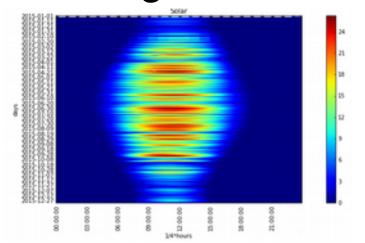
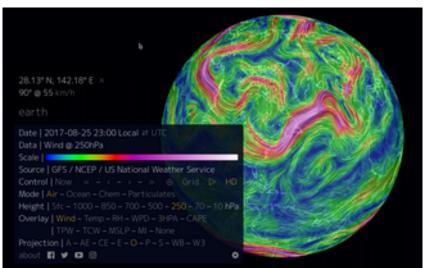
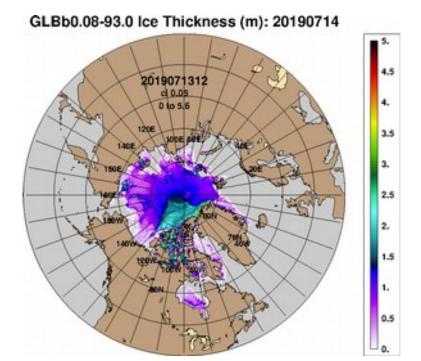
Digitale Werkzeuge zum Verständnis von

Klima und Wetter



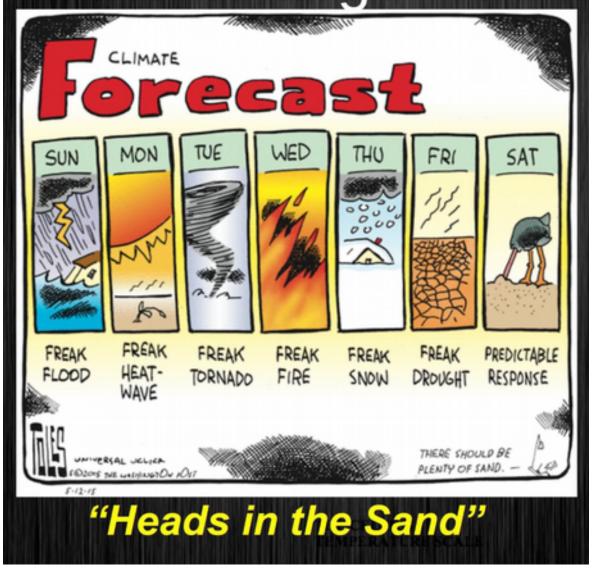




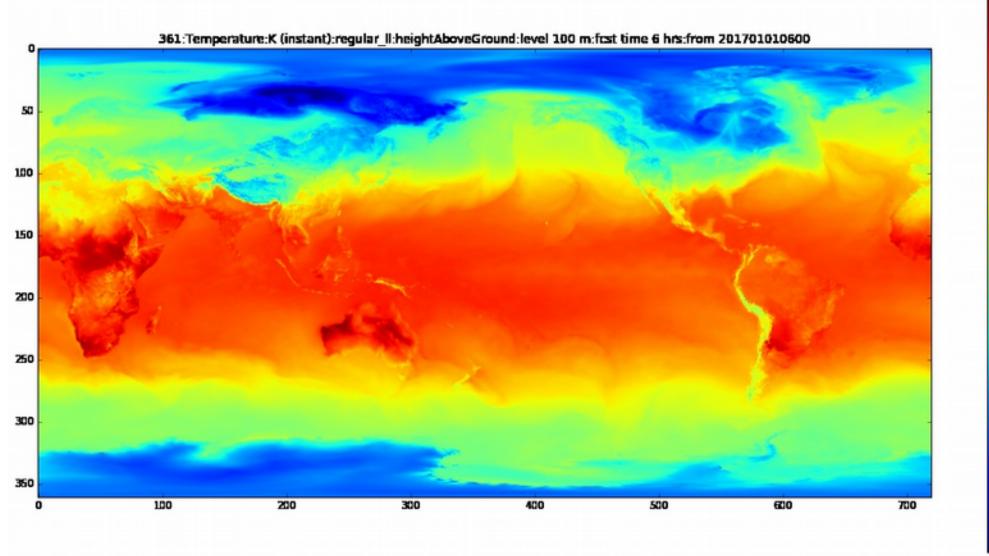
Warum dieser Vortrag

- Der Klimawandel bestimmt das Tempo der Veränderungen
 - Sonne und Wind sind entscheidende Größen der Energiewende
- Es gibt immer noch Skeptiker und Leugner des Klimawandels
- Wir können die Veränderungen (im Internet) sehen

