

Coastal Sediment Management Workgroup Meeting

November 16, 2016

Location: Coastal Commission, 45 Fremont St., 20th Floor, San Francisco, CA

DRAFT MEETING MINUTES

Attendees:

1. Mark Johnsson,
2. Chris Potter,
3. Anne Sturm,
4. Lesley Ewing
5. Joe Dux
6. Casey Caldwell
7. Jon Warrick
8. Jim Haussener
9. Clif Davenport
10. George Domurat
11. Pascale Soumoy
12. Patrick Barnard
13. Tom Kendall
14. John Dingle
15. Brian Baird
16. Other CCC folks....

ACTION ITEMS:

- Jon Warrick provide published paper on new techniques for aerial photos. Send to CSMW (Chris Potter).
- Contact Continental Shelf Workshop folks and request WebEx so that west coast folks can participate. (Lesley Ewing) **DONE** – **Webmeeting will be provided.**
- Check with David Cannon on status of talking with CSBPA board on RSM CA and State Implementation event/workshop (Chris Potter)
- Check with Brenda Goeden on schedule for draft revised document by end of calendar year. (Susie Ming)
- NSMS - George Domurat to put together a charge to the reviewers for Susie to send out this week. **DONE.**
- CSMW February Meeting - Brian Baird to look into space for CSMW meeting from 2 PM to 5 PM.
- BOEM Study Work Plan and staff recommendations – provide to group and upload on webpage or link to OPC – Jon, Chris, and Clif.
- DOPAA – Clif meeting with heather – Susie
- Talk to heather regarding funds for NSMS review by SF District and others – Susie and George
- Master Plan Implementation
 - Susie to Call Gerald Comati
 - Follow up with Brian Ross on email.
 - Send Clif Eureka Completed document. – John Dingle
- CMEX negotiation – Chris to follow up with Lisa (?)

Review of meeting minutes and action items from previous meetings

- J. Warrick - USGS expert continental shelf study in Kitty Hawk, North Carolina. Meeting was rescheduled to week after thanksgiving. Would be great to have west coast representative. POCs - Nicole Elko and Falk Feddersen.

Announcements (Brian Baird, George Domurat)

- **George Domurat – Discuss NSMS.**
 - IWR is working to get that completed and wants CSMW to do a final review. IWR's contractor will make all the changes.
 - White paper as addendum will be written (team) to where we go next that will also go to congress.
 - Schedule is to get the final out in the March timeframe. Need review done by end of January.
 - Follow up with a reminder in a month.
 - George will coordinate all comments.
 - Need economist – critical part of that report.
- **Brian Baird – There will be a film and lecture series 2017 – Feb 15th – Gary Griggs talk Climate Change/SLR and CA Coast. Typically do reception 5:30 PM and program at 6:30 PM. Would be a nice opportunity to hold the CSMW meeting that afternoon and stick around for film/lecture. Great facilities – Pier 35.**
 - Great idea – afternoon – doesn't pose a problem.
 - Do something with our meeting – with Gary Griggs?
 - Brian will look into space for CSMW meeting from 2 PM to 5 PM.
- **BOEM Study – Jon Warwick**
 - In the last few months they have secured funding for the BOEM study. BOEM funding the USGS and October OPC meeting approved matching funds from state of CA.
 - Can pass around work plan if you want to see one.
 - Narrowly defined study area. USGS process consultation/BOEM defined three areas of study.
 - 1 – SF littoral cell
 - 2 - Regional near OC/SD county lines (by San Mateo Point)
 - 3 - Area US Mexico Board and mouth of SD Bay
 - First year will include background info searches and dev map.
 - Identify cruise geophysics and core in coming years. Identify sediment deposits that exist and evaluate grain size/distribution/colors/relevant data. Sediment resources are potential suitable for use for coastal infrastructure.
 - We will be having an advisory group working with this – call it – Expert Review Panel – would like to ask some of CSMW would be part. Annual meeting – present results – look forward plans/where to go next. Feedback critical in development – feedback in the work and plans. Jon will be reaching out. If you want to be on the advisory group, please email/call Jon.
 - Discussions
 - Lesley – how much of the seafloor mapping would you be use?
 - Jono - essential database – all background literature work. Additional data sources – but that is the primary one. All sediment cores and grab samples that exist.
 - Jon would love to show updates along the way. Every 6 months.

