

## PUBLICATIONS

### 1 January–31 December 2011

- Bjorkstedt, E., R. Goericke, S. McClatchie, B. Peterson, R. L. Emmett, R. D. Brodeur, J. Peterson, M. N. C. Litz, J. Gomez-Valdez, G. Gaxiola-Castro, B. E. Lavaniegos, F. Chavez, C. A. Collins, D. B. Field, K. Sakuma, S. J. Bograd, F. B. Schwing, P. Warzybok, R. Bradley, J. Jahncke, G. S. Campbell, J. A. Hildebrand, W. J. Sydeman, S. A. Thompson, J. L. Largier, C. Halle, S. Y. Kim and J. Abell. State of the California Current 2010–2011. Regionally variable responses to a strong (but fleeting?) La Niña. California Cooperative Oceanic Fisheries Investigations Reports 52:36–68.
- Broquet, G., A. M. Moore, H. G. Arango and C. A. Edwards. 2011. Corrections to ocean surface forcing in the California Current System using 4D variational data assimilation. *Ocean Modelling* 36(1–2):116–132.
- Deutsch, C., H. Brix, T. Ito, H. Frenzel and L. A. Thompson. 2011. Climate-forced variability of ocean hypoxia. *Science* 333(6040):336.
- Doron, M., M. Babin, O. Hembise, A. Mangin and P. Garnesson. 2011. Ocean transparency from space: Validation of algorithms estimating secchi depth using MERIS, MODIS and SeaWiFS data. *Remote Sensing of Environment* 115(12):2986–3001.
- Dorval, E., K. Piner, L. Robertson, C. S. Reiss, B. Javor and R. Vetter. 2011. Temperature record in the oxygen stable isotopes of Pacific sardine otoliths: Experimental vs. wild stocks from the southern California Bight. *Journal of Experimental Marine Biology and Ecology* 397(2):136–143.
- Doyle, M. J., W. Watson, N. M. Bowlin and S. B. Sheavly. 2011. Plastic particles in coastal pelagic ecosystems of the Northeast Pacific ocean. *Marine Environmental Research* 71(1):41–52.
- Fissel, B. E., N. C. H. Lo and S. F. J. Herrick. 2011. Daily egg production, spawning biomass and recruitment for the central subpopulation of northern anchovy 1981–2009. California Cooperative Oceanic Fisheries Investigations Reports 52:116–135.
- Goericke, R. 2011. The size structure of marine phytoplankton—what are the rules? California Cooperative Oceanic Fisheries Investigations Reports 52:198–204.
- Goericke, R. 2011. The structure of marine phytoplankton communities—patterns, rules and mechanisms. California Cooperative Oceanic Fisheries Investigations Reports 52:182–197.
- Hitchman S. M. 2011. Age-specific association with potential adult habitat in larval bocaccio, *Sebastes paucispinis*, in the Southern California Bight. MS Thesis, University of San Diego. 145 pp.
- Javor, B., N. C. H. Lo and R. Vetter. 2011. Otolith morphometrics and population structure of Pacific sardine (*Sardinops sagax*) along the west coast of North America. *Fishery Bulletin* 109:402–415.
- King, J. R., V. N. Agostini, C. J. Harvey, G. A. McFarlane, M. G. G. Foreman, J. E. Overland, E. Di Lorenzo, N. A. Bond and K. Y. Aydin. 2011. Climate forcing and the California Current ecosystem. *ICES Journal of Marine Science: Journal du Conseil* 68(6):1199–1216.
- Koslow, J. A. and C. Allen. 2011. The influence of the ocean environment on the abundance of market squid, *Doryteuthis (Loligo) opalescens*, paralarvae in the southern California Bight. California Cooperative Oceanic Fisheries Investigations Reports 52:205–213.
- Koslow, J. A., R. Goericke, A. Lara-Lopez and W. Watson. 2011. Impact of declining intermediate-water oxygen on deepwater fishes in the California Current. *Marine Ecology Progress Series* 436:207–218.
