2020 Sea Ice Outlook (SIO)

An Activity of the Sea Ice Prediction Network—Phase 2 (SIPN2)

Submission Form for the July Report

Please use this pdf only if you are unable to submit via the online form found at: https://nsidc.org/data/sipn/form-submission.

Dear Community Members,
Your continued participation in the Sea Ice Outlook (SIO) is always much appreciated and is especially valued this year during the COVID-19-related disruptions to our personal and professional lives. The SIPN leadership team extends our wishes for your good health and well-being.

Submission Guidelines:

1. Please use the form below to enter your information for the core requirements. Required responses are indicated with an asterisk* — these include responses to Sections 1-6. Response to question 7 is required if sea-ice concentration or sea-ice thickness are used. Response to Section 8 questions a), b), and c) are optional, but answers are encouraged.
2. In addition, we encourage you to submit related files such as:
    - A more detailed Outlook report, including discussions of uncertainties/probabilities, including any relevant figures, imagery, and references.
    - Regional Outlooks.
    - Informal contributions.
3. We strongly encourage all participants whose methods provide information at the local scale to provide full spatial fields (i.e., fields with time and/or ensemble dimensions in addition to latitude/longitude) via the SIPN Data Portal, found at: https://atmos.uw.edu/sipn.

    Spatial field submissions are invited for:

    - Sea ice probability, first ice-free day, sea ice concentration, and sea ice thickness.
    - Dynamical model contributors to include initial conditions, particularly sea ice concentration and sea ice thickness or ice thickness distribution, with the date of initialization documented.
    - The September 2020 80% sea ice concentration contour for Fram Strait.

Note: *First ice-free dates for Hudson Bay will be calculated from the full spatial fields that cover this region. Outlooks for sea-ice advance dates will be invited for the August SIO report and submitted via the SIPN Data Portal, found at: https://atmos.uw.edu/sipn.*

To submit full spatial fields, contact Ed Blanchard (ed@atmos.uw.edu) to get the password for ftp. For more information, see the SIPN Data Portal at: https://atmos.uw.edu/sipn.

For examples and definitions of the sea ice probability, first ice-free day, and date of ice advance metrics, go to: https://www.atmos.washington.edu/~ed/sio_metrics.

For additional information, available on the SIPN2 Sea Ice Outlook webpage, go to: https://www.arcus.org/sipn/sea-ice-outlook.

Questions, including how to submit contributions that may not fit into the monthly report format, may be directed to Betsy Turner-Bogren, ARCUS (betsy@arcus.org).

A reply message, to confirm receipt of your contribution, will be sent to your email.
*** Your E-mail address:** _____

***New in 2020**: this year, a separate submission form will be used for each monthly report (June, July, and August). We will provide the link to each submission form in the corresponding call for contributions. Contributors will still have the option to indicate that they will use the same Outlook for multiple months.*

Section 1

* Confirm whether your submission is for July only, or to be also included in the August report. (check one box):

_____ Include this submission in the July report only.
_____ Include this submission in both the July and August reports.

Section 2

* a) What is the type of your Outlook projection?

_____ Dynamic Model
_____ Statistical
_____ Heuristic
_____ Mixed
_____ Other

If "Other", please give more information here: _____
_____

*b) If this is a Dynamic Model, please specify the name of the model as a whole and each component including version numbers and how the component is initialized:

_____
_____

Section 3

Contributor Name(s)

* a) Brief text to label your contribution in the report figures (i.e., name of contributing organization and name of Outlook team lead): _____

Note: We will use no more than 30 characters to label your contribution in the report (e.g., ARCUS Group [Wiggins, et al.]).

* b) Full list of name(s) and organization(s) for all members of the contribution team. Indicate primary contact and total number of people who may have contributed to your Outlook, even if not included on the author list:_____

_____

c) If this is a contribution from a person or group not affiliated with a research organization please check this box: _____ Yes, this contribution is from a "Citizen Scientist."

Section 4

We are again accepting both pan-Arctic and pan-Antarctic sea ice extent (either one or both) of the September monthly mean. As in recent years, we are also collecting Alaskan regional sea ice extent. To be consistent with the validating sea ice extent index from NSIDC, if possible, please first compute the average sea ice concentration for the month and then compute the extent as the sum of cell areas > 15%.

* a) Pan-Arctic September extent prediction in million square kilometers.
Your answer: _____

b) Same as in (a) but for pan-Antarctic. If your method differs substantially from that for the Arctic, please enter it as a separate submission.
Your answer: _____

c) Same as in (b) but for the Alaskan region. Please also tell us the maximum possible extent if every ocean cell in your region were ice covered.
Your answer: _____

Note: *Optional submissions for Fram Strait will be accepted.*

For those interested, we invite submission of projections of the September 2020 80% sea ice concentration for Fram Strait, which offers an opportunity to investigate predictability in the region where the MOSAiC cruise is expect at that time. These forecasts can be spatial field forecasts of the region, or you can submit the pan-Arctic field of the September 2020 80% sea ice concentration contour. These forecasts can be submitted via the SIPN Data Portal (https://atmos.uw.edu/sipn).
(For information about the MOSAiC cruise, see: https://mosaic-expedition.org.)

Section 5

*"Executive summary" of your Outlook contribution (using 300 words or less), describe how and why your contribution was formulated. To the extent possible, use non-technical language.
Use 300 words or less: _____

_____

_____

Section 6

* Brief explanation of Outlook method.

Use 300 words or less: _____

_____

_____

Section 7

* a) Tell us the dataset used for your initial Sea Ice Concentration (SIC). (required for dynamical outlooks)

Your answer: _____

_____

***Note**: Include source (e.g., which data center), name (algorithm), DOI and/or data set website, and date (e.g., "NSIDC NASA Team, https://nsidc.org/data/nsidc-0081, https://doi.org/10.5067/U8C09DWVX9LM.")*

* b) Tell us the dataset used for your initial Sea Ice Thickness (SIT) used. Include name and date.

Your answer: _____

_____

The rest of the questions are optional but your answers are encouraged.

Section 8

If available from your method.

a) Uncertainty/probability estimates:

- *Median*

  Your answer, if applicable: _____

- *Ranges*

  Your answer, if applicable _____

- *Standard deviations*

  Your answer, if applicable _____

b) Brief explanation/assessment of basis for the uncertainty estimate (1-2 sentences).

Your answer: _____

_____

c) Brief description of any post processing you have done (1-2 sentences).

Your answer: _____

_____

Send Detailed Outlook Report (optional) via email to: sio2020@arcus.org.

Includes discussions of uncertainties/probabilities, any relevant figures, imagery, and references.

Files must be less than **20 MB**.

Allowed file types: **pdf**.