

Værmelding 2100

Reidun Gangstø Skaland – klimaforsker v/Meteorologisk institutt

2.6.2016

Konferansen «Landbruk og Klima», Hafslund hovedgård

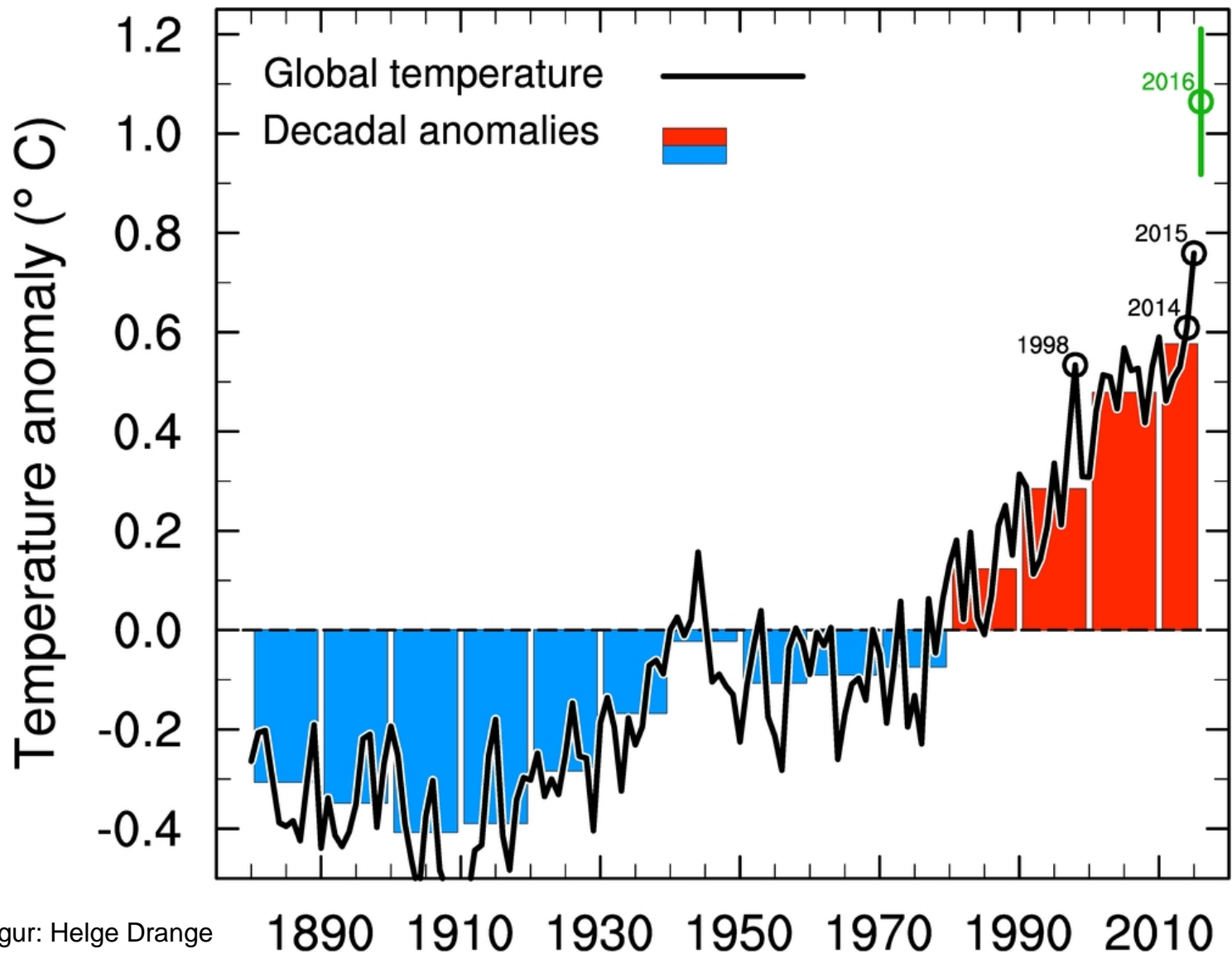


Meteorologisk
institutt
