



**CSMW Meeting Minutes  
27 APRIL 2011  
9:30 AM – 1:00 PM  
San Francisco District**

**STILL PENDING:**

- ✓ **Chris** – Will reconvene the PPR sub-committee to discuss the RSM Top Ten Recommendations. Will be in June after H2O ONGOING – Will convene once CSMW public meeting agenda is more fully developed.
- ✓ **Susie/Heather** – Will reconvene the Corps' PPR sub-committee to discuss Federal actions. ONGOING – will following the general sub-committee meeting
- ✓ **Heather** – Check on progress of posting of JALBTCX LIDAR data to NOAA website so others can access. STILL PENDING – NOAA Digital Coast – Additional LIDAR for Santa Barbara county has been received. If you need data soon, please contact Nate West or Heather Schlosser
- ✓ **Heather** – Finalize and obtain hard copies of SMP Brochure for Outreach efforts. STILL PENDING
- ✓ **Nate** – Conversion of USACE reference database for incorporation into CSMW's searchable Access Database. ONGOING – John sent Spreadsheet and Draft Database to Nate
- ✓ **Chris** – Add new agenda item for January meeting to have a discussion on disposal methodology (running into problems with disposal, particularly in the North Coast area) – Chris will add to future meeting -
- ✓ **SPN (Peter Mull) and SPL (Mo Chang)** to provide Kim with dredging spreadsheet – Still PENDING – Heather to follow-up – need to coordinate closely with SC DMMT and DMMO
- ✓ **Brad or Phil King** Give a presentation on the economic analysis of the Southern Monterey Bay study – STILL PENDING – July?
- ✓ **Chris** – Follow-up with SWRCB regarding classification of clean sediments as pollutants in CA – Email exchange with George and Eric – will revisit in the Fall with a presentation, Eric will give a presentation at the upcoming ASCE Coastal Conference

**COMPLETED ITEMS:**

- ✓ **John** – Provide update on Noyo Harbor issue of what to do with harbor dredging.
- ✓ **Rachel** – Provide update on NSMS at next meeting
- ✓ **Corps** – Follow-up with George to provide brief update on National Dredging Team (joint meeting between the EPA and Corps) for next meeting
- ✓ **Brad** Add Melissa Scianni (EPA) to the Southern Monterey Bay Coastal Erosion Workgroup

**NEW ACTION ITEMS:**

- ✓ **Lesley** – will make contact with the PIER group
- ✓ **Susie/Heather** – talk with SPL Regulatory
  - Coordinate with the DMMT and SMMO – can we get more involved?



- DMMT is concerned with the timeframe that they hear about Corps projects (too close to project time).
  - All projects (including Corps projects) must go through the DMMO, but that is not true with the DMMT.
  - Brian Ross thinks SPL Navigation needs to work more closely with SPL Regulatory
  - ✓ **ALL** – Provide comments on “NOAA’s Monterey Bay National Marine Sanctuary – Background Document and Status Update” to Brad Damitz by May 6<sup>th</sup>
  - ✓ **George Nichol** will look into the Noyo ruling
    - **Jim** will send George additional information on the ruling
  - ✓
- 

### ❖ Welcome & Introductions – George Domurat

### ❖ Review of Meeting Minutes from 2/23/11 – Heather Schlosser

- Meeting Minutes Approved

### ❖ Sediment Trend Analysis – Patrick McLaren, SedTrend Analysis, Ltd

- Presentation is available on the FTP site
- Why use Sediment Trend Analysis?
  - Risk making environmentally unacceptable mistakes
  - Everything that has to do with sediment transport is complex, but it is the only method to know how the environment is working.
- Current methods used:
  - Tracers
    - making an assumption that all sediment sizes are behaving differently
    - At what tide do you put the tracer in the water? You may be catching the end or beginning of a cycle – you just aren’t sure.
  - In Situ Measurements
    - Where do you put the sensors?
    - How long do you keep the sensors in place?
  - Models
    - Factors analyzed:
      - River Discharge – lots of variables
      - Tides
      - Waves
      - Wind driven currents and return flows
      - Bottom shear stress
      - Meteorological parameters
      - Bathymetry
      - Extreme events
      - Large numbers of factors that can’t be measured
      - SEDIMENT DATA IS MISSING

