



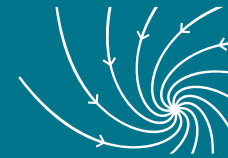
Foto: Diptendu Dutta - AFP

Klimastatus

Tore Furevik, direktør, Bjerknessenteret for klimaforskning. *Bergen, 5. desember 2017*

2°C

BJERKNES CENTRE
for Climate Research





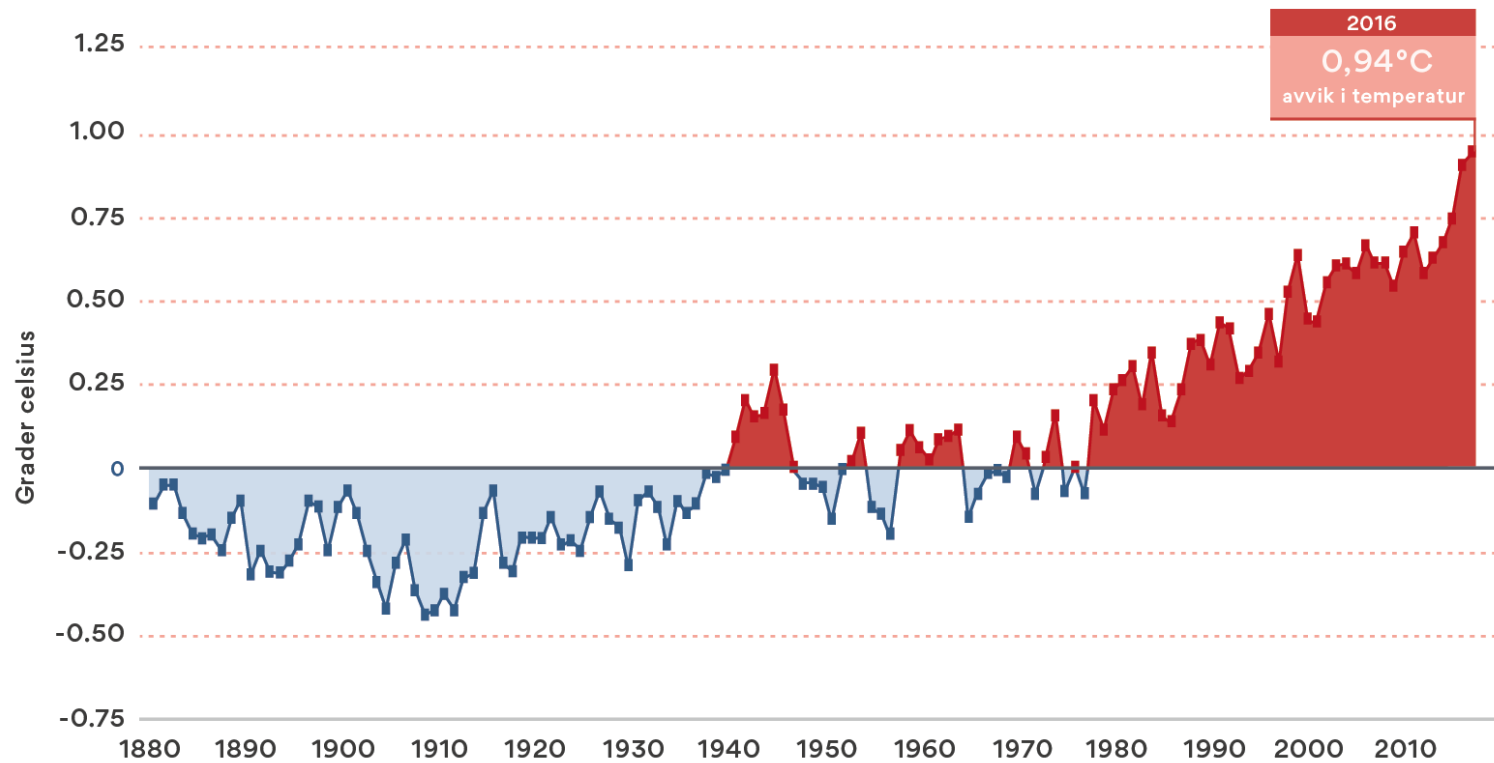
Houston Chronicle, 28 August 2017



Reuters, Skopje 24 July 2017



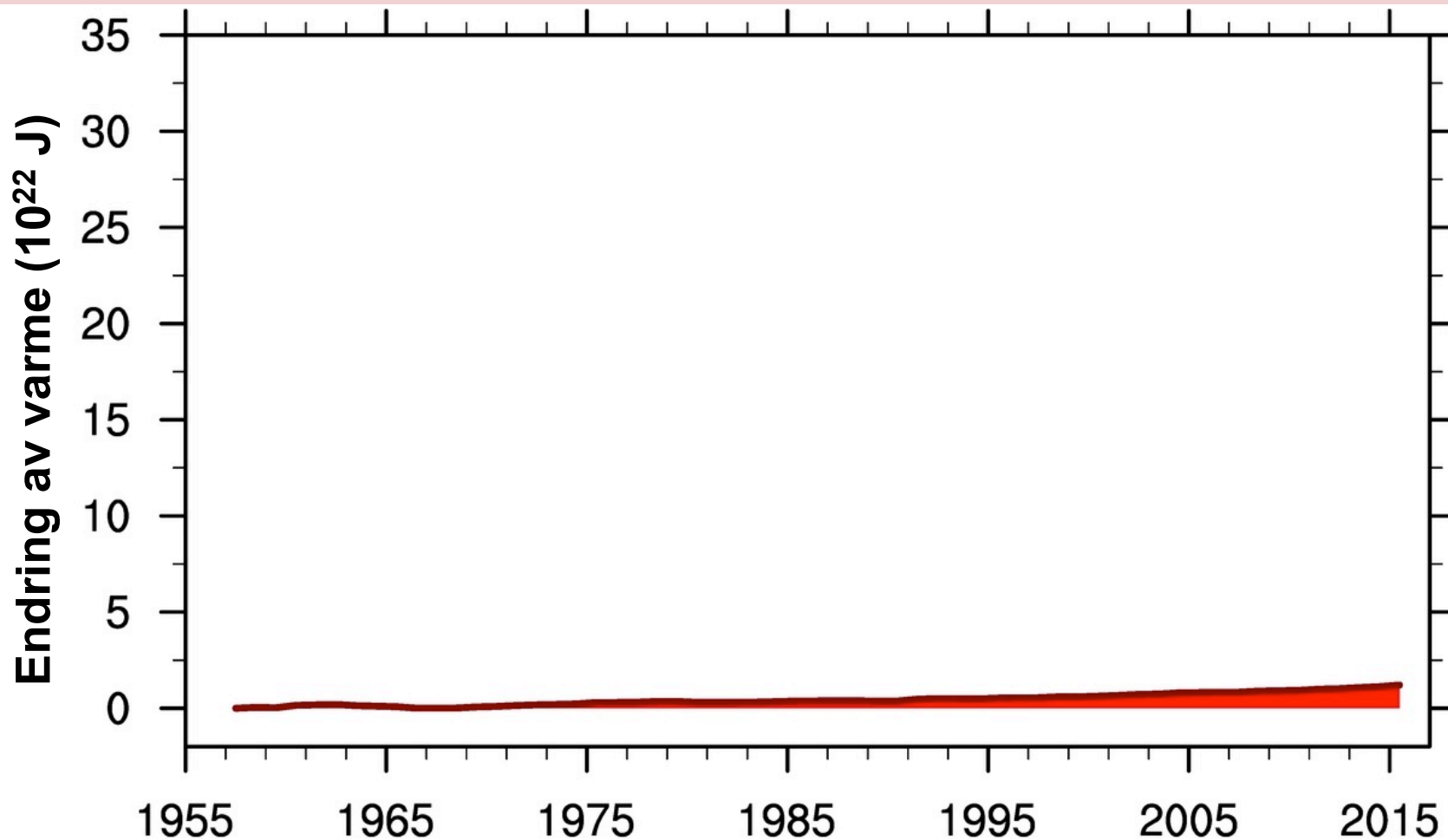
En varmere klode



Kilde: National Oceanic and Atmospheric Administration (NOAA)

