

# **Coastal Sediment Management Workgroup: Coastal Regional Sediment Management Plan Eureka Littoral Cell**

**Sponsor: Humboldt Bay  
Harbor, Recreation, and  
Conservation District**

**Report Development:  
MOFFATT AND NICHOL  
Long Beach & Walnut Creek, CA**

**Project Management:  
U.S. Army Corps of Engineers  
Susan Ming, Project Manager  
(Los Angeles District)  
John Dingler, Lead Planner  
(San Francisco District)**

Photograph: Gary Todoroff

# Coastal Sediment Management Workgroup

## Federal

USACE  
LAD  
SPN  
USGS  
NOAA  
MMS



## Local

Cal Coast

Humboldt Bay Harbor RCD

## State

Natural Resources Agency  
Boating & Waterways  
Coastal Commission  
Parks & Recreation  
Geological Survey  
Fish & Game  
Coastal Conservancy  
SWRCB  
Ocean Protection Council

## NGOs

CMANC (Ports & Harbors)



## *Mission*

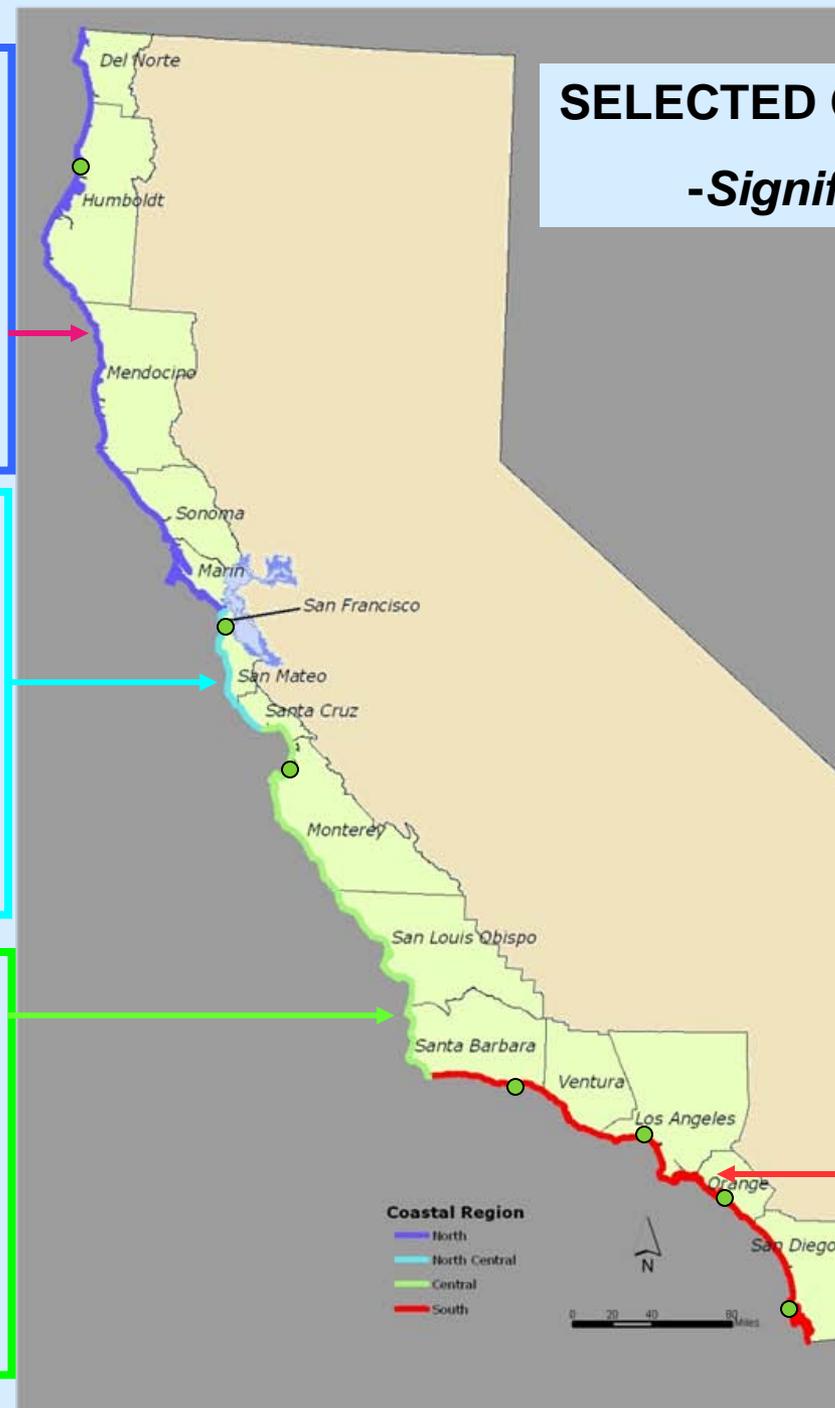
*Conserve, restore, and protect California's coastal resources by developing and facilitating regional approaches to managing sediment imbalances.*

