

# 2020 Sea Ice Outlook (SIO)

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

## Submission Form for the August 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.

***New for the August SIO Report:*** *Forecasts for sea-ice advance dates (IAD) will be calculated from the full spatial fields of sea ice concentration that extend through the ice-advance season. Or, contributors can submit the IAD fields directly. (See: [Metrics for the Sea Ice Outlook](#).)*

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](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**

\* Please confirm:

\_\_\_\_\_ Include this submission in the August SIO report.

**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: For the August report, we will not accept submissions for the September 2020 80% sea ice concentration contour in Fram Strait because the [MOSAIC cruise](<https://mosaic-expedition.org/>) evacuated the floe on 29 July 2020 and this information is no longer needed.*

**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:

- o Median

Your answer, if applicable: \_\_\_\_\_

- o Ranges

Your answer, if applicable \_\_\_\_\_

- o 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](mailto: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**.