Rising Sea Level: Unstoppable & Unpredictable

Just the tip of the iceberg



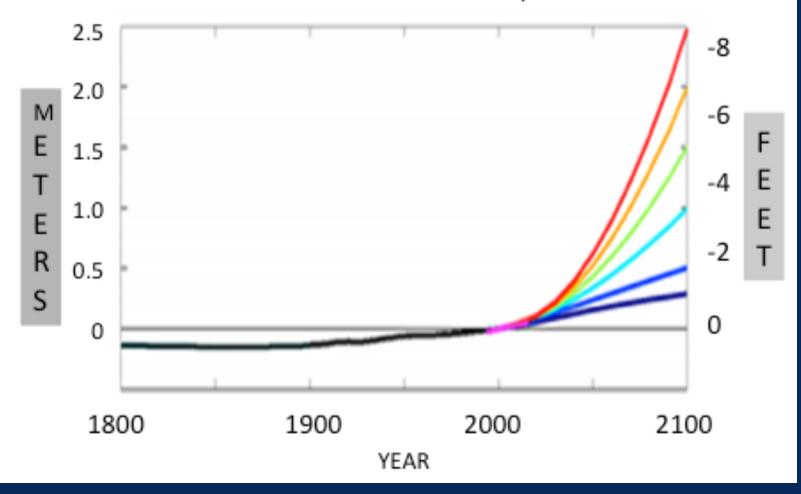
To Cover:

- 1. Water level = sea level + weather + tides
- 2. Why SLR (sea level rise) is unstoppable....<u>and</u> unpredictable
- 3. Clarify v latest IPCC projections
- 4. Confusion re: Flooding & Erosion
- 5. Answer Questions



Typical SLR projections are misleading and misunderstood but show the huge uncertainty

Six Projections for Rising Sea Level 2017 NOAA Technical Paper 083



Latest IPCC report (August 2021):

- Planet already warmed 1.2 Celsius (2.2 F.)
- New goal to cap warming at 1.5 degrees C. a 20% increase in warming.
- All the proposals at latest climate conference (COP26) cause warming to <u>double</u>, to 2.4 °C



Coastal Flooding

1.Storms 2.Rain **3.Runoff 4.Extreme Tides 5.Rising Sea Level 6.Erosion**

MELTING ICEBERGS ARE LIKE ICE CUBES

C Clemens Van der Werf

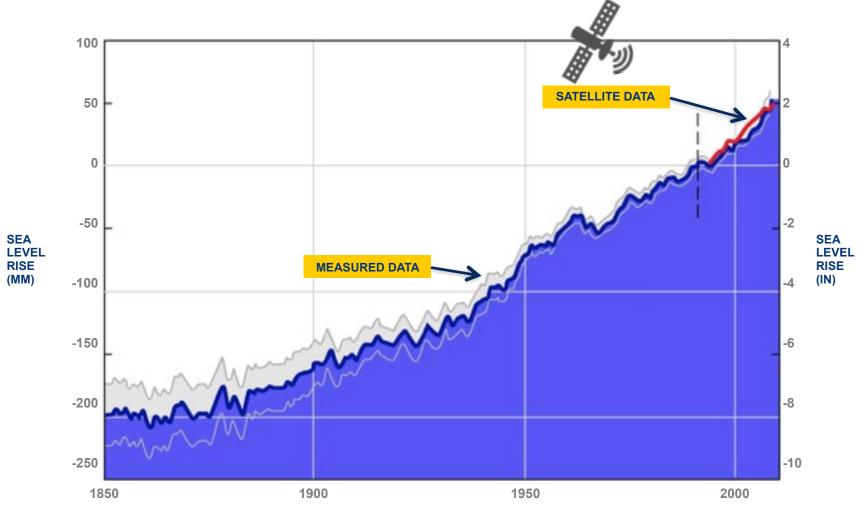
ICE ON LAND: MAIN CAUSE OF SEA LEVEL RISE

@ Clemens Van der Werf



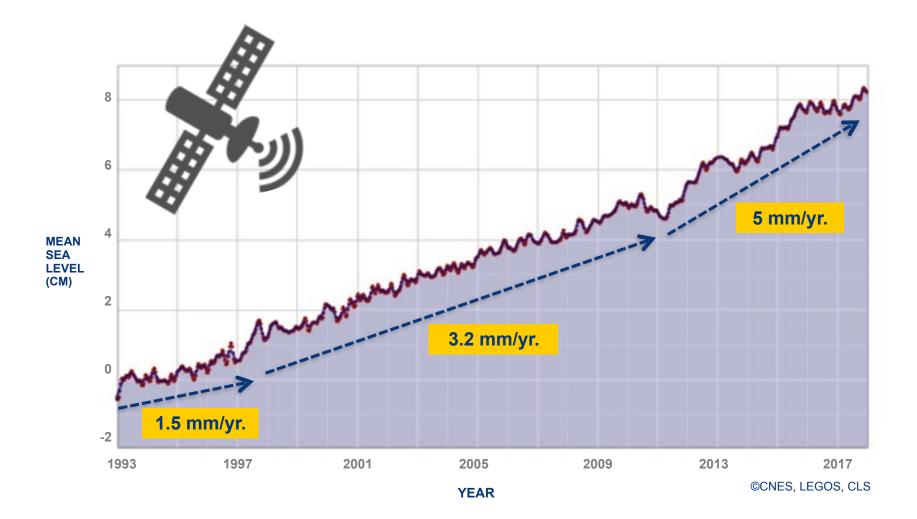
TIME (YEARS AGO)