## *Goals*

- To reduce shoreline erosion and coastal storm damages;*
- restore and protect beaches and coastal habitat by restoring natural sediment supply from rivers, impoundments and other sources to the coast; and*
- optimize the use of sediment from ports, harbors, and other opportunistic sources.*

# SELECTED COASTAL CONCERNS

*-Significant Differences-*



**Maintain Habitat**  
**Sediment TMDLs**  
loads, budgets  
**Coastal Processes**  
**Dredge disposal**  
**Wood Budgets**

**Shore Protection**  
**Bird Habitats**  
**Sand Mining**  
**Sand Rights**  
**Natural Processes**

**Pollutant Effects**  
**Agricultural Runoff**  
**Coastal Armoring**  
**Sand Mining**  
**Dune Erosion**

**Shore Protection**  
**Economic Losses**  
**Wetlands, Harbors**  
**Opportunistic Sed.**  
**Contaminated Sed.**  
**Critical Species**  
**Surfing conditions**



# SEDIMENT MANAGEMENT ISSUES

- Beneficial Reuse consideration
- Fines content
- Source/beach sand compatibility
- Effects of fines and project operations on natural resources
- Potential contaminants/bacterium
- Sediment Budgets
- Fine-grained sediment transport
- Guidelines for regional opportunistic programs
- Economics
- Permitting inconsistencies
- Inadequate information for decision making

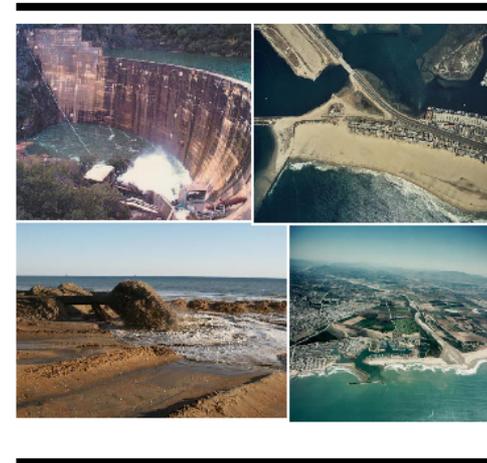
# COASTAL SEDIMENT MASTER PLAN

## “Deliverables”:

- Educational materials, reports & data
- Computer-based decision support tools
- Regional-based Coastal RSM Plans.

