*REQUIRED*

1. *Contributor Name(s)/Group – how you would like your contribution to be labeled in the report (e.g., Wiggins et al.)
   
   Wanqiu Wang

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 projected September Arctic sea ice extent of $5.7 \times 10^6$ km$^2$ is based on a NCEP ensemble mean CFSv2 forecast initialized from the NCEP Climate Forecast System Reanalysis (CFSR) that assimilates observed sea ice concentrations and other atmospheric and oceanic observations. Raw forecast output is bias-corrected based on the systematic of the forecast for recent years. The uncertainty is estimated as the root mean square (rms) error of the ensemble mean based on CFSv2 hindcasts (1982-2010) and forecasts (2011-2014). Estimated error is $\pm 0.47 \times 10^6$ km$^2$.

3. *Type of Outlook projection
   
   _X_ dynamic model ___statistical ___heuristic ____mixed or other: (specify)

   If you use a model, please specify:
   
   Model Name _CFSv2_
   
   Components of the model: Atmosphere _X_, Ocean _X_, Ice _X_, Land _X_,
   
   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 $> 15\%$.)

   Ensemble mean September extent is $5.7 \times 10^6$ km$^2$

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 projected Arctic sea ice extent is based on NCEP ensemble mean CFSv2 forecast initialized from the NCEP Climate Forecast System Reanalysis (CFSR) that assimilate observed sea ice concentration and other atmospheric and oceanic observations. Raw forecast output is bias-corrected based on the systematic of the forecast for the recent years.

6. Projection uncertainty/probability estimate for September extent (only required if available with the method you are using)
   Estimated error is ±0.47×10^6 km^2

7. Short explanation/assessment of basis for the uncertainty estimate in #6 (1-2 sentences)
   The uncertainty is estimated as root mean square (rms) error of the ensemble mean based on CFSv2 hindcasts (1982-2010) and forecasts (2011-2014).