

**From:** "jenny.dugan@lifesci.ucsb.edu" <jenny.dugan@lifesci.ucsb.edu>  
**Subject:** **Progress report for NCC MPA study**  
**Date:** March 17, 2011 2:46:48 PM PDT  
**To:** Catherine Hughes <sgbudget@ucsd.edu>

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Hi Catherine,

Just in case you need separate reports for our NCC MPA project- here is a copy of our report for February.

Best wishes,

Jenny Dugan

Date: 2/23/2011  
To: Catherine Hughes, CA Sea Grant  
From: Karina Nielsen, Steven Morgan & Jenifer Dugan  
Re: Report on Progress to Date

Baseline Monitoring of Ecosystem and Socioeconomic Indicators for MPAs along the North Central Coast of California: Sandy Beaches

Since starting our project in March 2010 we have accomplished the major objectives outlined in our milestones chart. Moreover, we conducted more work than was proposed. We conducted two surveys of sand crabs (*Emerita analoga*) and wrack-associated macro-invertebrates on ten sandy beaches (5 inside marine protected areas and 5 reference sites) the first in June and the second in August. We dropped one pair of beaches from our original work plan after making initial site visits and realizing these beaches were dominated more by gravel and small cobbles than by sand. However, we added an additional 7 non-MPA beaches to our second survey last summer. This enabled us to more thoroughly assess the diversity of sandy beaches in the north central coast study region, which has been little studied. We also decided it would be more informative to condense the proposed bimonthly sampling for birds, wrack and people over two years to a monthly schedule over a single year. These monthly surveys began in June 2010 and are continuing on all 10 beaches as proposed. Sample processing from these two efforts are in progress and data entry is up to date. We are in the planning stages, and on schedule, for the citizen science and biodiversity components of the project planned for this spring and summer.

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