

SEA ICE PREDICTION NETWORK (SIPN)
Template for Pan-Arctic Sea Ice Outlook Core Contributions
June 2015 Report

***REQUIRED**

1. *Contributor Name(s)/Group – how you would like your contribution to be labeled in the report (e.g., Wiggins et al.)
Meibing Jin. Labeled as Jin/IARC
2. *"Executive summary" about your Outlook contribution (max 300 words)
Say in a few sentences what your Outlook contribution is and why. To the extent possible, use non-technical language.
A coupled ice-ocean model forecast of the September sea ice extent minimum.
3. *Type of Outlook projection
dynamic model

If you use a model, please specify:

Model Name Jin/IARC

Components of the model: Atmosphere_GFDL_, Ocean_POP_, Ice_CICE_, Land_no_,

For models lacking an atmosphere or ocean, please describe the forcing:

4. *September monthly average projection (extent in million square kilometers. To be consistent with the validating sea ice extent index from NSIDC, if possible please first compute the average concentration for the month and then compute the extent as the sum of area of all cells > 15%.)

5.06

5. *Short explanation of Outlook method (max 300 words)
In addition, we encourage you to submit a more detailed Outlook, including discussions of uncertainties/probabilities, including any relevant figures, imagery, and references.
If this is a model contribution, please include method of method of initialization and variable used.

The model is initialized with PHC data and runs from 1958-2009 with CORE 2 forcing, 2010-2016 with GFDL IPCC atmospheric model output.

6. Projection uncertainty/probability estimate for September extent (only required if available with the method you are using)

No estimate of uncertainty, because there is only one model run.

7. Short explanation/assessment of basis for the uncertainty estimate in #6 (1-2 sentences)

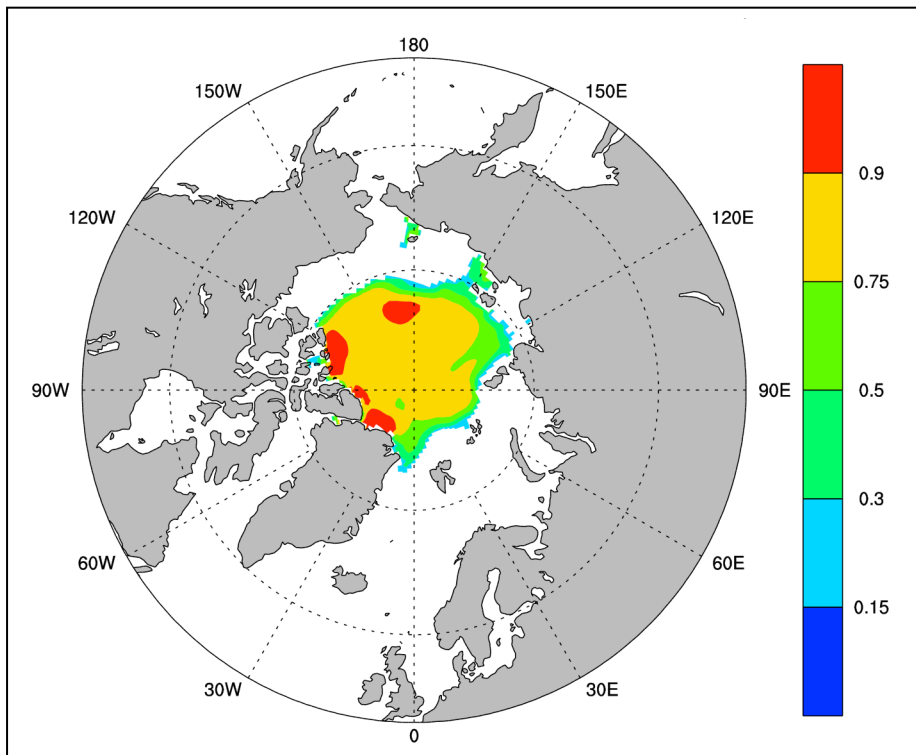


Figure: Modeled September mean ice concentration. Ice concentration <0.15 is not plotted.