

FY 11 SPD RSM ACTIVITIES

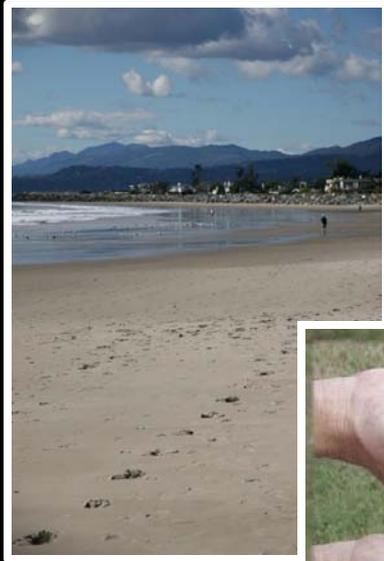
Heather Schlosser

August 11, 2011



FY11 RSM Activities

South Pacific Division



❖ SPN

- 3-D Sediment Transport Model for Ocean Beach and San Francisco Bight

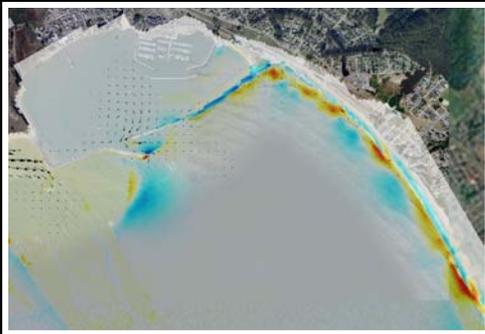
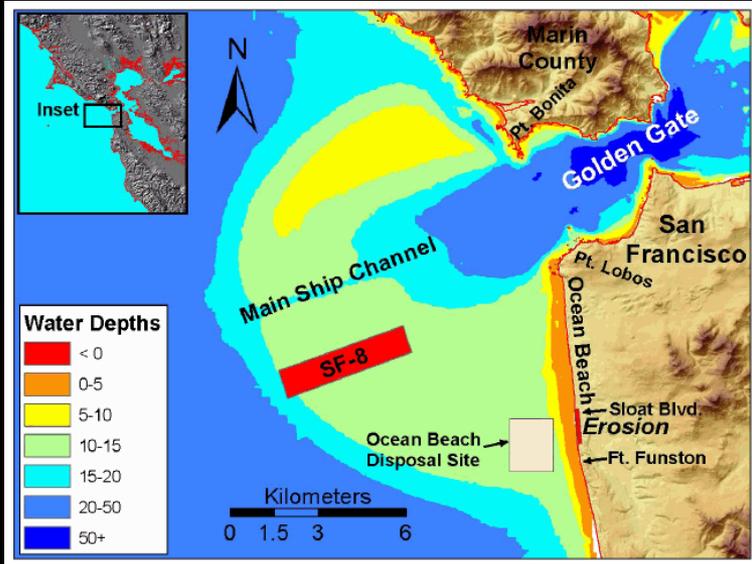
❖ SPL

