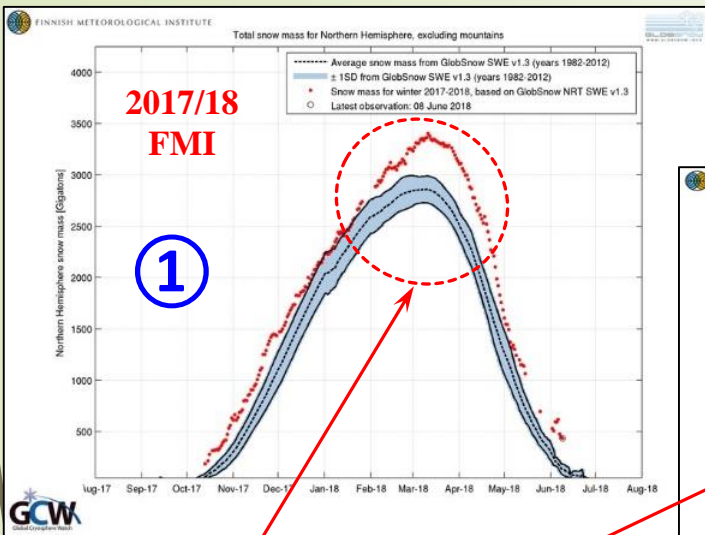
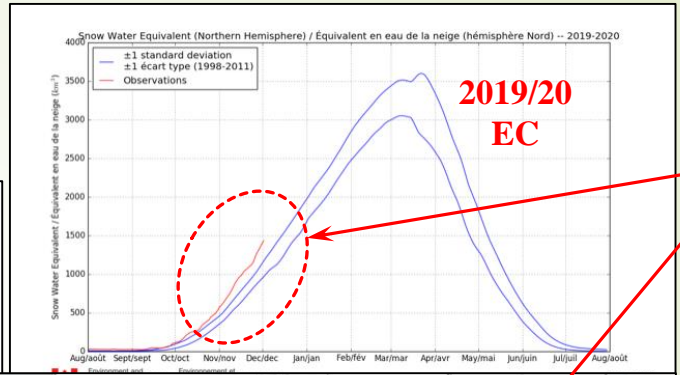
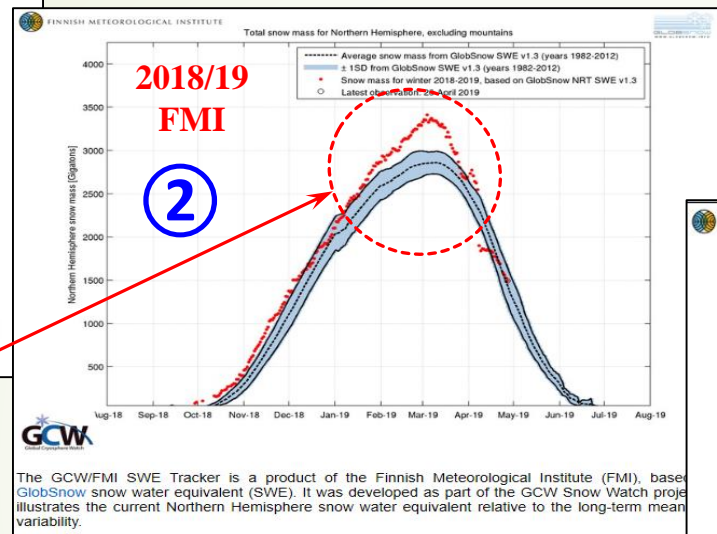


OPS-24 Northern Hemisphere Snow – December 2019 Update

Three heavy snow years in a row!!



The Environment Canada (EC) SWE showed the same above normal snow volumes through 2017/18 and 2018/19 as shown here with the Finnish Meteorological Institute (FMI)..



Snow water equivalents have started significantly above normal for the 2019/2020 winter season.

These are not localized snow events and they're accompanied by abnormal cold!

These events are not anomalies. A Grand Solar Minimum (GSM) pattern is setting up!