2°C

Målt endring i varme for **atm+land+is**

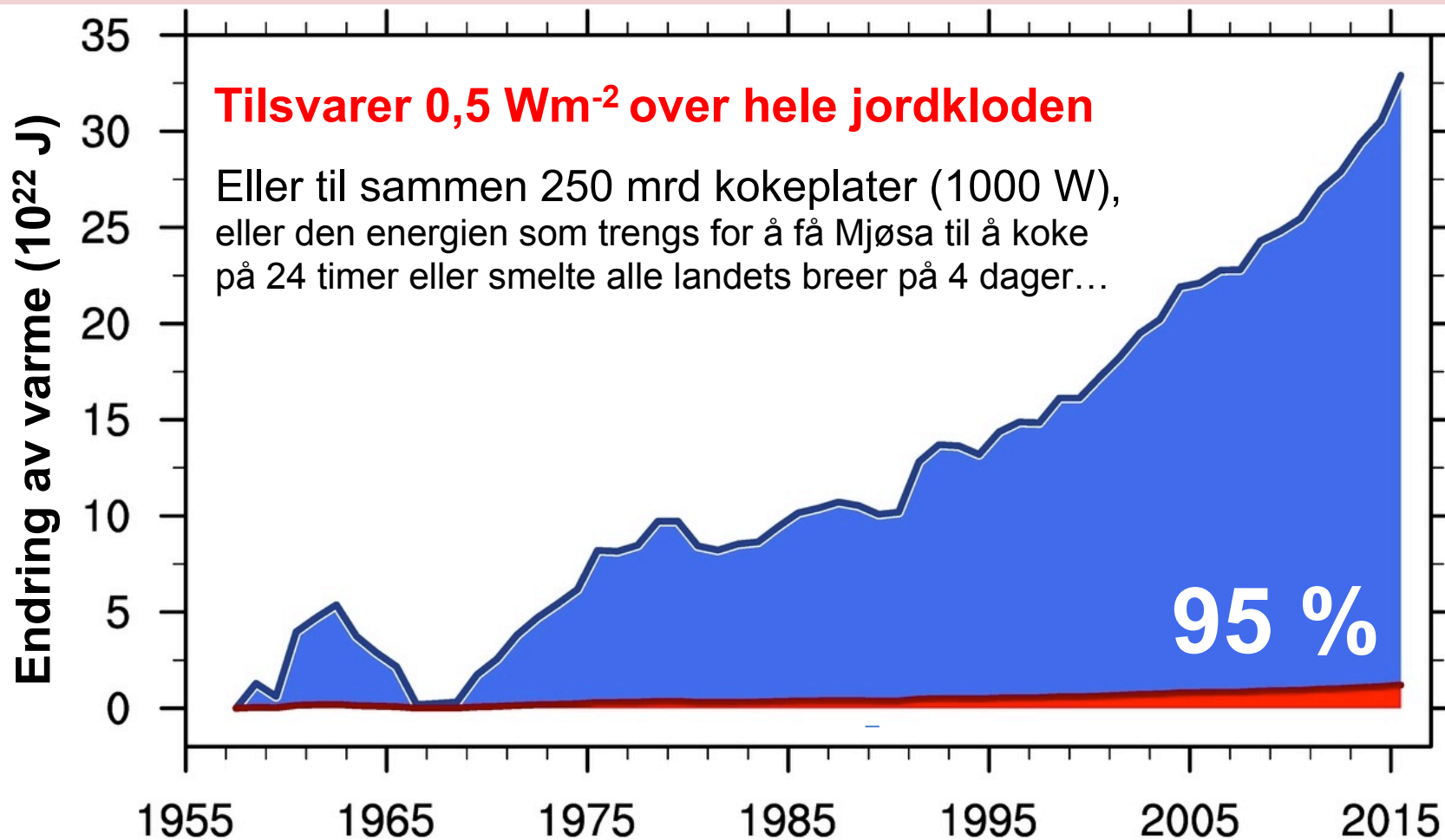


Church *et al.* (2011); Levitus *et al.* (2012);
<http://www.nodc.noaa.gov/about/oceanclimate.html>

Etter Helge Drange, Bjerknessenteret

2°C

Målt endring i varme for **atm+land+is** og **havet**



Church et al. (2011); Levitus et al. (2012);
<http://www.nodc.noaa.gov/about/oceanclimate.html>

Etter Helge Drange, Bjerknessenteret

2°C

Klimaendringene skjer nå



Foto: Svein Arne Vågane – NVE

2°C



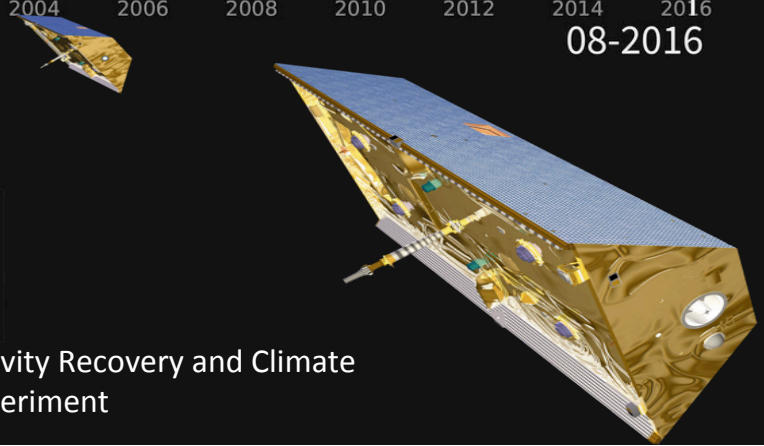
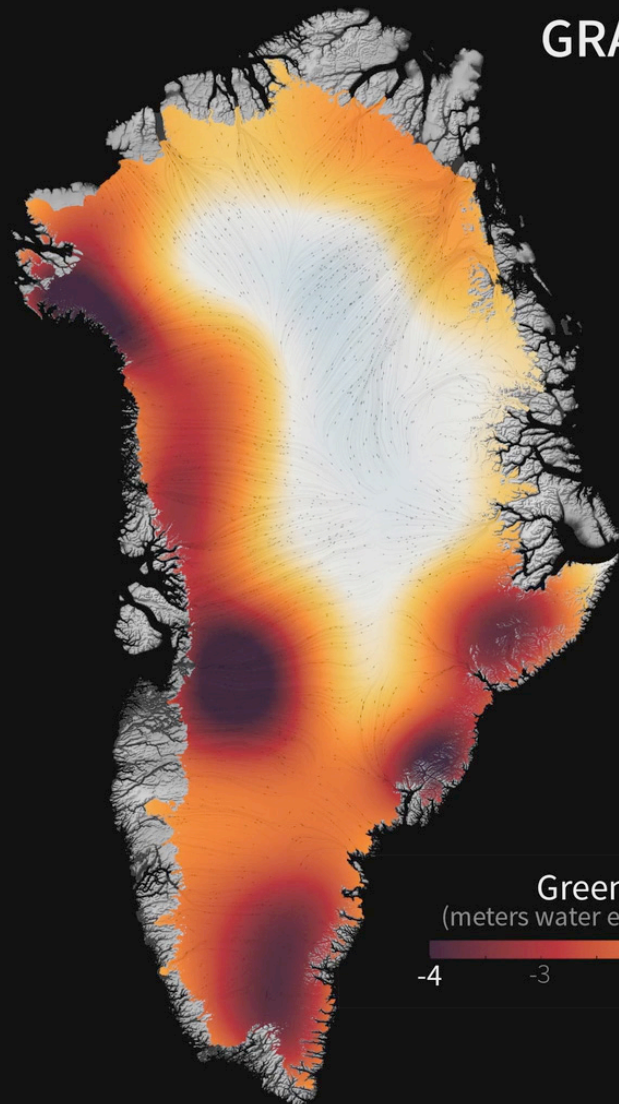
Foto: Håvard Bjelland – Kirkens nødhjelp



