

OVERALL APPROACH TO DEVELOPING DRAFT AOOS PROPOSAL

Executive Director Molly McCammon met with the AOOS Executive Committee (Craig Dorman, Tylan Schrock, Doug DeMaster, and Clarence Pautzke) in October to discuss an approach to developing a draft proposal for 2005 earmark funds, knowing that a full proposal likely would be due in January 2005. At the committee's direction, a small planning team was formed which included McCammon, Carl Schoch (director of the Prince William Sound pilot project), Mark Johnson (University of Alaska AOOS liaison), and Jim Schumacher (oceanographer, private consultant to numerous scientific planning efforts). The planning team relied on existing science plans, initial user needs assessments, an analysis of existing observing efforts, extensive consultation among the Alaska research community, and the criteria described below.

An important point to note is that a number of the principal investigators for the proposed components included in the draft proposal are also planning to submit funding requests to other entities such as the North Pacific Research Board, the National Science Foundation and NASA. If their efforts are successful, additional funds would be available for other components in the AOOS draft proposal lower on the priority list. For that reason, the AOOS proposal to be submitted will include components totaling more than \$2.5 million.

In addition, the proposal is being developed on the assumption of 3 years funding for \$2 million each. Clearly, given Alaska's geographic scale and extensive marine resources, that is not sufficient. AOOS will be asking for a sizable increase in funding next year in order to become more equitable to existing regional observing systems, which have similar funding amounts but are much smaller in geographic scale. If successful, additional components would be added to a revised proposal.

CRITERIA FOR INCLUSION

- Potential leverage from other partners
- Nature of products to be developed
- Likelihood for quick success
- Relevance to AOOS mission and goals
- Relevance to IOOS seven societal goals (see attached tables)
- Technical feasibility

PROPOSED NEXT STEPS

- Prioritize components based on a matrix of the above.
- Revise budget estimates.
- Develop full proposal for submission on January 21, 2005.

RELATIONSHIP TO IOOS GOALS

11/22/2004

Detecting and Forecasting oceanic components of climate variability	Facilitating safe and efficient marine operations	Ensuring National Security	Managing Resources for Sustainable Use	Preserving and restoring healthy marine ecosystems	Mitigating Natural Hazards	Ensuring Public Health and Safety
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Statewide

Alaska Modeling Group and Change Detection Center	x	x		x	x	x
Database Manager Visualization person	x	x	x	x	x	x
Ship Coordinator		x	x			x
Ship upgrades		x	x			x
Airborne salinity mapper	x	x			x	x

Gulf of Alaska

Prince William Sound

Precipitation data	x	x	x			x	x
Central PWS mooring	x			x	x	x	
Copper River gauge real-time	x				x	x	x
Surface current mapper	x		x			x	x
Thermosalinograph surveys	x			x	x		x
Biophysical monitoring (?)							
NPZ modeling	x	x		x	x		x
ROMS modeling	x	x		x	x	x	x
Acoustic plankton sampling	x	x		x	x		x
add fluorometers to moorings	x	x			x	x	x

Seward/ Kenai/ Kodiak

Cook Inlet inflow/outflow - pressure sensors and ADCPs	x	x		x	x	x	
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Southeast

GAK1 mooring additions – nitrate sensors

x	x			x	x	x
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Monitoring ACC/
Mooring at Cross Sound

x	x		x	x	x	

Bering Sea and Aleutian Islands

Bering Strait moorings -
transport, temperature, salinity,
ice flux. Nitrate sensors

x	x		X	x	x	
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Enhance biological monitoring
during NMFS Ship Surveys

x			x	x	x	
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Enhance Bering Shelf moorings
sites 2,4, 5 & 8

x	x		x	x	x	
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Monitoring AK Stream

x	x		x	x	x	
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Arctic

Measuring sea ice thickness

x	x		x		x	
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Monitoring sea ice edge &
motion

x	x				x	
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Monitoring sea level,
temperature and salinity

x	x		x	x	x	
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Arctic River gauges

x	x				x	
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