



Ventura County

Open Pacific Coast Study

California Coastal Analysis and Mapping Project

December 2011



FEMA



Open Pacific Coast Counties

Phase 1



Phase 2



California Coastal Analysis and Mapping Project



RiskMAP
Increasing Resilience Together

Risk Mapping, Assessment and Planning (Risk MAP)

FEMA is initiating flood studies and mapping projects nationwide in coastal areas as part of Risk MAP, a new FEMA program that will provide communities with more accurate flood maps, risk assessment tools and support for planning and outreach efforts that they can use to enhance their hazard mitigation plans and better inform and protect their citizens. These efforts will address gaps in required engineering and mapping for high flood risk areas impacted by coastal flooding, levee systems, and other flood hazards (e.g., lakes, rivers, and ponds). Cumulatively, the coastal flood mapping projects in Region IX are being referred to as the California Coastal Analysis and Mapping Project (CCAMP), of which this Open Pacific Coast study is a major component.

Open Pacific Coast Study Overview

The Region IX office of the Federal Emergency Management Agency (FEMA) is in the process of performing a detailed coastal engineering study (modeling and analyses) of the Pacific coast of California. Results from this study will be used to remap the coastal flood risk and wave hazards for the California coast in two phases: northern California from Point Conception to the California-Oregon border, followed by southern California from Point Conception to the California-Mexico border. To date, FEMA has completed a review and analysis of available data for use in these studies, excluding the San Francisco Bay area. Data gaps were determined during this process and filled, as necessary. The coastal studies for both regions of the California coast are now underway and will be conducted in accordance with FEMA's February 2005 *Pacific Guidelines for new coastal studies*, which are included as part of the *Guidelines and Specifications for Flood Hazard Mapping Partners, Appendix D*. As needed in future years, FEMA will continue to seek new data and updated modeling approaches that are best suited for Pacific Ocean coastal studies. To learn more about the FEMA Open Pacific Coast Study, please visit www.r9coastal.org.

FEMA's coastal mapping efforts benefit from new technologies and coastal data, including recent collection of detailed topographic data using Light Detection and Ranging (LiDAR). This new high resolution digital elevation data will update topographic maps along the entire California coast. Two dimensional wave models will be used to transform offshore waves to nearshore coastal waters. The results from these modeling efforts will provide boundary conditions for detailed onshore coastal flood hazard analyses. Key coastal processes such as wave setup, wave runup and overtopping, and overland wave propagation will be accounted for in determining new Base Flood Elevations (BFEs). Dune and bluff erosion will also be considered when mapping new coastal hazard zones.



Following FEMA's due process and statutory requirements, the new BFEs and hazard zones will be presented in revised Flood Insurance Study reports and Digital Flood Insurance Rate Maps. FEMA has identified federal, state, tribal, regional, and local stakeholders who may contribute to, or be affected by, the Open Pacific Coast study. FEMA will continue to coordinate with these stakeholders as the study and mapping efforts progress.

More Information

Visit www.r9coastal.org to learn more about the Open Pacific Coast Study and to stay informed of the progress of this project. FEMA welcomes your feedback, questions and comments. In addition, comments can be submitted on the "Contact Us" tab on the webpage.