Foto: Mario Tama – AP

2°C

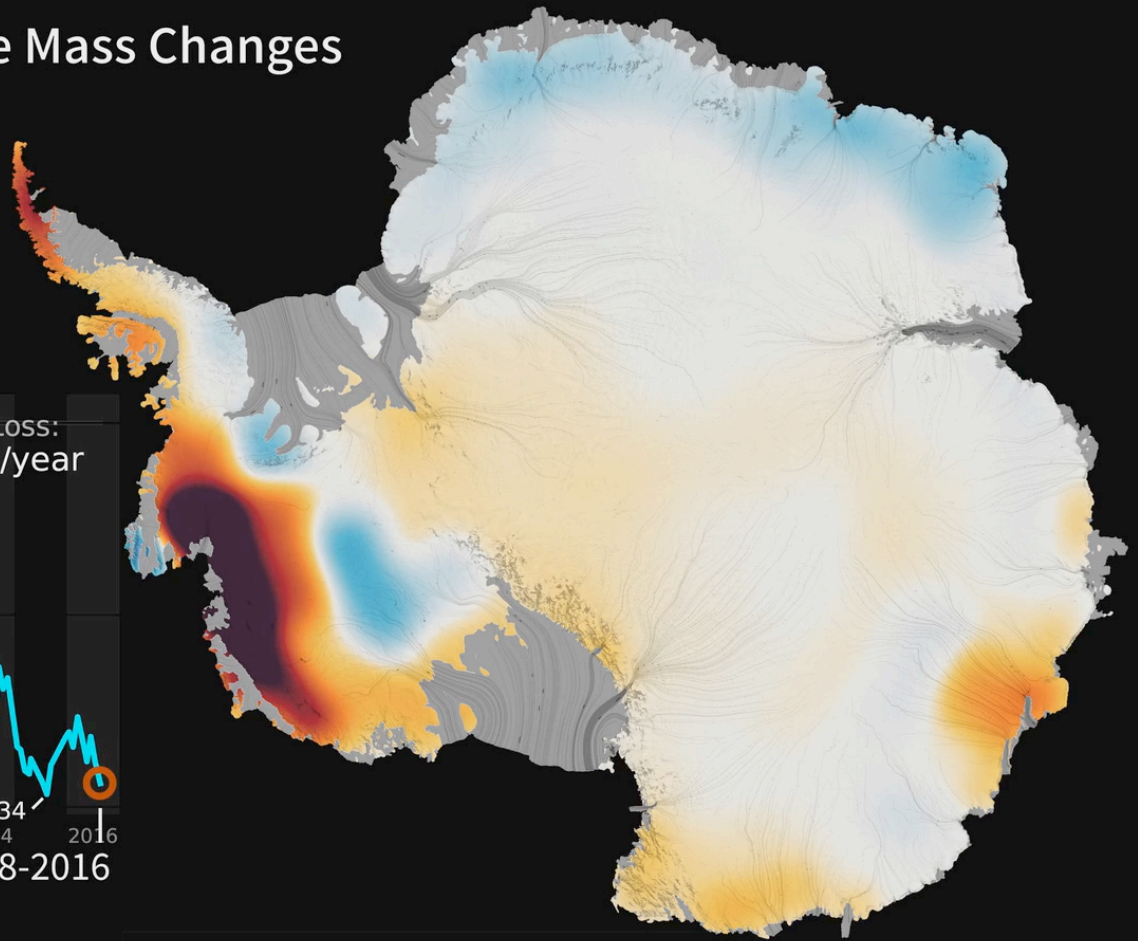
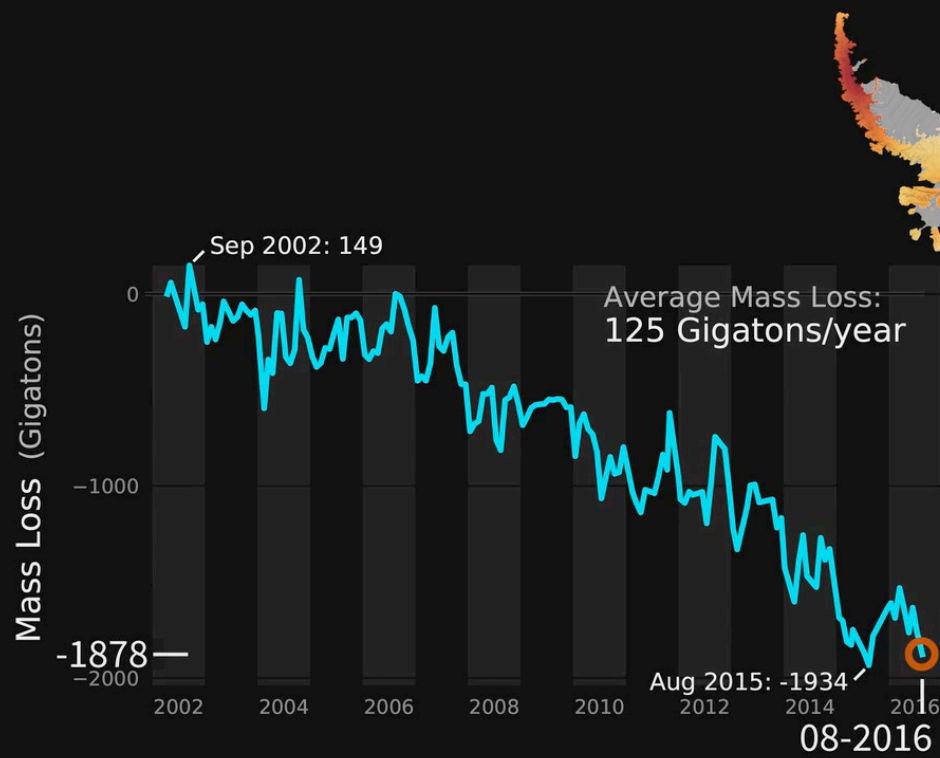
GRACE Observations of Greenland Ice Mass Changes