Kopf in den Sand stecken ist die einfache Lösung



Quelle: Michael Mann https://youtu.be/P-qNUSEAXxk?t=20m41s



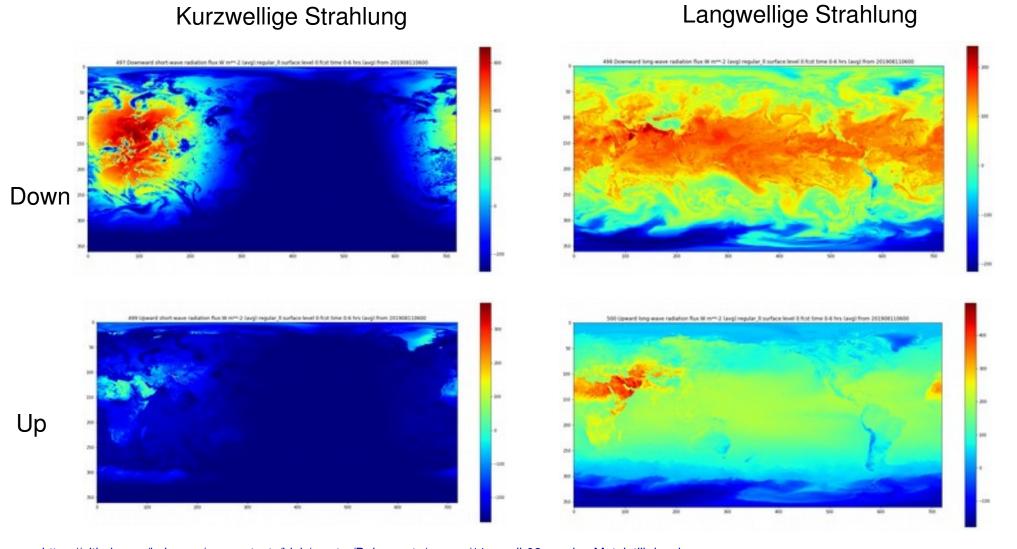
20

10

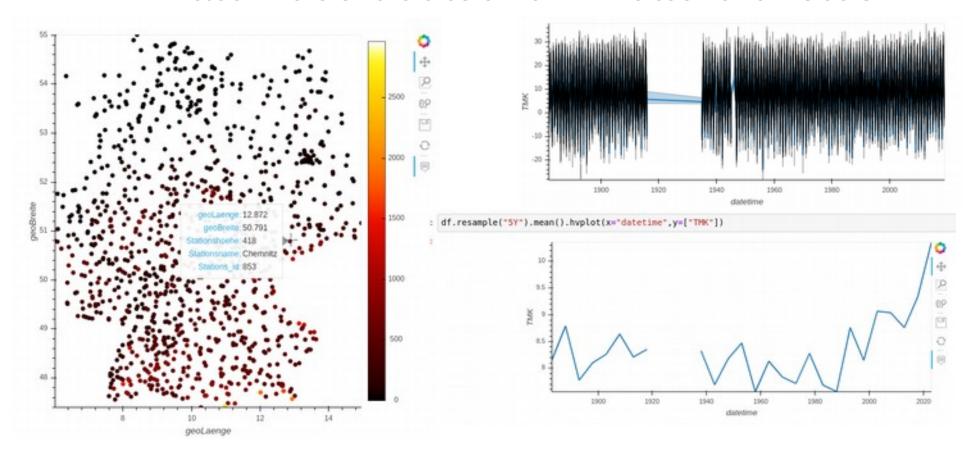
-10

-20

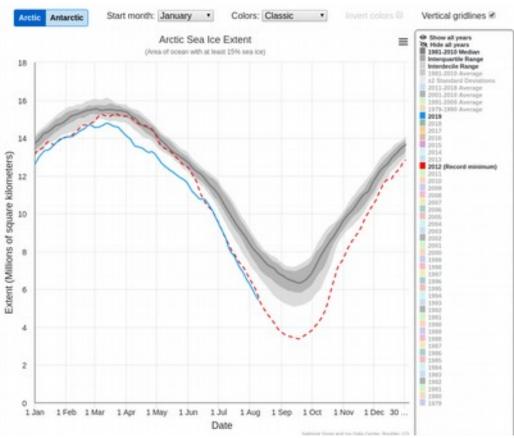
Quelle: noaa.gov



Daten des deutschen Wetterdienstes

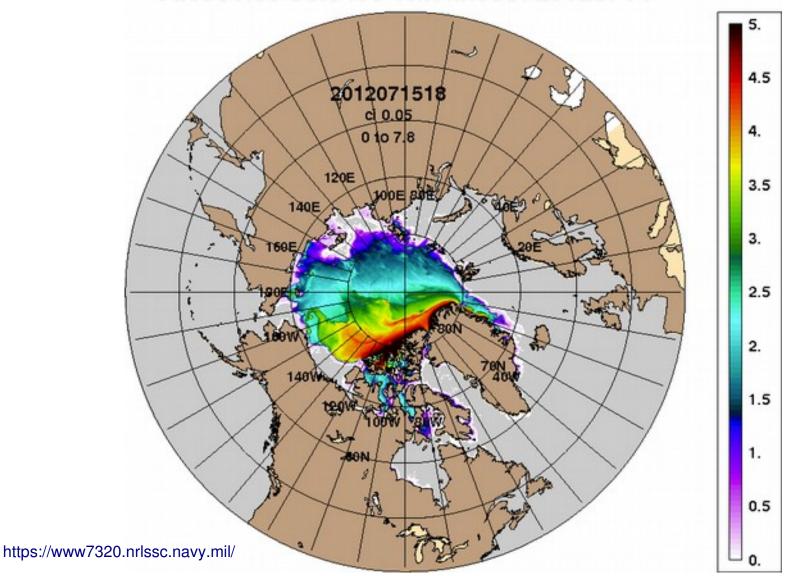


Fläche des Eises am Nordpol

