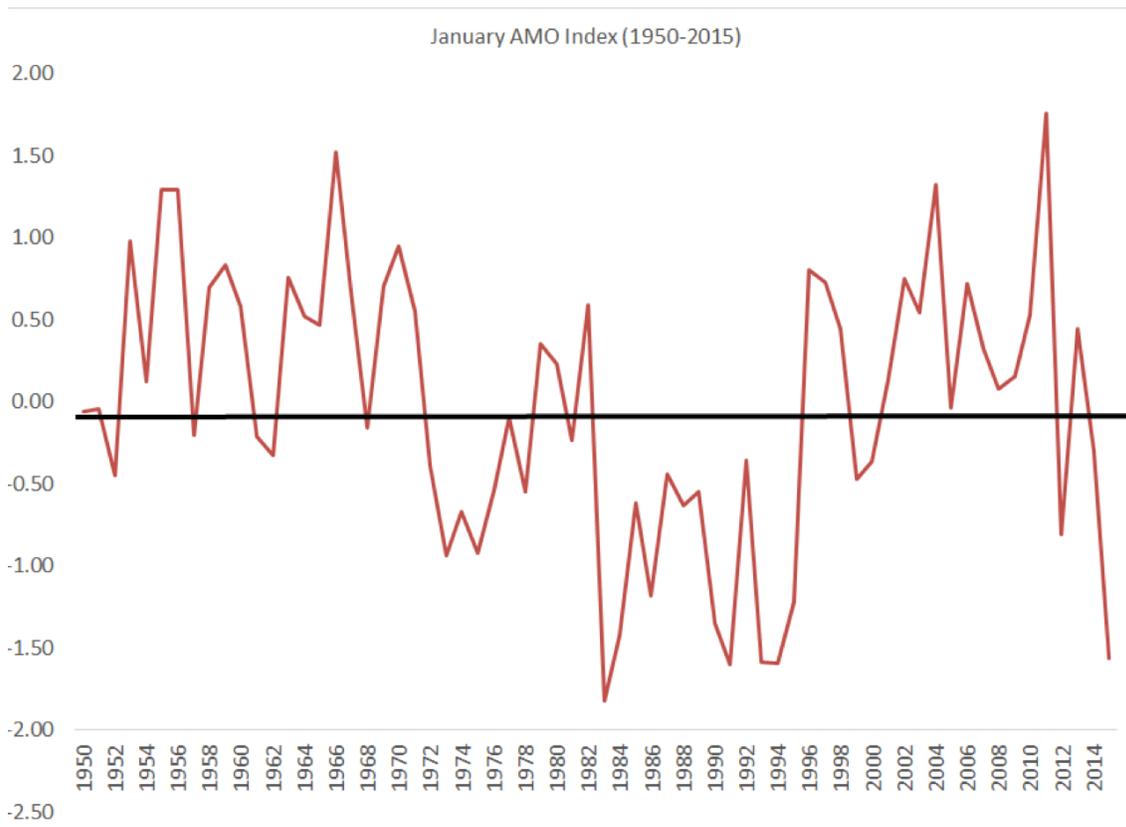


I like the Gray/Klotzbach AMO methodology best because it incorporates changes in other variable to determine the AMO. Phil pointed this out in a morning tweet. See if you recognize that year from some other source (ha ha)

2015 ACE through 4/6 highest on record for NW Pac (49 units), breaking record of 45 set in 1958. Records extend back to 1945 using JTWC.

We are very close to the late 1950s in the climate pattern of the globe!

In any case, this means the end game of the warm AMO is upon us and according to Gray and Klotzbach, methodology may be done!



I spoke at Heartland on this matter and why its dangerous near the US coast.. All the warm water is stacked in next to the coast as the ring of cool develops in the eastern Atlantic and the MDR regions of the tropics. Stick a storm over water 2C warmer than normal for 24 hours and you have real problems in peoples back yards.

