

Arctic Observing Summit: Goals



- Provide community-driven, science-based guidance for the design, implementation, coordination and sustained long-term (decades) operation of an international network of Arctic observing systems that serves a wide spectrum of needs
- Create a forum for coordination and exchange between academia, government agencies, local communities, industry, non-governmental organizations and other Arctic stakeholders involved in or in need of long-term observations

PAG & AOS



- How can PAG activities benefit from involvement with AOS and vice versa?
- PAG has made great strides in communicating & planning of research cruises, identifying gaps, establishment of repeat stations (DBO) and serving as a forum for
- Pacific Arctic sector is a region of rapid change & rapidly evolving issues & interests that cut across disciplinary

A patchwork response to rapid Arctic change?



- 46 different programs generate between 1 and >20 datasets each (2012 season)
- Data availability varies: NSF-AON data most accessible: data from 22 out 46 programs for 2012 not directly available
- Limited responsiveness to UNCLOS MSR data sharing guidance (Art. 76, 240ff.)
- Diverse mix of different entities that conduct observations

(Source: AOOS.org; Lee et al., Arctic, v 68

Data & information pathways





- Stakeholder
- Local experi
- Data owner
 Contractor • Government
- Researcher

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Products & Outcomes

Federal Gove

State Government



- Arctic Observing system definition & implement tation document
- Findings and recommendations aimed at policy- and decision makers including goals, implementation pathways, points of engagement
- Comprehensive report for community use, incl. 6 thematic synthesis documents
- Peer-reviewed publications from white papers and summit findings; close to 100 white papers & short statements available for review @ AOS website
- Response to AOS recommendations coordination, opportunities, proposals, policy development

Thematic Working Groups



- Theme 1: International and national strategies for sustained support of long-term Arctic observing (Co-leads: A. Tilche, EU; J. Mathis, NOAA)
- Theme 2: Technology and Innovation for sustained Arctic observations (Co-leads: C. Sweatte, ICAO; R. Storvold, Norut)
- Theme 3: Contributions of the Private Sector and Industry to sustained Arctic observations (Co-leads: P. Holthus, WOC: D. Arthurs, PolarView)

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Thematic Working Groups



- Theme 4: Actor and Stakeholder engagement and needs in sustained Arctic observations (Co-leads: C. Fleener, State of Alaska; M. Sommerkorn, WWF)
- Theme 5: Arctic Observations in the Context of Global Observing Initiatives (Co-leads: D. Berod, WMO/GEO; H. Enomoto, NIPR)
- Theme 6: Interfacing Indigenous Knowledge, Community-based Monitoring and Scientific Methods for sustained Arctic observations (Coleads: R. Daniel, Pew, L. Kielsen Holm, Greenland Env. Inst., R. Laing, Nunatsiavut Gov't)

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Thematic Working Groups



- Theme 3: Contributions of the Private Sector and Industry to sustained Arctic observations (Coleads: P. Holthus, WOC; D. Arthurs, PolarView)
- Focus on platforms of opportunity & private-public partnerships, and data sharing agreements
- Vessels of opportunity (Smart Vessels Smart Oceans Initiative of the World Ocean Council): Best practices, protocols, interoperability standards
- Submission of white papers particularly relevant for US with high vessel activity in US waters
- Terrestrial platforms Oil & gas infrastructure

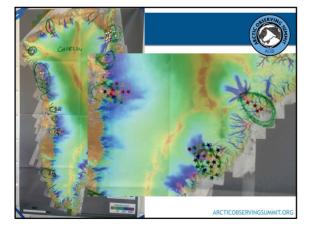
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Thematic Working Groups



- Theme 4: Actor and Stakeholder engagement and needs in sustained Arctic observations (Co-leads: C. Fleener, State of Alaska; M. Sommerkorn, WWF)
- How to prioritize and guide observations
- Community emergency action plans: Leveraging patchwork of observations in the Arctic to inform community response; best practices
- Increasing interest of non-Arctic nations to engage with permanent participants and Arctic communities

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Thematic Working Groups



- Theme 6: Interfacing Indigenous Knowledge, Community-based Monitoring and Scientific Methods for sustained Arctic observations (Coleads: R. Daniel, L. Kielsen Holm, R. Laing)
- Bridging between indigenous communities and decision-makers, brief review of Indigenous Knowledge, community-based observations etc.
- Defining success for community-based monitoring
- Recommendations & action plan, incl. education, capacity building and co-production of knowledge

The AOS Process & PAG



- AOS generates thematic & cross-cutting recommendations & action plans
- How are plans implemented, tracked & adapted?
- To be discussed linking Communities of Practice to move from review & information sharing to actual co-development of strategies & implementation under the auspices of an appropriate international body
- Lessons & guidance from PAG?

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