- Santa Ana River Watershed
- RSM PDT/CSMW



3-D Sediment Transport Model

Ocean Beach and San Francisco Bight

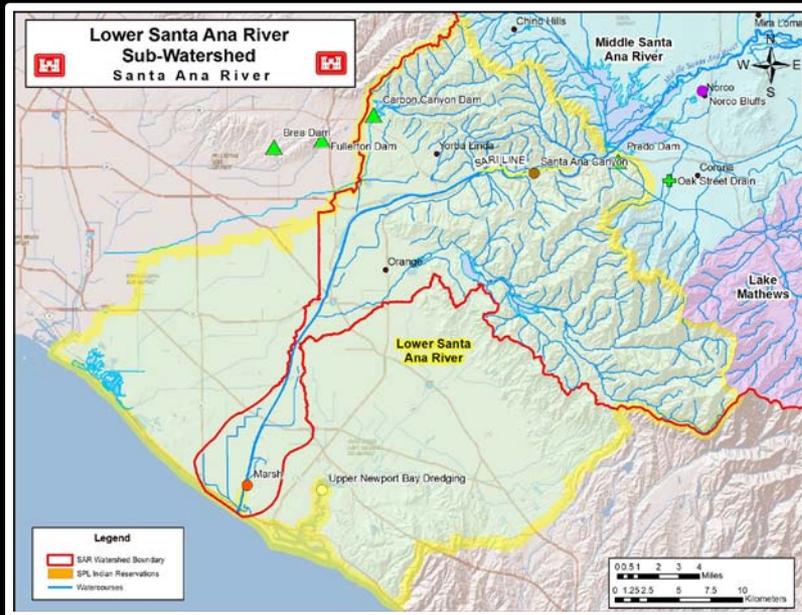


- ❖ 3-D Sediment Transport Modeling at Ocean Beach and San Francisco Bight
- ❖ Developed an updated sediment transport model
- ❖ Utilized field data (i.e. tide, wave, current and sediment) for model calibration and validation
- ❖ Implemented wave asymmetry scheme to improve cross-shore transport simulation results
- ❖ Apply on nearshore and onshore beach nourishment project
- ❖ Collaboration: SPN, ERDC & USGS



Santa Ana River Watershed

Beneficial Use of Material Behind Prado Dam



- ❖ Developed an existing conditions HEC-RAS hydraulic model
- ❖ Set up and ran an existing conditions Sediment Impact Assessment Method (SIAM) analysis in HEC-RAS
- ❖ Determined source material gradations, annualized flow distribution, wash load maximum size class, and transport function for each sediment reach
- ❖ Developed an annual sediment budget
- ❖ Performed a rough calibration of SIAM based on the best available data