- STA is a technique to recognize patterns of net sediment transport and their dynamic behavior
  - If you understand the pattern, then observations can be explained.
- STA can answer questions such as:
  - Are dredged channels affecting sediment transport patterns?
  - What will happen to disposed material at proposed sites?
  - Are there threatened habitats?
  - Whose contaminants are going where?
  - Who might be liable?
  - Are there savings to be had?
- Overview of STA process
  - Use grab samples in analysis – if the sediment is mixed, it may be separated and a separate analysis run on each sediment type
  - Vector analysis is performed – starts to develop the sources and sinks
  - Net sediment transport pathways are then developed
    - In a larger area, unique transport environments are identified
    - Meeting and Parting zones are identified – very common in estuaries
      - Parting zones would eventually need to be reloaded with sediment during large storm events. These are the areas that would be “bad” places to take sediment.
      - Meeting zones – these would be “good” places to take sediment
- Port of Santa Cruz STA - What will happen to mud dredged from the harbor and disposed of on the beach?
  - Pathways identify areas of dynamic equilibrium, net accretion and net erosion
  - Statistical Analysis used to relate points together – straight ZED score used
  - Analysis shows that Port of Santa Cruz is not responsible for downdrift erosion.
  - Mud dredged from the inner harbor could be placed “safely” on the beach (meaning the physical environment will not be harmed) – the volume of fine-grained material coming out of the San Lorenzo River is so much greater than the volumes proposed. Fine-grained material is not found offshore of Santa Cruz Harbor.
  - 3 Additional studies have been conducted after STA was completed.
- Conclusion:
  - STA provides a genuine understating of how an environment is working.
  - With this understanding decisions can now be made to reduce risk and unnecessary expenditures.
  - STA is clearly defensible and easily accepted by stakeholders.
    - No prior assumptions have been made in carrying out the technique.

- It is easy to accept that sediments do move about and that grain size distributions will be changed by that movement.
- The data required cannot be disputed.
- The derived patterns of transport account for all the data and themselves have been verified.
- “In 26 years of STA projects around the world, the results have NEVER been wrong.”
- George Nichol – seems that this analysis would be great to use to calibrate numerical models.
- Brian Ross
  - Just using observations, this analysis is good to see what is going on, but may not be able to explain why things are happening.
  - When analyzing mud, can STA give the same level of accuracy? YES

❖ **California tsunami effects, reporting and emergency preparedness efforts – Rick Wilson, CGS**

- 3 events in the last 2 years (2009 Samoa, 2010 Chile, and 2011 Japan) that CA responded
- Tsunami Advisory predicts 1-3 ft events, not massive inundation
- Tsunami Warning predicts and event over 3 ft, evacuate potential inundation areas
- Maritime communities have learned from each of these events.
- Japan tsunami – saw strong waves over 24 hours in duration, over \$50M in damages (\$22M in Santa Cruz), one death. Highest waves occurred during low tide.
- CA was in an Advisory or Warning for about 24 hours post tsunami
- CGS Response
  - CGS sent out 6 people to assist local officials before the event
  - After the event, 8 field teams and email surveys collected information at 160 coastal locations
  - Used EQ Clearinghouse website
  - Damage reports to CalEMA
  - CGS Special Report (August 2011)
- Spanish speaking population seemed to get the message about evacuating – they got a lot of information from a Spanish channel in Los Angeles, however, the message they received prompted quite a few people to head to the mountains, which was a little too conservative.
- Pismo Beach evacuated 100 RVs off the beach
- Ocean Beach rescue of a family
- Extended wave activity - peaks seen every 2-3 hrs
- Lessons Learned:
  - Public messaging/education
    - Keeping people away from the water
    - Language barriers
    - Consistent temporary signage (especially for state parks/beaches)
    - Media

