



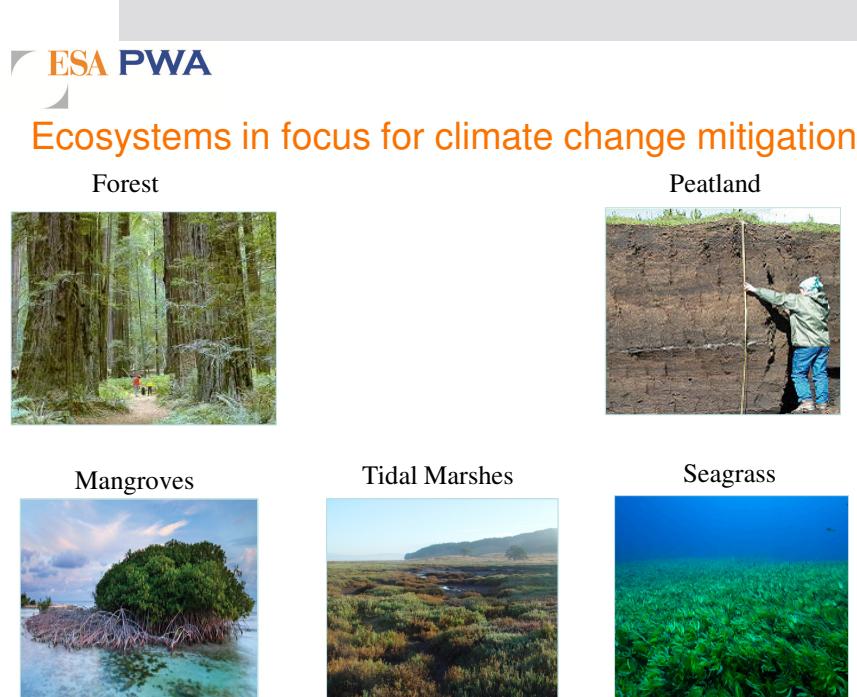
Science Working Group,  
IPCC and Tidal Marshes

Stephen Crooks Ph.D.  
ESA PWA

Updates from the Scientific Working Group and  
other Relevant Science & Related Activities

International Blue Carbon Policy Working Group  
*July 10<sup>th</sup> 2012, Guayaquil, Ecuador*