- Koslow, J. A., L. Rogers-Bennett, R. Vetter and A. Allen. 2011. The Report of the CalCOFI Committee 2010. CalCOFI Reports 52:5–12.
- LaVigne, M., T. M. Hill, H. J. Spero and T. P. Guilderson. 2011. Bamboo coral Ba/Ca: calibration of a new deep ocean refractory nutrient proxy. *Earth and Planetary Science Letters* 312(3–4):506–515.
- Lopez A. L., P. Davison, and J. A. Koslow. 2011. Introduction of multi-frequency acoustics and mid-water trawl sampling to the CalCOFI program. *J Acoust Soc Am* 129: 2692 (Abstract).
- Lucas, A. J., P. J. S. Franks and C. L. Dupont. 2011. Horizontal internal-tide fluxes support elevated phytoplankton productivity over the inner continental shelf. *Limnology & Oceanography: Fluids & Environments* 1:56–74.
- Macías, D., P. Franks, M. Ohman and M. Landry. 2011. Modeling the effects of coastal wind-and wind-stress curl-driven upwellings on plankton dynamics in the southern California current system. *Journal of Marine Systems* 94:107–119.
- Mazzillo, F. F. M., D. J. Staaf, J. C. Field, M. L. Carter, and M. D. Ohman. 2011. A Note on the Detection of the Neurotoxin Domoic Acid in Beach-Stranded *Dosidicus gigas* in the southern California Bight. CalCOFI Reports 52:109–15.
- McQuatters-Gollop, A., P. C. Reid, M. Edwards, P. H. Burkill, C. Castellani, S. Batten, W. Gieskes, D. Beare, R. R. Bidigare, E. Head, R. Johnson, M. Kahru, J. A. Koslow and A. Pena. 2011. Is there a decline in marine phytoplankton? *Nature* 472(7342):E6–E7.
- MacCall, A. D. The Sardine-Anchovy Puzzle. 2011. In: J. Jackson (ed.), *Shifting Baselines*. Island Press: 47–57.
- Mortyn, P. G., J. C. Herguera and M. A. Martínez-Botí. 2011. Instrumental validation of Globigerinoides ruber Mg/Ca as a proxy for NE Pacific summer SST. *Geophysical Research Letters* 38(16):L16601.
- Moser H. G. and W. Watson. Chapter 6. Myctophiformes. In A. W. Kendall, Jr. (ed.). 2011. *Identification of eggs and larvae of marine fishes*. Tokai Univ. Press. 95–112.
- Nam, S., H. J. Kim and U. Send. 2011. Amplification of hypoxic and acidic events by La Niña conditions on the continental shelf off California. *Geophysical Research Letters* 38(22):L22602.
- Nur, N., J. Jahncke, M. P. Herzog, J. Howar, K. D. Hyrenbach, J. E. Zamon, D. G. Ainley, J. A. Wiens, K. Morgan, L. T. Ballance and D. Stralberg. 2011. Where the wild things are: predicting hotspots of seabird aggregations in the California Current System. *Ecological Applications* 21(6):2241–2257.
- Oedekoven, C. S., S. T. Buckland, M. L. Mackenzie, G. S. Campbell, L. Thomas and J. A. Hildebrand. 2011. Using spatio-temporal models of line transect abundance estimates for trend estimation. Spoken Presentation: 19th Biennial Conference on the Biology of Marine Mammals, November 27–December 2, 2011, Tampa, Florida.
- Roch, M. A., H. Klinck, S. Baumann-Pickering, D. K. Mellinger, S. Qui, M. S. Soldevilla and J. A. Hildebrand. 2011. Classification of echolocation clicks from odontocetes in the southern California Bight. *J. Acoust. Soc. Am* 129(1).
- Santamaría-del-Ángel, E., A. González-Silvera, R. Millán-Núñez, M. E. Callejas-Jimenez and R. Cajal-Medrano. 2011. Case Study 19: Determining Dynamic Biogeographic Regions using Remote Sensing Data. Handbook of Satellite Remote Sensing Image Interpretation: Applications for Marine Living Resources Conservation and Management. EU PRESPO and IOCCG, Dartmouth, Canada.