- Clif would like a copy of the work plan. Send to Chris – send it out to CSMW. Can we put on our webpage too? Clif will work for a special page on the website – OPC website on there. Post a link to OPC meeting. Staff recommendations for the study - Chris.

October 4th CSMW workshops (David Canon)

- **MP Implementation Framework –**
 - S. CA – RSM complete
 - Did get a lot of input on SF Bay and SF Coastline
 - Afternoon – MP meeting only – implementation framework across the entire state.
 - How do we wrap up MP effort?
 - Sediment management activities list looking at projects/programs/studies/research efforts.
 - August activities list – final presented at the meeting. Some additional input. – 2 people responded with comments.
 - Contract expires end of December. Few more weeks to finalize that.
 - Implementation framework – outline structure – strategy to be developed in the future.
 - Draft/revised draft – circulated first September, second in October.
 - Army corps folks
 - Funding to finish plan
 - Funding to implement projects
 - Few ideas potential funding
 - OHD – parks tap into funding
 - Some more new corps
 - Pacifica folks – elected/staff
 - Concerned citizens from Pacifica
 - SB/Ventura - SLR to look at update RSM – see if that changes it.
 - Follow the same process – updated/programmatic/implementation approach
 - Actively seeking funds.
 - We can't go back to pt. zero for each RSM.
 - Communities – problem. Is that true??
 - May point need triage aspect in RSM that good no matter - RSM that make sense. Things look good – maybe SLR may affect do in the future. Things that look wrong with SLR.
 - Same thing E-SB – corps SLR
 - Implementation framework – consider
 - Successful focus of organization – focused program.
 - Still draft and not final

Presentation: Coastal Storm Modeling System: (Patrick Barnard)

- Roll out S. CA
- Facts – about climate change – there are simple facts and we need to be more outspoken as scientists. Not pull back due to rhetoric.
- Response time of glacier to warming – concern – 15M years 2 degrees tipping point of no return postulated.
- Less warming lower rates – 5m/century.

- Understanding ice sheet respond to warming – we'll have better info.
- Global SLR is accelerating 3mm/year
- Satellite – not spatial uniform controlled by many factors, ocean circulation, wind circulation, ice melt – high rate in west tropical pacific – strong westerlies. West coast of N. America relative suppression – spared by these rates. However, recent known to exist – very high rates – no change eastern pacific – no last 4 years sloshing back to eastern pacific. Rates in along our coast.
- Biggest El Niño – didn't produce a lot of local storm but our beaches in CA were severely eroded due to far afield storm affects?
- Dan Kane blue and green RCP. Median 1.5m end of 21st century. Upper end 95% percentile 2.5M. Uncertainty wide. Collective belief they are plausible.
- Same carbon emissions path – tracking above projects – 9 M more of SLR.
- Coastal vulnerability CoSMoS. Bathtub models under predict flooding hazards.
- Added other relevant (status/dynamic) physical.
- Coastal Storm Modeling System (CoSMoS). Physics based nm system for assessing coastal hazards.
 - Complete state coverage by 2018.
 - Pilot work in S. CA focused on outer coast. Conservative. Wave run-up. Simplified approach.
 - www.ourcoastourfuture.org (tool)
 - Uncertainty data layer – use for infrastructure range possible outcomes
 - SFO and Foster City –
 - Translating flood result into \$\$ and people. Affect policy decisions.
 - Jurisdictions, assets, hazard.
 - Hazard Exposure Reporting and analytics (HERA) – www.usgs.gov/apps/hera
 - Will have webinar. Socioeconomic impacts.
 - Report output and select communities
 - Translate – 2D flood maps to something that makes sense to people.
 - Based on zero population group.
 - CA population 5 times higher – social scientist – not realist to do linear prediction. We can now see order of magnitude at a high level.
 - SoCal – CoSMoS 3.0
 - TWL
 - SLR
 - Tides
 - SLA
 - Waves
 - Storm surge
 - River discharge
 - Important in SD – increase with coastal storms on top of SLR.
 - Hold the line and no nourishment.
 - 97-98 more bulk wave energy than 10-11
 - 82-83 direct hit S. Ca – 97-98 – bay area; 10-11 N. CA; 5-16 – further north. Migrating poleward. Trend during el-Niño.
 - Wave approach. No southern anomaly. Waves gigantic. Far field wave not the local storms.
 - Shoreline projects – Ventura pier
 - Projections –
 - Cliffs – long term morphodynamic change – how much wave energy
 - Artificial Neural Networks uses machine learning. Pat Limber (sp?)
 - Projects – Cliff top communities' vulnerability cliff retreat.