### THE CALIFORNIA COASTAL SEDIMENT MASTER PLAN

#### Status Report



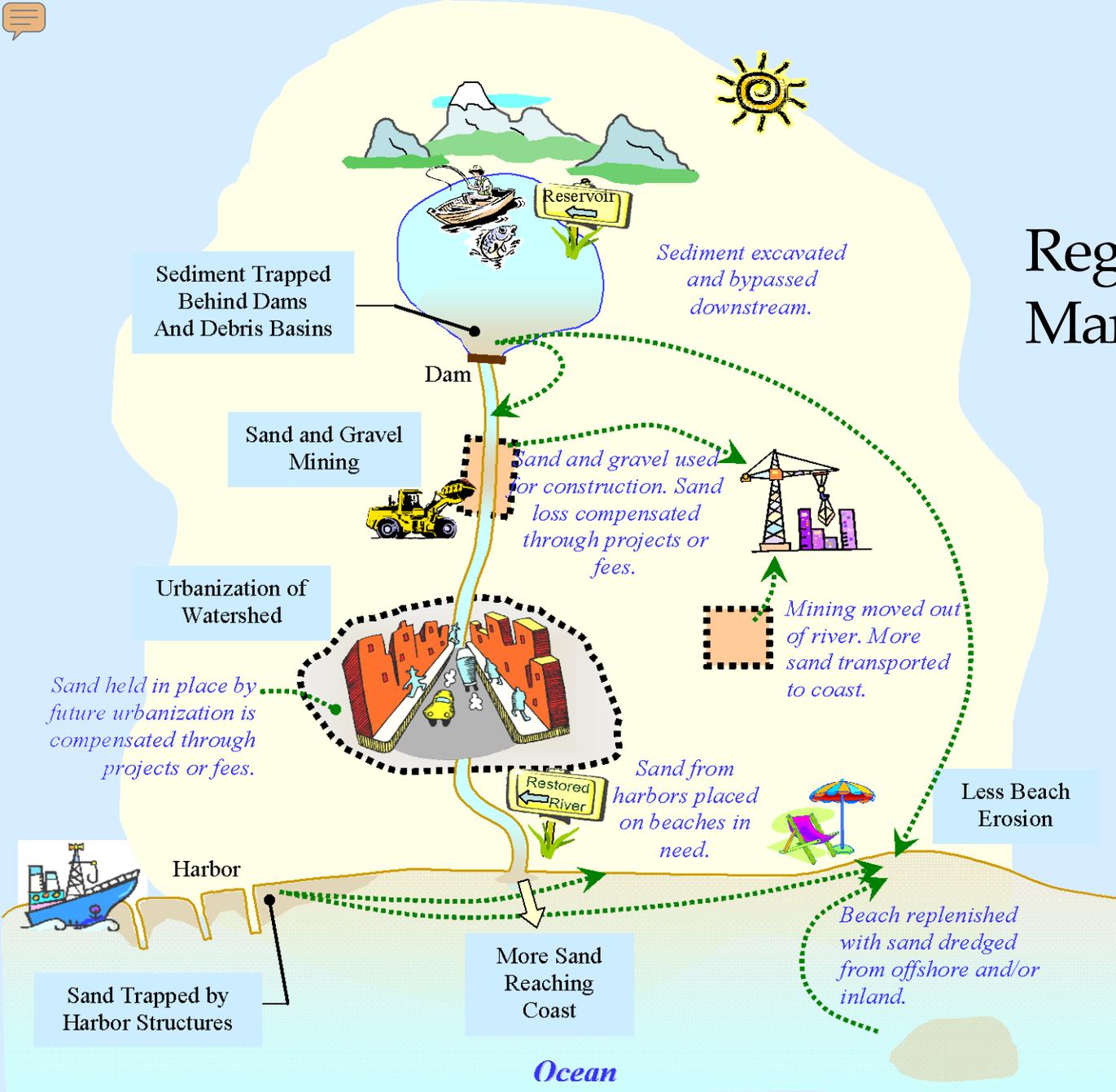
PREPARED BY

California Coastal Sediment Management Workgroup

May 2009

<http://www.dbw.ca.gov/csmw/default.aspx>

# Regional Sediment Management



Source- CSMW Brochure

**Regional Sediment (Sand) Management**

# Completed Coastal RSM Plans



Southern Monterey Bay Littoral Cell

(AMBAG)

Santa Barbara Littoral Cell

(BEACON)