Gravity Recovery and Climate Experiment

NASA

GRACE Observations of Antarctic Ice Mass Changes



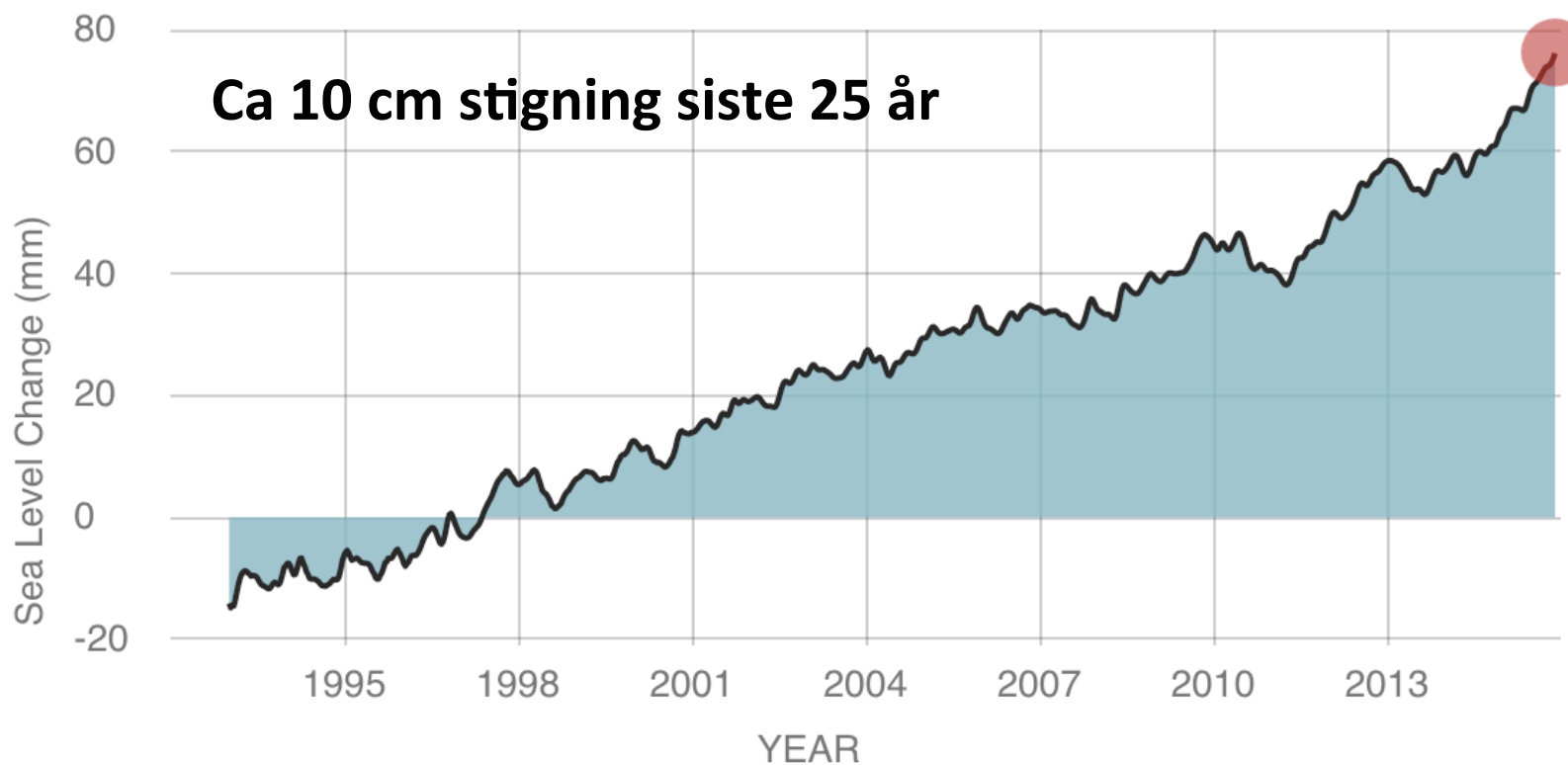
NASA

SATELLITE DATA: 1993-PRESENT

Data source: Satellite sea level observations.
Credit: NASA Goddard Space Flight Center