150 år



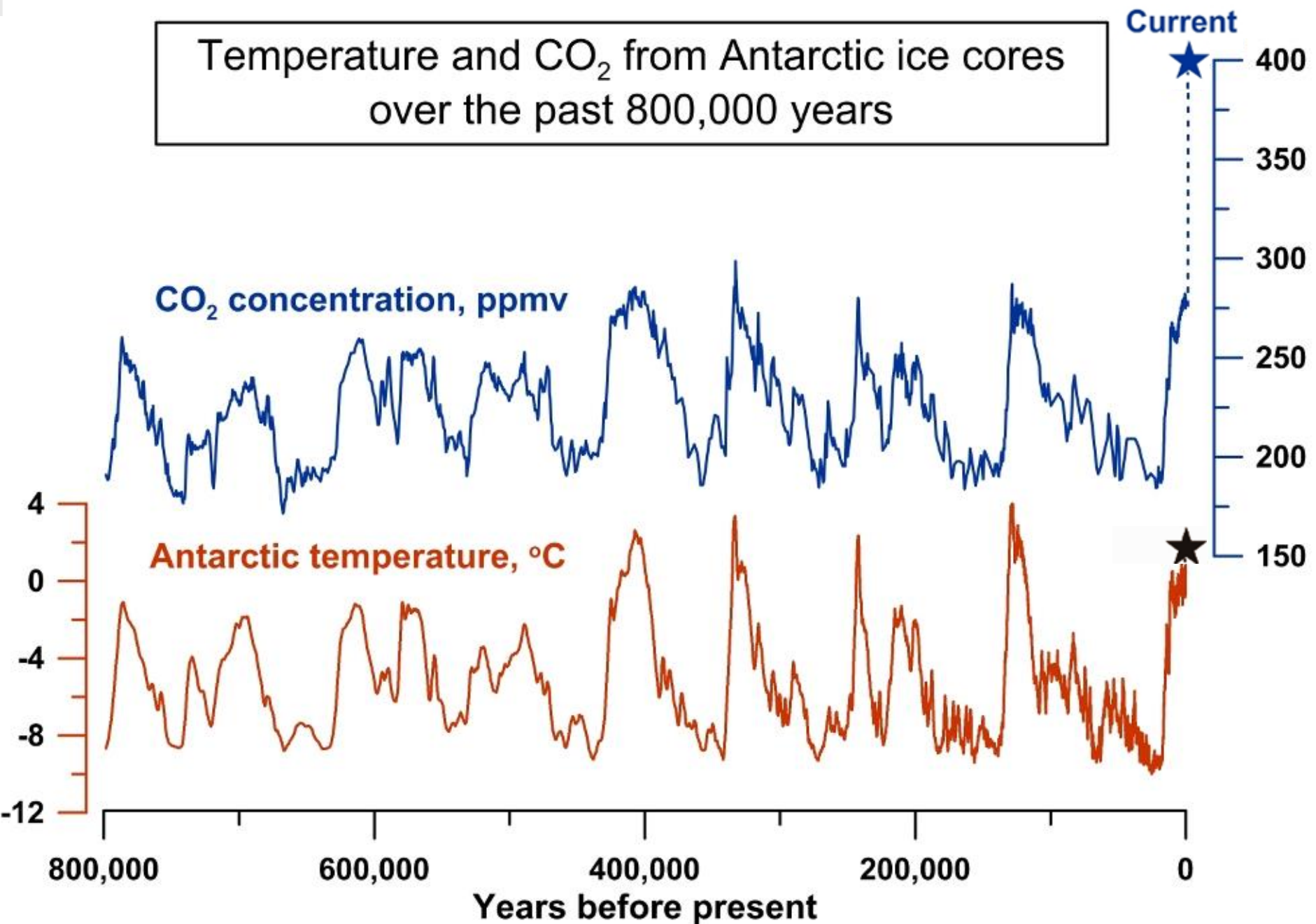
Norges
vassdrags- og
energidirektorat

Den globale temperaturen stiger



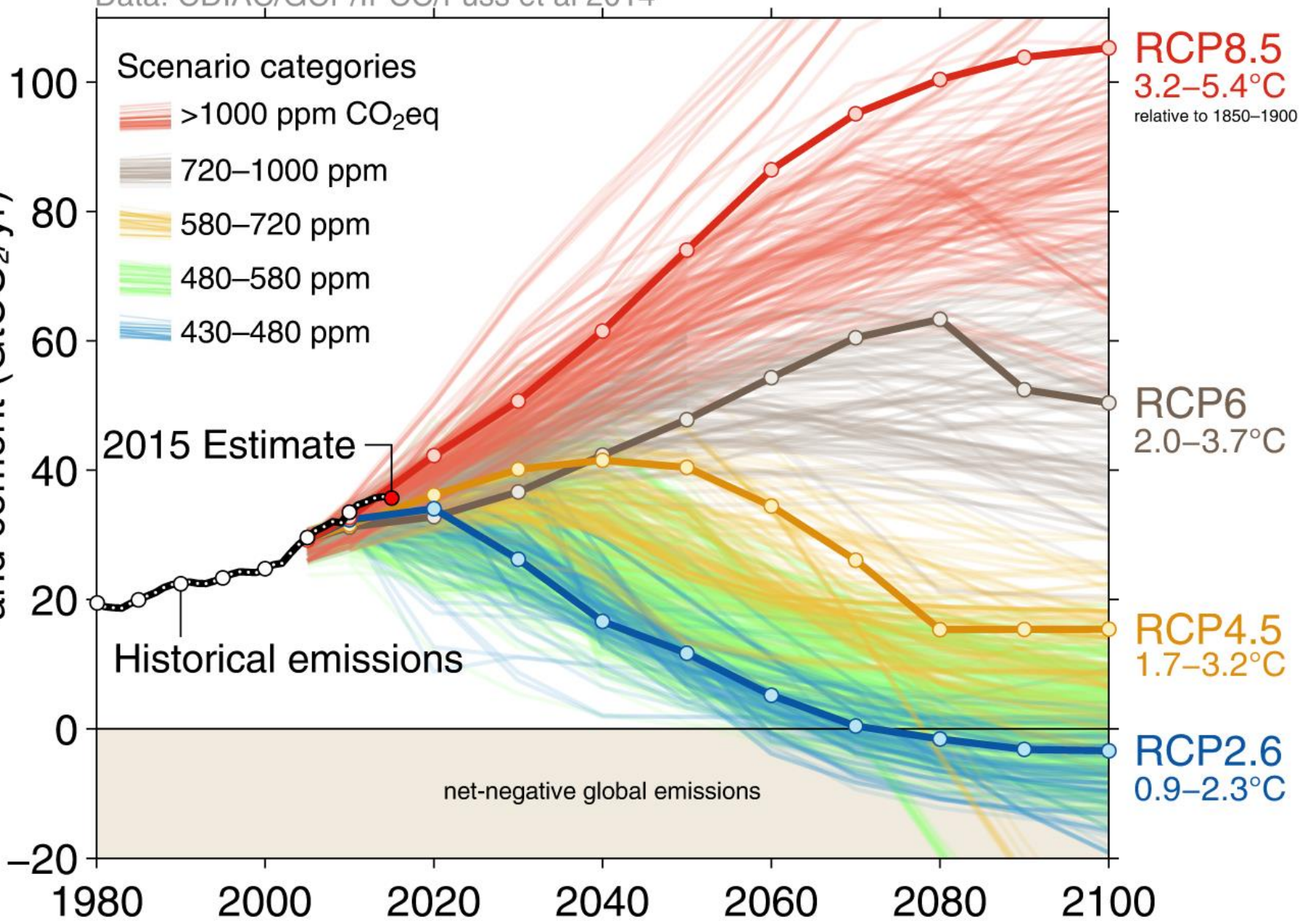
Figur: Helge Drange

