

Coastal Alaska Observing System (CAOS) Consensus Workshop

21-22 April 2003
Anchorage, Alaska

Minutes

I. Introduction

Members present include:

- P. Armato, National Parks Service/UAF
- J. Banta, PWS RCAC
- R. Bechenek, EVOS TC
- Two Crow (aka Jim Schumacher), Two Crow Environmental Inc.
- G. Freitag, SSRAA
- R. Foster, Kachemack Bay Research Reserve
- S. Hankin, NOAA/PMEL
- D. Kiefer, System Science Application/USC
- R. Klein, DEC
- A. Macklin, NOAA/PMEL
- M. McCammon, EVOS TC
- B. Megrey, NOAA/AFSC
- P. Mundy, EVOS TC
- D. Musgrave, University of Alaska Fairbanks
- B. Pawlowski, Thales Geosolutions (Pacific), Inc.
- R. Potter, University of Alaska Fairbanks
- G. Sheehan, BASC
- V. Wespestad, Pollock Conservation Corp.

a. Introduction and Welcome-D. Musgrave

Introduction of attending invitees. Review of goals of the Workshop, Products and Agenda. Overview of Design and Implementation Plan for CAOS.

I. Identify Discussion Items for CAOS

- a. Identify user products and map out variables to make this happen. Create a list of variables and rank by impact and feasibility. Discuss top ten variables in greater detail.
- b. From these figures, identify the sub goals and who will be able to take advantage of this.
- c. Suggested to approach users groups at their place of business, meet in small groups and inform them of the various components. From this, identify the greatest needs and specifically target those individuals.
- d. Suggested to have representatives from these high-need agencies to serve on the various committees. They would be serving their purpose as well as the program is growing and evolving within the user community.

- e. Find some local sites that are already populated (i.e.-PORTS site, SIMS, EVOS, ADGC, Clearinghouse) and up and operational and use their existing portholes.
- f. Discussion of the 2 proposals; Organizational and Pilot Program.
 - i. Organizational-peoples operation
 - ii. Pilot Program-data management and infrastructure
- g. Suggested getting a clearinghouse put together under CAOS to make it the most marketable.

II. Proposal to NOAA – due May 30

Awards will be made in two categories: admin and pilot project.

1) REGIONAL OBSERVATION SYSTEM COORDINATION

Admin category (2 to 5 grants at \$20K-50K)

- User input (would include travel), User Outreach Team
- CAOS director
- Administrative support

Engage stakeholders to develop collaborative partnerships among data collectors, data managers, and users of data and information.

- a) Articulate an approach to identify stakeholders and educate them on benefits of CAOS – CAOS workshop for data providers and information users.
 - i) Stakeholders to be identified by User Outreach Committee
 - ii) Web-oriented questionnaire to identify stakeholders’ requirements
 - iii) Two-day meeting for stakeholders with an additional day for DMAC and User Outreach. Attendees designated by User Outreach Committee \$50K
 - iv) Format of meeting or road show developed in response to questionnaire responses
- b) Develop concepts and partnerships from results of meeting
 - i) Road show or web site that travels to stakeholders offering CAOS solutions \$15K

2) REGIONAL COASTAL OBSERVATION SYSTEM PILOT PROJECT

Operational category (1 or 2 grants at \$250K to \$500K)

(matter of strategy. NE is probably first in line. Will there be enough \$ left for a second grant? Is CAOS the appropriate recipient of a second grant in this category?)

- Data management and communications, especially with respect to User Outreach (RCACs of Cook Inlet and Prince William Sound) (user base: oil spill, search and rescue, salmon fishery management, marine transportation: trajectory analysis using CODAR, FATE and other moorings, SAR winds, KBRR stations, etc.). Need to include Hazmat folks.

- Circulate planning information from users (institutes, agencies, etc.) as one of the types of information served by CAOS; promotes efficient use of new platforms, observing systems
- Platforms that would disappear without \$ support

Pilot Project

- a) User identification and coordination – see plans above for admin project, but on minor scale
- b) Data integration and management
 - i) Furnish 6-10 data providers with software and expertise to serve information through OPeNDAP protocol \$25K
 - ii) Acquire a PC server and install EASy \$5K
 - iii) Provide data to analysts for product development \$?K
 - iv) Serve and archive data and products (labor) \$20K
 - v) Travel \$10K
 - vi) System administrator \$80K

Proposal to go through EVOSTC or UAF

Pilot Project:

1. Target area: northern Gulf of Alaska; probably Lower Cook Inlet (including Katmai) and east to Long Range CODAR.
2. Letters of support. (At proposal deadline under separate cover)
 - a. USCG
 - b. RCAC
 - c. Alaska Volcano Observatory (John Eichelberger)
3. Matching \$\$
 - a. Members of Governance Committee
 - b. MMS
 - c. Oil Producers
 - d. Alaska State
 - e. USCG
4. Contact
 - a. Call NOS Violet Legette 843-740-1222 violet.legette@noaa.gov
 - b. Dave Eslinger (NOAA Coastwatch) 843-740-1270

- c. Mark Bushnell (NOS)
- 5. Contacts for real time observations (need to focus with max 4)
 - a. Alaska Weather Service (Anchorage)
 - b. Alaska Coastwatch
 - c. SFOS (satellite: AVHRR, Modis, Seawifs, Topex/Poseidon)
 - d. AVO (seismicity)
 - e. NDBC (Weather Buoys, CMAN)
 - f. NOS (CODAR, ADCP,HAZMAT, Tide Gauges)
 - g. KBRR (Dockside CTD, mooring with CTD)
 - h. PMEL (Stabeno: Drifters, moorings)
 - i. SFOS (CODAR, Chiswell Mooring)
- 6. Models
 - a. Tidal models
 - b. Hazmat
 - c. SFOS Circulation model