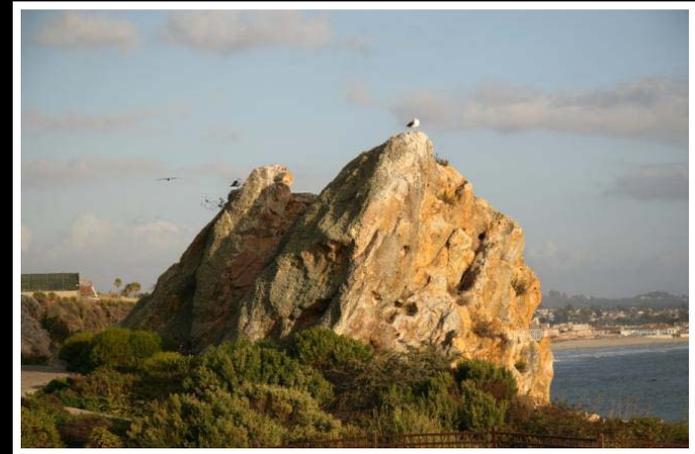


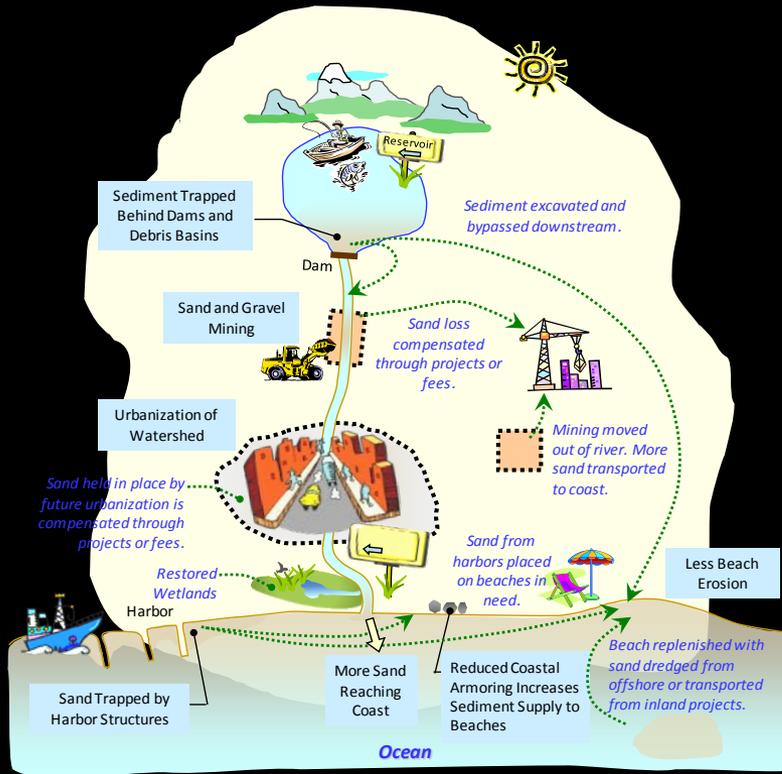
RSM PDT

In-House



- ❖ Monthly meetings – PM, Planning, Environmental, Engineering, Economics, Navigation, Regulatory, Asset Management
- ❖ Working on Developing RSM Protocol within the District





Mission

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

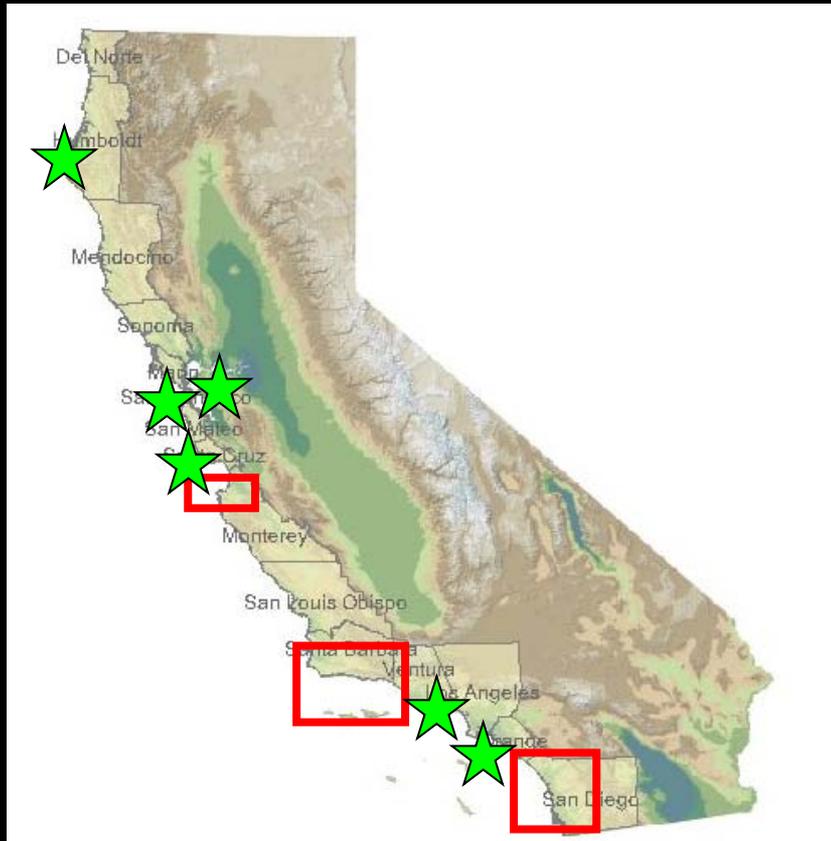
Goals

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



RSM PDT

RSM Plan Development



- ❖ Formulate and seed regional consensus-driven sediment management policy and guidance
- ❖ Restore and maintain coastal beaches and other critical areas of sediment deficit; reduce the proliferation of protective shoreline structures; sustain recreation and tourism; enhance public safety and access; and, restore coastal sandy habitats.



QUESTIONS?