RATE OF CHANGE

↑ 3.41
mm per year



2°C

Havstigning truer

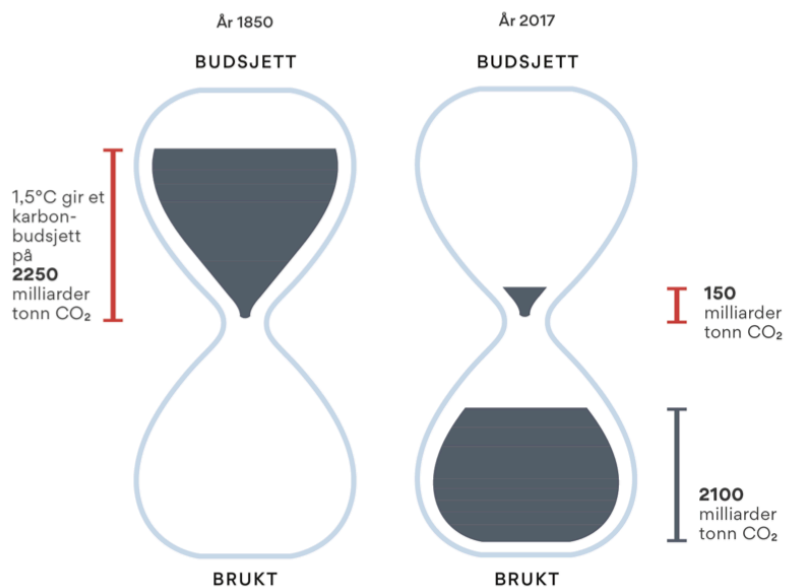


Foto: Jan M. Lillebø – Bergens tidende

2°C

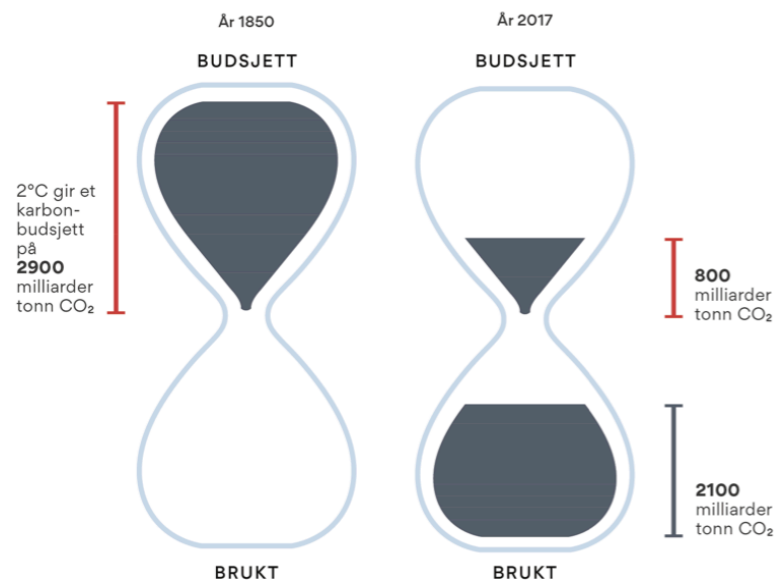
Karbonbudsjettet

1,5°C



93% allerede brukt opp

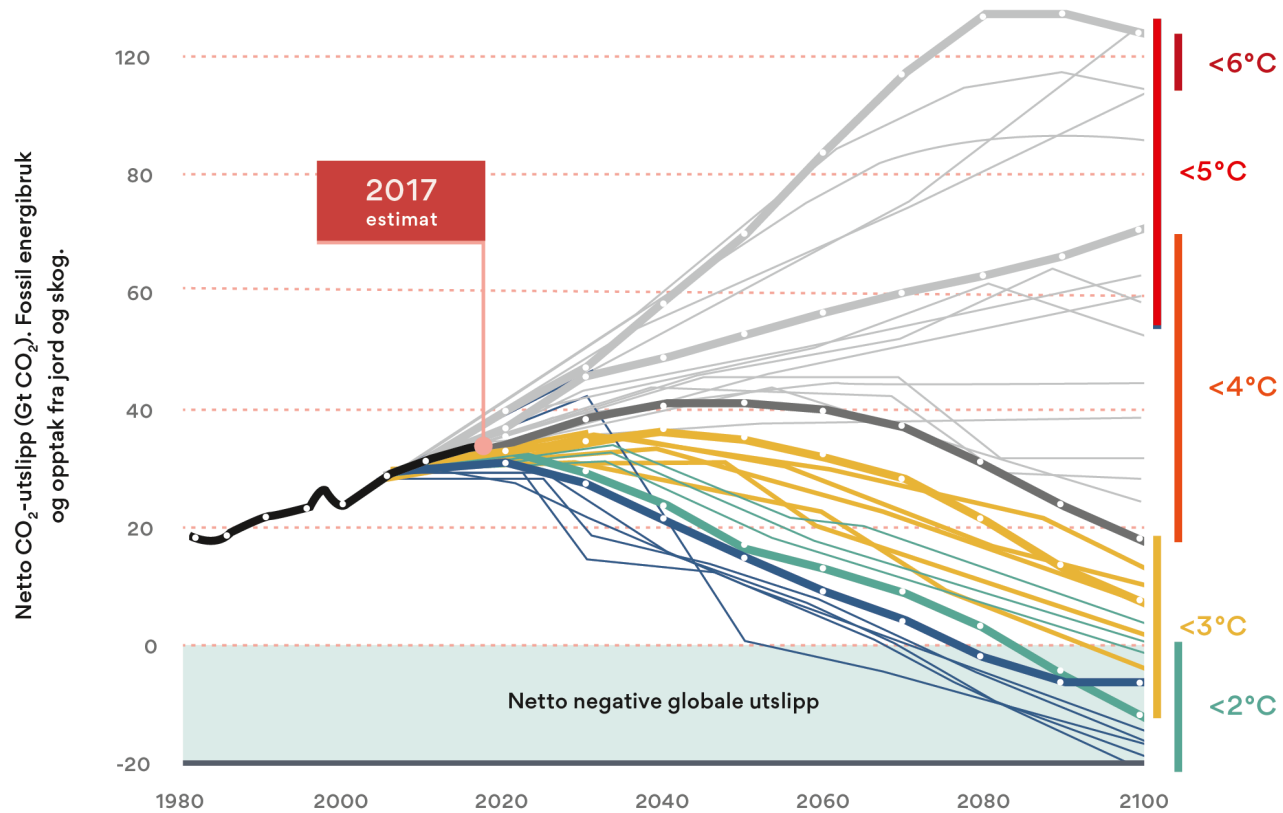
2°C



72% allerede brukt opp

2°C

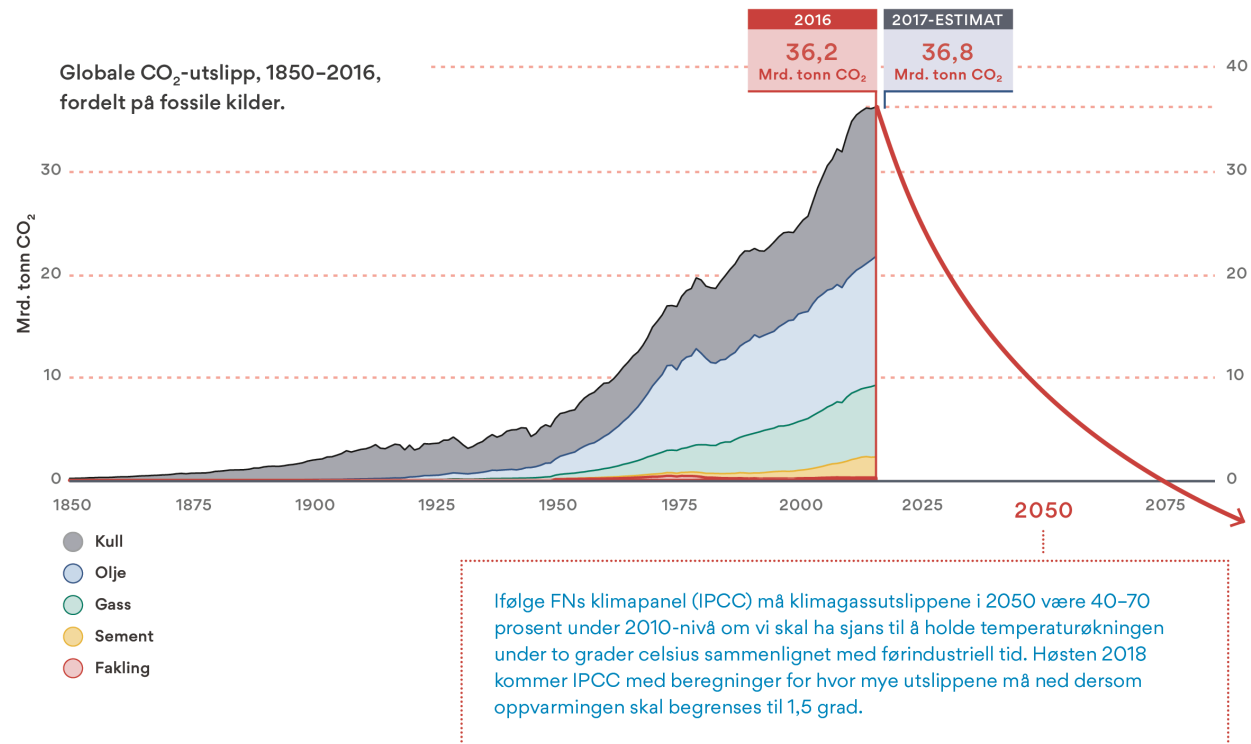
