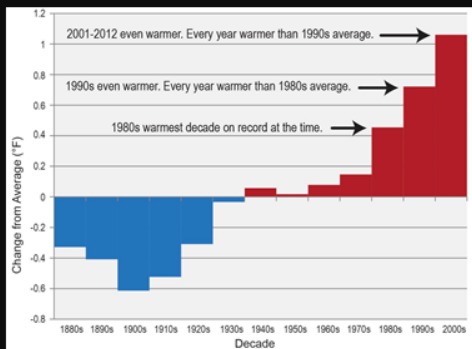


# What does a climate scientist think we should do about climate change?

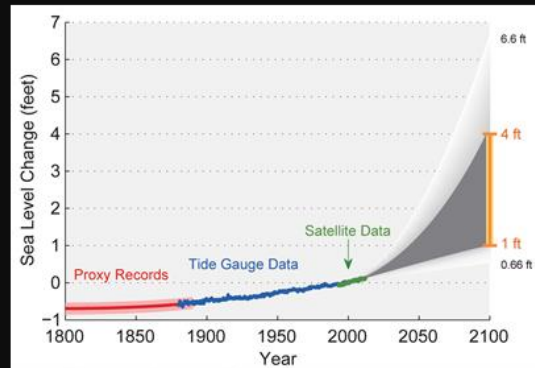
Richard C. J. Somerville  
Scripps Institution of Oceanography  
University of California, San Diego

<http://richardsomerville.com>

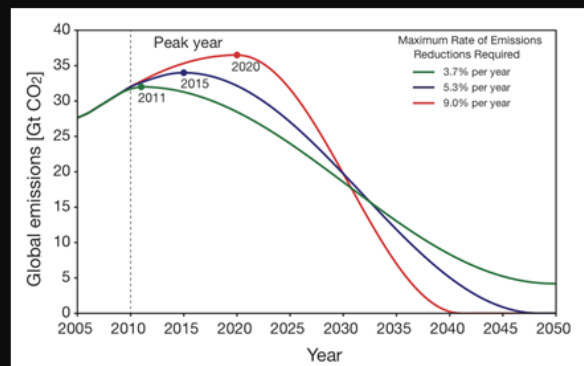
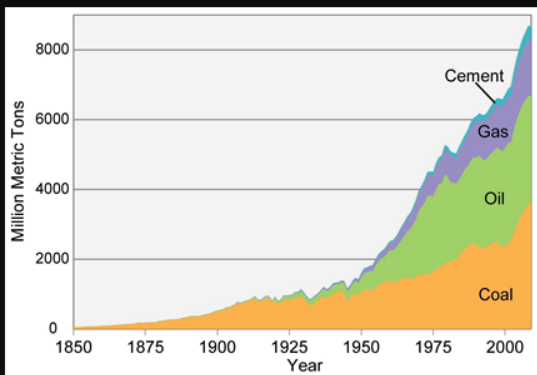
## Each New Decade is the Warmest



## Past and Projected Changes in Global Sea Level

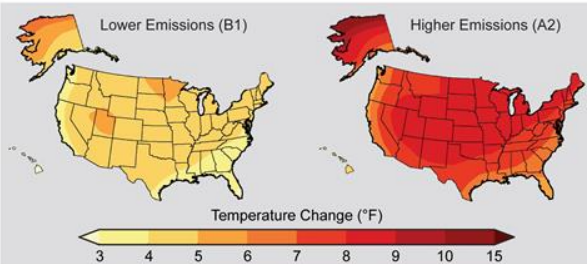


## Carbon Emissions Grew Explosively



Emissions pathways to give 67% chance of limiting global warming to 2° Celsius (3.6° Fahrenheit) above the temperatures of the 1800s.

## Our Decisions Determine Our Future



It's warming.  
It's us.  
It hasn't stopped.  
The heat is mainly in the sea.  
Sea level is rising.  
Ice is shrinking.  
CO<sub>2</sub> makes the sea more acidic.  
CO<sub>2</sub> in the air is up 40% since the 1800s.  
It's now the highest in 800,000 years.  
**Cumulative** emissions **set** the warming.  
**Reducing** emissions **limits** the warming.  
Climate change will last for centuries.