

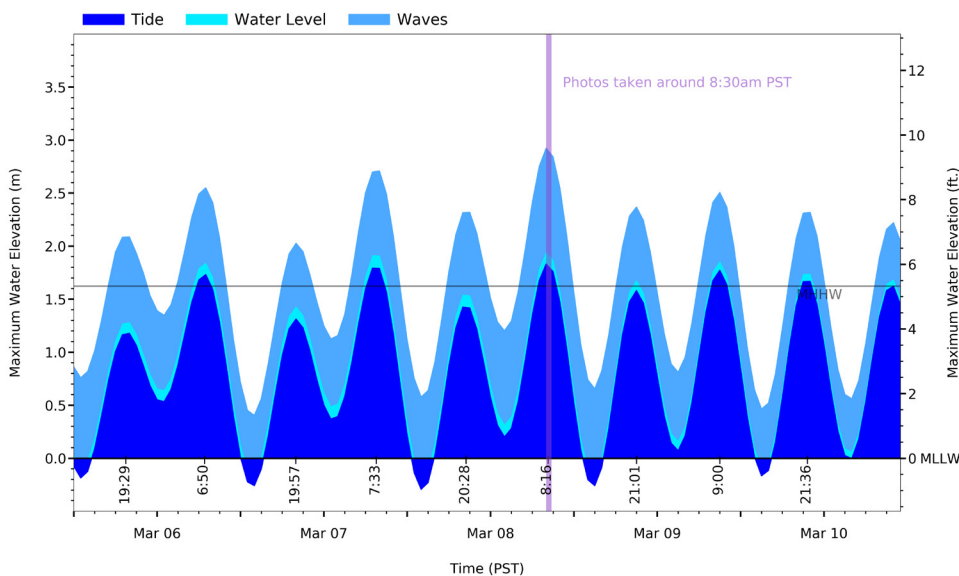


RESEARCH AND COMMUNITY PROJECTS

1. Evaluating trends and projections in extreme coastal flood conditions and methods for documenting physical and socioeconomic impacts.

A research effort focused on gathering local data on coastal flooding to help define varying thresholds for mild and significant flooding. The research team is also identifying data and methods useful for evaluating socioeconomic impacts of flooding events using community observations, emergency reports, and flood databases.

Total Water Level: Palm Ave. 03/08/2016



Research Partners: The Center for Climate Change Impacts and Adaptation at Scripps Institution of Oceanography

Community Partners: City of Imperial Beach

MISSION

To assist local communities with coastal adaptation planning by improving understanding of coastal dune dynamics and shoreline response to flooding. The project also includes integrating indigenous stewardship values and leadership roles into coastal adaptation visions and solutions.

2. Assessing coastal dune restoration approaches for increasing shoreline resilience.

A research partnership with the California Coastal Dune Science Network. The Network represents a consortium of researchers, coastal managers, and community organizations developing best practices and expertise for enhancing coastal dunes as a nature-based resilience strategy. Research activities include:

- Mapping coastal dunes in Southern California and characterizing the range of dune restoration activities at these sites.
- Assessing dune response to recent restoration efforts and coastal hazards.
- Developing indicators and frameworks for assisting communities with dune restoration siting, design and adaptive management

Research Partners: California Sea Grant, UC Santa Barbara, USGS

Community Partners: Local and state coastal and beach managers from San Diego to Santa Barbara



BORDER FIELD STATE PARK



ORMOND BEACH DUNES & LAGOON



SURFER'S POINT, VENTURA



PONTO BEACH, CARLSBAD

3. Integrating Indigenous community voices in coastal resilience planning.

A community partnership to support Tribal-led coastal initiatives. Activities include:

- Providing meaningful engagement with Tribes training for non-Tribal partners working in coastal management.
- Providing opportunities for indigenous engagement, leadership and stewardship in coastal restoration activities.

CONTACTS:

Laura Engeman, Lead, SIO

lengeman@ucsd.edu

Dr. Julie Kalansky, co-Lead, SIO

jkalansky@ucsd.edu

Dr. Amber Pairis, co-Lead, Climate Science Alliance

apairis@climatesciencealliance.org

Tom Corringham, SIO

tcoringham@ucsd.edu

Dan Cayan, co-Lead, SIO

dcayan@ucsd.edu