- Maritime
  - If/When/Where to evacuate boats? When should the boats return?
  - Educate boat owners about tsunami hazards
  - Minimize harbor damage with pre-planning
- Warning Center communication
  - Missing information statement
  - Website issues – wasn't being regularly updated and difficult to find information
  - Media knew before Emergency Managers (EM)
- EM/response fatigue – 10 hours pre-event and then 24 hours during the event
- Sirens used in Crescent City and Humboldt Bay and inundation areas were evacuated
- Tsunami Hazard Mapping Program Projects
  - Evacuation/Emergency response planning
  - Maritime planning
  - Land-use planning
  - Inundation Maps for Evacuation Planning – maps based on largest realistic tsunami sources, numerical modeling by USC Tsunami Research Center, and Mean High Tide conditions
    - Statewide maps released in December 2009 ([www.tsunami.ca.gov](http://www.tsunami.ca.gov))
- Four Scenarios modeled from Alaska-Aleutians Subduction Zone – used to determine inundation zone
- Estimated tsunami hazards (strong currents) for maritime communities
- Maritime work – evaluation of sediment transport during tsunami
  - Pre- and post-tsunami bathymetric surveys
  - Evaluation of sediment movement
  - Help identify zones of high currents (also with existing videos, models, local knowledge, eye-witness accounts)
  - **Looking for bathymetric data**
- Land-use Planning Maps
  - Worst-Case vs. Probable events (lifetime of structure) – need to understand the Average Return Period for certain tsunami runup or inundation
- Websites:
  - State [www.tsunami.ca.gov](http://www.tsunami.ca.gov)
  - State [www.myhazards.calema.ca.gov](http://www.myhazards.calema.ca.gov)
  - NOAA [www.tsunami.noaa.gov](http://www.tsunami.noaa.gov)
- Coastal Commission does have a report on the Japan tsunami on their website
- ❖ **Southern Monterey Bay Coastal Erosion Workgroup – Brad Damitz, NOAA**
  - Brad would like comments on “NOAA’s Monterey Bay National Marine Sanctuary – Background Document and Status Update”
  - Funding is running out to continue the workgroup and the sea level rise work



## ❖ Updates: Army Corps Projects

### ***Los Angeles District – Heather Schlosser***

- San Clemente
  - heading towards Congressional Authorization
  - Will present to USACE HQ on May 12<sup>th</sup>
- Oil Piers - in the final design stages
  - May need to look for private funding to help with funding
- Pismo
  - Recommended Plan was denied by the Coastal Commission
  - District will be working with Commission staff to look for an acceptable alternative
- Fletcher Cove offshore reef preliminary design (from Everest) has been reviewed by ASR and will then be reviewed by Scripps, at the request of the City of Solana Beach

### ***San Francisco District – John Dingler***

- Crescent City – Dredging inner harbor of the Federal Channel now (to design depth of 15')
- Bolinas Study terminated
- SF Bay
  - LTMS not funded this year
  - Megan Kaun the technical POC on SF Bay DMMP dredging project
  - SF Bay RSM studies will continue
- Noyo Harbor
  - Material has been designated as “waste” by regional board, and must be taken inland (30KCY)
  - **George Nichol will look into the ruling**
  - **Jim will send George additional information on the ruling**

### ***National Shoreline Management Study – Rachel Grandpre***

- Looking at differences in problems between each of the region in CA
- If anyone has suggestions of people that Rachel should talk to, please contact her ([Rachel.N.Grandpre@usace.army.mil](mailto:Rachel.N.Grandpre@usace.army.mil)), she will be in CA for next 3 to 4 weeks.

## ❖ State Agency Updates

### ***Department of Boating and Waterways (DBAW) – Kim Sterrett***

- CIAP – approve for \$700K for RSM, but will appropriate after July 2011
- BEACON has sent DBW a proposal to look at getting a specific CA/RSM Corps authorization

### ***Others***



- BCDC – Bay Area Sediment Needs Survey is available on-line (<http://www.bcdc.ca.gov/>)
- Coastal Commission
  - Goleta Beach – receiving reports that sediment has been placed on the beach, but fine-grained material was placed and mud balls have developed. Perhaps opportunistic permit guidelines were not followed.
- National Parks
  - Ocean Beach Master Planning

