

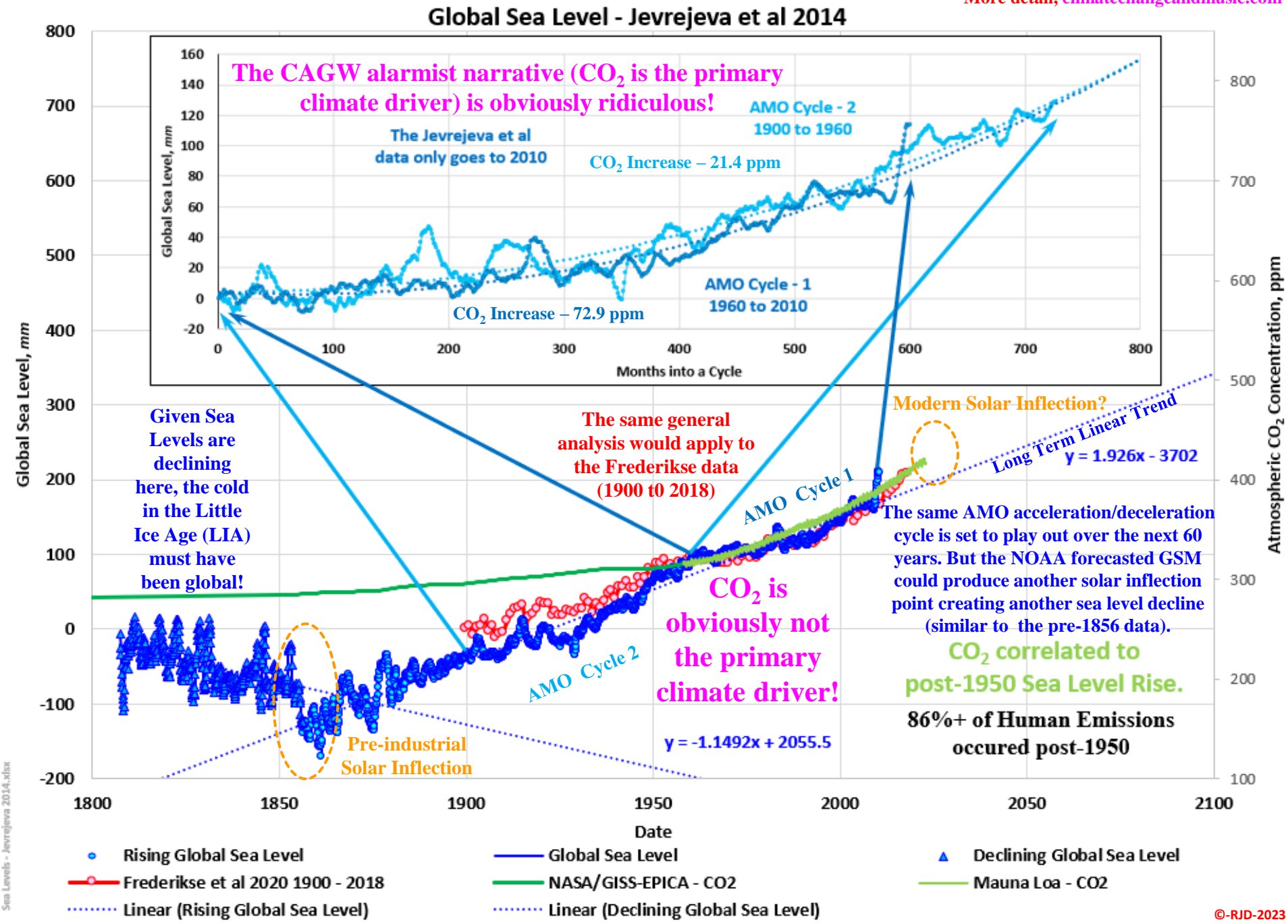
GSM - Grand Solar Minimum. The real "Climate Change" existential threat is right around the corner. Do the Research!

