



FIMR, Dynamicum building at meeting room Aura

**International Ice Charting Working Group –VII**  
**IICWG-VII**  
**25-29 September 2006**  
**Helsinki, Finland**  
**AGENDA**

All sessions took place at meeting room AURA. Meeting rooms MARE and PLUVIA are reserved for parallel sessions and meetings.

**Monday September 25**

8:00	<b>IICWG Registration</b>	
8:30	<b>Meeting Opening</b> <ul style="list-style-type: none"> <li>• Introduction and Official Welcome</li> <li>• Opening Remarks by Co-Chairs</li> <li>• Meeting Logistics</li> <li>• Introduction of Participants</li> <li>• Adaptation of Agenda</li> </ul>	Poutanen Bancroft, Petti, Seina Seina Group Bancroft, Petti
<b>9:00</b>	<b>Science Workshop</b>	
	<b>Opening and organising the science meeting</b>	Breivik
9:00	<i>Session 1: GCOS, harmonization of ice data</i>	<b>Organised by Andersen</b>
9:00	Introduction to working group and the session	Søren Andersen:
9:20	NSIDC plans for building of coherent passive microwave climate data set	Florence Fetterer
9:40	Analysis and estimation of ice chart errors	Cathleen Geiger
10:00	Inter-calibration and comparison of ice charts.	NIC/CIS
<b>10:20</b>	Break	
<b>10:50</b>	<i>Session 1 continue</i>	
10:50	Lessons learnt from "data fusion" between ship, ice charts and passive microwave data	Tony Worby
11:10	Relevant activities at NASA Goddard, e.g. ongoing validation activities	Per Gloersen
11:30	Error propagation in passive microwave sea ice retrieval	Stefan Kern
<b>11:50</b>	Lunch	
<b>12:50</b>	<i>Session 2: Modelling and Assimilation</i>	<b>Organised by Carrieres</b>
12:50	Sea Ice model and data assimilation at CIS/IPY	Mark Buehner
13:10	Sea Ice model and data assimilation at met.no/IPY	Jens Debernard
13:30	Recent development of sea ice modelling in FIMR	Jari Haapala
13:50	Model and SAR based ice thickness chart	Juha Karvonen
14:10	Modeling the ice extent in Icelandic waters	Ingibjörg Jónsdóttir
14:30	Sea ice modelling and data assimilation at SMHI	Anette Jönsson
<b>14:40</b>	Break	
<b>15:00</b>	<i>Session 3: Sea Ice monitoring</i>	<b>Organised by Breivik</b>
15:00	Pre-Launch Assessment of Utility of RADARSAT-2	Roger De Abreu
15:20	Testing alternate polarisation SAR in operational ice service	Marcos Porcires
15:40	Historical variation in sea-ice extent off Iceland	Ingibjörg Jónsdóttir



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16:10	<b>Summary Discussions and Closing of Day 1</b> (See separate agenda below)	
17:00	<b>Ice Breaker</b>	Dynamicum 5 <sup>th</sup> Floor

**Tuesday September 26**

8:30	<b>Standing Committee Reports</b> <ul style="list-style-type: none"> <li>• Data, Information and Customer Support</li> <li>• Applied Science and Research</li> </ul>	Fetterer and Seina Breivik and De Abreu
9:00	<b>Reports from Other Ice Working Groups</b> <ul style="list-style-type: none"> <li>• North American Ice Service</li> <li>• Baltic Ice Meeting</li> <li>• JCOMM ETSI and GDSIDB</li> </ul>	Springer Seina Smolyanitsky
10:00	<b>Baltic Sea Requirements</b> Baltic Sea marine traffic	Organised by Seina Matti Aaltonen
10:30	<b>Break</b>	
11:00	<b>Baltic Sea and IICWG (cont.)</b> Sea ice services – now and in future Baltic Sea icebreaking	Ari Seina Roy Jaan
12:00	<b>Lunch</b>	
13:00	<b>IGOS Cryosphere Theme and related developments</b>	Ryabinin (WCRP)
14:00	<b>The modern state of the hydrometeorological support for the ice navigation at the Russian freezing seas using ECDIS</b>	Scherbakov
14:30	<b>Update on Sentinel-1</b>	Davidson
15:00	<b>Break</b>	
15:30	<b>Polar View Update</b>	Randall
16:00	<b>Ice Information Service and requirements for IPY – Goals for Wednesday Work Session</b>	Falkingham
17:00	<b>End of Day 2</b>	

**Wednesday September 27 – Concurrent Work Sessions**

8:30	<b>IPY Operations and IPY Science Working Meetings – see separate agenda below</b>	Falkingham Carrieres
10:30	<b>Break</b>	
11:00	<b>IPY Operations and IPY Science Working Meetings (cont.)</b>	
12:00	<b>Lunch</b>	
13:00	<b>IPY Operations and GCOS Ice Charting Meetings (cont.)</b> <ul style="list-style-type: none"> <li>• Parallel sessions at meeting rooms Mare and Pluvia</li> </ul>	Falkingham / Anderson
15:00	<b>Technical Tour</b> (busses leave at 15:00)	Maritime Safety Training Centre, Espoo
19:00	<b>Dinner (non host)</b>	Restaurant Arthur