❖ **SMP Project Manager's Report**

- Computer-based tools – OPC has a sub-committee on Marine Spatial Planning – assessing and identifying statewide GIS data sources and needs within the various state agencies and Cliff is being interviewed
- GIS User's Survey will be finalized within the next week

❖ **Other Agency Updates, New Business, and Announcements**

- USGS LiDAR
  - Flown in Fall 2010 for Southern CA
  - Pt. San Pedro to Pt. Reyes (South SF Bay) flown and data received, North Bay also flown
- SF Provenance Study – should have findings in late Summer/early Fall
- Two upcoming workshops
  - May 9<sup>th</sup> in Portland
  - May 23<sup>rd</sup> in San Diego (4-6pm)
- Latest edition of Shore & Beach (Lesley Ewing, editor!!)
  - Article on SCoup utilization at Encinitas

**NEXT MEETING/WORKSHOP**

**May 23<sup>rd</sup>**

**San Diego, CA**

**4-6 pm**



## CSMW PM Report April 27, 2011

### A: Outreach

1. Sediment Master Plan Brochure- Heather is working with Everest Consultants to finalize hard copies and electronic version for posting. Was used in OC CRSMP stakeholder meeting.
2. The CSMW in collaboration with the Lower Columbia River Estuary Partnership (LCREP) and the Lower Columbia Solutions Group will be hosting an RSM Workshop for Oregon/Washington- May 9, 2011 at Portland State University. Several CSMW members will be participating. Chris have will have more information.
3. CSMW Public Meeting at CSBPA- Monday afternoon, May 23, before the conference. The meeting, listed on the conference Web site, has generated some interest from the public. A meeting notice will be sent out to the CSMW outreach lists by the end of the week
4. Sediment Master Plan Status Report 2011- draft has been compiled and will be posted to CSMW for comments soon.
5. FYI- The Spring 2011 issue of Shore & Beach has article regarding implementation of RSM objectives that were related to SANDAG Coastal RSM Plan!

### B: Coastal RSM Plans:

1. Orange County- The second stakeholders meeting was held March 28 in Costa Mesa. Poor attendance, due to contractor oversight on mailing list. A Stakeholder Meeting "re-do" is scheduled for May 16 in the AM (time TBD - meeting location SCWRRP Office in Costa Mesa)
2. Santa Cruz littoral cell- No Activities this period
3. SF Bay -Carolynn may have an update of relevant BCDCs activities, including a recently developed Sediment Management Needs Survey, available at <https://spreadsheets.google.com/spreadsheet/viewform?formkey=dDFrajZEcWxxbnBzMkNLOEprWXZISIE6MQ>
4. San Francisco Open Coast: ABAG and the SFEP remain interested in being the regional partner for Plan development. However, direct involvement is pretty much on hold until CIAP funds become available so that a MOU can be developed.
5. Eureka Littoral Cell- **John Dingler** may have update on work progress
6. Los Angeles County -Corps held another update call today with Noble Consultants, who will be sending out a schedule of Outreach Meetings and/or Draft Report Submittals soon

CIAP Funding: Kim Sterrett will update today. CIAP grant is in place and CNRA has sent contract to Cal Boating.

### C: Computer-based Tools

#### WebMapper/GIS

1. GIS User's Survey- Final Report expected to be submitted this Friday from Halcrow/Psomas.



2. Kearns & West is conducting a Coastal and Marine Spatial Planning Information Management System Scoping Study and has requested that Clif participate in an initial set of interviews to share how CSMWs spatial data website and its development may contribute to the scoping study. Clif has requested a meeting of the GIS subcommittee immediately following the meeting so that he can be timely in his response to the contractor's request.

#### CSMW Website

1. Minor update activities this period, including reposting CRSMPs with paragraph crediting BOEMRE's (CIAP) funding

#### CSMW Reference Database:

1. LA District working with their technical support and computing office determine if this work could be performed by the Corps. If not, likely will create a simple link on CSMW page to a pdf or excel sheet of references that could be searched manually.

