



Sea Ice Outlook (SIO) Contributors Forum
Thursday–Friday, 21–22 January 2021
*Via Zoom; *All times in Alaska time zone (GMT -9)*
Tentative Agenda (As of 20 January/ revised)

Meeting Goals:

- Share and discuss successes and challenges in Arctic sea ice prediction.
- Discuss recommendations for future activities to improve forecasting.
- Discuss recommendations for future networking and collaboration activities.

Expected Outcomes:

- A strengthened network of SIO contributors.
- A public meeting report and/or a peer-reviewed article.
- Identified topics on which to continue discussion after the meeting.

Thursday, 21 January 2021

8:00 am: Technical Guidelines & Settling In (ARCUS)

- Technical/Zoom instructions
- Icebreaker polls

Overview and Plenary Talk

8:10 am: Welcome & Introduction (Uma Bhatt, U. of Alaska Fairbanks, SIPN2 Leadership Team)

- Overview of Workshop Goals and Outcomes (Uma Bhatt)
- Door Prizes and Meeting Philosophy (come as you are!) (Helen Wiggins, ARCUS, SIPN2 Leadership Team)
- Overview of the SIPN2 Effort (Uma Bhatt)

8:30 am: 1,000 Predictions: Looking Back on the Sea Ice Outlook 2008–2020 (Larry Hamilton, U. of New Hampshire, SIPN2 Leadership Team)

SIO Contributor Lightning Talks

8:40 am: **Lightning Talks Session I: Dynamical Groups**
(10 talks, 3 minutes each)

- What method are you using (summary of methodology)?
- What is working well?
- What is not working?

- Are your forecasts improving? What is needed in the future to improve forecasting?

- 1) Virginie Guemas (SIO Group: APPLICATE CNRM/Batte et al.)
- 2) Ed Blockley (SIO Group: Met Office/Blockley et al.)
- 3) Acosta Navarro (SIO Group: BSC, Acosta Navarro et al.)
- 4) Qing Bao (SIO Group: ANSO IAP-LASG)
- 5) Arlan Dirkson (SIO Group: ECCC-CanSIPsv2)
- 6) Keguang Wang (SIO Group: METNO SPARSE, Wang et al.)
- 7) Wieslaw Maslowski (SIO Group: RASM/Maslowski et al.)
- 8) Richard Cullather (SIO Group: NASA GMAO)
- 9) Rick Allard (SIO Group: Navy ESPC/Metzger and Barton)
- 10) Axel Schweiger (SIO Group: U. of Washington/APL)

9:15 am: **Short Q&A and Discussion** - Commonalities and take-home points from dynamical group talks

9:25 am: **Lightning Talks Session II: Statistical Groups** (9 talks, 3 minutes each) (*Addressing same questions as Session I*)

- 1) Yizhe Zhan (SIO Group: MetService/Yizhe Zhan)
- 2) Alek Petty (SIO Group: NASA GSFC)
- 3) Walt Meier (SIO Group: NSIDC/Walt Meier)
- 4) Andrew Barrett (SIO Group: U. Colorado/NSIDC/Slater-Barrett)
- 5) Francis Diebold (SIO Group: UPenn Group/Diebold et al.)
- 6) François Massonnet (SIO Group: APPLICATE Benchmark)
- 7) Michel Tsamados (SIO Group: CPOM)
- 8) Xiaojun Yuan (SIO Group: Lamont/Yuan and Li)
- 9) Dmitri Kondrashov (SIO Group: Kondrashov, Dmitri; UCLA)

9:55 am: Short Q&A and discussion - commonalities and take-home points from statistical group talks

10:00 am: **BREAK** (Zoom chat room will be available during break)

10:30 am: Finalize breakout group discussion topics and instructions

Breakout Groups Session I

10:45 am: Breakout Group Discussion

Topics:

1. Skill metrics, method of verification, intercomparison
2. Responding to user needs & meeting broader impacts goals
3. Other topics (including breakout sessions organized by method), as participants suggest

Discussion Questions:

- First, introductions of breakout group members
- Share and discuss successes and challenges around the topic
- Share and discuss recommendations for future activities to improve forecasting
- Share and discuss ideas and recommendations for future networking and collaboration activities
- Be prepared to share main take-home points in plenary (2 minutes for each group)

11:45 am: Return to Plenary

- Rapporteurs share main take-home points from discussions: 2 minutes per group
- Discuss ideas for breakout topics for tomorrow

12:00 pm: **Adjourn for the day**

Friday, 22 January 2021

8:00 am: Re-cap of Thursday and Review Plan for the Day

Plenary Talks

8:05 am: Seasonal Forecasts: The Hurricane Perspective (Louis-Philippe Caron, Barcelona Supercomputing Center)

8:15 am: Insights from the SIO Contributor Survey (Joe Little, U. of Alaska, SIPN2 Leadership Team)

8:25 am: The Role of Sea Ice Initial Conditions in the Sea Ice Outlook (Edward Blanchard-Wrigglesworth, U. of Washington, SIPN2 Leadership Team)

[An additional pre-recorded plenary talk on “Comparison of sea ice extents from eight harmonized sea ice concentration products” by Walt Meier and Scott Stewart (NSIDC), is available for meeting participants on the Forum webpage].

8:35 am: Finalize breakout group discussion topics and instructions

Breakout Groups Session II

8:45 am: Breakout Group Discussion Topics:

1. Predictability
2. Initialization & data assimilation
3. Other topics, as participants suggest

Discussion Questions:

- First, introductions of breakout group members
- Share and discuss successes and challenges around the topic
- Share and discuss recommendations for future activities to improve forecasting
- Share and discuss ideas and recommendations for future networking and collaboration activities
- Be prepared to share main take-home points in plenary (2 minutes for each group)

9:45 am: Return to plenary

- Rapporteurs share main take-home points from discussions: 2 minutes per group
- Discussion

10:00 am: **BREAK** (Zoom chat room will be available during break)

Breakout Groups Session III

10:30 am: Breakout Group Discussion Topics:

1. Predictability
2. Initialization & data assimilation

3. Other topics, as participants suggest

Discussion Questions:

- First, introductions of breakout group members
- Share and discuss successes and challenges around the topic
- Share and discuss recommendations for future activities to improve forecasting
- Share and discuss ideas and recommendations for future networking and collaboration activities
- Be prepared to share main take-home points in plenary (2 minutes for each group)

Plenary Discussion

11:30 am: Plenary Discussions

- Rapporteurs share main take-home points from discussions: 2 minutes per group
- Discussion

11:50 am: Final Polls (2021 sea ice maximum and minimum) and door prizes announced! (ARCUS)

11:55 am: Wrap-up and Next Steps

- Volunteers for working on meeting report/peer-reviewed article (can put in chat, raise hand, or respond to an email after the meeting)
- Meeting evaluation (link will be provided in zoom)

12:00 pm: **Workshop Adjourns – Thank You!**