

# Sustaining Arctic Observing Networks (SAON) Second Workshop



Edmonton, Alberta, Canada  
9-11 April 2008

[www.arcticobserving.org](http://www.arcticobserving.org)



ARCTIC COUNCIL  
NORWEGIAN CHAIRMANSHIP  
2006-2008

## Edmonton Workshop Organizing Committee

David Hik, *Canadian IPY Secretariat*; Helen Joseph, *Fisheries & Oceans - Canada*; Sverker Sörlin, *Swedish IPY Committee*; David Carlson, *IPY Director*; John Calder, *AMAP*; Volker Rachold, *IASC*; Odd Rogne, *AMAP & IPY IPO*; Stephanie Meakin, *Inuit Circumpolar Council*; Jussi Paatero, *Finnish Meteorological Institute*.

## On behalf of the SAON - Initiating Group

Arctic Council (represented by AMAP); Arctic Ocean Sciences Board (AOSB); Climate and Cryosphere (World Climate Research Programme/WMO); Forum of Arctic Research Operators (FARO); Indigenous Peoples Secretariat (IPS); International Arctic Science Committee (IASC); International Arctic Social Science Association (IASSA); International Polar Year (IPY); International Study of Arctic Change (ISAC); National Science Foundation (NSF, USA); Global Ocean Observing System (GOOS).

## Edmonton Workshop Sponsors

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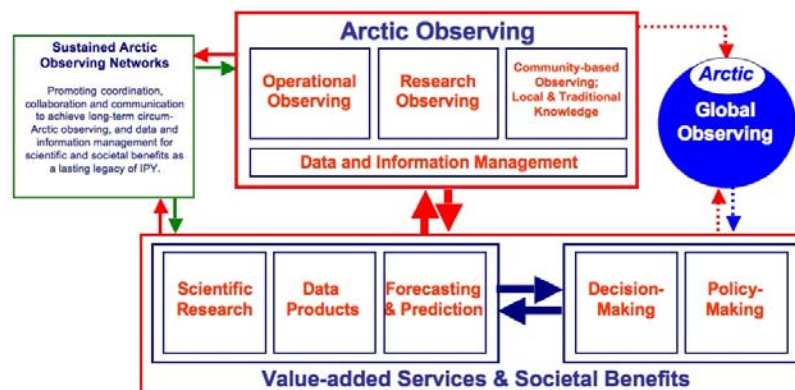
Canadian IPY Secretariat and National Committee  
Canadian Circumpolar Institute, University of Alberta

Canada



2007-2008 IPY-API

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YEARS  
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Updated 22 March 2008

## Sustaining Arctic Observing Networks (SAON)

Three SAON workshops are planned during International Polar Year to address the following key questions:

1. *What Arctic observing sites, systems and networks currently exist?*
2. *What spatial, temporal and disciplinary gaps exist?*
3. *How will gaps be filled and the entire effort sustained?*
4. *How can these activities be coordinated and integrated?*
5. *How can free, open and timely access to data be achieved?*

### **Stockholm Workshop focus (October 2007):**

*"Are current data collection and information management activities concerning the Arctic environment sufficient to meet user needs?"*

Thematic break-out groups addressed the first 3 key questions:

- What Arctic observing sites, systems and networks currently exist?
- What spatial, temporal and disciplinary gaps exist?
- How will gaps be filled and the entire effort sustained?

### **Edmonton Workshop focus (April 2008):**

*"How can Arctic observing and data and information management activities be coordinated and sustained over the long-term?"*

The break-out groups from the Stockholm workshop will finalize their discussions in Edmonton, and invite new participants to join in for adding any improvements.

Then the remaining key questions will be addressed:

- How will these activities be coordinated?
- How can free, open and timely access to data be achieved?

In addition, this workshop will address:

- What is the interplay between modeling and monitoring?
- What are the technology and R&D components required for sustaining Arctic observations and information systems?