But this is more about the sea ice situation. Its my opinion that the arctic ice cap will recover as the AMO goes to negative in a prolonged fashion, and we have to hope the southern hemisphere returns to where it was, because if we live it well above with the arctic recovery, that is a bigger problem than we have now,

which is global near normal with one side well above, the other below. In any case the warm PDO of 2013 had a sea ice forecast in April that looked like this

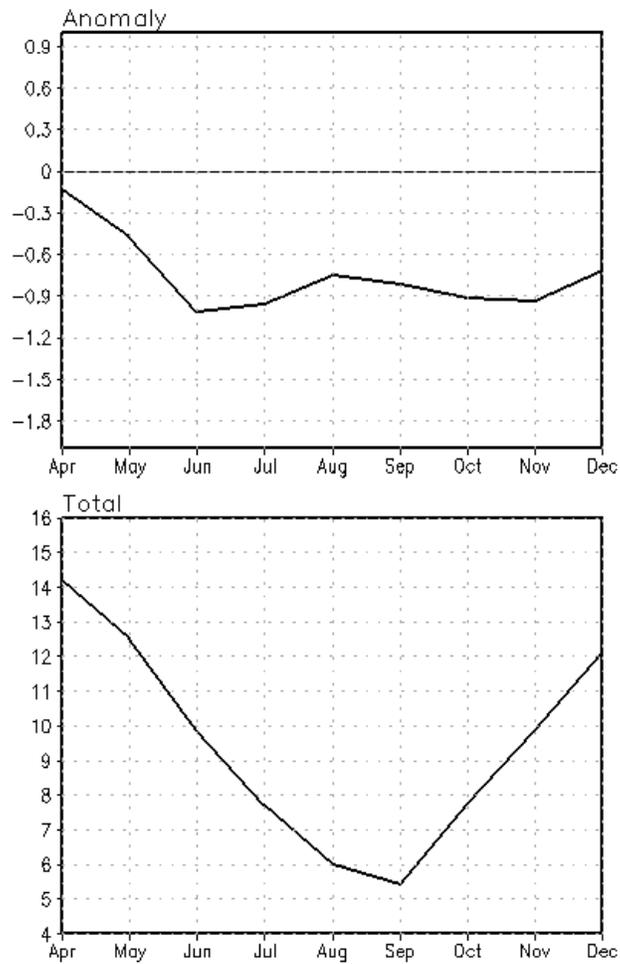


NWS/NCEP/CPC

Initial conditions: 1Apr2013–10Apr2013

Last update: Fri Apr 12 2013

Sea ice extent (10^6 km^2) from CFSv2



It was forecasted to be well below normal and it wound up even lower in Sep, the height of the melt season