#### CSBAT

1. No activities this period

### D: Educational Documents

#### Biological Impact Analysis Phase 2:

1. SAICs last re-revised schedule for deliverables was:
  - a. User's Guide Draft Document Review: 2/14 - 3/11
  - b. BIA Comprehensive Document Review: 3/14 - 4/11
  - c. Work Plan & Recommendations Review: 4/11 - 4/22
  - d. FINAL DOCUMENTS: 4/29
2. Corps has not recieved the draft User Guide/Nat. Resource Protection Guidelines from SAIC nor any updates on revised submittal date(s).

#### PPR White Paper

1. No activities this period

### E: Demonstration Project

#### Tijuana Estuary Sediment Study:

1. John Warrick will provide an update describing his analysis of the monitoring results in a near-future meeting.



## CSMW ATTENDEES

Name	Organization	E-mail
Steve Aceti	CALCOAST	<a href="mailto:SteveAceti@calcoast.org">SteveAceti@calcoast.org</a>
Patrick Barnard	USGS	<a href="mailto:PBarnard@usgs.gov">PBarnard@usgs.gov</a>
Carolynn Box	BCDC	<a href="mailto:carolynnb@bcdc.ca.gov">carolynnb@bcdc.ca.gov</a>
Syd Brown	CA State Parks	<a href="mailto:sbrow@parks.ca.gov">sbrow@parks.ca.gov</a>
Brad Damitz	Mont. Bay NMS	<a href="mailto:Brad.Damitz@noaa.gov">Brad.Damitz@noaa.gov</a>
Clif Davenport	CGS	<a href="mailto:Clif.Davenport@conservation.ca.gov">Clif.Davenport@conservation.ca.gov</a>
John Dingler	USACE – SF	<a href="mailto:John.R.Dingler@usace.army.mil">John.R.Dingler@usace.army.mil</a>
George Domurat	USACE - SPD	<a href="mailto:George.W.Domurat@usace.army.mil">George.W.Domurat@usace.army.mil</a>
Lesley Ewing	CCC	<a href="mailto:lewing@coastal.ca.gov">lewing@coastal.ca.gov</a>
Rachel Grandpre	USACE – IWR	<a href="mailto:Rachel.N.Grandpre@usace.army.mil">Rachel.N.Grandpre@usace.army.mil</a>
Jim Haussener	CMANC	<a href="mailto:Jim@cmanc.com">Jim@cmanc.com</a>
Mark Johnsson	CCC	<a href="mailto:MJohnsson@coastal.ca.gov">MJohnsson@coastal.ca.gov</a>
Megan Kaun	USACE-SPN	<a href="mailto:Megan.M.Kaun@usace.army.mil">Megan.M.Kaun@usace.army.mil</a>
John Kucharski	USACE-SPL	<a href="mailto:John.R.Kucharski@usace.army.mil">John.R.Kucharski@usace.army.mil</a>
Patrick McLaren	SedTrend	<a href="mailto:pmclaren@sedtrend.com">pmclaren@sedtrend.com</a>
Susie Ming	USACE-SPL	<a href="mailto:Susan.M.Ming@usace.army.mil">Susan.M.Ming@usace.army.mil</a>
George Nichol	SWRCB	<a href="mailto:Gnichol@waterboards.ca.gov">Gnichol@waterboards.ca.gov</a>
Chris Potter	CA Resources	<a href="mailto:Chris.Potter@resources.ca.gov">Chris.Potter@resources.ca.gov</a>
Brian Ross	EPA	<a href="mailto:Ross.brian@epa.gov">Ross.brian@epa.gov</a>
Heather Schlosser	USACE – LA	<a href="mailto:Heather.R.Schlosser@usace.army.mil">Heather.R.Schlosser@usace.army.mil</a>
Patrick Sing	USACE – SF	<a href="mailto:Patrick.F.Sing@usace.army.mil">Patrick.F.Sing@usace.army.mil</a>
Kim Sterrett	CA DBW	<a href="mailto:Sterrett@dbw.ca.gov">Sterrett@dbw.ca.gov</a>
Tamara Williams	GGNRA - NPS	<a href="mailto:tamara_williams@nps.gov">tamara_williams@nps.gov</a>
Rick Wilson	CGS	<a href="mailto:Rick.Wilson@conservation.ca.gov">Rick.Wilson@conservation.ca.gov</a>