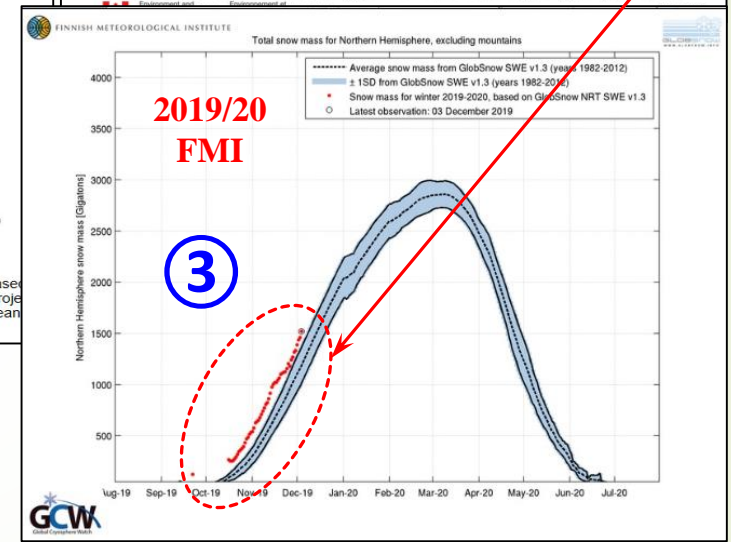
These snow events are consistent with the GSM expectations and will get worse!

These early snowfalls are causing serious problems with the global agricultural community!

These plots don't include events like Calgary's Snowmageddon (September 8th, 2014). That unprecedented early snowfall seriously damaged or destroyed 50% of Calgary's tree canopy (roughly 1 million trees)!

Significant snowfalls were experienced in the Sahara Desert in 2016, 2017 and 2018!

The severe blizzards over the last week have sharply pushed the snow extent up above the normal range.

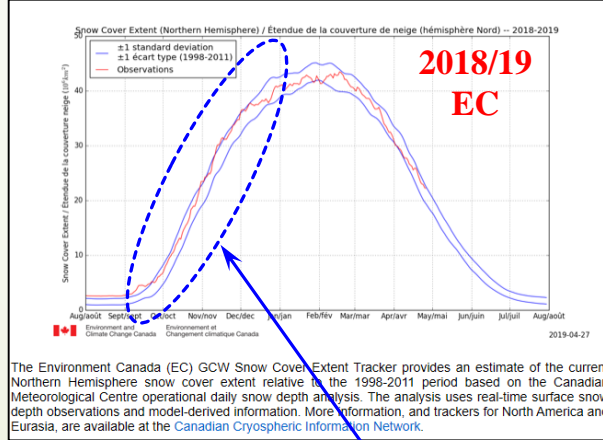


Snow Water Equivalents (SWE) were well above normal for the entire Northern Hemisphere through the 2017/18 and 2018/19 winters

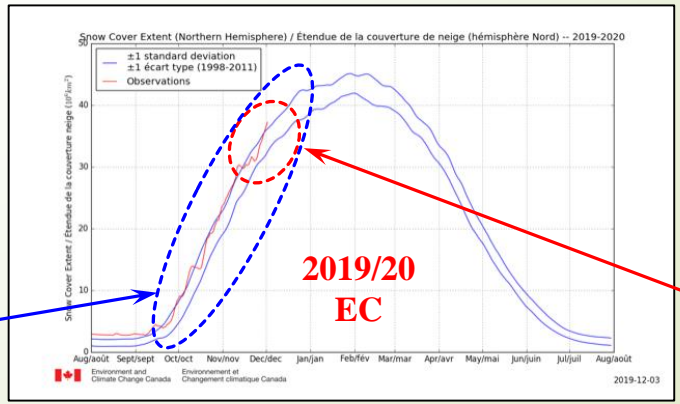
Still pretty sure (95% confidence) all my grandchildren will know what snow is Mr. Gore!!!

And let's not forget that the ice over both Greenland and Antarctica are growing. Stay tuned for OPS-25.

More detail? Google "Ronald Davison climate"



The Environment Canada (EC) GCW Snow Cover Extent Tracker provides an estimate of the current Northern Hemisphere snow cover extent relative to the 1998-2011 period based on the Canadian Meteorological Centre operational daily snow depth analysis. The analysis uses real-time surface snow depth observations and model-derived information. More information, and trackers for North America and Eurasia, are available at the Canadian Cryospheric Information Network.



NH Snow Cover Dec. 2019

The sun (not CO2) is the primary climate driver!