Temperature and CO₂ from Antarctic ice cores over the past 800,000 years

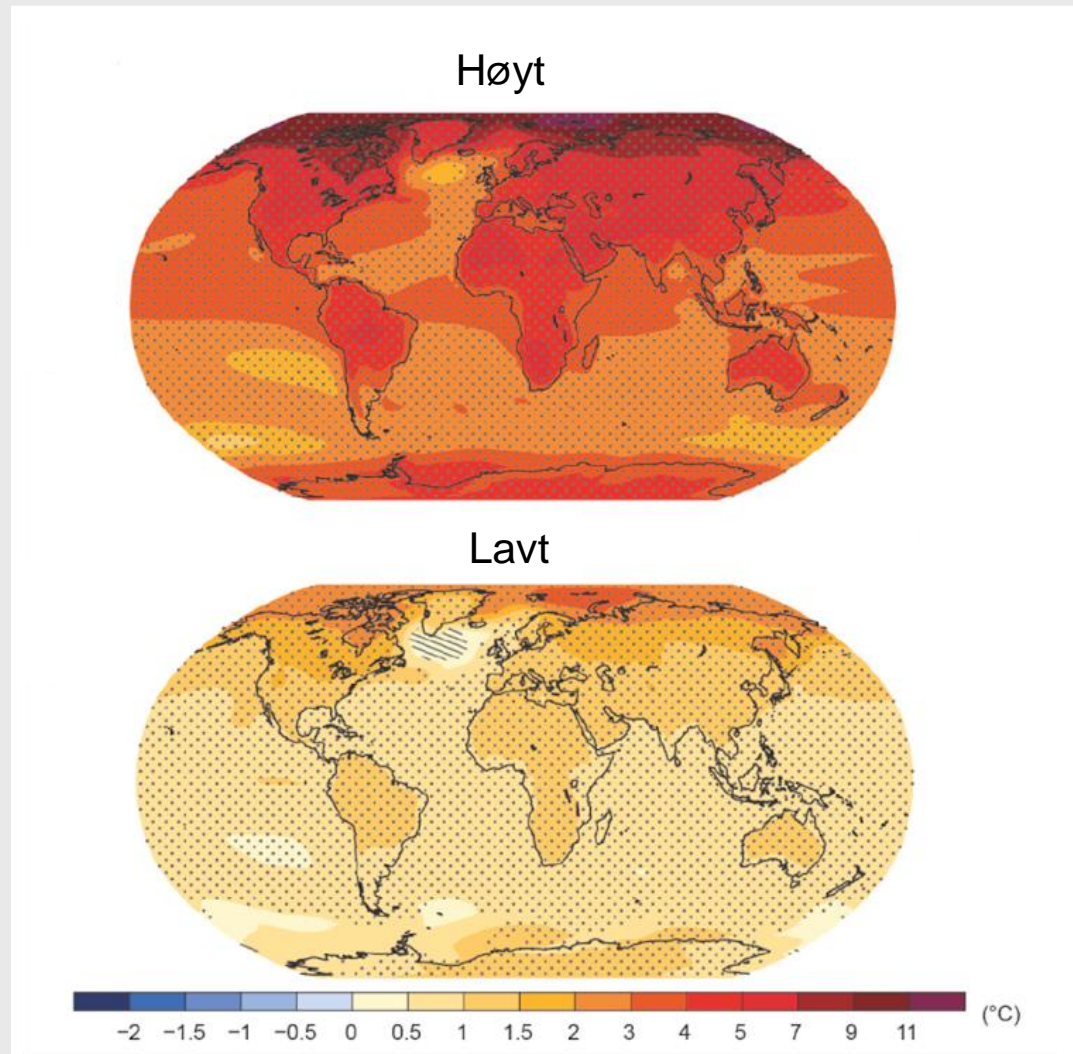


Data: CDIAC/GCP/IPCC/Fuss et al 2014

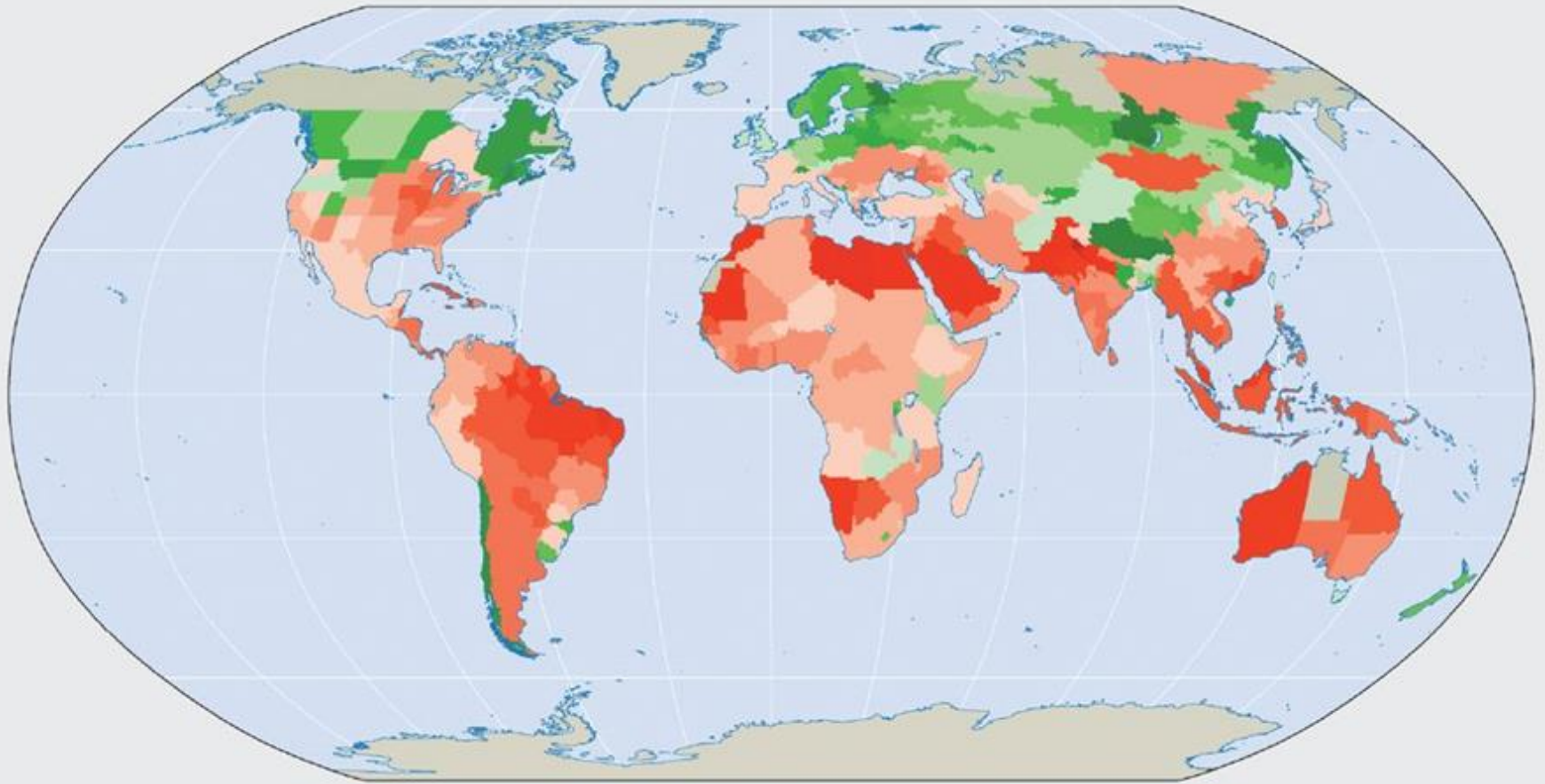
Emissions from fossil fuels and cement (GtCO₂/yr)