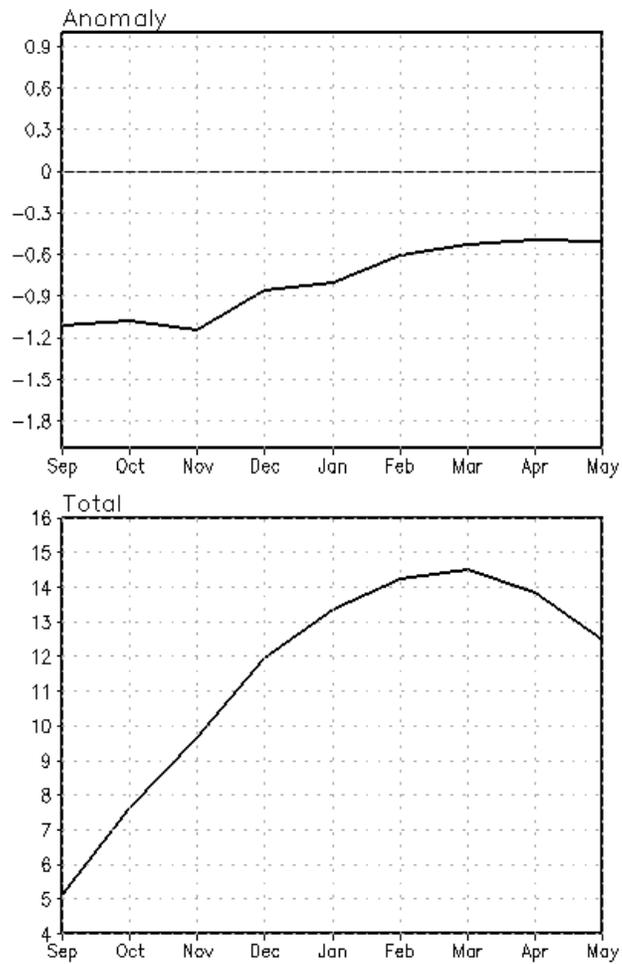


NWS/NCEP/CPC

Initial conditions: 2Aug2013-11Aug2013

Last update: Mon Aug 12 2013

Sea ice extent (10^6 km^2) from CFSv2



Last year it was forecasted much less below normal and subsequent runs went to positive, which never happened. But the melt lass year was less than the year before, and perhaps that is what its starting to see!

