Name of contributor or name of contributing organization:

NCEP CPC

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 CPC

Total number of people: 2

Primary contact; Wanqiu Wang (Wanqiu.Wang@noaa.gov)

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.)

This is a new submission.

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.

4.55

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.

0.61

"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.

This contribution is from a 20-member ensemble forecast from the Climate Prediction Center Experimental sea ice forecast system (CFSm5). Model bias that is removed is calculated based on 2006-2018 retrospective forecasts and corresponding observations.

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

The outlook is produced from the Climate Prediction Center Experimental sea ice forecast system (CFSm5). The forecast is initialized from the Climate Forecast System Reanalysis (CFSR) for the ocean, land, and atmosphere and from the CPC sea ice initialization system (CSIS) for sea ice. Twenty forecast members are produced. Model bias that is removed is calculated based on 2006-2018 retrospective forecasts and corresponding observations.

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

Both sea ice concentration and sea ice thickness are initialized from the CPC sea ice initialization system (CSIS). The CSIS analysis is produced with GFDL MOM5 which uses surface fields from CFSR and assimilates satellite sea ice concentration retrieval from NSIDC NASA.

Tell us the dataset used for your initial Sea Ice Thickness (SIT) used. Include name and date.
Both sea ice concentration and sea ice thickness are initialized from the CPC sea ice initialization system (CSIS). The CSIS analysis is produced with GFDL MOM5 which uses surface fields from CFSR and assimilates satellite sea ice concentration retrieval from NSIDC NASA Team

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:

Not Specified

If available from your method.
ap) Uncertainty/probability estimates:

Median

Ranges

Standard Deviations

0.24

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

The standard deviation is calculated from the 20-member ensemble.

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

Twenty forecast members are produced. Model bias that is removed is calculated based on 2006-2018 retrospective forecasts.