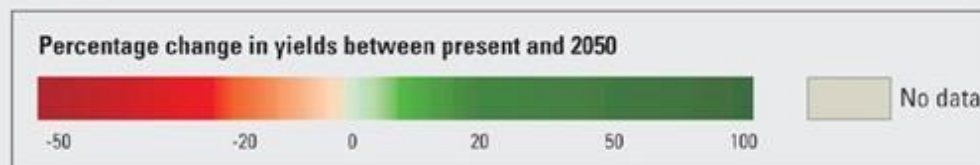
Framtidig global temperaturøkning



Endring i matvareproduksjon 2050



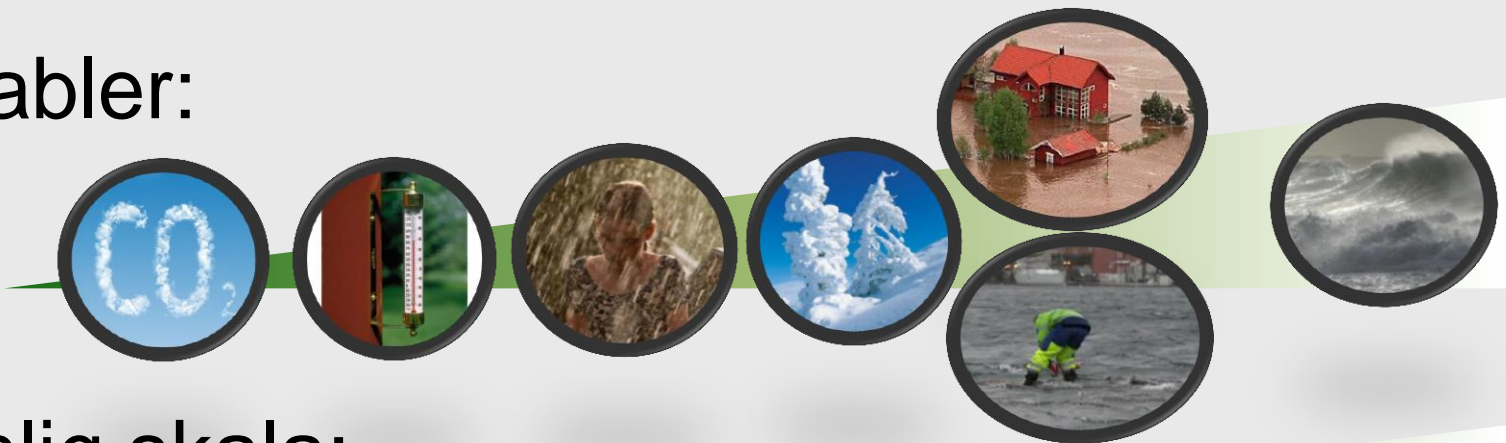
RCP8.5



Verdensbanken, 2010

Noen resultater mer sikre enn andre

- Variabler:



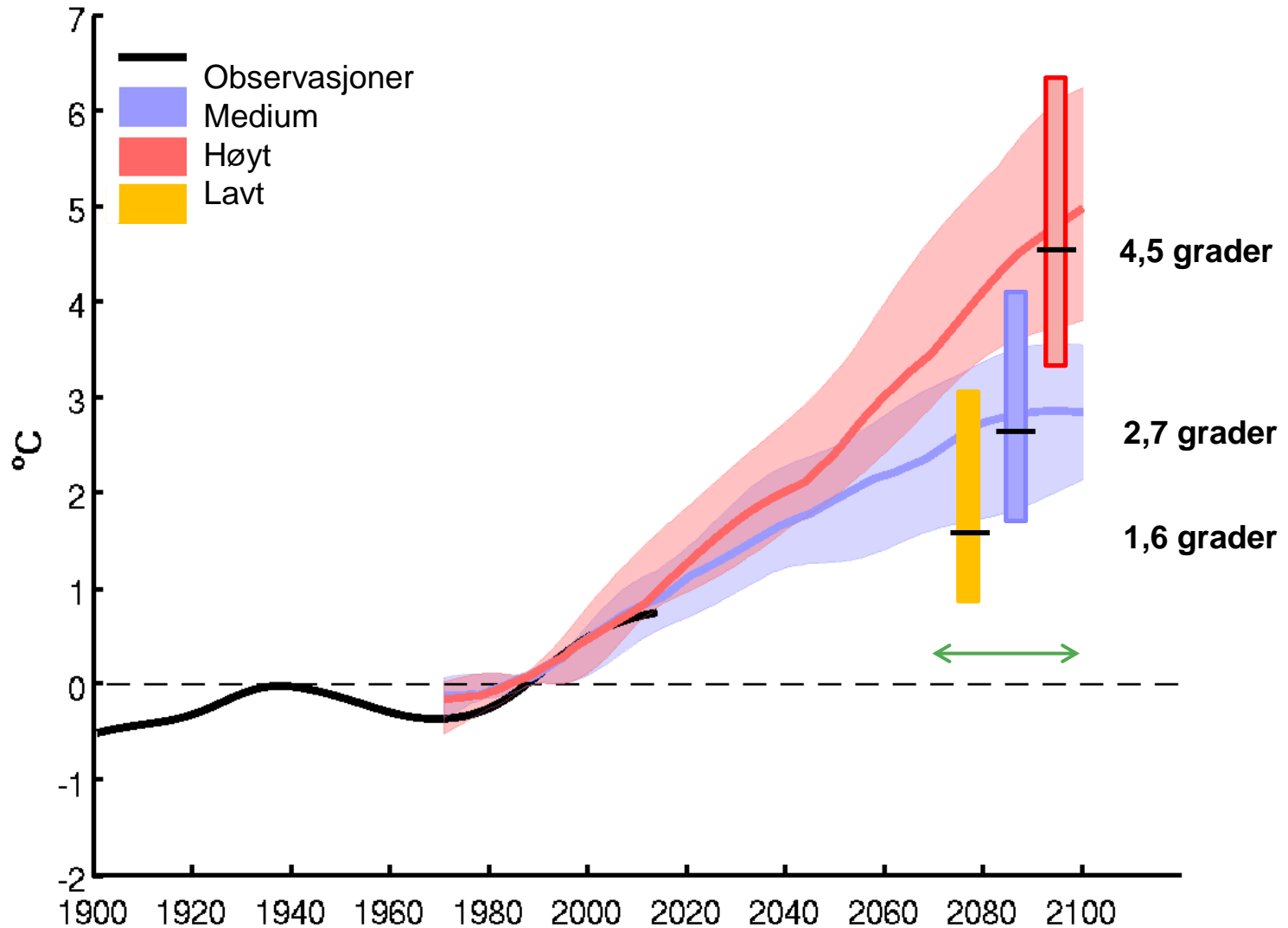
- Romlig skala:



