



### Task Team 14

## Southern Ocean Known Limit Of Ice (SOLOKI)

Most Recent Update: 19 July 2021

**Task Team Leaders:** Jan Lieser / Andrew Fleming

**Team Members:**

- Chris Readinger
- Penny Wagner
- Alvaro Scardilli

**Task Objectives:**

- Use a combination of iceberg observations from satellite radar (SAR) imagery and iceberg trajectory forecast models to predict iceberg occurrence and establish the northern limit of icebergs in the Southern Ocean.
- Distribute SOLOKI product freely and openly through existing channels such as the Southern Ocean ice services and web services including Polar View.
- Survey selected users and industry organisations (e.g. IAATO, COMNAP) to get feedback on adoption and success of SOLOKI.

**Status:**

- The task team have met and discussed the overall approach and plans for a pilot study.
- Investigation into sources of SAR data remains important – will pursue SAOCOM and liaise with Task Team 1 re ROSE-L.
- Pilot project selected as Met Area VI (Argentina).
- Some initial tests of iceberg detection methods validated by Jan Leiser.
- Consideration of how to visually represent information – but agreed this is a later step.

**Next Steps:**

- We will investigate a letter from IICWG to CONAE about access to SAOCOM data.
- Penny Wagner to pursue iceberg detection methods with Thomas Kraemer.
- Alvaro Scardilli to pursue NAIS iceberg model.
- Andrew Fleming to pursue compute resources through ESA Network of Resources.
- Outstanding action to invite South Africa to next meeting.

**Estimated Percent Complete:** 10%

**Interaction with Other Task Teams:**

Interaction with Task Team 13 (Iceberg Modelling Case Studies) will be valuable.

Also Task Team 1 (ROSE-L) re SAR data availability.

**What is working well?**

Strong, committed team.



## INTERNATIONAL ICE CHARTING WORKING GROUP (IICWG)

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### **Are there barriers hindering progress?**

Lack of SAR coverage in the Southern Ocean remains a challenge. Accuracy of the SOLOKI product will depend highly on accuracy of iceberg models.

Progress limited by availability of time from task team.