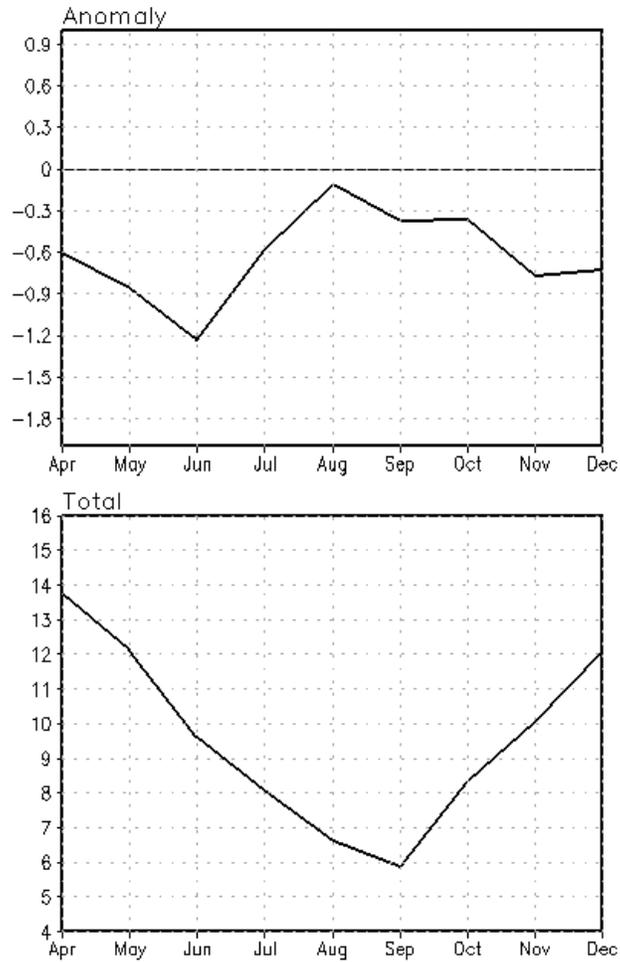


NWS/NCEP/CPC

Initial conditions: 1Apr2014–10Apr2014

Last update: Sat Apr 12 2014

Sea ice extent (10^6 km^2) from CFSv2



Actual

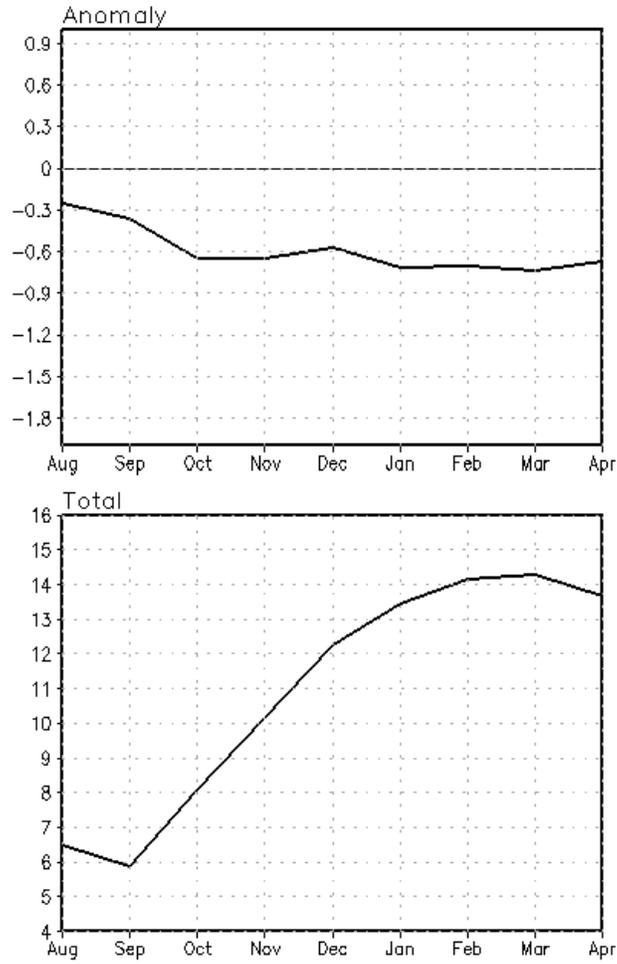


NWS/NCEP/CPC

Initial conditions: 1Aug2014–10Aug2014

Last update: Wed Aug 13 2014

Sea ice extent (10^6 km^2) from CFSv2



Now I was really amazed at how much above normal it had it on runs later, so much so I posted on it here on WUWT as well as Weatherbell.com, where this is for subscribers too.. But you can see the amount of melt last year did not get the sea ice nearly as low as the year before and no where near the secondary death spiral year of 2012

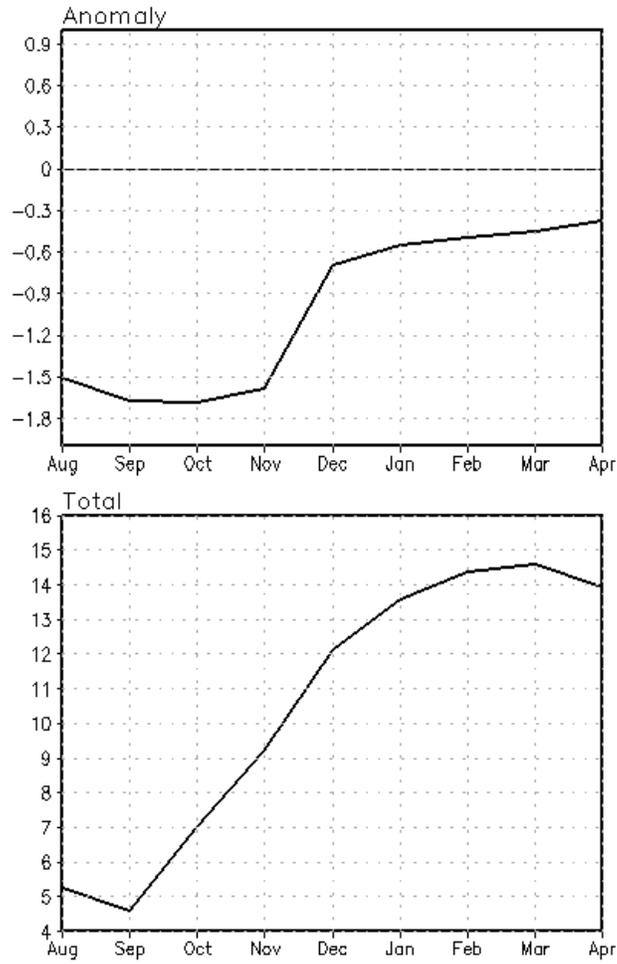


NWS/NCEP/CPC

Initial conditions: 1Aug2012-10Aug2012

Last update: Sun Aug 12 2012

Sea ice extent (10^6 km^2) from CFSv2



This years forecast is the least melt from April (again later runs last year had more) I have ever seen on the CFSV2