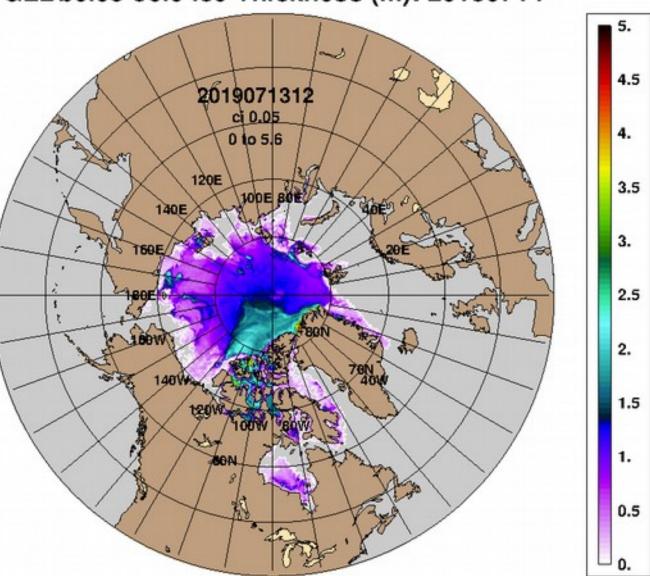


http://nsidc.org/arcticseaicenews/charctic-interactive-sea-ice-graph/

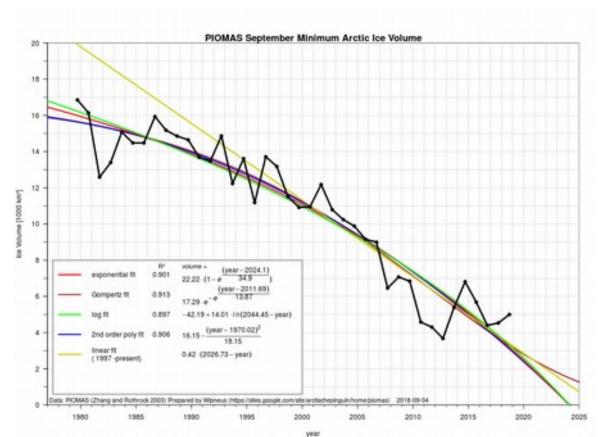
ARCc0.08-03.5 Ice Thickness: 20120714

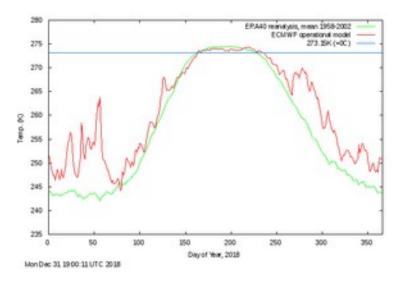


GLBb0.08-93.0 Ice Thickness (m): 20190714



Arktisches Eis



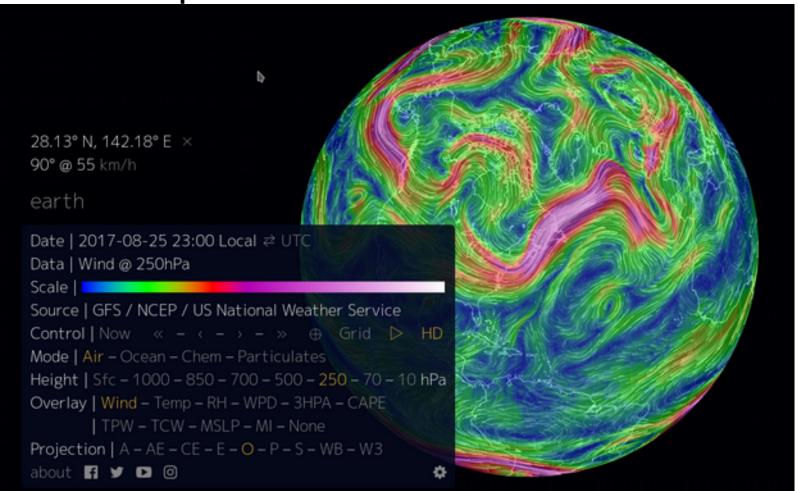


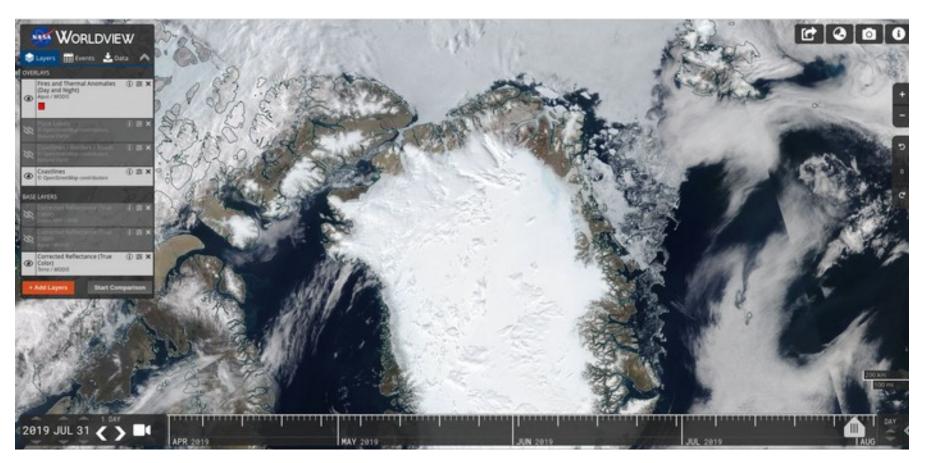
Dänisches Meteorologisches Institut:

