

# IICWG-XI Applied Science & Research Standing Committee Report



***Co-Chairs***

***Roger De Abreu & Anette Jönsson***



# Applied Science and Research IICWG XI Action Items

## **SC 8.1:**

Identify ice service/national Science representatives for all member nations. For those services which do not have Science sections, Heads of Ice Service will be contacted to propose appropriate national representatives as a contact

**Responsible:** Science Committee Co-Chairs

**Target Date(s):** Ongoing

**Status:** Open

# National Science Representatives/Members

- Canada: Roger DeAbreu and Tom Carrieres, CIS.
- Denmark: Leif Toudal Pedersen, DMI
- Finland: Markku Simila, FMI
- Germany: Jürgen Holfort, BSH, Jürgen will ask Wolfgang D
- Iceland: Ingibjörg Jónsdóttir, UI. Anette contacted Theodór Hervarsson, Icelandic Met Office
- Norway: Nick Hughes and Lars-Anders Breivik, Met.no
- Russia: Vasily to identify possible AARI and PLANETA representatives
- Sweden: Anette Jönsson, SMHI and Leif Eriksson, Chalmers
- USA: Pablo Clemente-Colón, NIC

Countries that are not a signatory:

- Argentina: Roger to contact Beatriz Lorenzo, Argentinean Ice Service
- Australia: Tony Worby, AAD, -- Roger to contact
- China: Liu Yu, NMEFC - **Confirmed**
- Japan: Roger contacted Hideaki Fukushima, Japan Met Agency
- UK: Andrew Fleming, BAS - **Confirmed**

# Applied Science and Research IICWG XI

## Action Items

### SC 9.1:

Conduct the 3rd Modelling/Data Assimilation Workshop in 2009 or 2010 and provide workshop report at the IICWG XI Science Workshop. The 2010 workshop will be held at SMHI Norrköping.

**Responsible:** Tom Carrieres, Lead; Leif Toudal Pedersen, Co-lead

**Target Date(s):** Before IICWG-XI

**Status: Closed** – WS was held 20-21 May 2010 at SMHI

# Applied Science and Research IICWG XI

## Action Items

### **SC 9.3:**

Co-ordinate and report on iceberg modelling activities by IICWG members and other groups.

**Responsible:** Tom Carrieres, Lead; Don Murphy, Co-lead

**New Target Date(s):** Summary Report to Science Committee  
September 15, 2010

**Status: Closed** – A report was delivered

# Applied Science and Research IICWG XI

## Action Items

### SC9.5:

Investigate and report on short term Ice forecasting models available or under development, their validation, and inter-comparison studies and activities.

**Responsible:** Tom Carrieres, Lead; Anette Jönsson, Co-lead

**New Target Date(s):** Synthesis report delivered to Science Committee 30 days before DA workshop in Sweden

**Status:** Open – Some input received. Will reevaluate in Science Committee.

# Applied Science and Research IICWG XI

## Action Items

### SC9.6:

Investigate and report on seasonal Arctic sea ice forecasting methods implemented by the IICWG ice services and other groups.

**Responsible:** Vasily Smolyanitsky, Lead; Pablo Clemente-Colón, Co-lead, Todd Arbetter (NIC)

**New Target Date(s):** Synthesis report delivered to Science Committee April 15, 2010.

**Status:** Open

# Applied Science and Research IICWG XI

## Action Items

### **SC 10.1:**

To facilitate identification of complementary &/or common activities and areas for collaboration, each national ice service to be requested to identify and prioritize their three top research requirements for the next five years.

### **Responsible:**

Science Committee Co-Chairs

**Target Date(s):** December 2009

**Status:** Open

# Applied Science and Research IICWG XI

## Action Items

### SC 10.2

Contact Wolfgang Dierking to investigate IICWG participation in ESA Living Planet Symposium with a session focused on multi-frequency SAR and operational ice applications

**Responsible:** Roger De Abreu

**Target Date(s):** October 31, 2009

**Status: Closed** – Sea ice session held. Issues represented.

# Applied Science and Research IICWG XI

## Action Items

### SC 10.3

Distribute Technical Note 1-3 of ESA-funded C-CORE Multi-Parameter SAR project to IICWG Science group towards increasing collaboration on multi-frequency SAR studies.

**Responsible:** Roger De Abreu

**Target Date(s):** November 2009

**Status: Closed** – Information distributed.

# Applied Science and Research IICWG XI

## Action Items

### SC 10.4:

Distribute final SWIPA definitions of ice extent and ice area to Science and Data Committee.

**Responsible:** Leif Toudal Pedersen, Lead

**Target Date(s):** When definitions finalized

**Status: Closed** – At present not included in SWIPA definitions and unsure if a useful definition will be included in the future.

# Applied Science and Research IICWG XI

## Action Items

### **SC 10.5:**

Contact NSIDC to help ensure that users of NSIDC's ice extent products are aware that they should not be used to support marine navigation tactically or strategically.

**Responsible:** Sean Helfrich

**Target Date(s):** December 2009

**Status:** Open

# Applied Science and Research IICWG XI

## Action Items

### SC 10.6:

Develop a control image dataset and testing protocol to investigate the accuracy and bias in the visual estimation of total sea ice concentration. Results will support data assimilation, climate studies, operator training and quality assessment.

**Responsible:** Leif Toudal and Roger De Abreu

**Target Date(s):** Results presented at IICWG XI

**Status:** In progress – Control dataset and protocol created.

# Applied Science and Research IICWG XI

## Action Items

### **SC 10.7:**

Communicate with Vladimir Ryabinin regarding WMO paper on short term prediction (topic to be confirmed).

Ensure that DA meeting in Sweden includes a discussion on the proposed whitepaper.

**Responsible:** Leif Toudal and Tom Carrieres

**Target Date(s):** DA meeting

**Status:** Open

# Applied Science and Research IICWG XI

## Action Items

### **SC 10.8:**

Contact Vladimir Ryabinin (WCRP) to investigate a SCOR proposal for multi-year funding for IICWG's DA workshop.

**Responsible:** Leif Toudal, Lars-Anders Breivik and Tom Carrieres

**Target Date(s):** December 2009

**Status:** Open

# Applied Science and Research IICWG XI

## Action Items

### SC 10.9:

To raise JAXA's awareness of the operational use and value of PALSAR for operational ice monitoring, provide Leif Eriksson with a slide for inclusion in his presentation at the ALOS PI workshop in Hawaii.

**Responsible:** Roger De Abreu and Sean Helfrich

**Target Date(s):** October 23, 2009

**Status: Closed** – Leif included slide in his presentation.

# Applied Science and Research IICWG XI

## Action Items

### SC 10.10

Contact Penny Wagner to further investigate IICWG involvement in APECS. Also forward IICWG research priorities to APECS for improved visibility of IICWG research priorities in graduate studies.

**Responsible:** Anette Jönsson

**Target Date(s):** January 2010

**Status:** Open – Will be discussed at Science committee meeting.

# **Applied Science and Research IICWG XI**

## **Action Items**

### **Committee Working meeting**

- **AI review**
- **Sentinel-1 question from ESA**
- **Research priorities for external partners (e.g. APECS)**
- **Iceberg report**
- **Future collaborations on DA and ice modelling**
- **Rogers C-Core presentation from Science WS**