Southern New Zealand. Darby, J. and W. Harrex (editors) University of Otago Press and the Otago Museum, Dunedin, New Zealand. 400 pp.
- Dugan, J.E., D.M. Hubbard, M. McCrary, and M. Pierson. 2003. The response of macrofauna communities and shorebirds to macrophyte wrack subsidies on exposed sandy beaches of southern California. *Estuarine and Coastal Shelf Science* **56** (in press)
- Hubbard, D.M., and J.E. Dugan. 2003. Shorebird use of an exposed sandy beach in southern California. *Estuarine and Coastal Shelf Science* **56** (in press)
- Lastra, M., J.E. Dugan, and D.M. Hubbard. 2002. Burrowing and swash behavior of the Pacific mole crab, *Hippa pacifica* (Anomura, Hippidae) on tropical sandy beaches. *Journal of Crustacean Biology* **22**:53-58.

- Dugan, J.E., D.M. Hubbard, and M. Lastra. 2000. Burrowing abilities and swash behavior of three crabs, *Emerita analoga* Stimpson, *Blepharipoda occidentalis* Randall and *Lepidopa californica* Efford (Anomura, Hippoidea), of exposed sandy beaches. *Journal of Experimental Marine Biology and Ecology* **255**(2):229-245.
- Dugan, J.E., D.M. Hubbard, J.M. Engle, D.L. Martin, D.M. Richards, G.E. Davis, K.D. Lafferty, and R.F. Ambrose. 2000. Macrofauna communities of exposed sandy beaches on the Southern California mainland and Channel Islands. Fifth California Islands Symposium, OCS Study, MMS 99-0038:339-346.
- Jaramillo, E., J. Dugan, and H. Contreras. 2000. Abundance, tidal movement, population structure and burrowing rate of *Emerita analoga* (Anomura, Hippidae) at a dissipative and a reflective sandy beach in south central Chile. *Mar Ecol-P S Z N I* **21**(2):113-127 AUG 2000
- Barron, M.G., T. Podrabsky, R.S. Ogle, J.E. Dugan, J.E. 1999. Sensitivity of the sand crab *Emerita analoga* to a weathered oil. *Bulletin of Environmental Contamination and Toxicology* **62**:469-475.
- Dugan, J.E. and A. McLachlan. 1999. An assessment of longshore movement in *Donax serra*: Röding (Bivalvia: Donacidae) on an exposed sandy beach. *Journal of Experimental Marine Biology and Ecology* **234**:111-124.
- Page, H.M., J.E. Dugan, D.S. Dugan, and J. Richards. 1999. Effects of an offshore oil platform on the distribution and abundance of commercially important crab species. *Marine Ecology Progress Series* **185**:47-57.
- Dugan, J.E., D.M. Hubbard, and A.M. Wenner. 1998. A catalog of the sandy beaches of San Luis Obispo and Santa Barbara Counties. Report prepared for Minerals Management Service, Camarillo, CA.
- Dugan, J.E., D.M. Hubbard, and A.M. Wenner. 1998. A physical characterization of the sandy beaches of San Luis Obispo and Santa Barbara Counties. Prepared for Minerals Management Service, Camarillo, CA.
- McLachlan, A., J. Dugan, O. Defeo, A. Ansell, D. Hubbard, E. Jaramillo, and P. Penchaszadeh. 1997. Beach clam fisheries. *Oceanography and Marine Biology Annual Review* **34**:163-232.
- Dugan, J.E. and D.M. Hubbard. 1996. Local variation in populations of the sand crab, *Emerita analoga* (Stimpson) on sandy beaches in southern California. *Revista Chilena de Historia Natural* **69**:579-588.
- Dugan, J.E., D.M. Hubbard, and H.M. Page. 1995. Scaling population density to body size: tests in two soft sediment intertidal communities. *Journal of Coastal Research* **11**:849-857.
- Jamarillo, E., A. McLachlan, and J. Dugan. 1995. Total sample area and estimate of species richness in exposed sandy beaches. *Marine Ecology Progress Series*. **119**:311-314.
- McLachlan, A., E. Jamarillo, O. Defeo, J.E. Dugan, A. DeRuyck, and P. Coetzee. 1995. Adaptations of bivalves to different beach types. *Journal of Experimental Marine Biology and Ecology* **187**:147-160. .
- Dugan, J.E., D.M. Hubbard, and A.M. Wenner. 1994. Geographic variation in life history in populations of the sand crab, *Emerita analoga* (Stimpson), on the California coast: relationships to environmental variables. *Journal of Experimental Marine Biology and Ecology* **181**: 255-278.
- Dugan, J.E. and G.E. Davis. 1993. Applications of fishery refugia to coastal fishery management. *Canadian Journal of Fisheries and Aquatic Sciences* **50**:2029-2042.
- Dugan, J.E. and G.E. Davis. 1993. Introduction to the international symposium on fishery refugia. *Canadian Journal of Fisheries and Aquatic Sciences* **50**:1991-1992.
- Wenner, A.M., J.E. Dugan, and D.M. Hubbard. 1993. Sand crab population biology on the California Islands and mainland. Pp. 335-348 in: *Third California Islands Symposium, Recent Advances in Research on the California Islands*, F.G. Hochberg, ed. Santa Barbara Museum of Natural History, CA.