

FINAL

SUMMARY REPORT HABITAT PROTECTION AND ECOSYSTEM-BASED MANAGEMENT COMMITTEE

Cocoa Beach, Florida

June 13, 2016

The Committee met June 13, 2016 and addressed the following: A status report on FEP II development and timeline, followed by three Technology Sessions: First an *Ocean Technology Session* included presentations on: The Next Generation AUV, Toward Autonomous and 3D Mapping, ROV Advancements and Acoustics, and Unmanned Aircraft Systems (Drones) as Tools in the Ocean. Second a session on *Ocean Investment and Collaborative Sustainability- the Emerging Role of Citizens, Business, Non-profits, and Government in Conservation*. The third session highlighted *Applying Emerging Technologies and 21st Century Data Gathering and Presentation* including presentations on: iAngler Tool and Smartphone Technology, SAFMC Habitat /Ecosystem Tools, and Rutgers Ocean Adapt Climate Tool.

Fishery Ecosystem Plan II Status Report Roger Pugliese and Brett Boston, GS Inc. provided an update on the continued development and timeline for Fishery Ecosystem Plan II.

Ocean Technology Session included three industry/partner presentations highlighting cutting edge new technologies including: the *Next Generation AUV* by Ken Childress with Ocean Area on the capabilities of the wind and solar driven Sumaran AUV; *Toward Autonomous and 3D Mapping* by Jon Robertson with Teledyne Marine focused on the advancing range of mapping systems available for small vessels to AUV to unmanned systems and the high end 3D product created; *ROV Advancements and Acoustics* by Dr. Laurent Cherubin with Harbor Branch Oceanographic Institute focused on advances in ROVs and high resolution acoustics system; and *Unmanned Aircraft Systems (Drones) as Tools in the Ocean* by Dr. Patrick N. Halpin with Duke University completed the session highlighting advances in UAS or “Drones”.

Ocean Investment and Collaborative Sustainability - Emerging Role of Citizens, Business, Non-profits, and Government in Conservation - Brett Boston, Executive Director of the Fish and Wildlife Foundation of Florida provided a perspective on Foundation supported activities advancing ocean literacy, fisheries research and the direct engagement of the public sector in Citizen Science.

Applying Emerging Technologies and 21st Century Data Gathering and Presentation Brett Fitzgerald with the Snook Foundation provided an overview of mobile reporting through the iAngler Tool and other Smartphone Technology. Roger Pugliese, SAFMC and Tina Udouj, FWRI highlighted continually development of SAFMC Habitat /Ecosystem Tools. Jim Morley, Rutgers University provided an overview of the Ocean Adapt Climate Tool.

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The Committee voted on the following motion as a recommendation to the Council:

MOTION #1: Direct staff to provide executive summaries of the new climate variability and food web and connectivity chapters and draft policy statements in advance of the September Council meeting for discussion at that meeting.

APPROVED BY COMMITTEE

APPROVED BY COUNCIL

TIMING AND TASK MOTION:

- FEP II Food Web and Connectivity and Fisheries and Climate Variability Sections and associated team policy discussions be completed for review at September Council Meeting.
- Staff coordinate participation in a technology test bed engaging Ocean Area and Submaran AUV, Teledyne Marine and SCDNR/SEAMAP/MARMAP for a potential late July test bed off Charleston, SC.

APPROVED BY COUNCIL