Coastal Mapping Timeline

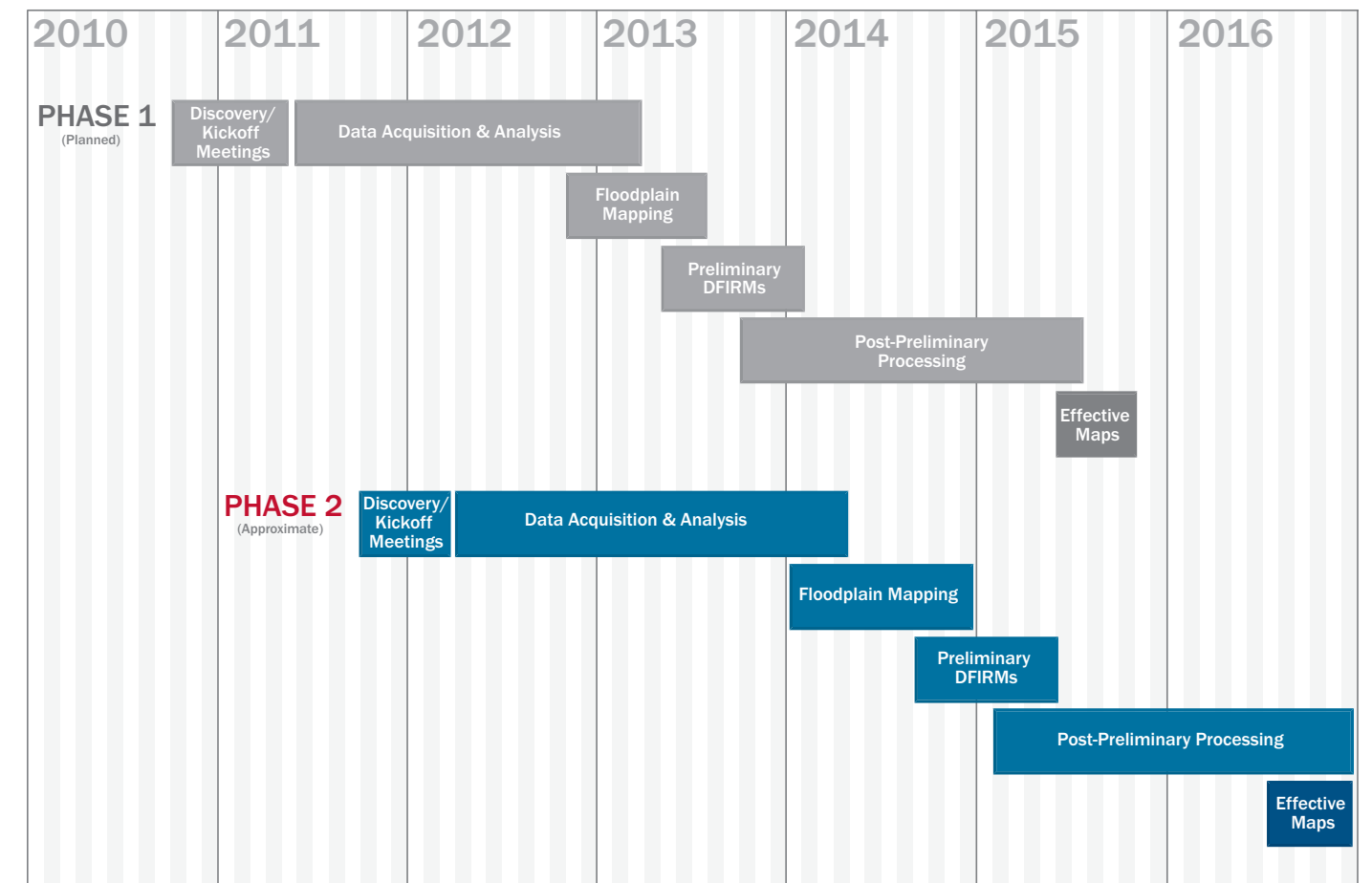


Photo: Copyright © 2010-2011, Kenneth & Gabrielle Adelman, California Coastal Records Project, www.californiacoastline.org

Ongoing coordination and collaboration with Federal, State, Indian Tribal entities, regional and local stakeholders.

National Flood Insurance Program

Discovery Map: Ventura County

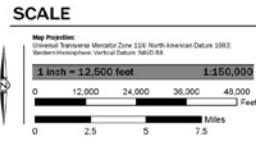
COMMUNITY	CID	PANELS	SUFFIX
CITY OF SAN BUENAVENTURA	060419	0730,0740,0745,0885,0905	E
CITY OF PORT HUENEME	065051	0911,0913,0914,0918	E
CITY OF OXNARD	060417	0885,0905,0911,0914,0918,1081,1082	E
VENTURA COUNTY	060195	0538, 0540, 0701, 0705, 0710, 0730, 0740, 0745, 0885, 0905, 0911, 0913, 0914, 0918, 1081, 1082, 1101, 1102, 1104, 1110, 1130, 1140	E



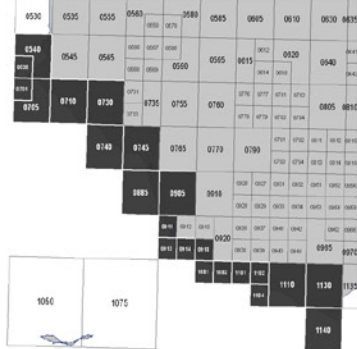
RELEASE DATE
12/08/2011

BakerAECOM
VISIT WWW.R9COASTAL.ORG TO LEARN MORE ABOUT THE OPEN PACIFIC COAST STUDY

California Coastal Analysis and Mapping Project



PANEL LOCATOR



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Base Map Note: Imagery Provided by the United States Department of Agriculture (USDA) National Agriculture Imagery Program (NAIP), June 15, 2009. 3m resolution, 7m accuracy

Special Flood Hazard Area (SFHA), FIRM Panel, Streams, and Political Boundary Information Taken From January 20, 2010 Effective Data

California Armoring Layer, California Coastal Commission, 2005
Major Roads, ESRI Basemap 2010

MAP SYMBOLOLOGY

SPECIAL FLOOD HAZARD AREA		Approximate Study Zone A, V	FIRM PANELS		Proposed CCAMP / OPC Panels 1:24,000 x 6 1:12,000 x 11 1:6000 x 11
		Detailed Study Zone AE, AO, AH, VE			Countywide, Printed
		Floodway Zone AE, AH			Countywide, Not Printed
COMMUNITY BOUNDARIES		0.2% Annual Chance Flood Hazard	BASE DATA		Coastal Armoring Layer California Coastal Commission
		Area Outside of SFHA Zone X			Streams
COMMUNITY BOUNDARIES		VENTURA COUNTY		Major Roads	
		Coastal Communities			
		Non-Coastal Communities			