 **ESA PWA**



 **ESA PWA**

**Ecosystems in focus for climate change mitigation**

Forest



Peatland



Mangroves

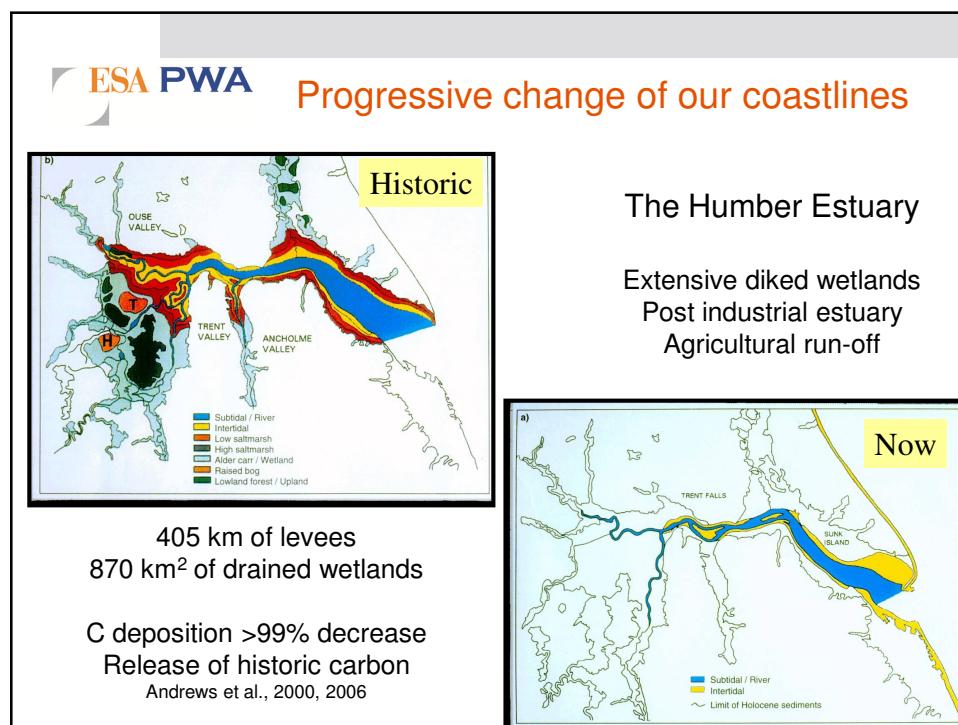
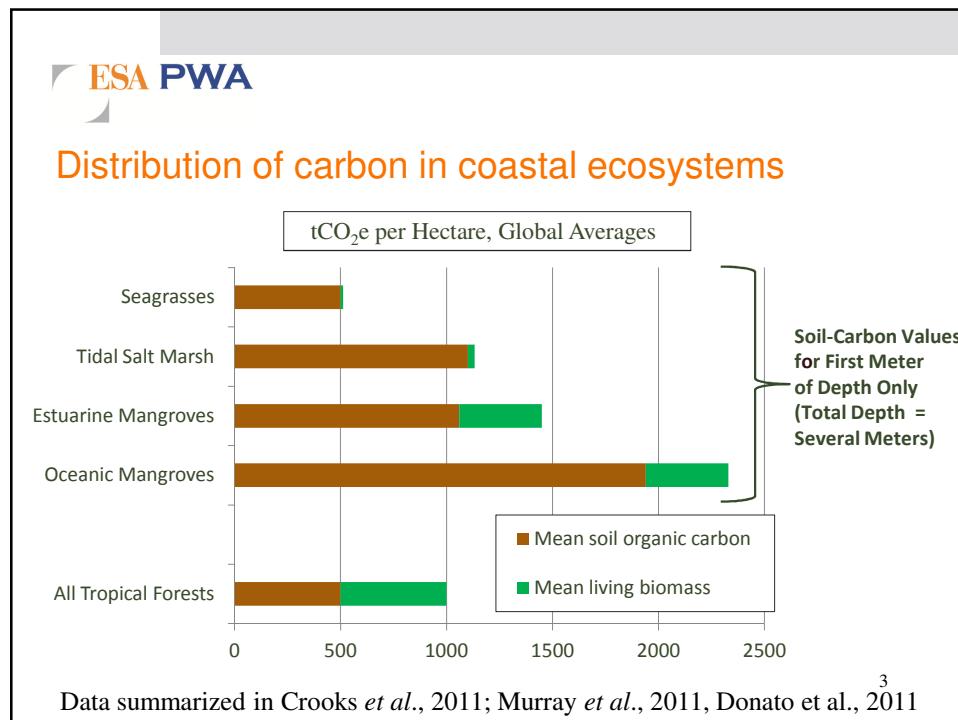