- Tidsskala:



Norge: det blir varmere



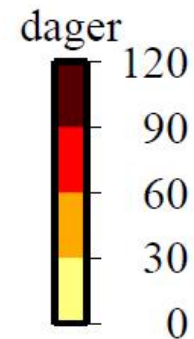
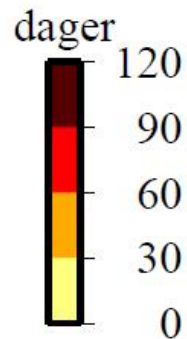
Vekstsesongen blir lengre

MIDDELS

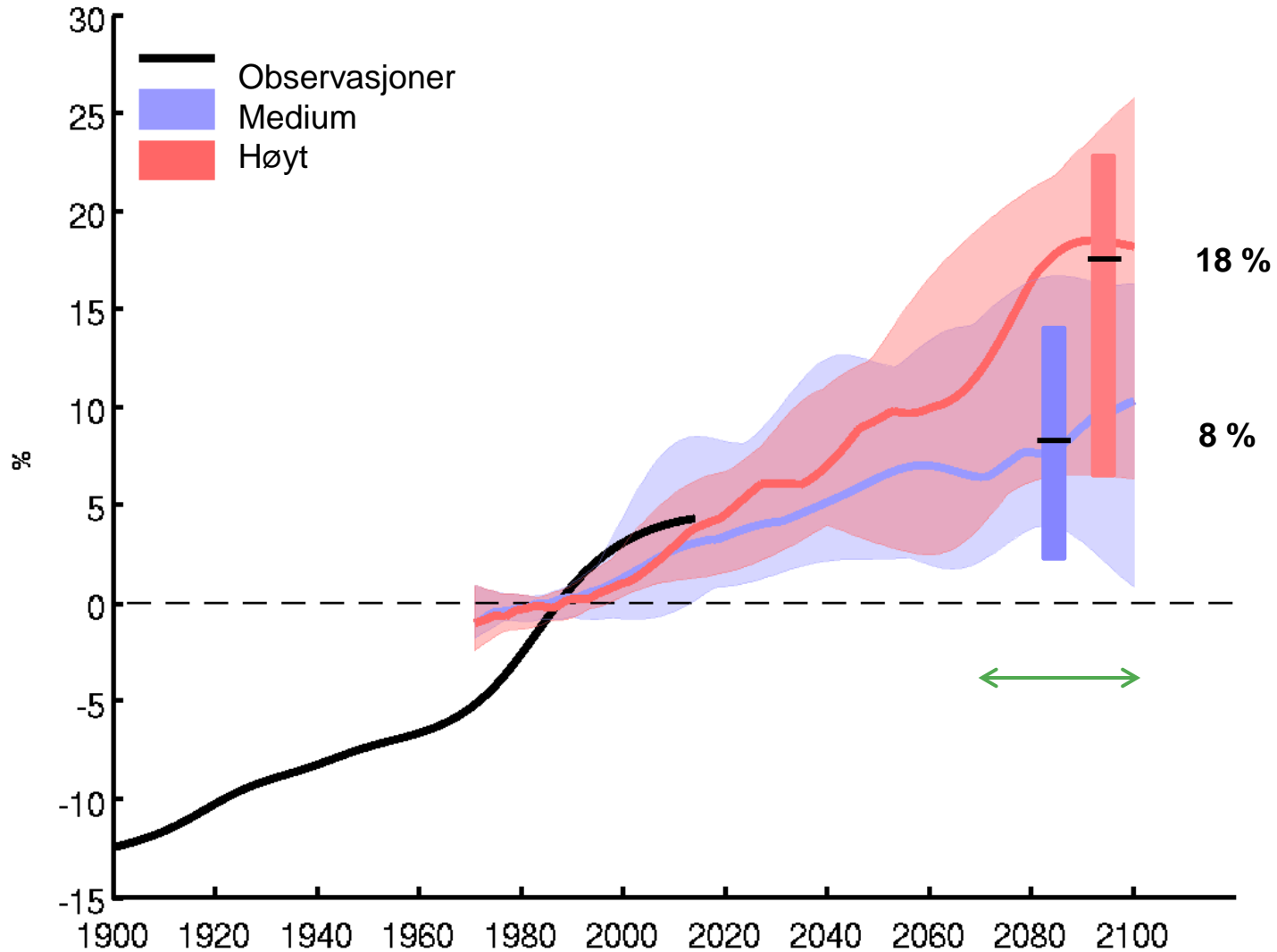
HØYT

+ 1 – 2 måneder

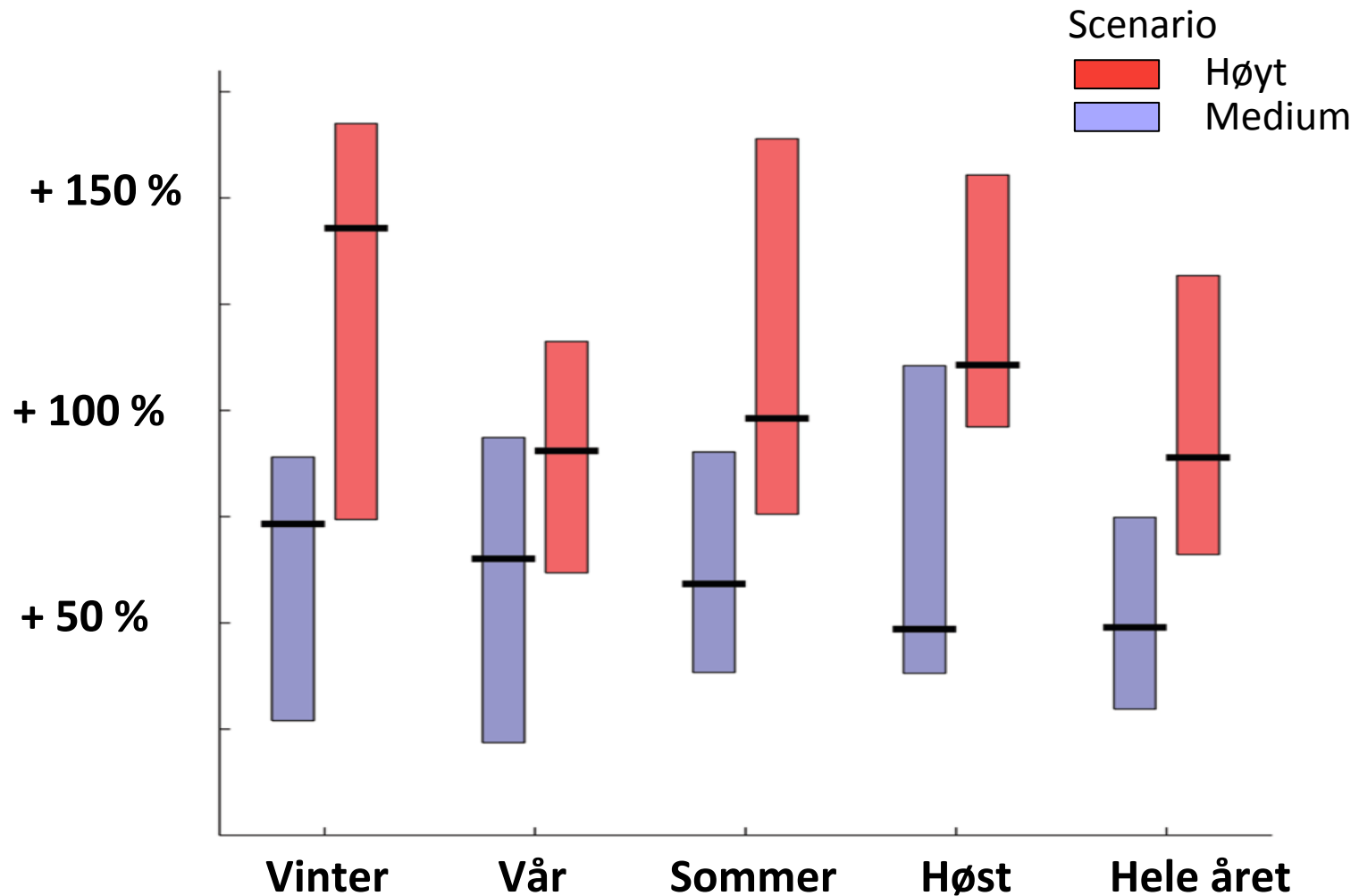
+ 2 – 3 måneder



Det blir våtere

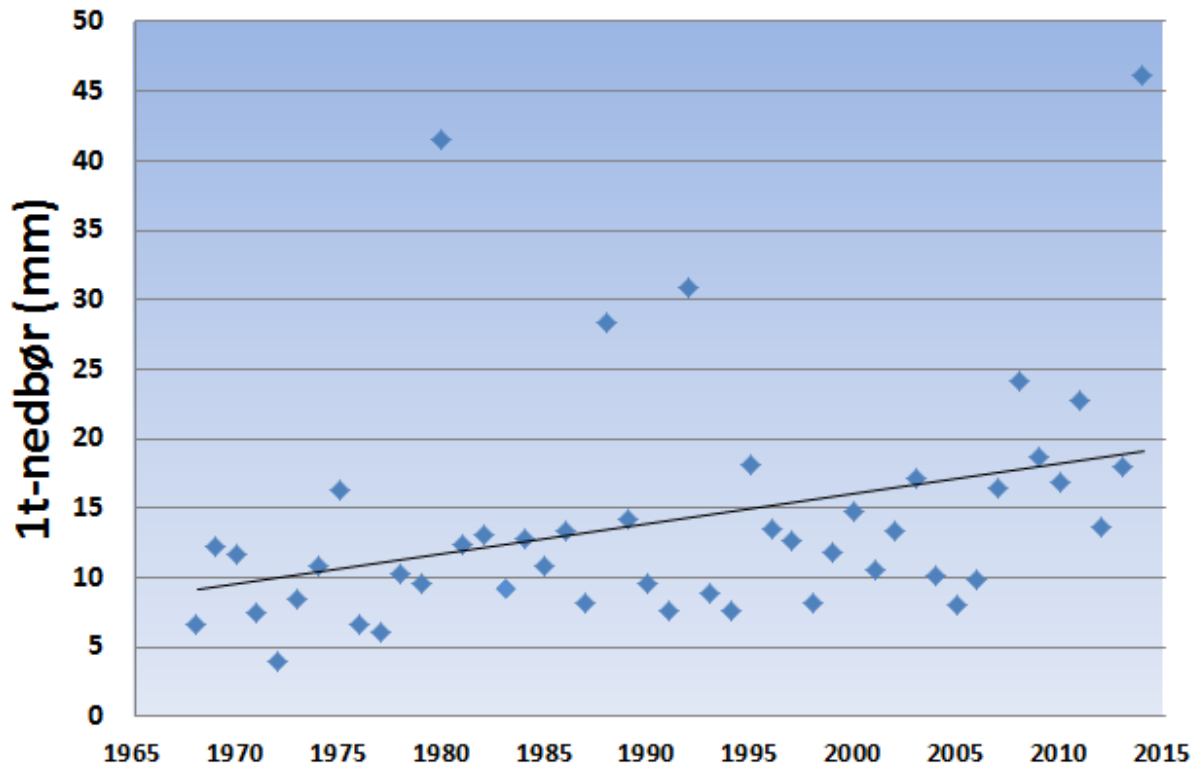


