

## SEA ICE PREDICTION NETWORK (SIPN)

### Template for Pan-Arctic Sea Ice Outlook Core Contributions

August Report (Using July Data)

1. \*Contributor Name(s)/Group

Andrew Slater

2. \*Type of Outlook projection  
\_\_\_model  statistical \_\_\_heuristic

If you use a model, please specify:

Model Name **SPIE (I guess?)**

Components of the model: Atmosphere\_\_\_, Ocean\_\_\_, Ice\_\_\_, Land\_\_\_, Coupler\_\_\_

For non-coupled model: Ice , Ocean\_\_\_, Forcing\_\_\_

3. \*September monthly average projection (in million square kilometers)

**5.146 ± 0.35 × 10<sup>6</sup> km<sup>2</sup>**

4. \*Short explanation of Outlook method (1-3 sentences)

This is my standard 50-day forecast

<http://cires.colorado.edu/~aslater/SEAICE/>

At 50 days the method has good skill.

Measured over the period 1995-2013 and applying a similar skill metric to that used in Schroder *et al.* 2014, the skill level is only of order 0.58-0.62, which is much greater than the skill of persistence.

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

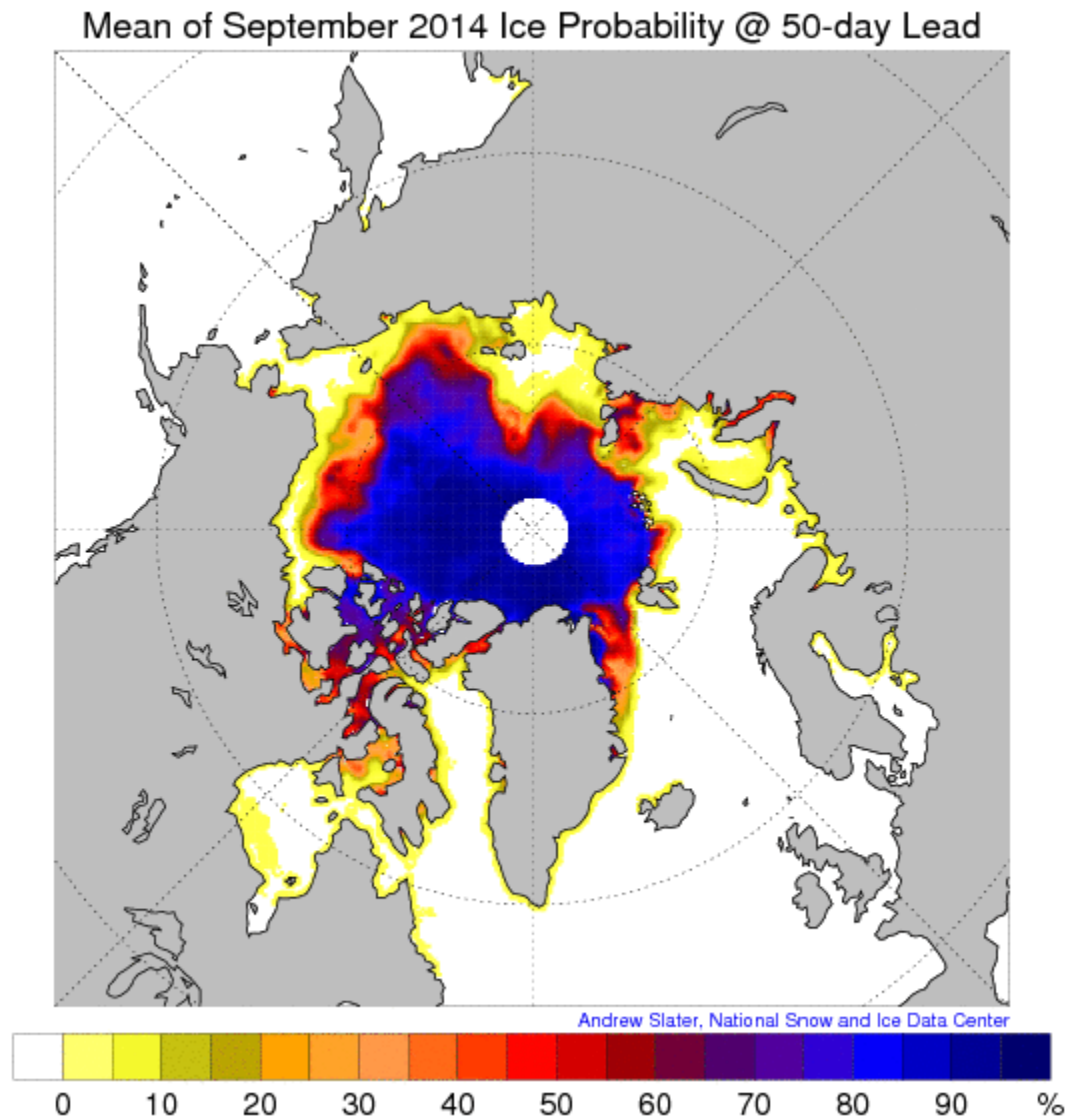
0.35 × 10<sup>6</sup> km<sup>2</sup>

6. Short explanation/assessment of basis for the uncertainty estimate in #5 (1-2 sentences)

0.35 × 10<sup>6</sup> km<sup>2</sup> is the RMSE of my results for Sept. mean at 50-days over the period 1995-2013.

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.

This is my standard 50-day lead time forecast – the mean is derived from averaging the daily values. The model has run operationally throughout the melt season.



Note for interpreting map: if we assume red represents 50%, only 50% of the region colored red will likely have ice of +15% concentration in it.