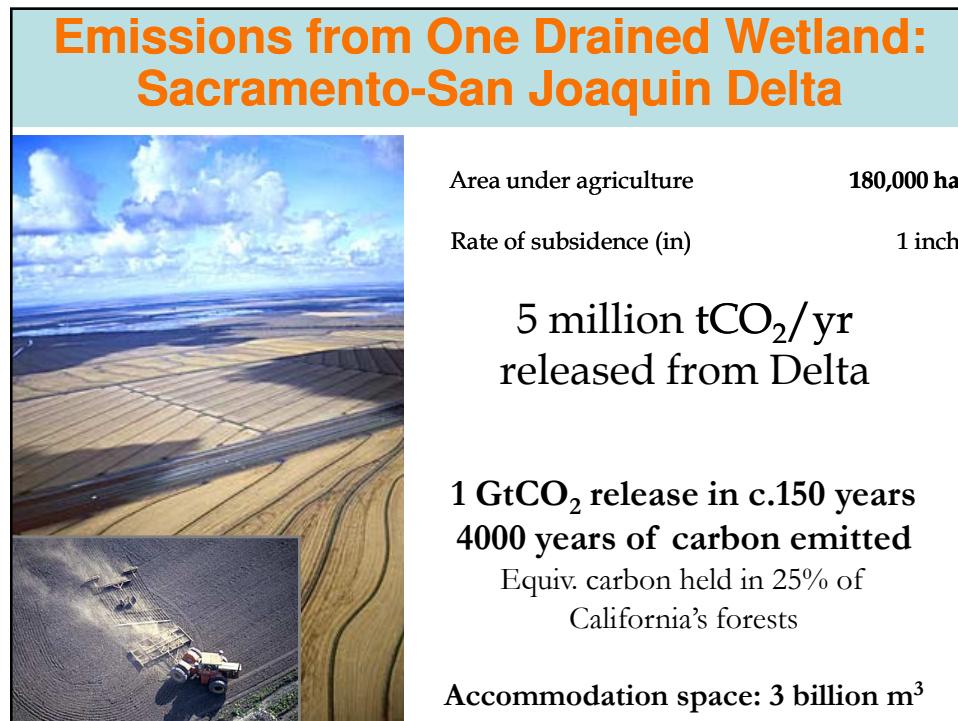
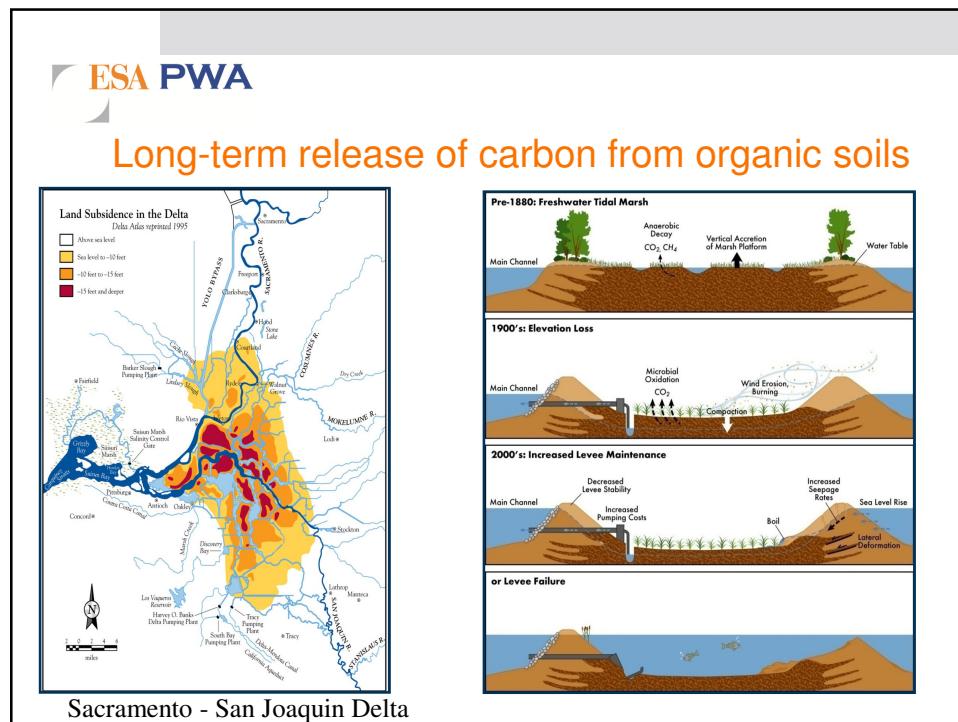
Tidal Marshes