Det blir flere dager med kraftig nedbør

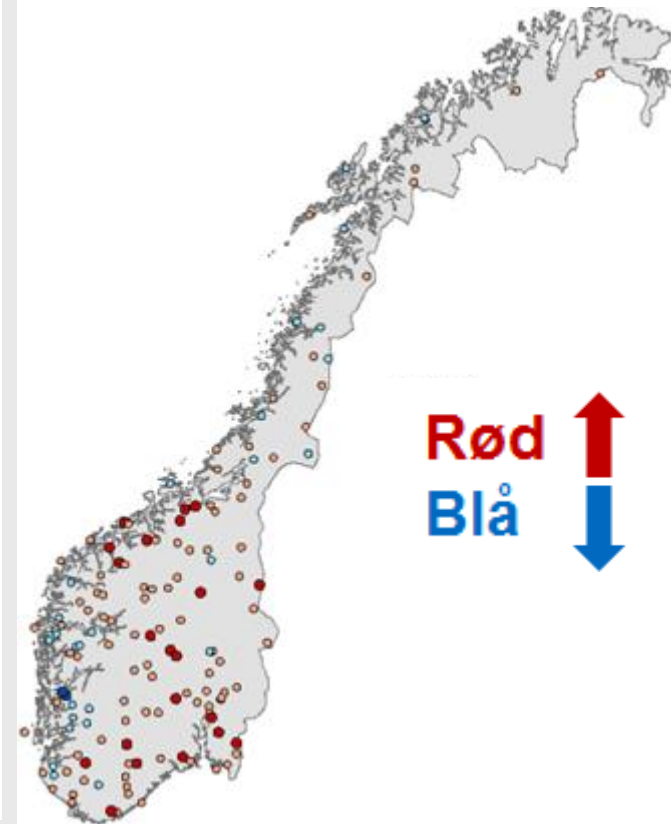


Korttidsnedbøren øker mest

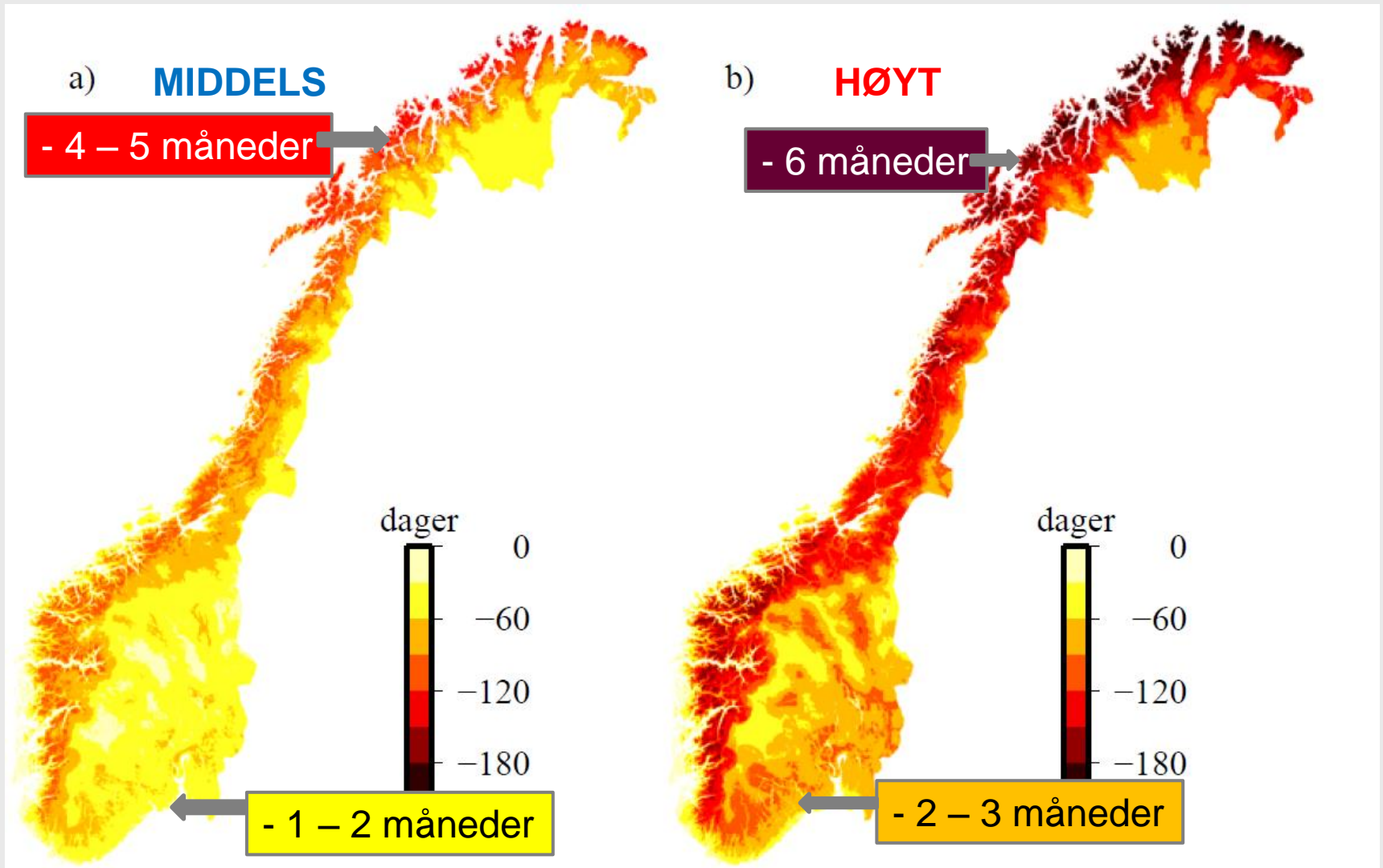
Maksimum 1-timesnedbør i Oslo (mm)