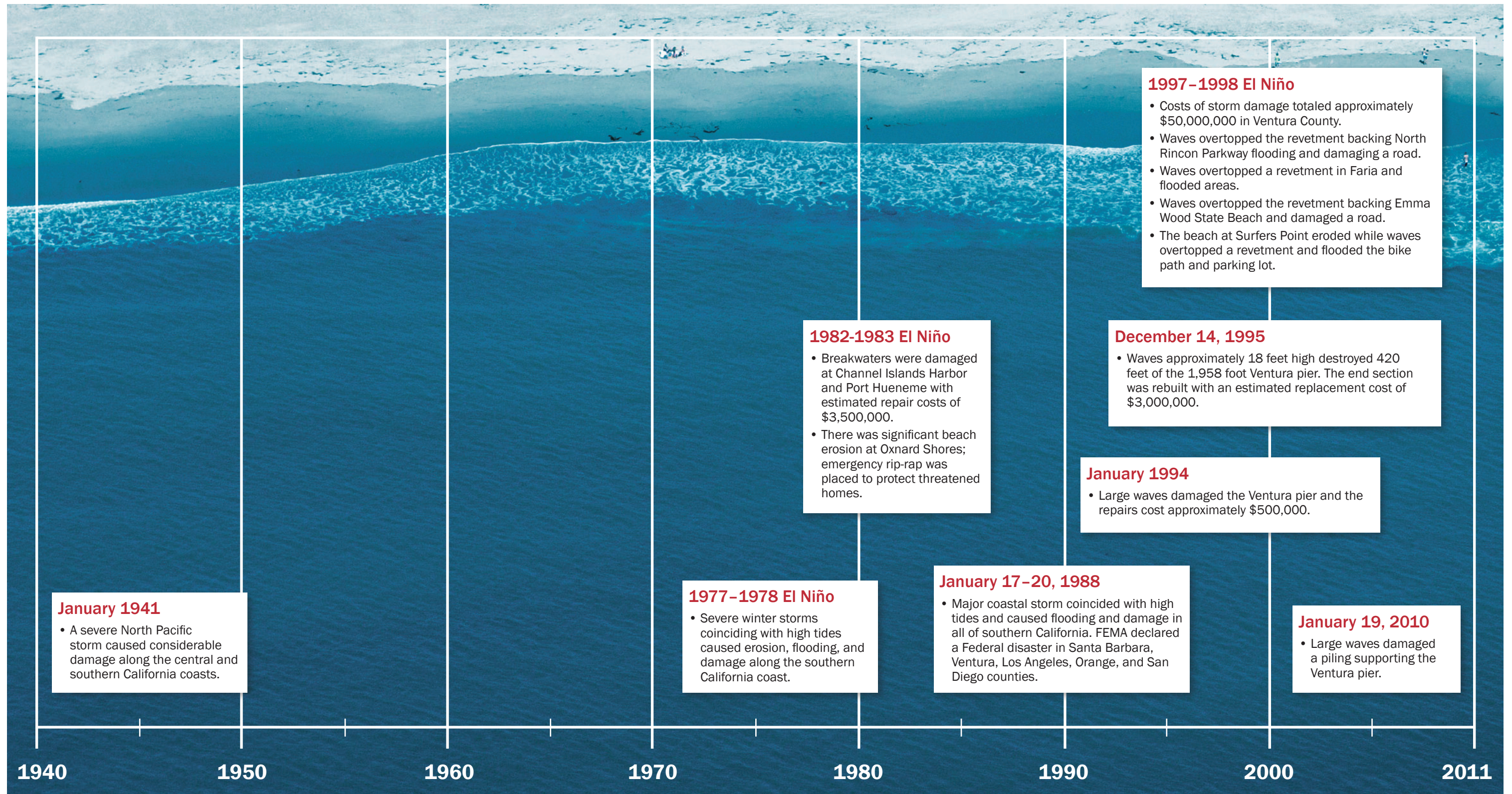
CCAMP / OPC Proposed Panel Revision

Scale	Printed	Not Printed	Total
1:12000	11		11
1:6000	8	3	11
	19	3	22

Coastal Special Flood Hazard Areas (SFHA) Summary

Zone	Mileage
A	1.8
AE	.5
VE	32
	34.3

Ventura County Historic Coastal Flood Issues



What Local Data Are Available?

Contact us if you have local data/information to share. We are looking for...

1 Digital Mapping Data

- Base Mapping
- Topographic Data

3 Historic Flood Hazard Information

- Erosion hazard areas
- Wave damage and overtopping

2 Coastal Structures at Risk

- Coastal levees
- Flood control structures

4 Current Flood Studies

- For existing or anticipated development
- Letter of Map Revision (LOMR) or other map revisions in progress

Please let us know if your contact information changes!



Points of Contact

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For more information on the California Coastal Analysis and Mapping Project (CCAMP) visit: www.r9coastal.org

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www.fema.gov/plan/prevent/fhm/rm_main.shtm · 1-877-FEMA MAP