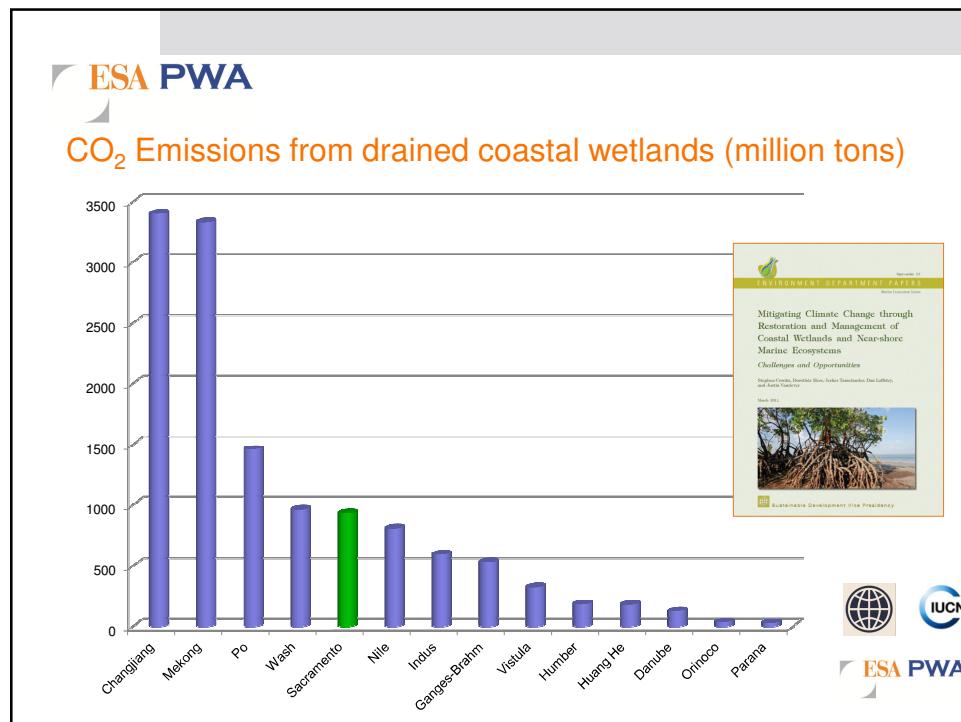


Seagrass









**ESA PWA**

### International Blue Carbon Scientific Working Group

**Near term**

- Science – consolidate and initiate
  - New tools
- Support of IPCC
  - Wetlands GHG national accounting (update 2013)
- Global Coastal Carbon Data Archive
  - Development of emissions factors
- Guidance documents
  - Field data collection
  - National assessment
- Inform developing policy

**Long term**

- Scientific guidance
- Global network development
- Demonstration and publication

**ESA PWA**

## International Blue Carbon Scientific Working Group

### Other Activities

**International Academy for Nature Conservation, Vilm Germany (Oct 2011)**

Verified Carbon Standards

- Requirements (Due Oct 2012)
- Methodologies (ongoing)

Briefings (examples)

- EU Science Panel
- EU – India Environment Forum
- US Federal Agencies
- COP 16, 17.

- Research

Cordula Epple

The climate relevance of ecosystems beyond forests and peatlands – A review of current knowledge and recommendations for action



**BfN**  
Federal Agency  
for Nature  
Conservation

BfN-Skripten 312  
2012

UNEP WCMC

**ESA PWA**

## International Blue Carbon Scientific Working Group

### Other Activities

International Academy for Nature Conservation, Vilm Germany (Oct 2011)

**Verified Carbon Standards**

- Requirements (Due Oct 2012)
- Methodologies (ongoing)

Briefings (examples)

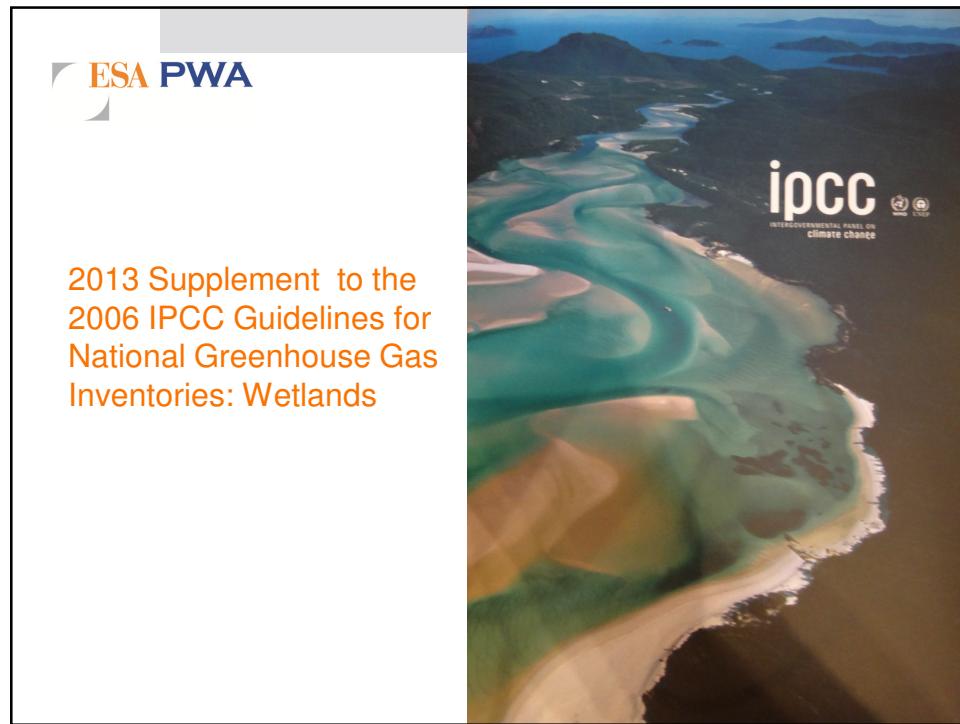
- EU Science Panel
- EU – India Environment Forum
- US Federal Agencies
- COP 16, 17.