- Santamaría-del-Ángel, E., R. Millán-Núñez, A. González-Silvera and R. Cajal-Medrano. 2011. Case Study 17: Comparison of *In Situ* and Remotely-Sensed Chl-a Concentrations: A Statistical Examination of the Match-up Approach. *Handbook of Satellite Remote Sensing Image Interpretation: Applications for Marine Living Resources Conservation and Management*. EU PRESPO and IOCCG, Dartmouth, Canada.
- Send, U. and J. A. Koslow. 2011. An integrated ocean observation system for the California Current, Symposium on Integrated Ecosystem Assessment and Ecosystem Modeling of the California Current. CalCOFI Conference, December, 2011, La Jolla, CA.
- Song, H. 2011. Sensitivity analysis, ocean state estimation and diagnostics in the California current, Ph.D. Dissertation, SIO-UCSD, 170 pp.
- Song, H., A. J. Miller, B. D. Cornuelle and E. Di Lorenzo. 2011. Changes in upwelling and its water sources in the California Current System driven by different wind forcing. *Dynamics of Atmospheres and Oceans* 52(1–2):170–191.
- Tai, V., R. S. Burton and B. Palenik. 2011. Temporal and spatial distributions of marine *Synechococcus* in the southern California Bight assessed by hybridization to bead-arrays. *Marine Ecology Progress Series* 426:133–147.
- Todd, R. E., D. L. Rudnick, R. E. Davis, and M. D. Ohman. 2011. Underwater Gliders Reveal Rapid Arrival of El Niño Effects Off California's Coast. *Geophysical Research Letters* 38, no. 3.
- Watson, W. 2011. Chapter 16. Perciformes (Introduction, Notothenioidei, Trachinoidei, Blennioidei, Gobiesocoidei, Callionymoidei, Gobioidaei). In A. W. Kendall, Jr. (ed.) *Identification of eggs and larvae of marine fishes*. Tokai Univ. Press. 220–225, 239–299.

- Watson, W. 2011. Chapter 18. Tetraodontiformes (Introduction). In A.W. Kendall, Jr. (ed.) *Identification of eggs and larvae of marine fishes*. Tokai Univ. Press. 329–333.
- Watson, W. and H. G. Moser. 2011. Chapter 4. Stomiiformes. In A.W. Kendall, Jr. (ed.) *Identification of eggs and larvae of marine fishes*. Tokai Univ. Press. 59–77.
- Watson, W., H. G. Moser, and D.A. Ambrose. 2011. Chapter 5. Aulopiformes. In A.W. Kendall, Jr. (ed.) *Identification of eggs and larvae of marine fishes*. Tokai Univ. Press. 79–93.
- Weber, E. D. & S. McClatchie. 2011. Effect of environmental conditions on the distribution of Pacific mackerel *Scomber japonicus* larvae in the California Current. *Fishery Bulletin* 110:85–97.
- Whitney, F. 2011. Nutrient variability in the mixed layer of the subarctic Pacific Ocean, 1987–2010. *Journal of Oceanography* 67(4):481–492.
- Zeidberg, L. D., J. L. Butler, D. Ramon, A. Cossio, K. L. Stierhoff and A. Henry. 2011. Estimation of spawning habitats of market squid (*Doryteuthis opalescens*) from field surveys of eggs off Central and Southern California. *Marine Ecology*:1–11.
- Zhang, J., J. Fleming and R. Goericke. 2011. Fishermen's perspectives on climate variability. *Marine Policy*, doi:10.1016/j.marpol.2011.06.001.
- Zwolinski, J. P., R. L. Emmett and D. A. Demer. 2011. Predicting habitat to optimize sampling of Pacific sardine (*Sardinops sagax*). *ICES Journal of Marine Science: Journal du Conseil* 68(5):867–879.