

SCICEX Phase 2

Accommodation Cruises



Provided by T. Boyd

OBJECTIVES

- **Re-invigorate the SCICEX Science Advisory Committee**
- **Maximize the contribution of SCICEX in understanding the Arctic Ocean processes and their role in the Earth's climate system**

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MOA

Science Accommodation Missions

- Data collection during classified missions**
- High priority environmental data**
- Concentration on baseline data collection**
- Continued monitoring**
 - Oceanographic conditions**
 - Ice distribution**
 - Contaminant concentrations**
- Individual proposals for experiments or equipment installation may be entertained**
- Scientific riders not anticipated**
- Data made widely available**

AGENDA

Setting the Stage

- SAC: Role & responsibilities
- History of SCICEX: Scientific contributions
- SCICEX Today: Current assets and capabilities
- SCICEX Drivers:
 - Contributing perspectives
 - Discussion of intersecting points between current assets and capabilities, agency-level drivers and scientific needs

Getting Down to Business

- Defining key activities
 - Guidance for SCICEX cruises of opportunity
 - Communicating with science community
 - Others
- Moving ahead:
 - Priority tasks & timeline
 - Assignments

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High Priority Actions

High (6 mos)

- 1. Science Plan**
- 2. Resolve instrument concerns**
 - **XCTDs**
- 3. Inclusion of SCICEX in IARPC Arctic Observing Network (AON)**
- 4. Map of past SCICEX tracks**
- 5. Communication with community**
 - **Identify host for central web site**
 - **Feedback on Science Plan**

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Medium *Priority Actions*

Medium (1 year)

1. Implementation plan

- **Data analysis & archiving**
- **Funding**
 - **Science funding**
 - **Data processing/management/archiving**
 - **ASL funding**
- **Timeline**

2. Communication with community

- **Include list and description of available data**

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Other Actions

- 1. Release of existing, classified data**
- 2. Build on scenarios; increased usage of subs**
- 3. Extend release boundaries**
- 4. Maintaining data collection and analysis, independent of personnel**
- 5. Instrument development**

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High Priority Action Assignments

1. Science Plan **(SAC)**
2. Resolve instrument concerns
 - XCTDs **(ASL provide info to TB; TB take lead)**
 - Sampling/flowthrough system **(scope: ASL provide to RS)**
3. Inclusion of SCICEX in IARPC Arctic Observing Network (AON)
(JR-M with ONR & ASL)
4. Map of past SCICEX tracks **(TB, supported by SAC)**
5. Communication with community
 - Identify host for central web site **(IAC)**
 - Feedback on Science Plan **(SAC)**

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Administrative

Meeting frequency

- Telecon
- Face-to-face (**next meeting about Apr 08**)
 - Location (**TBD, maybe DC**)**Next IAC meeting about Jun 08 in DC**

Record keeping

- Meeting summary (**TT, for now**)

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Science Plan

Motivation (*J R-M, JF*)

- **Increased accessibility**
 - Update of US Arctic Policy
 - Extended Continental Shelf Initiative (UNCLOS)
 - Increased presence of USCG
- **Observing and understanding environmental change**
 - AON

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Science Plan

Scenarios

- **Immediate guidance**
 - **Collected only on transit track**
 - **Totally releasable**
 - **Releasable with rounding**
 - **Transect (some say in track)**
- **Establish priorities**
 - **Review baseline measurements**
 - **Address lingering concerns**
 - **Consider monitoring activities**
 - **Region**
 - **Season**
- **Include assumptions**
 - **Speed & depth**
 - **Time available**

BASELINE DATA

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General Expectations

- Use of standard equipment and systems
- CTD profiles taken with expendable probes
- CTD from hull-mounted systems
- Bathymetry by installed fathometers
- Ice profile data from upward-looking sonar (DIPS where possible)
- Salinities from water samples (**expand – RS/TB/WS**)
- Supporting non-classified navigational and operational data
- All data stored in national data repository, designated by ONR

BASELINE DATA

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Additional Possibilities

- SRVS recordings**
- CTD add-ons**