CO₂ and Sea Levels Do Not Correlate!

Sea Levels are primarily driven by temperature. So, why does CO₂ not correlate with Sea Levels? We are constantly told that CO₂ is essentially responsible for the 1.07 C warming since the pre-industrial era. Sea Level rise since 1856 has essentially been linear. Not exactly a good correlation with CO₂ which is more of an exponential rise. I have generally correlated the CO₂ with the post-1950 Sea Level rise (which corresponds to 86%+ of humanity's gross emissions). If you want to cherry pick the data, you can say that Sea Level rise has been accelerating since 1960. But that same acceleration exists from 1900 to 1960 (and pre-1900 to a lesser extent). CO₂ is obviously not responsible for those 60-year cycles of repeated acceleration and deceleration (post-1856). And CO₂ is obviously not responsible for the declining sea levels pre-1856 (CO₂ was virtually flat). Something else is driving Sea Levels (not CO₂). That would be a combination of solar activity and ocean cycles (primarily the Atlantic Multidecadal Oscillation (AMO)). AMO Cycle 2 is likely the AMO and solar activity. AMO Cycle 1 is mostly AMO with some CO₂ contribution (possibly equivalent to the solar forcing for AMO Cycle 2).

CO₂ and Sea Levels (Jevrejeva)

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OPS-75

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Frederikse et al 2020

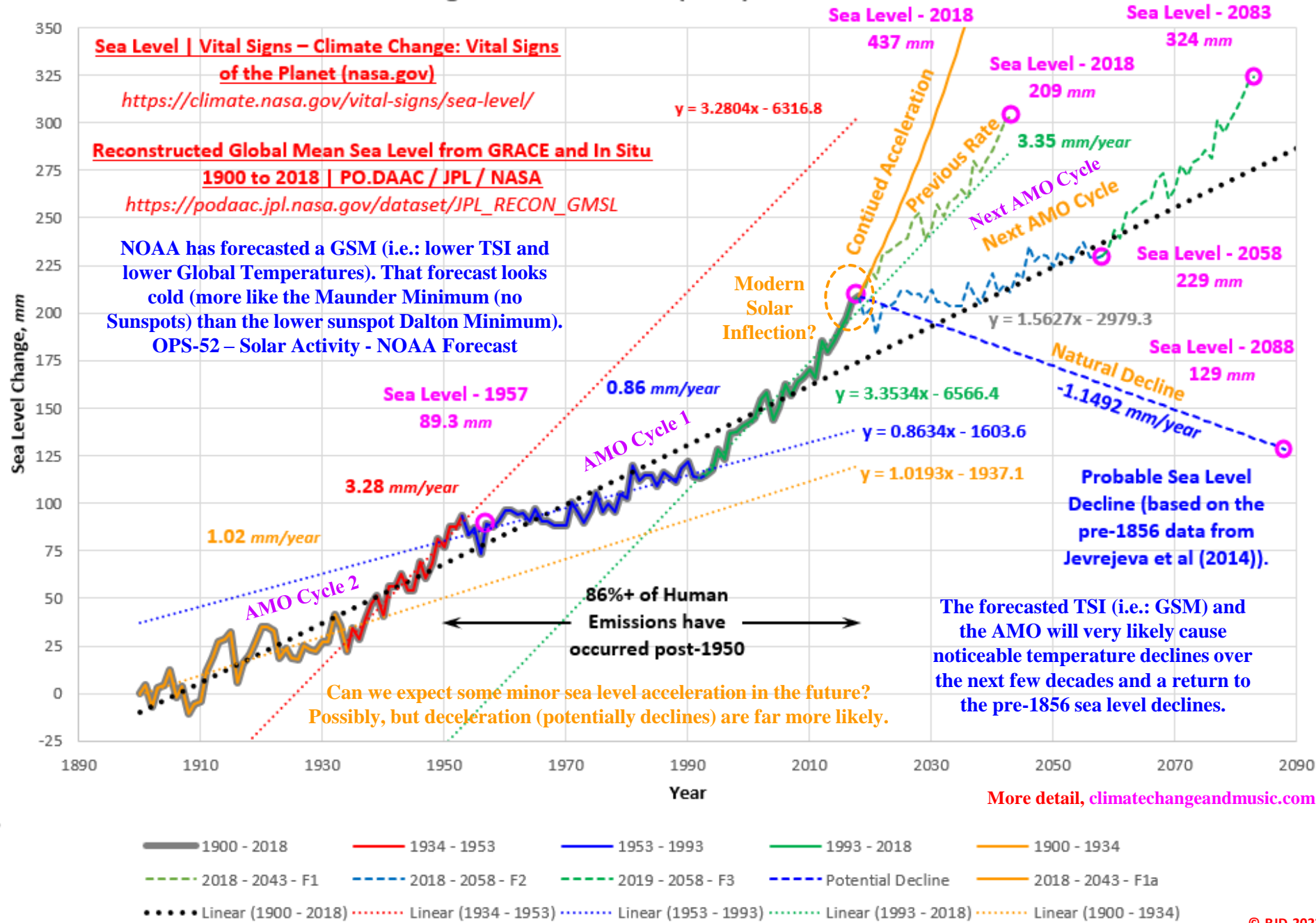
The Frederikse et al 2020 sea level dataset (from NASA's website) is a shorter dataset than the Jevrejeva et al 2014 dataset. But that dataset shows the same deceleration and acceleration cycles (most likely related to the ocean cycles (primarily the AMO)) visible in the Jevrejeva data. This plot adds in some possible future sea level rise projections. The "Continued Acceleration" option would line up with the general CAGW alarmist narrative. Not very likely, given you must ignore both the natural ocean cycle and solar activity influences visible in the Jevrejeva data. The "Previous Rate" option just extends the 1993 to 2018 data into the future.

