

Sea Ice Outlook
2019 August Report
Individual Outlook

Name of contributor or name of contributing organization:

ARCUS Team (Wiggins et al.)

Is this contribution from a person or group not affiliated with a research organization?

Name and organization for all contributors. Indicate primary contact and total number of people who may have contributed to your Outlook, even if not included on the author list.

ARCUS Team members include Arctic Research Consortium of the U.S. (ARCUS) staff members: Helen Wiggins, Betsy Turner-Bogren, Brit Myers, Lisa Sheffield Guy, Judy Fahnestock, and Kuba Grzeda; and ARCUS Board members: Joe Hardesty, Diane Hirshberg, Adrian Gall, and Craig Fleener

Do you want your June contribution to automatically be included in subsequent reports? (If yes, you may still update your contribution via the submission form.)

Include this submission in both the July and August reports.

What is the type of your Outlook projection?

Heuristic

Starting in 2017 we are accepting both pan-Arctic and pan-Antarctic sea ice extent (either one or both) of the September monthly mean. As in 2016, 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.

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.

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

"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.

The ARCUS team submission is the median of the September monthly average mean sea ice extent values contributed by 10 ARCUS team members.

Brief explanation of Outlook method (using 300 words or less).

ARCUS staff and board members were invited to provide an informal guess of the 2020 September minimum sea ice extent, defined as the September monthly average. Ten individuals participated.

Tell us the dataset used for your initial Sea Ice Concentration (SIC).

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

If you use 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:

[DynamicModelType]

If available from your method.

a) Uncertainty/probability estimates:

Median

4.34

Ranges

Range: 3.79 — 4.86

Standard Deviations

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

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