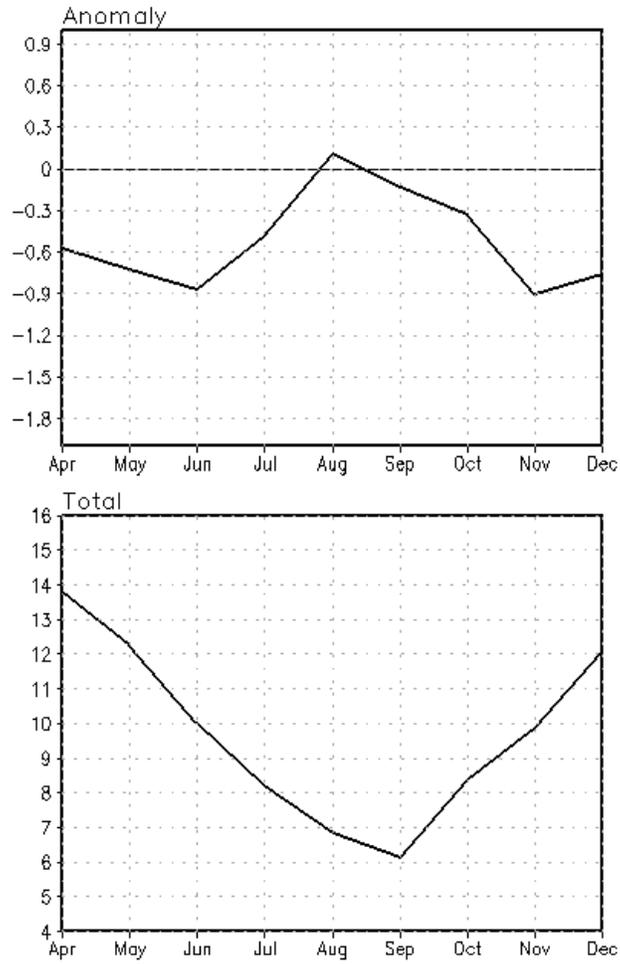


NWS/NCEP/CPC

Initial conditions: 27Mar2015–5Apr2015

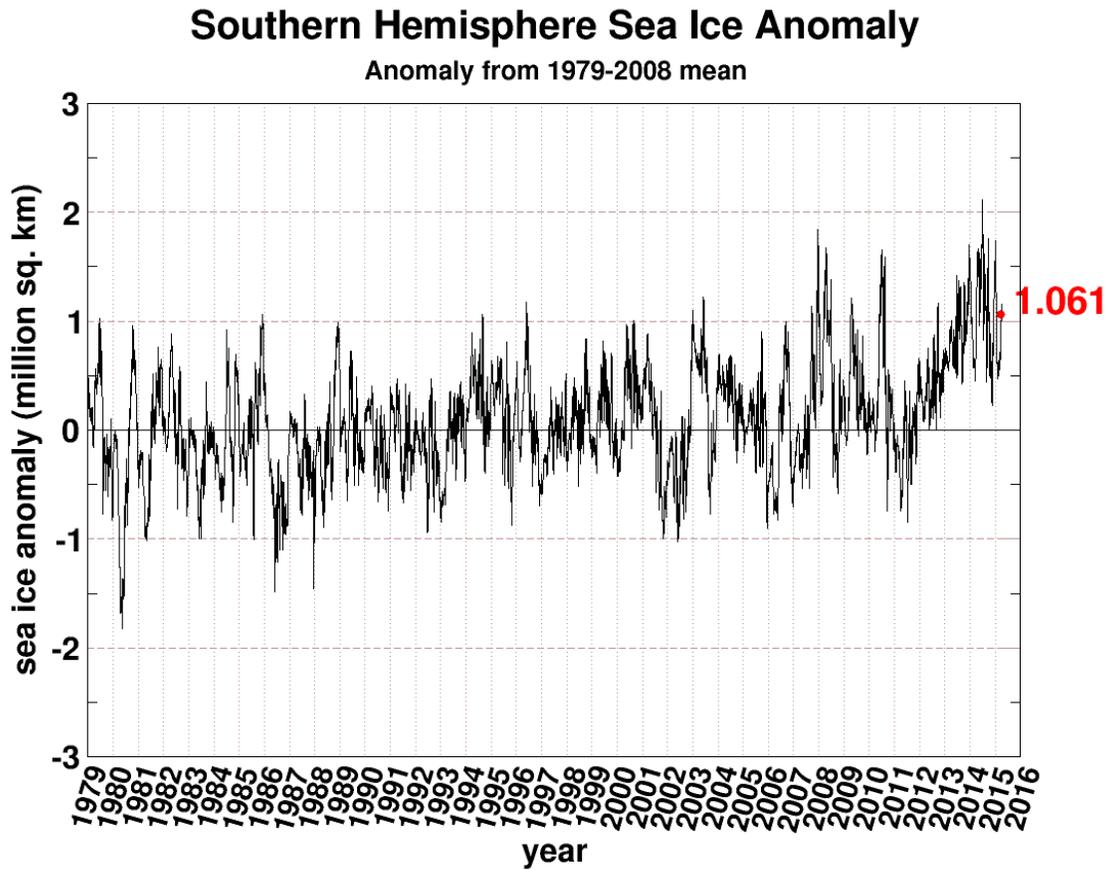
Last update: Tue Apr 7 2015

Sea ice extent (10^6 km^2) from CFSv2



Certainly at the very least, the modeling is saying another year of less summer melt