Again, not very likely for the same reasons. The "Next AMO Cycle" option is moving towards reality by acknowledging the AMO influence. The "Natural Decline" option brings the solar activity back into the discussion and is in my opinion a very likely scenario. The magnitude of that decline is open for discussion, but as shown on the Jevrejeva plot there are natural forcings (solar) that are more powerful than the very minimal influence CO₂ has on Sea Level (and therefore temperatures).

CO₂ and Sea Levels (Frederikse)

The forecasted TSI (i.e.: GSM) and the AMO will very likely cause noticeable temperature declines over the next few decades and a return to the pre-1856 sea level declines.

Sea Level Change - Frederikse et al (2020) - With Possible Forecasts



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CO₂ and Sea Levels Do Not Correlate! Longer Term

This plot was included to show that sea levels did indeed decline (or more accurately fluctuate significantly) prior to the Modern Temperature Record (MTR, 1850 to the present). Prior to 1850, CO₂ levels were essentially flat, yet somehow sea levels (and temperatures) still fluctuated significantly. The natural forcings that caused those fluctuations have not stopped acting on the planet just because the IPCC modelers have decreed it so. The fact that the lowest Total Solar Irradiance (TSI) in the last 7,000 years+ occurred during the LIA and the highest TSI in the last 7,000 years+ have occurred post-1950, suggests that

the cold of the LIA and heat of the Modern Warm Period may not be just a

CO₂ and Sea Levels (Long Term)

coincidence. The Steinhilber TSI data is averaged over 110 years. A 20-year moving average shows that TSI_M peaked in 1950, remained flat until around 2005 and then declined slightly. As we move into the GSM, the TSI decline (and temperature drops) will accelerate. We are not ready for those temperature declines and unless we ditch the ideological drive to reduce CO₂ emissions soon, we will, sadly never be ready!

Sea Level/Total Solar Irradiance/CO₂ Concentration Data - 1,750 Years BP to the Present

