Session 5: Parallel session on Marine Ecosystems
Introduction
Michael Bordt

2019 Forum of Experts on SEEA Experimental Ecosystem Accounting

Glen Cove, NY, 26-27 June 2019

Overview

- **Introduction**
    - > Update on ESCAP and related activities

- **Country presentations:**
    - > Samoa (Mose Topeto) Samoa's Ocean Accounts Pilot
    - > UK (Rocky Harris) Defra's Marine Natural Capital Accounts
    - > US (Anthony Dvarskas) Update on Long Island coastal bays pilot
    - > Australia (Amanda Clark) Review of ABS GBR Accounts

- **Technical presentations**
    - > Roger Sayre: Update on Coastal Marine Units
    - > Michael Bordt: Ocean Accounts Framework overview and selected issues

- **Smaller group discussions**
    - > SEEA-EEA in a broader context (economy, linking SEEA-CF, SDG14)
    - > Short list of marine ecosystem types
    - > Others? Social dimension, condition metrics, policy applications

- **Group reports to plenary**

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ESCAP and related activities

- **Global Ocean Accounts Partnership (GOAP) official (with UNSW)**
  - > Initial invitations being sent to selected partners now

- **Ocean Accounts Framework Technical Guidance**
  - > Zero Draft for consultation end July; Final in December 2019

- **Pilots in progress in:**
  - > ESCAP supported: China, Malaysia, Samoa, Thailand, Viet Nam
  - > Applying framework: Canada, Australia? South Africa? UK?

- **Second workshop focus on pilots, partnerships and guidance**
  - > Suggested title: *Global Dialogue on Ocean Accounting for Sustainable Development*
  - > Save the dates for Sydney Nov. 12-15 at end of July
  - > Possible collaboration with Gov. of Australia, High Level Panel, WB

- **Training materials developed and online (including fun group exercise):** http://communities.unescap.org/node/1144/view

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ESCAP pilots

- **China (Led by 4IO – Fourth Institute of Oceanography)**
  - > Mapping mangroves in Beihai Bay (drivers, condition, values)

- **Malaysia (Led by Department of Statistics, Malaysia)**
  - > Ecosystems of Malacca Straits (sources of pollution, services)

- **Samoa (Mose to detail; Led by SBS and Samoa Tourism Authority)**
  - > Sustainability of Tourism industry (needs and impacts)

- **Thailand (Led by Thai NSO and Ministry of Tourism & Sport)**
  - > Sustainability of tourism in Andaman provinces (needs and impacts)

- **Viet Nam (Led by ISPONRE)**
  - > Land-based pollution, tourism and ecosystem impacts in Quang Ninh province

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Canada pilot (joint StatCan, DFO)

- **Focussing on national Extent, Condition and Service Supply and Use**

Extent:
- **Structure:** Bathymetry, sea knolls and mounts, Roughness, aspect, slope
- **Ecosystem:** Kelp, seagrass, cold water coral, sediment, permanent ice cover
- **Use:** Protected, oil rigs and exploration, aquaculture sites*, shipping routes*

Condition:
- **Water quality:** SST, salinity, oxygen, nitrogen, other chemical lev... an... ma...
- **Bio...** ma... inv... sto... health of shellfish grounds
- **Human interventions:** Changes in human usage, marine spills, sewage treatment levels, pollution released to water, SARA incidents, plastic pollution*

Services:
- **Landings:** Commercial fish, non-commercial fish, spatial
- **Communities:** communities where fishing activities account for at least 20% of employment income in 2016, and population change since 2006

Example: May 23, 2017 a Sea Lion pulled a four year old girl into the water at Steveston Dock. Signs and public education programs have since been initiated by DFO to educate the public on the dangers of feeding wild marine mammals.

(MB: No update on the girl.)

* Data being researched

SARA = Species at Risk Act

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Canada pilot

- **Data sources**
    - > Sub-national, national and global (including US data)
    - > Many gaps and differences in methods & detail; little metadata
    - > From many departments and programs → making contacts
    - > Ocean Accounts could provide basis for interdepartmental data sharing

- **Activities (6 months)**
    - > Inventory and compile data and maps
    - > Compare condition variables and research into scientific literature
    - > Collaborate with Fisheries and Oceans on Blue Carbon (eelgrasses)
    - > Publish selected outputs in Human Activity and the Environment 2020

* Data being researched   SARA = Species at Risk Act

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Questions & Thank you

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