

Sea Ice Outlook
2023 July Report
Individual Outlook

Name of contributor or name of contributing organization:

NCEP-EMC (Wu 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.

NCEP-EMC (Wu et al.)

**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.)**

[Do you want your contribution for this month to automatically be included in subsequent reports?]

What is the type of your Outlook projection?

Dynamic Model

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.

| | | |
|------------|-------------------|-------------|
| Atmosphere | NCEP GFS | NCEP CDAS |
| Ocean | GFDL MOM4 | NCEP GODAS |
| ICE | Modified GFDL SIS | SIC nudging |

c) 244 ensemble members (May 1-June 30 2023, each day from all 4 cycles)

If available from your method.

a) Uncertainty/probability estimates:

Median

Lower error bound

Lower error bound

Standard Deviation

0.32

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).