Mittlere Temperatur nördlich von 80°N (2018)

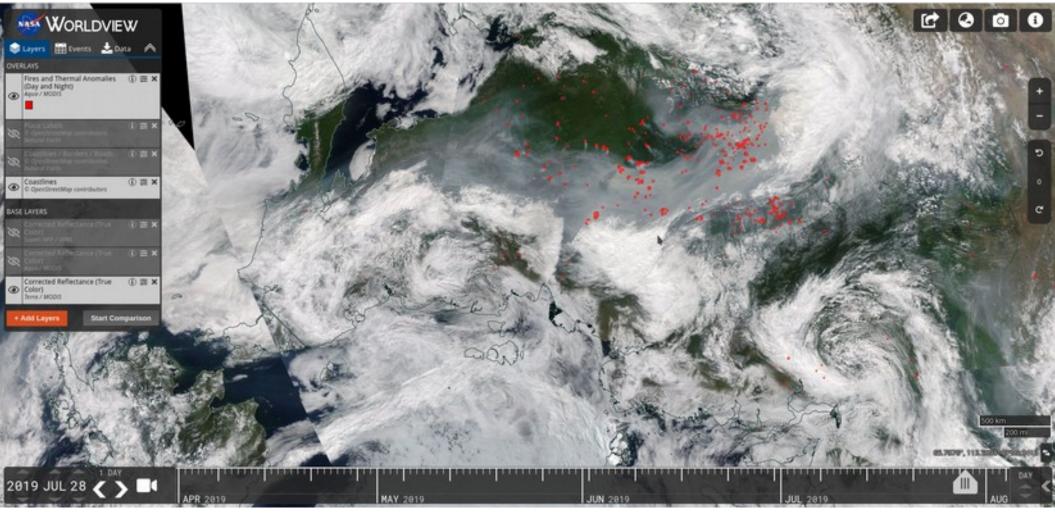
https://sites.google.com/site/arctischepinguin/home/piomas

https://earth.nullschool.net





https://worldview.earthdata.nasa.gov



https://worldview.earthdata.nasa.gov

Vielen Dank für die Aufmerksamkeit!

https://github.com/kolossos/energy-tests/wiki

Am 20. September: globalclimatestrike.net