### **Helsinki Workshop focus (October 2008):**

*"Finalizing recommendations for securing support to coordinate and sustain Arctic observing and data and information management activities over the long-term"*

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# PROGRAM FOR EDMONTON WORKSHOP

## DAY 1: Wednesday 9 April

### Opening Plenary Session

- \* Welcome to Edmonton and the SAON-2 workshop
- \* Overview of workshop objectives and building blocks of SAON (Volker Rachold)
- \* Summary of Stockholm workshop and progress to-date (Sverker Sörlin)
- \* Keynote #1: Lessons from Global Networks for Observing and Data (Don Hinsman, WMO)

### Coffee/tea

### Breakout Groups (aligned with Stockholm workshop topics)

Emphasis on reviewing and clarifying user needs, and inventory of existing networks and potential gaps. Groups should finalize outstanding issues from discussions in Stockholm (observing networks, gaps and user needs, with an opportunity for new participants to suggest improvements), identify data centers, data policies and information management within the group's broad area, discuss a strategy for making the data availability better coordinated and sustained over the long-term, and suggest a few priority actions for making your observing network and data management sustainable.

#### *Key questions for all groups*

- have all user needs been identified clearly?
- what is the intersection between operational activities and research?
- how can data management and data infrastructure be strengthened?

1. Atmosphere (Lisa Darby, Jussi Paatero)
2. Hydrology/Cryosphere (Jeffrey Key, Angélique Prick)
3. Human Dimensions (Maribeth Murry, Sverker Sörlin)
4. Terrestrial (Terry Callaghan, Craig Tweedie)
5. Oceans and Ice (Koji Shimada, Harald Loeng)

### Lunch

### Breakout Groups (continue discussions from morning)

#### Plenary Session:

#### National Perspectives – challenges and opportunities for sustaining networks

Canada: TBD

Russia: TBD

Greenland/Denmark: TBD

European Environment Agency: Norwegian Pollution Control Authority

Germany: TBD

### Coffee/tea

### Poster Session

Posters will provide opportunities to present and discuss examples of Arctic observing networks currently in operation, or proposed.

*Note: posters will remain available throughout the conference.*

*At the same time:* Meeting of SAON Initiating Group and Workshop Organizing Committee

## **Opening Reception and Dinner**

Venue: Telus World of Science (buses will depart from hotels at 1800 and 1815)

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## **DAY 2: Thursday 10 April**

### **Plenary**

- \* Summary of Day One Working Group discussions
- \* Keynote #2: Intersection between observations and modeling (John Walsh, TBC)
- \* Charge to Day 2 breakout groups

### **Breakout Groups – Observational Networks and Operational Agencies**

Emphasis on requirements of operational agencies (national agencies responsible for national monitoring/observing), their mandates, and potential to support sustainable Arctic observing networks. Which priority actions would make both networks and data availability more sustainable?

#### *Key questions for all groups*

- what is the intersection between operational activities and research?
- how are international and national networks organized?
- opportunities for integration across networks?
- how can data management and data infrastructure be strengthened?
- how can infrastructure and equipment needs be met?

NOTE: Names indicated are panelists who will help to chair and steer the discussions. Each group will include short presentations from invited speakers.

6. Atmospheric and Operational Meteorology Networks (Oystein Hov, Barry Goodison)
7. Terrestrial Observation Networks (Mike Gill, Terry Callaghan)
8. Marine Observation Networks (Martin Fortier, Hans Dahlin, Savi Naranayan)
9. Human Health and Community Observation Networks (Jay van Oostadam, Joan Nymand Larsen, Gerard Duhaime)
10. Earth Observing and Satellite Networks (Jean-Marc Chouinard)
11. Community-based Observation Networks (Duane Smith, Patricia Cochrane)

### **Lunch**

Brief reports on progress from morning groups following lunch discussion with session chairs

**Breakout Groups** continue, with possibilities for cross-over between groups and other sub-groups (e.g. Coastal Dynamics).

