

Editor's Comment:

Paragraphs are not clear and there is no flow between sentences.

There are still several issues related to its scientific evaluations and comparisons.

Authors Feedback:

The paper discusses first the theoretically possible periodicities of the Arctic climate oscillations. Then it proposes data collected over different time scales of subregional and regional Arctic temperatures and sea ice, namely subregional Arctic sea ice extension results since the 1800s, the latest Cryosat-2 monitoring of the Arctic sea ice thickness since 2010, the satellite Arctic temperatures and sea ice extension since 1979 and the Arctic temperature reconstructions since the 1900s, to understand phases, periodicities and amplitude of the oscillations.

The paragraphs are clear as the flow of the sentences and the general presentation. The different data sets are proposed, with in one case, the continuously evolving NASA GISS product, the evident manipulation of past temperatures from one management to the other discussed.

- 1. Theoretically possible periodicities of the Arctic climate oscillations**
- 2. Subregional Arctic sea ice extension results since the 1800s**
- 3. Latest Cryosat-2 monitoring of Arctic sea ice thickness since 2010**
- 4. Satellite Arctic temperatures and sea ice extension since 1979**
- 5. Arctic temperature reconstructions since the 1900s**
- 6. Discussion and Conclusions**

If the editor has some issues in accepting a paper showing data supporting natural variability and exposing the tampering of information that is unfortunately occurring in major research organization as NASA GISS, I can certainly seek publishing elsewhere, as the paper right now looks quite good to me, while the peers were already happy before.

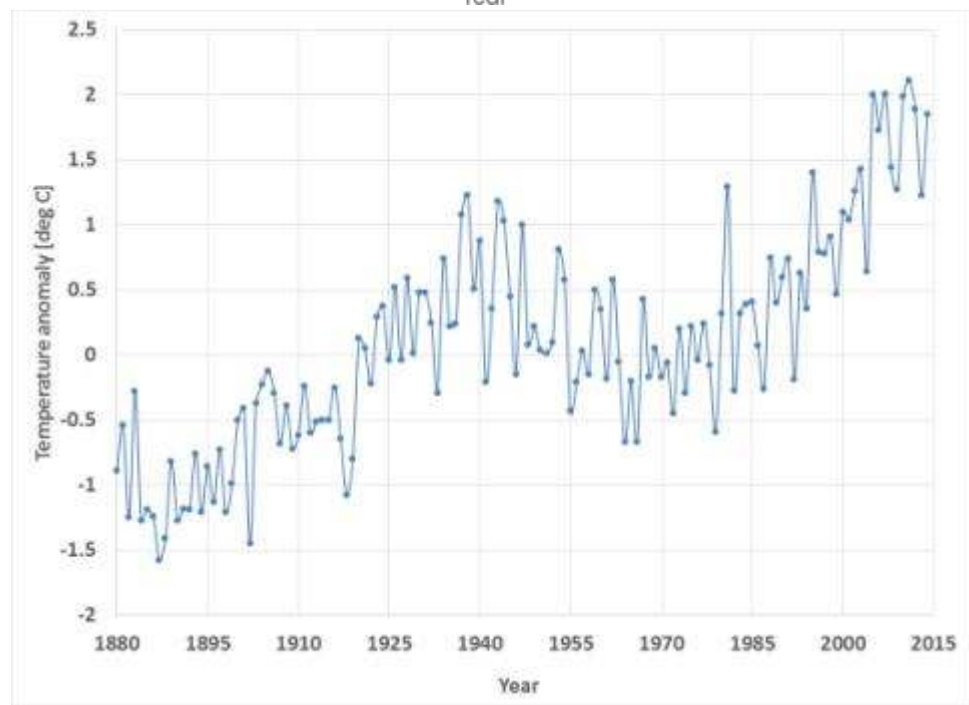
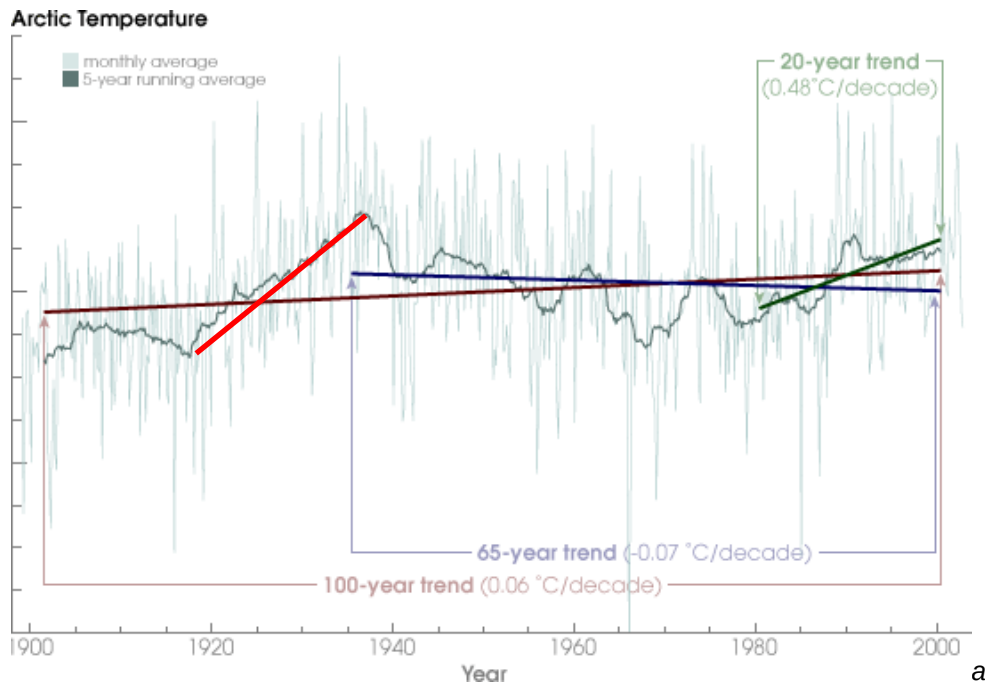


Figure 3 –Trickery and Manipulation of data. a) Arctic temperature from [11]. The temperature about 1940 was largest than 2000 temperature. The warming 1920 to 1940 was much stronger than the warming 1980 to 2000. Over one period of an evident quasi 60 years' oscillation there is no warming. Over a century the warming is about 0.6 C, possibly larger than the global average, but far from dramatic, and includes two complete warming phases and only one complete cooling phase. Image modified after [11]. b) Recently manipulated Arctic temperature from [14]. The temperature of 1940 is now smaller than the temperature of 2000 and there is a much stronger warming trend over the past century. By accepting these arbitrary revisions of the past history the opportunity to understand the actual climate patterns reduce drastically.