Update: GFNMS Ocean Climate Program

Sara Hutto
Ocean Climate Program Coordinator
Sanctuary Advisory Council
November 13, 2019
March 2016: Council reviewed, discussed, voted to approve 76 of the 84 strategies developed by the Climate-Smart Adaptation Working Group.
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March – November 2016: Climate Adaptation Plan developed with 24 of those recommended strategies
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March – November 2016: Climate Adaptation Plan developed with 24 of those recommended strategies

November 2016: Climate Adaptation Plan and final recommendations presented to Council, along with next steps for implementation
Progress made – Coastal Resilience


Climate Plan Strategies: Implement Living Shorelines (LS -1,2,3); Protect and Restore Habitat (H-1, 3); Science Needs (SN-2,3)
Progress made – Coastal Resilience


Climate Plan Strategies: Implement Living Shorelines (LS -1,2,3); Protect and Restore Habitat (H-1, 3); Science Needs (SN-2,3)
Progress made – Living Shorelines

Living Shorelines Workshop

Climate Plan Strategies: Implement Living Shorelines (LS -1,2,3); Protect and Restore Habitat (H-1, 3); Science Needs (SN-2,3)
Climate Plan Strategies: Implement Living Shorelines (LS -1,2,3); Protect and Restore Habitat (H-1, 3); Science Needs (SN-2,3)
Progress made – Living Shorelines

Living Shorelines Workshop

Bolinas Lagoon South End Living Shoreline Project

Native Oyster Resilience in Tomales Bay

Climate Plan Strategies: Implement Living Shorelines (LS -1,2,3); Protect and Restore Habitat (H-1, 3); Science Needs (SN-2,3)
Progress made – Kelp Recovery

Kelp Recovery Plan (2019)

- Joint NOAA-CDFW ecosystem survey cruises
- KELPRR coordination
- UAV surveys of sites in Plan
- Education programs

Climate Adaptation Plan Strategies: Protect and Restore Habitat (H-6); Science Needs (SN-5)
Progress made – Education and Trainings

LiMPETS – new climate curriculum

Climate Action Plan Strategies: Promote Education (E-1, E-2)
Progress made – Education and Trainings

LiMPETS – new climate curriculum

5th Biennial Ocean Climate Summit

Climate Action Plan Strategies: Promote Education (E-1, E-2)
Progress made – Education and Trainings

LiMPETS – new climate curriculum

5th Biennial Ocean Climate Summit

- Climate Adaptation Toolkit for MPA Managers
- ONMS trainings
- “Planning for a Changing Climate” Course for federal managers

Climate Action Plan Strategies: Promote Education (E-1, E-2)
Climate Program Storymap: outreach tool for partners, public, funders