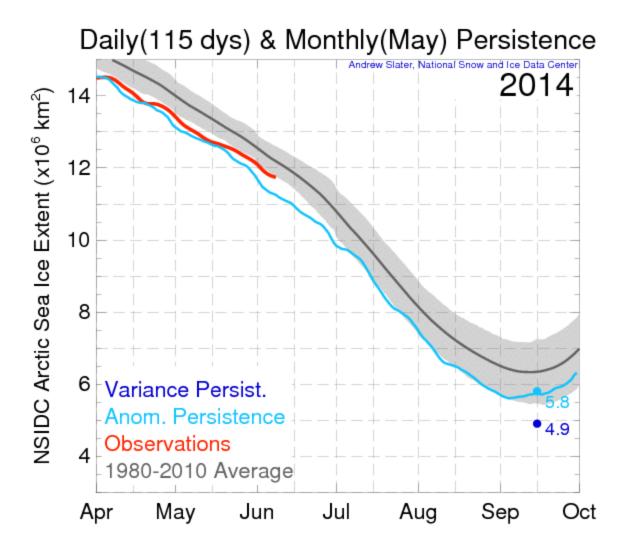
SEA ICE PREDICTION NETWORK (SIPN)

Template for Pan-Arctic Sea Ice Outlook Core ContributionsJune Report (Using May Data)

*Required
1. *Contributor Name(s)/Group
Mr. Persistence
2. *Type of Outlook projectionmodel _?statisticalheuristic
If you use a model, please specify: Model Name Persistence Components of the model: Atmosphere, Ocean, Ice, Land, Coupler For non-coupled model: Ice _X_, Ocean, Forcing
3. *September monthly average projection (in million square kilometers)
5.8 or 4.9 x 10 ⁶ km ²
4. *Short explanation of Outlook method (1-3 sentences)
Persistence can be computed in several ways. I have looked out to Sept. for the sake of comparison.
1) Daily anomaly persistence at 115 days lead time (so that I can go all the way to Sep 30th), then compute mean for Sept $= 5.8$
2) Persist the absolute anomaly from May to Sept (using NSIDC monthly value, not mean of daily). Sept = 5.8 (semi-coincidence that it's the same)
3) Persist the standard normal deviate from May to Sept (using NSIDC monthly). Labeled as "Variance Persistence". Sept = 4.9
All three methods have a skill value of less than -1.0 i.e. absolutely no skill ! Skill = as per Schroder et al. 2014 (for +18yrs of data). Shading on 1980-2010 Average is 1 Std. Dev. in the plot below.



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

No uncertainty estimates, but methods have no skill

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

Three different types of persistence forecasting at long lead time. The methods contain no skill.