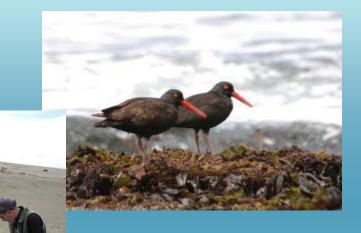
GFNMS Conservation Science Projects 2016





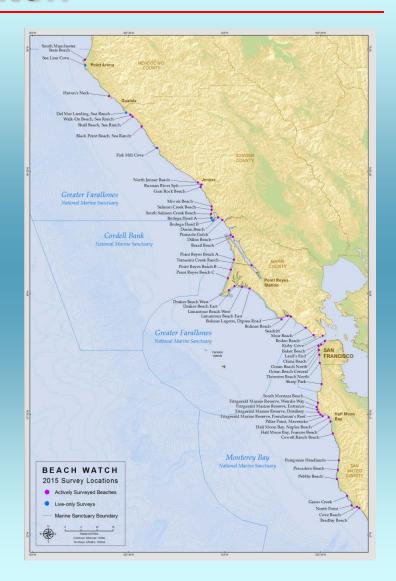






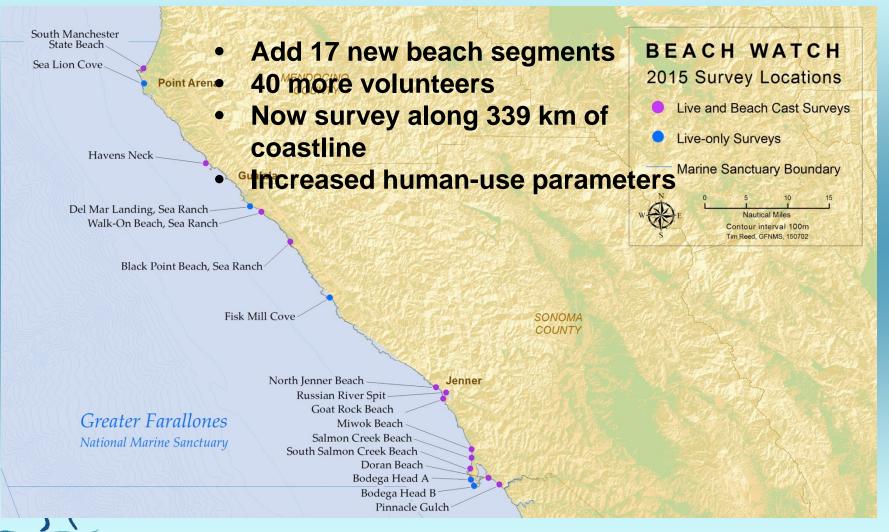
Beach Watch

- Shoreline monitoring since
 1993
- Live and dead bird, mammal, human-uses, oil pollution, status of streams and lagoons, and beach wrack
- 2015 added 14 new beaches and 30 volunteers, 56 beaches surveyed by 150 volunteers and 6 staff





Beach Watch

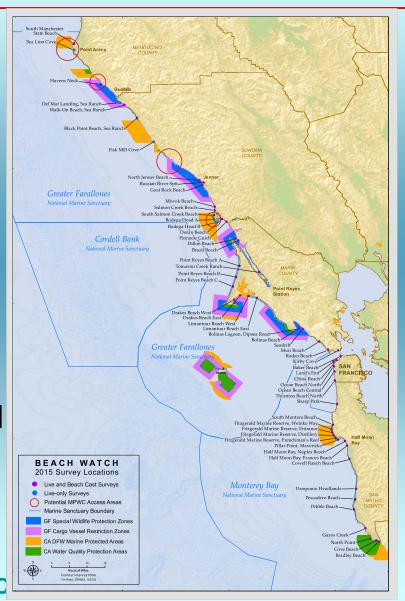


Beach Watch

- New segments sample in areas where we may investigate management actions and areas where we need more information
 - Extraction
 - Disturbance
 - Trampling

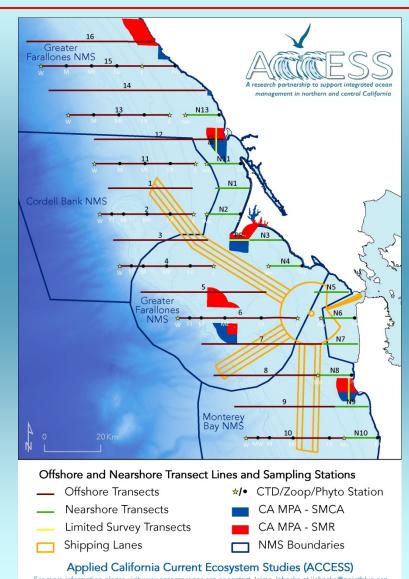
NADIONAL MARINE SANCTUARIES

- Regulatory compliance
- Resources Legacy Fund, data are now directly shared with the state MLPA program



ACCESS

- ACCESS monitors oceanographic and biological sampling, including, bird, mammal, turtle abundance and distribution, ship traffic, acoustic and net sampling of zooplankton, phytoplankton for harmful algal blooms, water column nutrients and pH for ocean acidification monitoring.
- Strong partnership & cost sharing



Rocky Intertidal Monitoring - PISCO

- PISCO surveys 25
 locations within our current boundary and northern portion of MBNMS
- Point Arena to Fitzgerald
 Marine Reserve
- Some of the biodiversity sites are sampled much more frequently than others





Kelp Forest Monitoring

- Staff from MBNMS explored former PISCO monitoring to test a proof of concept on use of FULMAR
- PISCO has several sites in at State's MPAs
- Reef Check samples at Timber Cove
- We are currently working to assess if there is a need, and if the priority





Deep-Sea Corals & Sponges

 Mapping and characterization of deep rocky reefs and slopes

 Rittenburg Bank, Cochrane Bank, Farallon Escarpment, The Football, Point Arena Biogenic Areas I & II, and in MBNMS Deep Reef

 Participate in EFH Committee, review and recommend to NMFS areas for additional protection





Research Workshops & Symposia

- GFNMS & partners hosts research workshops and symposia
- The most recent symposium was Nov. 2011
- New, on-going and recently completed research & monitoring
- Interval between symposia is dictated by available funding

Beyond the Golden Gate Research Symposium 2011



Host Institutions

Cordell Bank National Marine Sanctuary
Gulf of the Farallones National Marine Sanctuary
Point Reyes National Seashore
San Francisco Bay National Estuarine Research Reserve
University of California, Bodega Marine Laboratory

Chaucas

Cordell Marine Sanctuary Foundation Farallones Marine Sanctuary Association















Partnerships























MPA

WATCH











NADIONAL MARINE SANCTUARIES