Utslippskurven må brytes



Kilde: Global Carbon Project

2°C

Rask CO₂-økning, raskere CO₂-kutt

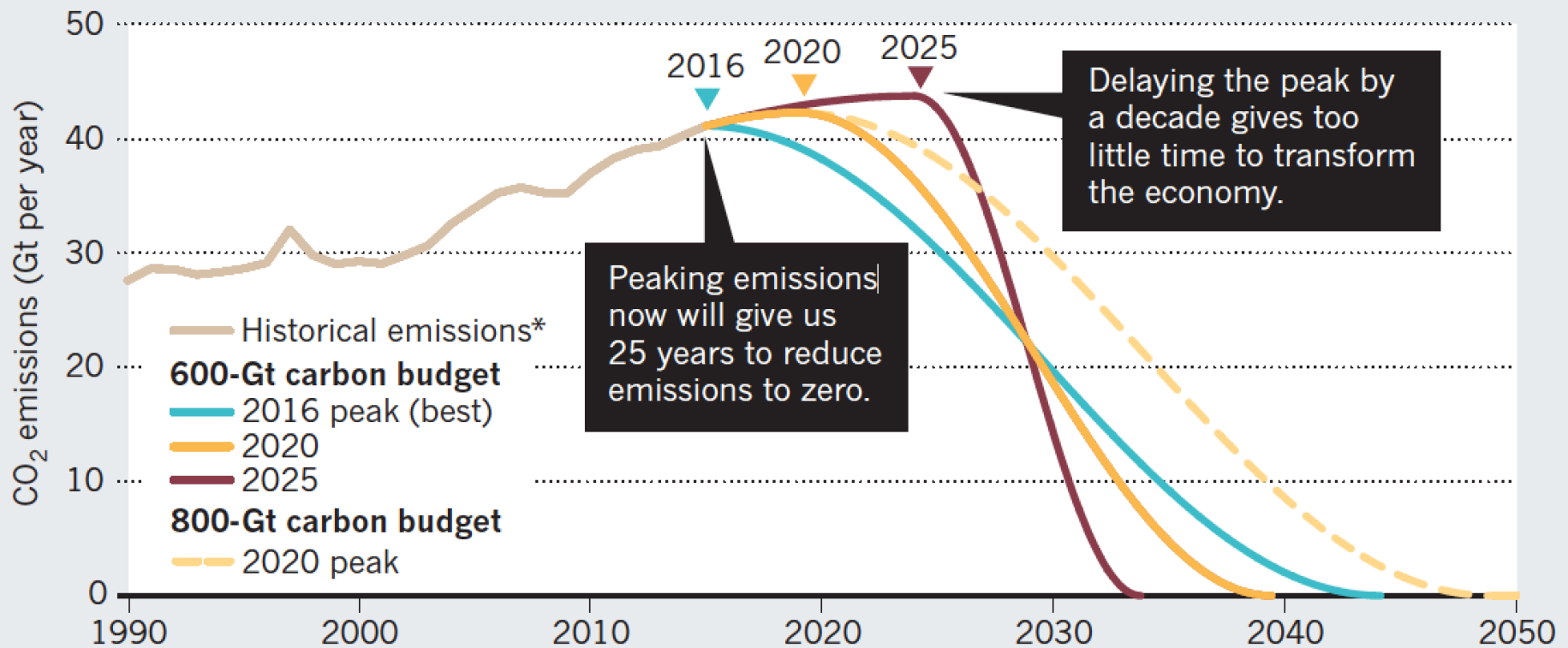


Kilde: Global Carbon Budget 2017

2°C

CARBON CRUNCH “Three years to safeguard our climate”

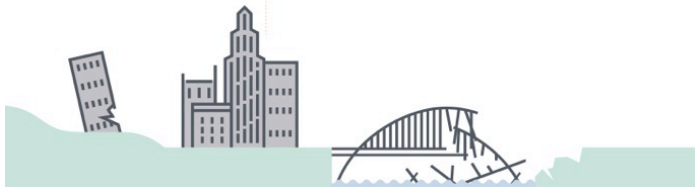
There is a mean budget of around 600 gigatonnes (Gt) of carbon dioxide left to emit before the planet warms dangerously, by more than 1.5–2°C. Stretching the budget to 800 Gt buys another 10 years, but at a greater risk of exceeding the temperature limit.



Kilde: Figueres et al., Nature 2017

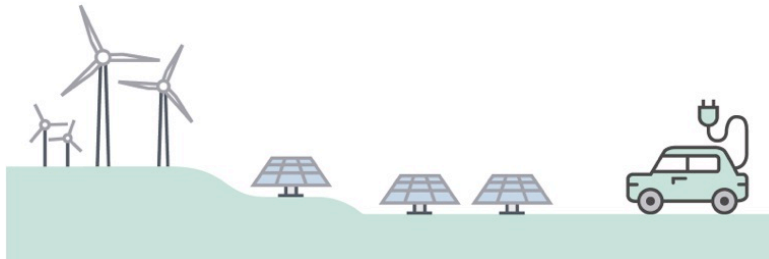
*Data from The Global Carbon Project.

Klima som finansiell risiko



1

Fysisk klimarisiko



2

Overgangsrisiko



3

Ansvarsrisiko

2°C