20TH CENTURY SEA LEVEL RISE-



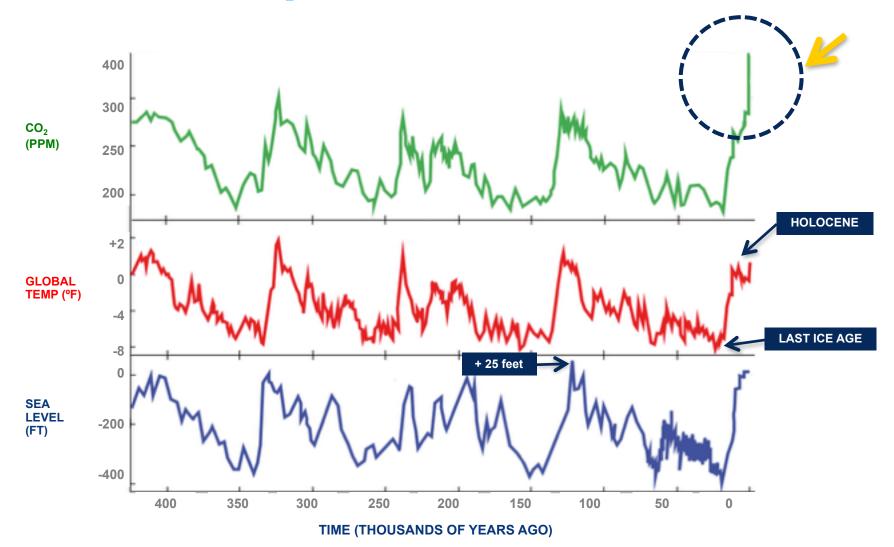
YEAR

RATE IS ACCELERATING



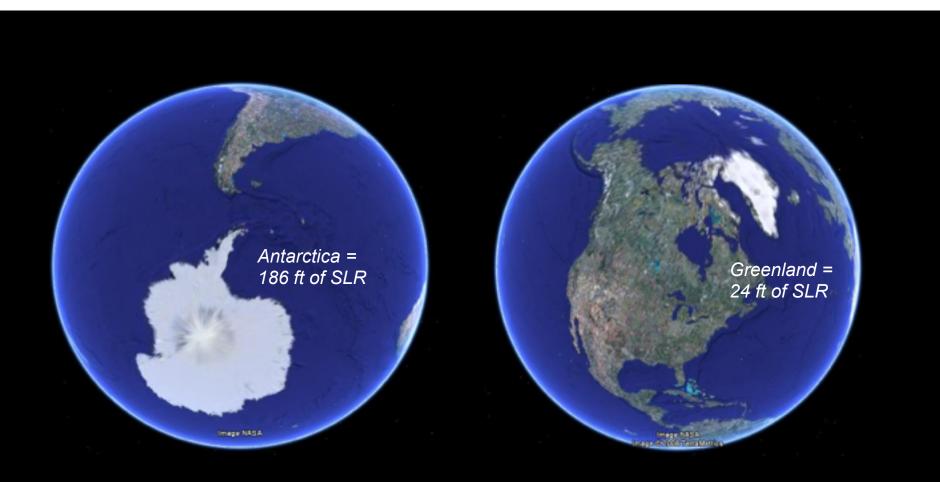
FOUR ICE AGE CYCLES

Until recent years, CO₂, temperature and sea level moved together

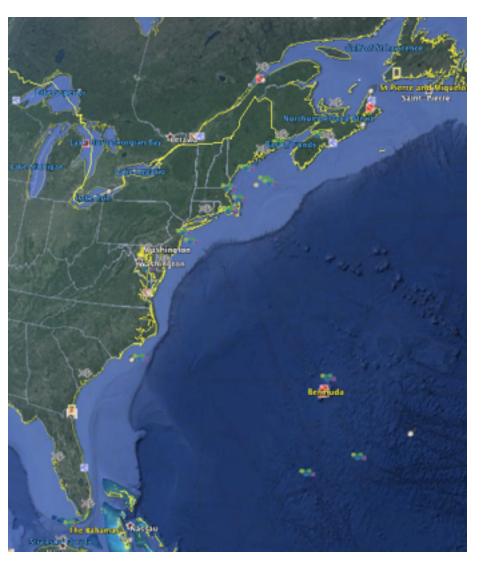


-TWO MAJOR SOURCES —

of potential sea level rise



Greenland - Approximate Size Comparison





GREENLAND FACT-FINDING TRIPS

WITH SENATOR ANGUS KING AND ADMIRAL PAUL ZUKUNFT



SALTY TRUTHS

- Rising seas and shifting shorelines are unstoppable, regardless of GHG reduction
- Every inch makes short term flooding worse
- Impossible to predict precisely
- Vulnerable property values will be discounted before they go underwater



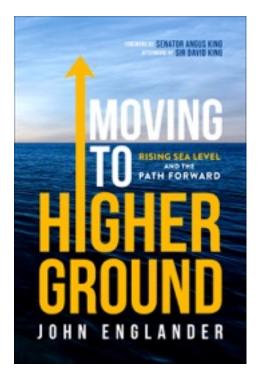
WE MUST RISE WITH THE TIDE

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WE HAVE TIME TO ADAPT... ...BUT NO TIME TO WASTE.



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