



MPA Baseline Program

Annual Progress Report



Principal Investigators - please use this form to submit your MPA Baseline Program project annual report, including an update on activities completed over the past year and those planned for the upcoming year. This information will be used by the MPA Baseline Program Management Team to track the progress of individual projects, and will be provided to all MPA Baseline Program PIs and co-PIs prior to the Annual PIs workshop to facilitate discussion of project integration. Please submit this form to California Sea Grant when complete (sgreport@ucsd.edu, Subject [Award Number, project number, PI, "Annual Report"].)

Project Information

Project Year: 2011-12 Study Region: North Central Coast

Project Title & Number: Baseline Characterization of Newly Established Marine Protected Areas within North Central California Study Region - Beach Watch Coastal Beach Citizen Science - R/MPA-9

PI name: Kirsten Lindquist Co-PI name: Jan Roletto

PI Contact Info Co- PI Contact Info (please list additional PIs and contact info in the "Project Personnel" section if necessary)

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Project Goals & Objectives

- 1. Compilation and description of existing Beach Watch data to describe methods and data collected in areas currently surveyed within the North Central Coast MPAs.
2. Analysis of Beach Watch live and dead bird and marine mammal data to:
a. Provide summaries and descriptions of major spatial and temporal patterns.
b. Describe historical trends in specific species of interest identified in the North Central Coast Monitoring Framework.
c. Summary description of marine mammal sightings inside and outside MPAs and across the survey region
3. Collection, provision and summary description of Beach Watch human uses data inside and outside MPAs and across the survey region.
4. Collection, provision and summary description of Beach Watch human uses data inside and outside MPAs and across the survey region. Provision of long-term monitoring recommendations via participation in collaborative processes (e.g. workshops) with the MPA Monitoring Enterprise and other baseline program project leaders to:
a. Contribute towards an integrated and synthesized assessment of ecosystem conditions at the time of MPA implementation and initial MPA effects following MPA implementation.
b. Compare data from citizen science and other monitoring methods to provide recommendations for long-term monitoring

Summary of Project Activities Completed to Date

Overview of Project Year __ Activities, including progress towards meeting goals & objectives

- (1) Continued monitoring of Beach Watch coastal beaches within MPA's, 1993-present
- (2) Continued monitoring of Beach Watch coastal beaches MPA reference sites 1993-present
- (3) Completion of EML compliant database documentation and metadata.
- (4) Completion of metadata testing.
- (5) Completion of study site map
- (6) QA/QC and review of following datasets
 - a. Live bird and marine mammal distribution and abundance
 - b. Dead bird and marine mammal distribution and abundance
 - c. Human use patterns
- (7) Selection of species and human use types for analysis
- (8) Preliminary analysis of the following data sets is underway for the selected species and types (for both inside and outside MPA's and for all years)
 - a. Live bird and marine mammal distribution and abundance
 - b. Dead bird and marine mammal distribution and abundance
 - c. Human use patterns
- (9) Preliminary GIS data analysis and visualization for
 - a. Live bird and marine mammal distribution and abundance
 - b. Dead bird and marine mammal distribution and abundance
 - c. Human use patterns
- (10) Technical specialist has expanded our database capabilities to allow for enhanced baseline analysis
- (11) Met or spoke with other project leaders to talk about parallel and/or complementary analysis
- (12) Planning for OceanSpaces Beach Watch project page population

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Highlights from project progress so far, such as successes achieved or interesting stories from the past year

In the past year Beach Watch 100 volunteers completed 1,004 surveys in the North Central Coast region totaling 1,931 km.

Description of any unforeseen events and substantial challenges, and resulting effect on data collection

Since Beach Watch has been running for 19 years the bugs have been worked out. No unforeseen events or substantial challenges have affected data collection this year.

Data status (i.e., paper/raw format or digitized; if digitized, what format?)

All data is digitized and QA/QCed, the paper data has been archived. Digital data is in accdb format.

Activities Planned for following Project Year __ (if applicable) – Please describe remaining work and approximate timelines for completing that work, including any anticipated budget variances necessary to complete the project.

Summary description of Beach Watch human uses data inside and outside MPAs and across the survey region. Provision of long-term monitoring recommendations via participation in collaborative processes (e.g. workshops) with the MPA Monitoring Enterprise and other baseline program project leaders to:

- c. Contribute towards an integrated and synthesized assessment of ecosystem conditions at the time of MPA implementation and initial MPA effects following MPA implementation.
- d. Compare data from citizen science and other monitoring methods to provide recommendations for long-term monitoring

Project Personnel – Please indicate additional project personnel involved in your MPA baseline project, including students and volunteers, or additional PI contact information if necessary.

	<i>Students Supported</i>	<i>Student Volunteers</i>
<i>K-12</i>		
<i>Undergraduate</i>		<i>Adelaide Oneal</i>
<i>Masters</i>		
<i>PhD</i>		

Number of other Volunteers not counted above:

100 Beach Watch volunteers

Additional PI contact info not listed on first page:

Cooperating Organizations and Individuals - Please list organizations or individuals (e.g., federal or state agencies, fishermen, etc.) that provided financial, technical or other assistance to your project since its inception, including a description of the nature of their assistance.

Name of Organization or Individual	Sector (City, County, Fed, private, etc.)	Nature of cooperation (If financial, provide dollar amount.)
See note below		

Additional Information – Please provide any other project-relevant information, such as descriptions of attached materials, media coverage your project has received, etc.

In response to the above question concerning cooperating organizations: Beach Watch is a long-term monitoring project (1993-present), with many organizations and individuals that have provided financial or technical assistance since its inception. In year 2 of the MPA baseline monitoring effort, Beach Watch also received funds and assistance from the following organizations and individuals.

Federal:
NOAA

Private:
Norcross Wildlife Foundation
Firedoll Foundation
Patagonia

Technical:
Rich Stallcup
Jim Ferlin
David Klotz