

A Demonstration of the Alaska Ocean Observing System in Prince William Sound

Time: 8:30am October 11, 2006 to 4:30pm October 12, 2006

Location: NOAA Sand Point, Seattle WA, Building 9 Rooms A&B

Hosted by: The Alaska Ocean Observing System, NOAA Hazmat, Prince William Sound Science Center, Oil Spill Recovery Institute, Prince William Sound Regional Citizens Advisory Council, Cook Inlet Regional Citizens Advisory Council

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Meeting Agenda

Day 1: Wednesday October 11, 2006 “Status of existing infrastructure”

8:30am-9:30am: Program Overview, Goals, and Expectations

The Alaska Ocean Observing System (Molly McCammon, AOOS): What is the status of AOOS, IOOS, and GOOS? (20 min)

Prince William Sound Observing System (Carl Schoch, AOOS): What is the goal of an operational model for PWSOS and are we delivering the needed products? (20 min)

GNOME oil spill trajectory modeling (CJ Beegle-Krause, NOAA): What are realistic expectations for improving oil spill trajectory forecasts using ocean observing system models and observational data? (20 min).

9:30am: Break (sponsored by PWS RCAC) – 20 minutes

9:50am-11:50: Modeling Programs (note: Fei Chai, the last speaker in this session, must leave for the airport by noon)

Meteorological forecasting (Peter Olsson, UAA): RAMS update on development, validation, and lessons learned (20 min).

Wave forecasting (Vijay Panchang, TAMU): SWAN update on development, validation and lessons learned from the PWS implementation (20 min).

POM ocean circulation forecasting (Chris Mooers, RSMAS): modeling update and future plans (20 min).

ROMS ocean forecasting (Francois Colas, UCLA): ROMS development, validation and lessons learned from the PWS implementation (20 min).

ROMS data assimilation (Yi Chao, JPL): ROMS data assimilation and real-time forecasting (20 min).

ROMS NPZ forecasting (Fei Chai, UM): Adding a NPZ modeling component to the operational ROMS (20 min).

11:50-1:00pm: Lunch (sponsored by PWSSC/OSRI)

1:00pm-3:20pm: Observational Programs

Oil spill response in the field (John Whitney, NOAA): How do data products from AOOS inform oil spill response efforts? (20 min).

Regional oceanography for the Gulf of Alaska and Prince William Sound (Steve Okkonen, UAF): What is our current understanding of the forces driving circulation and variability? (20 min)

Observational oceanography including moorings and surveys (Claude Belanger, PWSSC): What have we learned from the additional array of moorings and surveys in PWS? (20 min)

Satellite data (Rachel Potter, UAF): What remotely sensed data are available for PWS and the GOA and what are we learning from these data? (20 min)

HF Radar (TBD): What have we learned from the HF radar in PWS? (20 min)

Tides and currents (Jennifer Ewald, NOAA COOP): What tides and currents data are available for PWS and how can forecasts be improved? (20 min)

SAROPS (Art Allen, USCG): The use of Surface Drifters to Estimate the Uncertainty of surface current fields from HF Radar and Numerical Model for use by SAROPS (20 min).

3:20pm: Break (sponsored by CI RCAC) – 20 minutes

3:40pm-4:40pm: Data management and capabilities

Data management, transfer, access, analysis and visualization (Rob Cermak, UAF): (1 hour)

End of Day 1

Day 2: Thursday October 12, 2006 “Planned activities and new infrastructure”

8:00am-9:00am: Case studies from Spain and San Francisco Bay (CJ Beegle-Krause), and Monterey Bay (Yi Chao).

9:00am-9:30am: Available and proposed resources for the 2007 PWS field exercise
Prepared discussions from each of the following:

PMEL – Thermosalinograph “Aurora and Tustumena Ferry Boxes” (Ned Cokelet: 15 min)

UW - Passive Acoustic Monitoring of the Ocean Environment - Wind, Rain and Marine Mammals (Jeff Nystuen: 15 min)

9:30am: Break (sponsored by PWS RCAC) – 20 minutes

9:50am-11:50am: Available resources and proposed resources - continued

COOPS – tides and currents field program (Jennifer Ewald: 15 min)

USCG – drifters, SAR drill, helicopter support, etc. (Art Allen and Paul Webb: 15 min)

UAF – HF radar, data management, etc. (Rob Cermak: 15 min)

PWSSC – drifters, vessel contracts, etc. (Nancy Bird or Katey Walter: 15 min)

HAZMAT – science support coordinator, GNOME trajectories (CJ Beegle-Krause: 15 min)

PWS RCAC – TBD, wave gauges (Joe Banta: 15 min)

CI RCAC – drifters (Susan Saupe: 15 min)

Alaska Sea Grant – education and outreach (Torie Baker: 15 min)

12:00 noon – 1:00 pm: Lunch (sponsored by PWSSC/OSRI)

1:00pm-3:00pm: Review of field experiment plans: who does what?

November- March: paper-exercise (mostly via emails) to identify the key element for the 2007 field experiment, perform gap analysis to see what are missing (lead: Yi Chao)

March-April: Table top or dry run (lead: Yi Chao)

August: Field Program (lead: Steve Okkonen)

September: Data analysis (lead: Claude Belanger)

Winter 2007: Publications, special issue (open discussion)

Fall 2009: EPOC

Winter 2008: Ocean Sciences

3:00pm: Break (sponsored by CI RCAC) – 20 minutes

3:20pm-4:30pm: Wrap up and assignments

4:30pm: End of Workshop

Participants

Attending	First	Last	Affiliation	Contact
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