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

1. Contributor Name(s)/Group

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2. Type of Outlook projection

   Numerical (time-stepping) Model___ Statistical_✓_ Heuristic___

   If you use a numerical model, please specify:
   Model Name _____

   Components of the model (please check):
   Atmosphere___ Ocean___ Ice___ Land___

   For a model that lacks an atmosphere and/or ocean component, please specify forcing sources_____

   Are you initializing your method with data from May (or earlier), June, or July?:_____

3. September monthly average projection (in million square kilometers)
   5.37(4.76-5.97) No change from July forecast
4. Short explanation of Outlook method (1-3 sentences)
   If this is a model contribution, please include method of initialization and variable used. In addition, we encourage you to submit a more detailed Outlook, including discussions of uncertainties/probabilities and any relevant figures, imagery, and references.

A simple statistical model is used to predict monthly Arctic sea ice extent. The sea ice extent of September has a positive correlation with the extent of Jan. to Apr. in the same year, and has a good correlation with the extent of September of 3 years before. The multiple regression method and optimal climate normal method are combined to predict the sea ice extent of September.

5. Projection uncertainty/probability estimate (but only required if available with the method you are using)

6. Short explanation/assessment of basis for the uncertainty estimate in #5 (1-2 sentences; only required if available with the method you are using)

7. "Executive summary" about your Outlook contribution
   1-3 sentences, to be used in Outlook summary: say in a few sentences what

your Outlook contribution is and why. To the extent possible, use non-technical language.

We used a simple statistic method to do the sea ice extent prediction. The sea ice extent of September has a good correlation with the sea ice extent of Jan to Apr of the same year and the extent of September 3 years ago. Combined the multiple regression method and optimal climate normal method, we derived the sea ice extent of September this year is 5.37 million square kilometers.