- SD County ground zero. And LA County.
- Have to think about storms – future vulnerability.
- Vertical land motion
- http://walrus.wr.usgs.gov/coastal_processes/cosmos/socal3.0/index.html
- Hurricanes predictions –
 - Historically few hurricanes with climate change is great probability.
 - Will it dwarf extratropical storms?
 - Limited understanding
- Groundwater Impacts
 - Inundation
 - Shallower coastal groundwater
 - Saltwater intrusion
 - Limited coastal well data
- Juliette hart to do community outreach – workshop tomorrow in SD. Managers and consultants LPP updates. Webinars for all the counties as well.
- EPA funding - ??
 - Anybody’s guess.
 - EPA supporting Puget sounds – funding source
 - All support CA – different agencies
- XBeach – nearshore transformation model – not long term – just storm response model. 2-3 days of a storm.
- Questions
 - Is there a profile view? We do have those plots – talking about whether those plots. CCC interested.
 - Telling the story more – storm same magnitude – go back up that - show inundation/flooding – current day – 100 year event – translate future to 50 year event.
 - Scenario – how wet it gets – inundation – more frequently future - \$\$ in damage calculations. Has been there attempt to use this tool the corps with economic coastal/flood damage. Can you see it being applied that way??
 - Haven’t gotten into that yet. Looks at probability.
 - Next translate to impacts. Not done that.
 - Chat more.... Data there to do it.
 - Scenarios w/nourishment – what did you use? Grain size? Volume?
 - Rate positive.
 - Historical nourishment scenario – didn’t effectively look at nourishment scenario.
 - Assumption historical rate – function of nourishment. Assumption historical rate partially driving the future projections.
 - Lots of management scenarios that could be done. – Future more work.

Federal updates and announcements

- **USACE, LA District**
 - IWR - Oil Piers 227 – trying to get some federal fund to review our current documents and determine our next steps. Federal – will look at private/public partnership.
 - Malibu Draft Report IFR is estimated to be out for public review by end of this calendar year.
- **SF District**