7. Time Line

Governance Committee Issues

- 1. Proposal through EVOS TC/UAF/KBRR?
- 2. Who writes proposals?
- 3. Organization: Hocutt, McCammon, Foster, Megrey/Macklin
- 4. Pilot Project: Two Crow, Musgrave, Foster, Pawlowski, , Armato, Macklin & Megrey, Kiefer, Schoch, Mundy
 - a. Others: Mears (NOAA Hazmat), Banta, Saupe
 - b. Matching dollars?
 - c. Eddie or Doug? Call NOS Violet Legette 843-740-1222
violet.legette@noaa.gov
- 5. Approaches for letters of support

II. CODAR Slide Presentation-D. Musgrave

III. Presentation by Dale Kiefer of System Science Application/USC-EASy Netviewer-GIS Web Server

- a. Web enabled EASy GIS application with Network Plug-in
- b. Deploy multiple GIS applications from single server
- c. Clients access with web browser
- d. Functionality: full data simulation, data export download, conferencing
- e. GMBIS Info System Design

- f. Examples of upwelling features from CALCOFI Data
- g. Ocean Thermal Imaging & Peruvian Pelagics
- h. GhostNet Project: develop a system for finding drift nets in AK waters
- i. Involvement in other Consensus projects: Tagging of Pacific Pelagics (TOPP)
- j. HOPAS Computer Program
- k. GhostNet architecture

IV. Group Discussion

- a. Ranking top ten variables and identifying the user groups. Modify existing list to reflect changing views. (*see attached variable charts*)

V. DMAC Steering Committee Meeting and Report-A. Macklin, NOAA/PMEL

- a. CAOS Data Management & Communication Steering Committee-First meeting, April 22, 2003, Anchorage, AK
- b. S. Hankin (IOOS DMAC Chairman)suggests that AOOS DMAC should work at the regional level, cooperate at the national level, and to consider avenues for CAOS to be data discovery, data access and online browsing.
- c. Purpose and objective of DMAC and its steering committee, goals and objectives:
 1. Solicit info from data providers and end users from which to develop a conceptual design for data management and communications,
 2. Define goals in terms of functionality CAOS DMAC will provide to data providers, end users, and product developers,
 3. Define the formal requirements for the DMAC infrastructure for CAOS,
 4. Provide a set of standards and protocols,
 5. Integrate seamlessly with IOOS
- d. Suggested Present membership in DMAC: Bernard Megrey (NOAA/AFSC), Allen Macklin (NOAA/PMEL), Rob Bochenek (EVOSTC), Buck Sharpton (UAF), and Shari George (UAF). More members will be added to represent the stakeholders and disciplines of AOOS.
- e. Potential DMAC contributions to announced NOAA RFP:

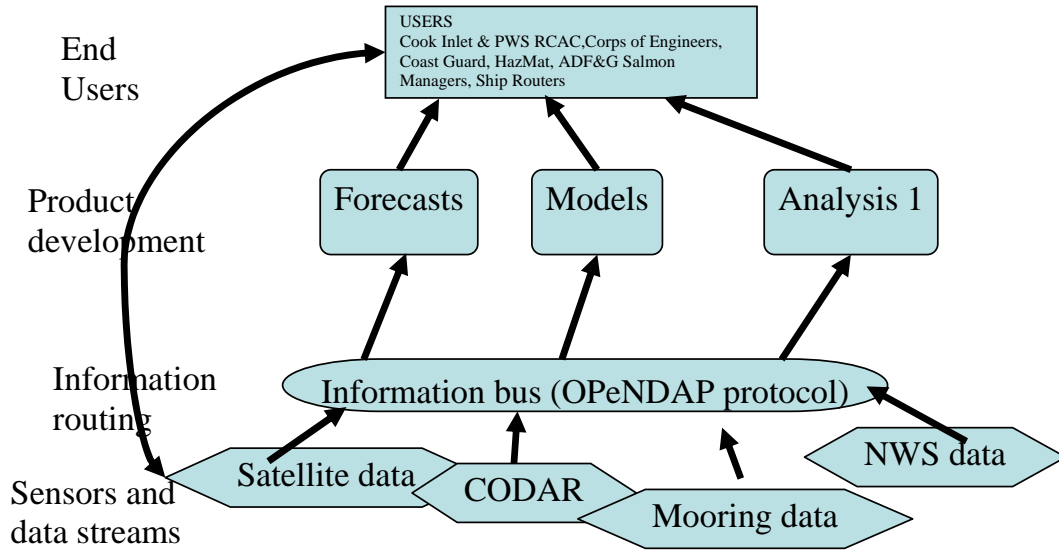
Infrastructure:

1. Infrastructure: Engage stakeholders to develop collaborative partnership among data collectors, data managers, and users of data and information
articulate an approach to id stakeholders and educate them on benefits of CAOS-CAOS Workshop for data providers and information users. Develop concepts and partnerships from results of meeting. \$65K
2. Pilot Project: User identification and coordination; data integration and management. \$145kK

VI. Q&A of DMAC Steering Committee Session

- a. Need to call and find out exact NOAA funding amount.
- b. Need to bring up with the Governance committee about who is going to help with partial cost for proposal (matching)?
- c. D. Kiefer-Pilot Project Organizational Chart

DMAC Proposal Diagram:



VI. Concluding meeting to Structure Proposal Drafting

- a. Present included: D. Musgrave, A. Macklin, R. Foster, Two Crow, J. Banta, B. Megrey, D. Kiefer
- b. Notes from D. Musgrave