is possible, if not likely. And its also suggesting, given the antics of the AMO, that this is a huge player in the whole scheme of arctic sea ice.

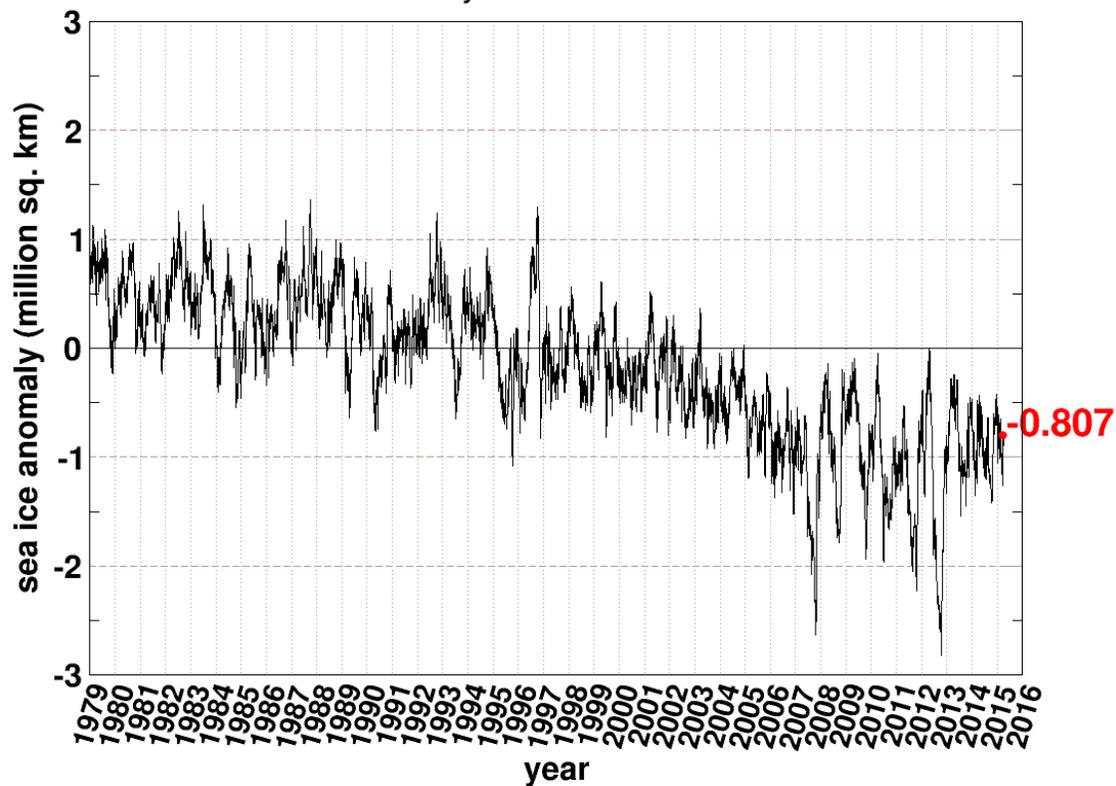
When we look at WUWT, it seems intuitive that there is a cycle o this given southern sea ice increase