- Desperately look to staff up. Short staffed in tom's planning branch. Need a water resources - lead planner.
- Trying small coastal project in CA - \$15M or less – CAP – partnership – now be done production out of group SPN – Mark Biermann heads up. CAP Production center – currently Sausalito.
- SF District will move next year to 450 golden gate (Nov 2018).
- BCDC will be moving to be with ABAG in July. Near temp bus terminal eel street?
- IWR – brainstorming about pillar point... talk with George.
- George – SAGE – branch breakwater SAGE demonstration project. Report in Suisun bay. Muddy shoreline – grow vegetative. Part of old 227.
- Ocean Beach sand – has issue – can't start implementation phase – need PPA City/County managed PUC. Model – there is several issues City lawyers can't agree to. Substantial deviations go back to HQUSACE/ASA. Chance will not agree to deviation. CEQA issue – of that template way language formulated cost the city commit to. Charter to commit fixed number. Language PPA if project goes over and how excess funds to be shared. They can't do that.
- They feel they can't commit city to construction until CEQA is done. They haven't done CEQA – divide it up. Two PPA for design and one for PPA for construction.
 - News... SF District - Arjis – attorney little more optimistic.
- **USGS**
 - West coast LIDAR posted – NOAA digital coast.
 - Jon – process of getting new science center chief – interviews – bob rosenbauer is stepping down. CSMW to reach out to us encourage USGS involvement. Hold a meeting at your locations – think those type... fantastic. Love to host or bring new chief up.
- **NPS**
 - Ocean Beach back passing next week until December. Sand n. end of beach near toward stairwell 28. Focus on hotspots.
 - More this time 85-90,000 cys.
 - Is there a map of where that will be placed – will get it.
- **USEPA**
 - Brian Ross wants to talk Humboldt situation – Clif - he was in contact – designate disposal site facilitate nearshore placement. Inside the bay?? Not sure.
- **IWR**
 - Gain greater influences in the area. Working nature conservancy – nature based solutions – intro SAGE. Working SF District – doing more in CA and up/down west coast.
 - Initiating new program – start with HI – ROCC – Rising Oceans Changing Coastlines. Tool to be used by that program.
 - Who at Nature – Kelly – Sarah Newkirk?

12:00 State updates and announcements

- **Clif**
 - Website – fairly significant changes are coming– webpages to be reformulated into Parks website format.
- **State Parks-DBW**
 - Reorganization plan anticipated in January 2017. We can still take input if you have any thoughts on how Parks/DBW could work better, improve administrative practices. Last call!! Send stuff to Casey.
- **Coastal Commission**
 - Monterey harbor dredging

- Removal of marine oil terminal pipeline – proposal rock/pipeline and keep the groin there. We recommended that just remove it. Find and went to consent.
- Goleta seawall – not so simple – objection – buried. Equipment and trash/maintenance not being done right – why should we do geobag. Commission approve on split vote.
- SEL Restoration – this month. Dredging 856,000 cy. Discussion on where to put it. Some going on Cardiff State Beach. Too much for the beach – propose restore/stockpile borrow pits for SD RSBP – storage come back and take it out. Complicated ecologically. See how commission feels about it. CDP SEL Foundation/Conservancy. Staff Report should be out soon. First mailing this Friday. Xxx Cardiff; 146,000 fletcher cover – SO-6 borrow site. Coming restoration project – contaminated sediments – SEL sewage depository/receptor – most have to be removed. Dig pit entrance area – near Railroad Bridge – excavate clean sand and then put cover with clean – sand to beach areas.
- CMEX negotiation – Chris to follow up with Lisa (?)
- Oceanis Condominium Reef – emergency permits – final follow up permit.
- ASBPA nearshore stuff will be webcast – Lesley
- Patrick McLaren sediment transport webcast – STA?? Open up to this group. More push STA. Looking Canada – characteristics of sediment determine without knowing waves. Talked with SC-DMMT. Didn't mention CSMW – he did present years ago.
- Talk about surfer's beach and half moon bay. – Next meeting topic?
 - Chris OPC provided \$75K harbor district so they can do some of the planning work for that project. Pay for brad Damitz. Sanctuary board – letter to OPC. DBW for project itself funding.
- **CMANC, Cal Coast**
 - SF Governance – coordination effort at BCDC yesterday – further discussion \$200K grant Env. Assessment.
 - Ended place programmatic approach 6 priority areas in littoral cell all within Pacifica. Limited Daly city – SF City have things covered SLR update Env. Have to confirm that – Chris.
 - One CCC – Nancy K. - Shannon. Follow up - ???
 - Input from David that 5 sites are reasonable expectation. Impacts of solution or baseline??
 - Another meeting in December – potential. Interested offshore reefs.

Confirm date, location, and agenda for future meetings

- **Dates and topics for future CSMW meetings (Chris Potter)**
 - December - telecon
 - January 18th – telecon
 - February 15th– meeting in person conjunction with Brian's meeting SF

12:30 Adjourn