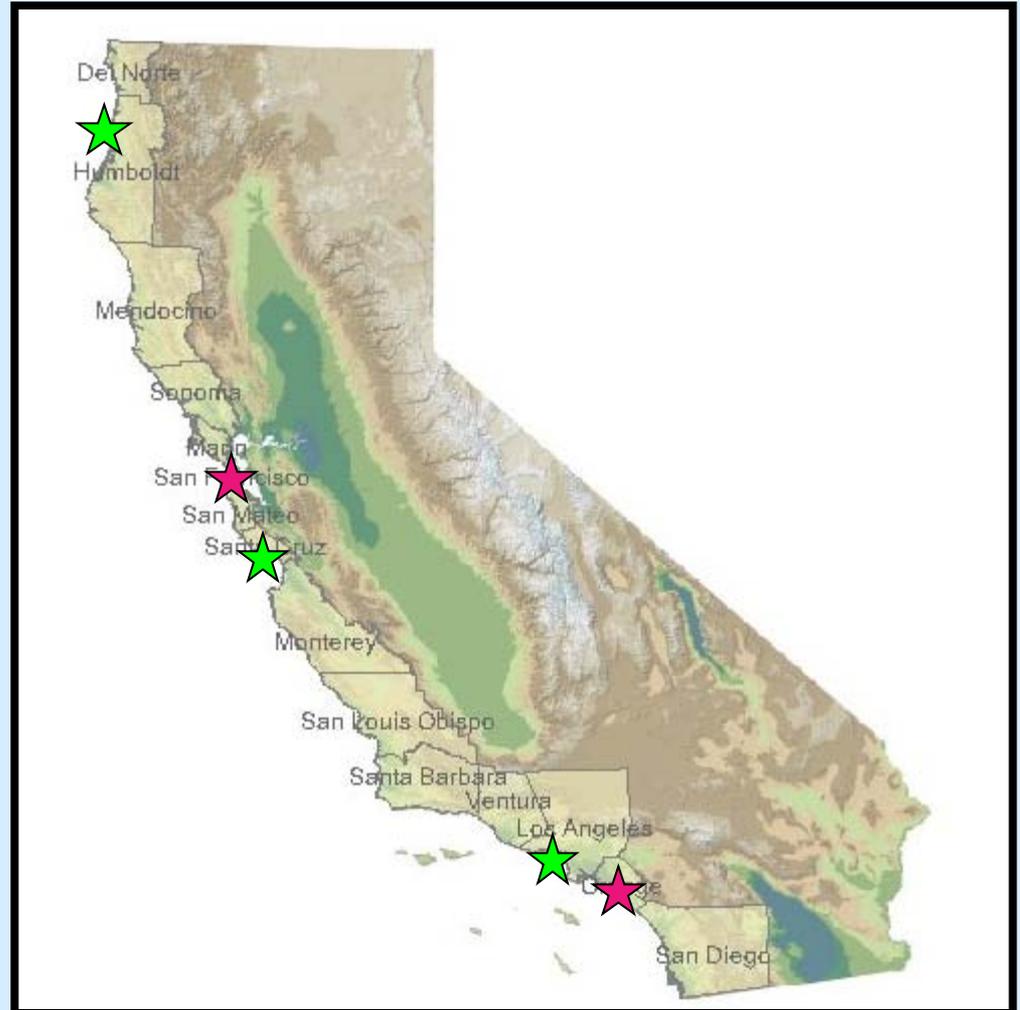
San Diego County

(SANDAG)



# Upcoming Coastal RSM Plans

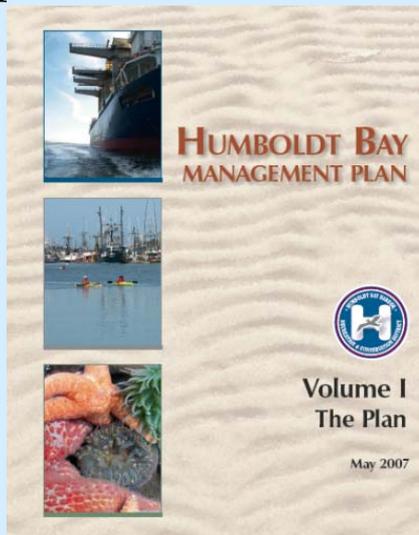
- Eureka Littoral Cell
- San Francisco Bay & Coastline
- Northern Monterey Bay
- Los Angeles County
- Orange County



# Coastal RSM Plan Elements

## Governance

- Regional Perspective
- Stakeholder Advisory Group
- Structure, coordination agreements, process improvements
- Formal acceptance or adoption of the Plan
- Implementation Strategies



Stakeholder Groups	Agencies
Non-motorized Boaters	City of Arcata
Recreational Boaters	City of Eureka
Commercial Fishermen	County of Humboldt
Sport Fishermen	CA Department of Fish and Game
Hunters	US Fish and Wildlife Service
Tourism	US Bureau of Land Management
Mariculture	Wiyot Tribe
Education	<b>Humboldt Bay Harbor RCD</b>
Commercial Shipping	
Transportation	
Habitat Restoration	
Water Quality	

# Coastal RSM Plan Elements:

## Outreach

- Engage existing stakeholder groups
- Provide Agency coordination
- Public Outreach Program
- Conduct Public Meetings



# Coastal RSM Plan Elements:

## Technical

- Compile relevant references
- Identify critical eroding areas
- Determine potential sediment sources
- Assess sediment quality information
- Locate critical species and habitats
- Data Gaps, other issues of concern
- Permitting requirements
- Identify potential funding streams



# Benefits of a Coastal RSM Plan for the Eureka Littoral Cell

Strings together various sediment management projects and planning efforts already underway into one integrated plan

- USACE Dredged Material Management Plan
- USACE Nearshore Placement Demonstration project
- Beach and Shoreline Erosion
- Watershed erosion control
- Stormwater management
- River inputs and flooding



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[John.R.Dingler@usace.army.mil](mailto:John.R.Dingler@usace.army.mil)

(503.729.2492)

[Clif.Davenport@conservation.ca.gov](mailto:Clif.Davenport@conservation.ca.gov)

Photograph: Gary Todoroff