- Research



Agriculture, Forestry and Other Land Use (AFOLU) Requirements

VCS Version 3  
Requirements Document  
1 February 2012, v3.2



**2013 Supplement Outline**

OVERVIEW

1 - INTRODUCTION

2 - CROSS-CUTTING GUIDANCE ON ORGANIC SOILS

3 - REWETTING AND RESTORATION OF PEATLANDS

4 - COASTAL WETLANDS (organic + mineral)

5 - OTHER FRESHWATER WETLANDS (mineral)

6 - CONSTRUCTED WETLANDS – Wastewater Treatment

7 - GOOD PRACTICE AND IMPLICATIONS FOR REPORTING

Annexes

Appendices



## Ch4: Coastal Wetland Sections

- Coastal wetlands with modified hydrology
  - Aquaculture, impoundments, sediment diversion, nutrient enrichment
- Drainage of Coastal Wetlands
  - Arable agriculture, settlement, hydrological barriers,
- Rewetting of Coastal wetlands
  - Restoration management, creation activities



Table 1 Work Plan for 2013 Supplement

Date	Action	Comment
May 2011	IPCC 33	Plenary approves ToR, Chapter outline and this work plan, guidance to authors
June – Aug 2011	Call for Nomination of Authors	IPCC invites nominations for authors and Review Editors from Governments and International Organisations.
Aug 2011	TFB select Authors	Selection by TFB considering expertise and geographical coverage, (The IPCC Bureau will be informed.).
Nov 2011	1 <sup>st</sup> Author Meeting	To develop zero order draft
Feb 2012	2 <sup>nd</sup> Author Meeting	To develop first order draft for review
Apr – May 2012	1 <sup>st</sup> Expert Review	8 weeks review by experts
July 2012	3 <sup>rd</sup> Author Meeting	To consider comments and produce second order draft for review
Oct 2012	Literature cut-off date	Only papers published before this date will be considered
Oct – Nov 2012	2 <sup>nd</sup> Expert & Government Review	8 weeks review by experts and governments
Feb 2013	4 <sup>th</sup> Author Meeting	To consider comments and produce final draft
April – May 2013	Government Consideration	Distribute to governments for their consideration prior to approval (at least 4 weeks prior to the Panel)
2013 (tbc)	Adoption/acceptance by IPCC 36	Final draft submitted to IPCC Panel for adoption/acceptance
Oct 2013	Distribute Guidelines	Distribute document to governments and Parties to UNFCCC (before SBSTA39 in December 2013)



**ESA PWA**

## Tidal Wetlands: Activities

- Model development
  - Coastal wetland response to SLR
  - Marsh carbon sequestration: Coupled sedimentation, carbon production by biomass, below ground decay
  - CO<sub>2</sub> emissions from drained soils
- Science
  - GHG emissions
  - Catchment level carbon budgets
  - Links between N loading and GHG's
  - Rapid C sequestration on managed reed beds (FWTM)
  - NSF proposal – tidal wetlands in global C cycle