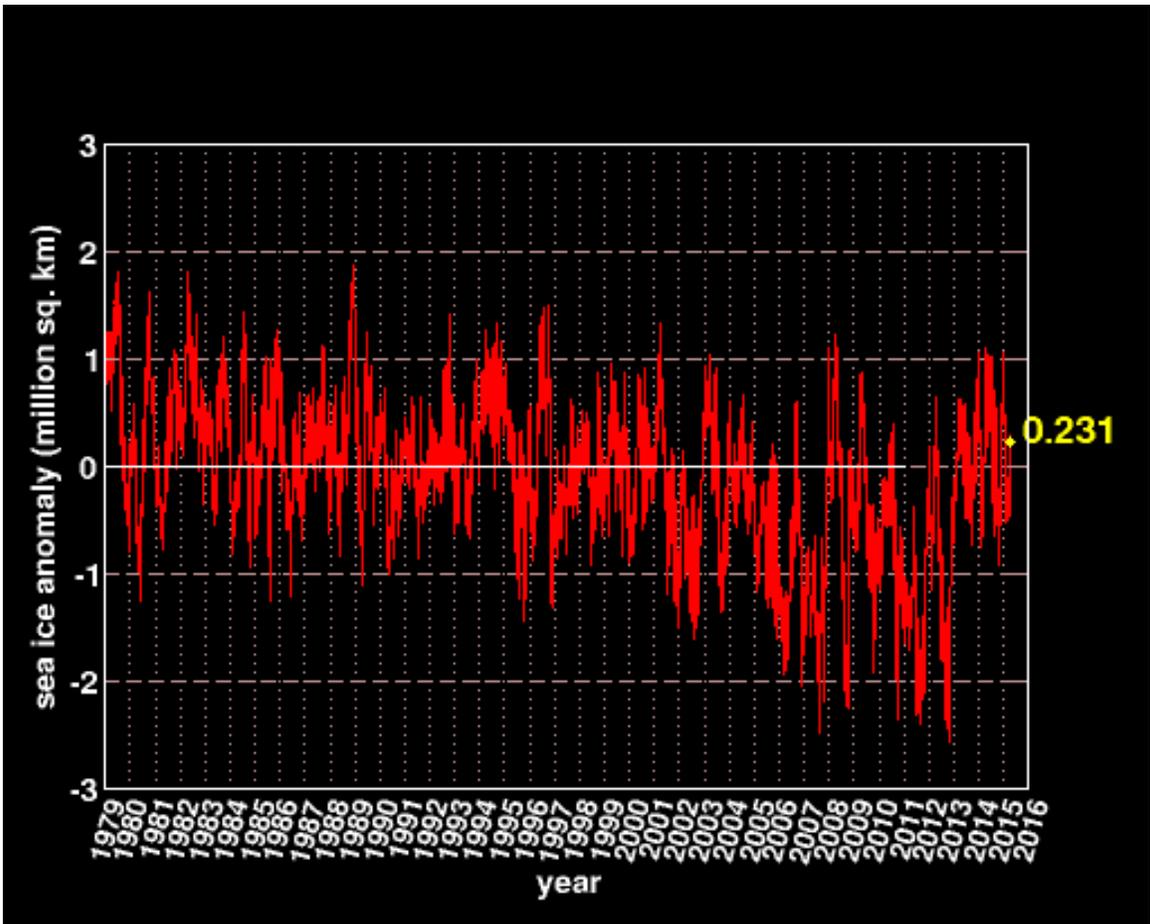
Northern Decrease

Northern Hemisphere Sea Ice Anomaly

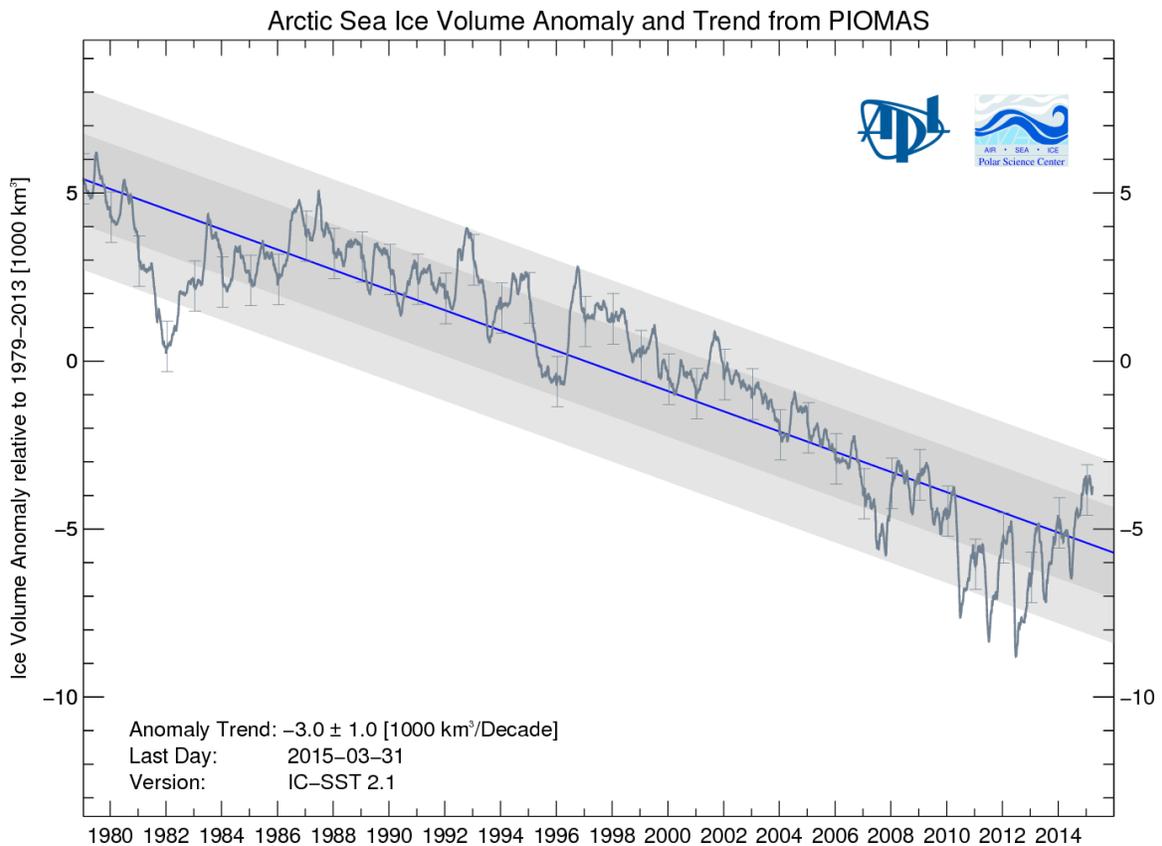
Anomaly from 1979-2008 mean



and total global which since the PDO flip has started up (again we are in a very similar "spike" to the late 1950s, but at that time the Atlantic began its cooling)



Arctic Sea Ice Volume is increasing now



Naturally the counter to all this is that this is a step down function and it will crash worse, all though the doom and gloom of the ice free arctic is nowhere to be found and it was forecasted in several well know circles from 07 for last year (actually a major presidential candidate said it in 04. I guess because he was wrong, he was relegated to secretary of state, so there was a price to pay) But the test is upon us, and I opined back in 2007 that be 2030 the ice cap, and global temps, as measured by objective satellite readings, would return to where they were at the end of the late 1970s, when we started with satellite readings. The current warm PDO will reverse in a few years, the colder AMO should be maturing and then alot of this can be settled. Until then, it will be fun, like last year, to see if perhaps the climate models are starting to see this. While certainly not correct from last year, perhaps their message is they can see the reversal starting, and we can all watch