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GULF OF MEXICO UNIVERSITY RESEARCH COLLABORATIVE

Gulf Restoration Science Workshop: Principles and Actions for Implementing Best Available Science

Larry McKinney, GOMURC Board chair, Harte Res. Inst. August 12, 2013

Outline

- Who?
 - Audience and participants
- Why are we here?
- What will we do?
 - Workshop purpose, objectives, outputs





Who?

Target audience:

- Ecosystem restoration programs
- Stakeholders-- restoration practitioners, scientists, managers and decisionmakers.

Participants:

- GOMURC university consortium
- Funding from Walton Family Foundation
 - WFF leads Gulf Renewal Project (NGO coalition)
- Reps. from ecosystem restoration science programs (invited leads or designees)
- Speakers (selected by Organizing Committee)



- RESTORE Act: Best Available Science (BAS) "(A) maximizes the quality, objectivity, and integrity of information, including statistical information; (B) uses peer-reviewed and publicly available data; and (C) clearly documents and communicates risks and uncertainties in the scientific basis for such projects."
- BAS principles should apply to all ecosystem restoration programs





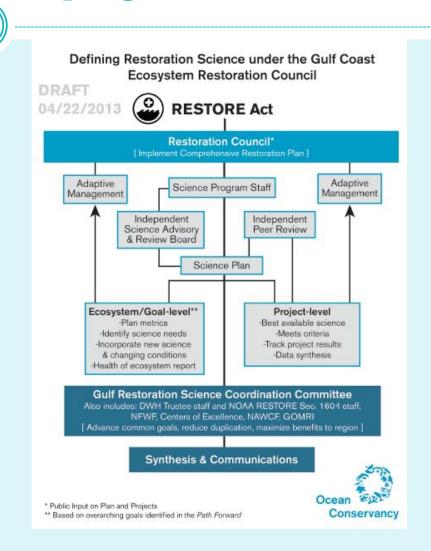


Human Health: NAS, RA1603, RA1605

Energy Safety: NAS, RA1605

How do we coordinate a regional ecosystem restoration science program?

- Collaborate with stakeholders to determine (e.g., OC recommendations to GRC)
- Build on regional restoration examples (e.g., talks this am)
- Sustain for life of Gulf restoration effort (longterm action plan)



Restoration Example— ERP Lake Hermitage Marsh Restoration (\$13.6M, part of 20 year effort for \$38M by LA CPRA)

- Create 104 acres of brackish marsh in lieu of earthen terraces— actions:
 - Dredge sediment from borrow area in MS River,
 - Pump via pipeline to site
 - Natural dewatering and compaction of dredged sediments result in elevations within the intertidal range conducive to emergent marsh
 - Plant native marsh vegetation to accelerate new marsh creation.

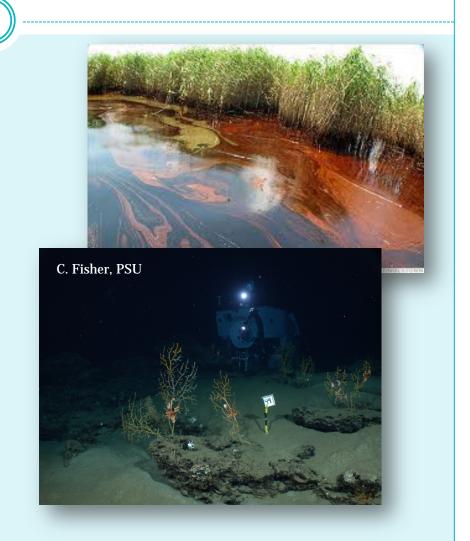
SCIENCE ROLES:

- 2011-2014: project
 review/selection; EIS
- 2013-14: **baseline** surveys of new site, borrow area, pipeline route; **assess** quality of fill
- 2015: **implement** dredge/fill new site
- 2015-2017? monitor compaction; pre-planting baseline
- 2018-20: planting, monitor,
 adapt
- 2015, 2020: **synthesize**, report

What?

Workshop Goals:

- Promote collaboration of DHOS restoration science programs and stakeholders (restoration practitioners, scientists, managers and decision-makers).
- Define and propose mechanisms for BAS integration
- Propose mechanisms to sustain collaborations

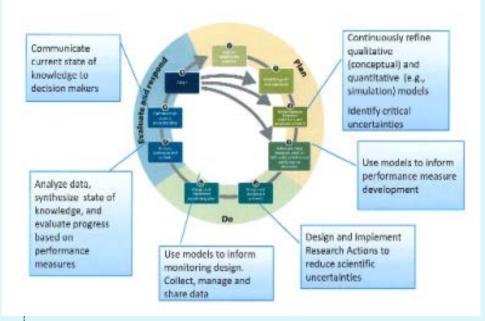


What?

Objectives and outputs:

- B1-- guiding principles for integrating BAS
- B2-- priority short (1-5 years) and long-term (6-30 years) actions to sustain BAS integration and obstacles to implementation
- B3- engagement actions and strategies to foster collaboration

Science Supporting AM



CO Delta Stewardship Council

Speakers



- <u>Greg Steyer, USGS:</u> GCER Task Force Science Assessment and Needs:
 - What is science-based restoration and adaptive management?
 - Actions/potential obstacles to integration of Science plan in support of restoration programs



• Robert Johnson, NPS: Coastal restoration program— Everglades Restoration Comprehensive Plan (http://www.evergladesplan.org/); Guiding principles for science-based restoration; activities, obstacles, and organization in support of science-based restoration and adaptive management; activities to engage stakeholders



<u>Pete Petersen, UNC-CH:</u> Ocean (including deep water and pelagic environment) restoration program-- Overview of EVOS Comprehensive Plan (http://www.evostc.state.ak.us); same elements as Johnson

Questions?

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