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**Thursday September 27**

8:30	<b>Arctic Marine Shipping Assessment – AMSA</b> <b>1. AMSA Overview and Status</b> -Discussion <b>2. Potential IICWG Contributions to AMSA</b> <i>a. AMSA Chapter Input: Experts, Sea Ice Data, Session on Current &amp; Future Roles of ice services</i> -Discussion <i>b. 2004 Arctic Sea Ice Requirements</i> -Discussion	Lawson Brigham
10:30	<b>Break</b>	
11:00	<b>Arctic Marine Shipping Assessment – AMSA (cont.)</b> <b>3. Roundtable discussion: AMSA Sea Ice Projects for 2020 &amp; 2050</b>	
12:00	<b>Lunch</b>	
13:00	<b>Satellite Missions and ground Infrastructure Update (two slides maximum)</b> <ul style="list-style-type: none"> <li>• RADARSAT-1</li> <li>• RADARSAT-2</li> <li>• Envisat ASAR</li> <li>• METOP/AVHRR</li> <li>• ALOS, NPP, NPOESS</li> <li>• Alaska Satellite Facility</li> <li>• KSAT</li> </ul>	Chesworth Chesworth Grabak Grabak Nauman Atwood KSAT
14:00	<b>Update on RADARSAT-Constellation</b>	Falkingham
14:30	<b>DICS meeting</b>	
15:00	<b>Break</b>	
15:30	<b>Update of IICWG Socio-Economic Document</b>	De Abreu and Hicks
16:00	<b>End-User Input to IICWG – Oil/Gas</b>	Jolles
17:00	<b>End of Day 4</b>	
18:00	<b>Sauna</b>	

**Friday September 29**

8:30	<b>Committee Summary Reports</b> <ul style="list-style-type: none"> <li>• Data, Information and Customer Support</li> </ul>	Fetterer and Seina
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	• Applied Science and Research	Breivik and De Abreu
9:00	<b>Formalizing IICWG – Future</b>	Bancroft and Petti
9:30		
10:00		
10:30	<b>Break</b>	
11:00	Review of Meeting Action Items	
12:00	<b>Meeting Adjourn</b>	

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## Detailed Agenda for IPY Operations Meeting Wednesday September 27

8:30	Opening Remarks / Introductions	Falkingham
8:45	Polar View and IPY <ul style="list-style-type: none"> <li>• Overview of activities</li> <li>• Vision for the IPY Ice Information Portal</li> <li>• Results of Polar View / IICWG Questionnaire</li> <li>• Comments and discussion</li> </ul>	Puestow, All
9:30	Ice Services Presentations - Examples of information products that can be contributed to the portal	Ice Service Representatives
10:15	Radarsat-1 Continuation for IPY	Crevier
10:30	Break	
11:00	Discussion – Development of a design concept for the Ice Information Portal	All – led by Puestow
12:00	Lunch	
13:00	Discussion – Operating Principles for the Ice Information Portal	Falkingham
13:30	Action Plan – where to from here	Puestow

### GOALS for this Work Session

- Get all of the national ice services engaged in the process
- Assemble information about the products that will be contributed, their formats and the technical mechanisms for obtaining them
  - Get commitment from Ice Services to supply required information in a certain time frame
- Develop a high level concept of the Ice Information Portal:
  - What will it look like?
  - What products will it have?
  - How will it work?
  - How will clients access it?
- Agree on the Principles of Operation for the Portal
  - Language
  - Attribution
  - Data policy
  - Etc.
- Commitment to an action plan to get to an operational portal by March 2007



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## **Agenda for the Science Working Meeting Wednesday 27 September in meeting room MARE**

- Brief overview of the IPY project – Tom Carrieres
- Plans for IPY DA - all (4-5 individual 15 minute presentations)
- Discussions on:
  - DA techniques
  - observations, errors and observation operators
  - models/background fields
- Ideas for collaboration - all
- Next meeting(s)



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## **Agendas for GCOS SST&SI Working Group Meetings**

### **Meeting room AURA**

#### **Monday 25 September, 16.00-17.00: Science day summary discussion**

1. The role of IICWG in the SST&SI working group, with initial emphasis on large scale ice charts
  - a. Nomination of a possible IICWG representative (who can also attend the Tuesday and Wednesday meetings)
2. Identify common areas of interest and support + identify groups to follow up in these areas:
  - a. Uncertainty calculations
  - b. Recording of changes in ice chart procedures, including estimation of effect on uncertainty
  - c. Interpretation of intercomparison of gridded ice charts vs. satellite data.
  - d. Intercomparison of ice charts - identification of best practices
  - e. Field data - is there a mutual interest?

#### **Tuesday 26 September, 17.00 - ca. 19:30: Working Group coordination meeting**

1. Review of actions from previous meeting
2. Activity plan
  - a. Review and comments
  - b. Planning of activities in the 3 components (sat., ice chart, field data) + related error estimate tasks.
    - i. Identify the first step
  - c. Possible formation of one or more teams to lead possible actions (first action may be to raise funding) in:
    - i. Ice chart uncertainty estimates and interpretation of intercomparisons
    - ii. Satellite data uncertainty estimates and interpretation of intercomparisons
    - iii. Intercomparison of gridded data sets
    - iv. Intercomparison of ice chart vector data sets
    - v. Other data sets: ice thickness and field/ship observations
3. Future meetings
  - a. Frequency
  - b. Venue/shortage of travel funds: Can we identify a place where everyone would go anyway?
4. AOB: Dinner?

#### **Wednesday 27 September, 13.00 – 15.00: GCOS Ice Charting parallel sessions**

1. Coordinating with existing UN sea ice and ice chart organisations
  - a. JCOMM plans: intercalibration/ice analyst workshop. Significant joint interest with GCOS SST-SI Working group - coordination of plans



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- b. Engaging the broader ice charting community. Links and possible implementation and cooperation with established ice chart climate programmes such as GDSIDB
  - c. Possibly: Field/ship data, are suitable interconnections in place?
  - d. Presentation of possible level-2 satellite ice concentration data standards in relation to JCOMM: motivation, format, content, structure.
2. Discussions and AOB