### **Plenary Session: brief overview and summary of group discussions**

**Hosted Reception & Open Meeting:** Canada's Northern Strategy and Future Arctic Research Station  
Venue: Shaw Conference Centre

**Conference Dinner**  
Venue: Shaw Conference Centre

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### **DAY 3: Friday 11 April**

#### **Short Plenary Session**

\* Anticipating SAON recommendations and reporting (Martin Jefferies)

#### **Breakout Groups** (before and after coffee break)

12. Funding and Mission Agencies (Paul Egerton, John Calder)

*Note:* may chose to split into a sub-group on proposal-driven observations and a subgroup on cooperation between national agencies having obligations for long-term monitoring and observations based both on national priorities and on existing or needed international conventions/agreements

13. Cyberinfrastructure and Data Management (Ellsworth LeDrew, Steven Williams)

14. New Technologies TBD

#### **Lunch**

#### **Wrap-up Plenary Session**

- \* Short reports from morning breakout groups
- \* Panel Discussion and Synthesis - all breakout group chairs (moderated by Bob Corell - TBC)
- \* Review of the SAON Objectives and Next Steps
- \* Helsinki Workshop plans (Jussi Paatero)
- \* Formal close of workshop

coffee/tea

#### **Open Brainstorming Session**

\* Coordination and Planning Meeting for SAON IG and WOC with session chairs

## **SIDE MEETINGS**

### **Tuesday 8 April (all day)**

Meeting of APECS and Canadian Youth Steering Committee for IPY  
Venue: Telus World of Science

### **Saturday 12 April (all day)**

Meeting of NSF Carbon Flux Project  
Venue: Fraser Room, 8<sup>th</sup> floor, Courtyard Marriot

## **IPY AND POLAR FILM FESTIVAL**

### **Tuesday 8 April (evening)**

Screening of ICE PEOPLE, with introduction by director Anne Aghion  
Venue: Telus World of Science

### **Saturday 12 April (afternoon and evening)**

IPY Film Festival – screening and conversation with the film-makers  
Venue: To be Announced

<b>SAON-2</b> (As of 26 March 08)	Tuesday 8 April	Wednesday 9 April	Thursday 10 April	Friday 11 April	Saturday 12 April
0830-1000	Side Meetings: * Canadian Youth Steering Committee	Registration (opens at 0730)  Opening Plenary * Welcome * SAON Overview * Stockholm Summary * Keynote #1	Plenary * Summary of Day 1 * Keynote #2 * Charge to Breakout Groups  Break-out Groups x 6:	Short Plenary * Anticipating SAON reporting & recommendations Break-out Groups x 3: Funding/Mission Agencies Data & Informatics New Technologies	Side Meetings: * NSF Terrestrial Carbon Flux Project
1000-1030		Coffee/Tea	Coffee/Tea	Coffee/Tea	
1030-1200		Break-out Groups x 5: <i>(review of Stockholm discussions)</i> Atmosphere Hydrology/Cryosphere Human Dimensions Terrestrial and Freshwater Oceans/Ice	Break-out Groups x 6: Earth Observation & Satellites Community Observing Terrestrial Networks Human Health & Community Networks Marine Networks Atmospheric/Operational Meteorology  @ 11:30 - Short Plenary Updates from break-out groups	Break-out Groups x 3: continued	
1200-1330		Lunch	Lunch	Lunch	
1330-1500		National Perspectives: Canada / Russia / Greenland / Denmark USA / Others	Break-out Groups x 6: continued from morning	Closing Plenary * Morning groups report * Panel Discussion and Synthesis * Review SAON objectives <i>Formal workshop close</i>	
1500-1520		Coffee/Tea	Coffee/Tea	Coffee/Tea	
1520-1700		Poster Session	Break-out Groups x 6: Continued and cross-over sessions	Open Meeting with SAON IG & session chairs	
1800-2200		Reception/Dinner	Reception & Open Meeting	WOC / IG dinner	