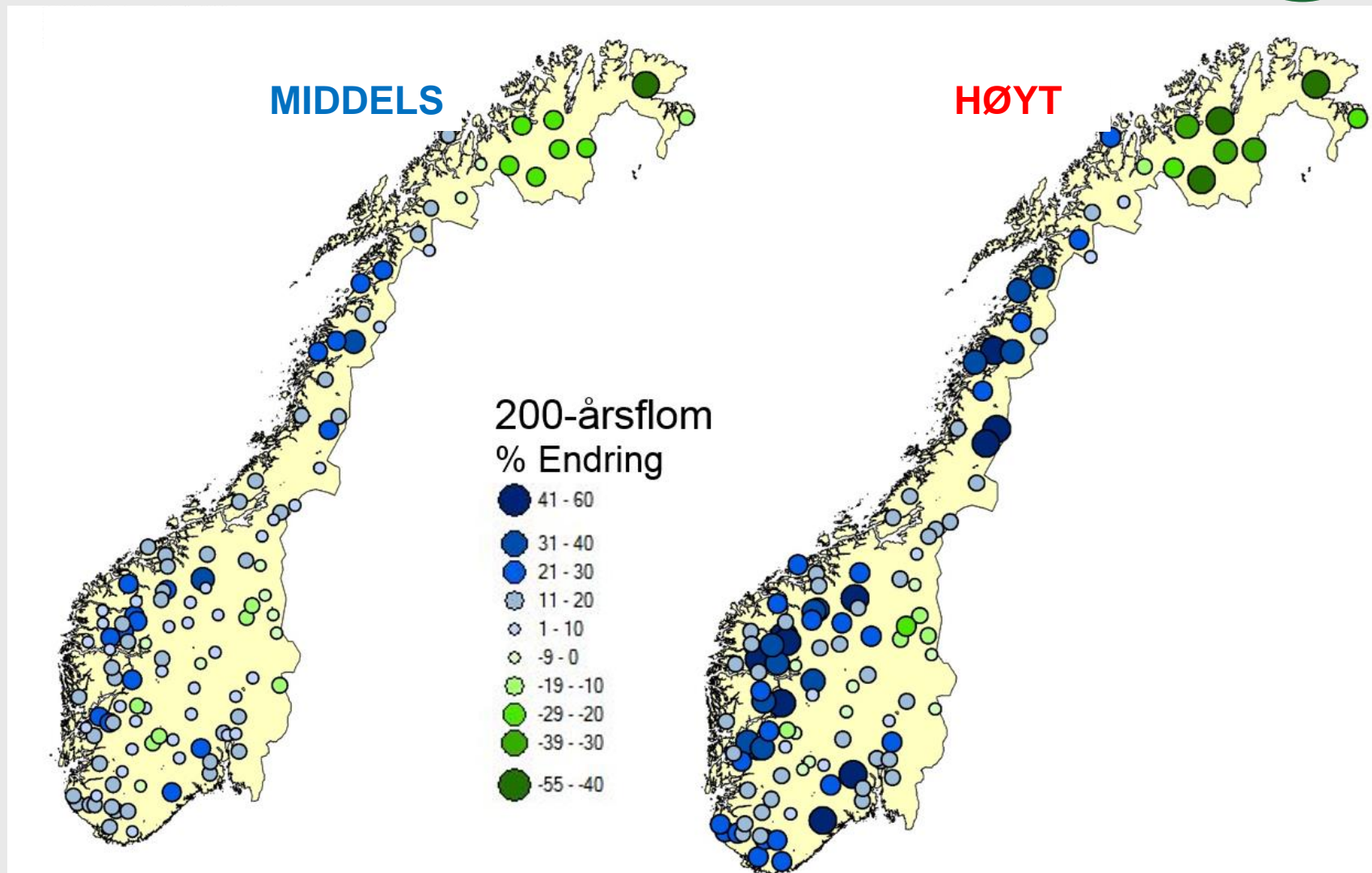
Trend maks 1t-nedbør, 1968-2014



Snøsesongen blir kortere



Flommene blir større **her** og mindre **der**



Det blir økt risiko for sommertørke (særlig i sør- og sørøst-Norge)

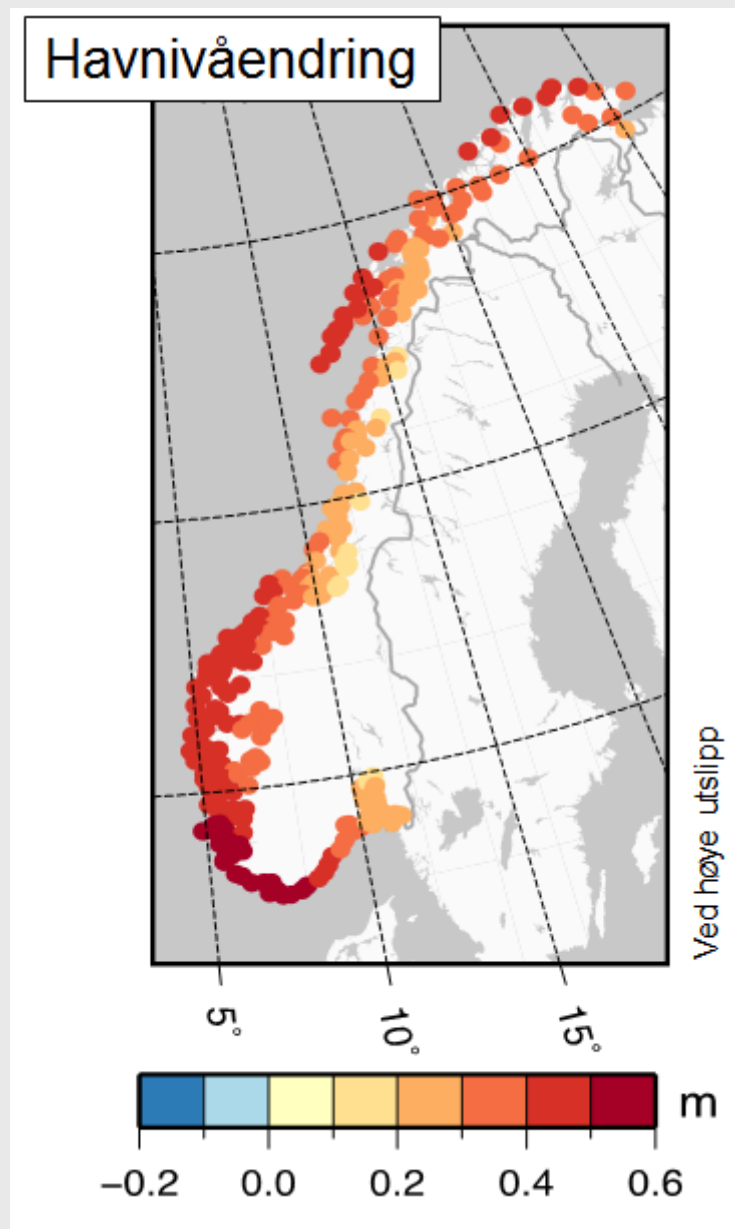
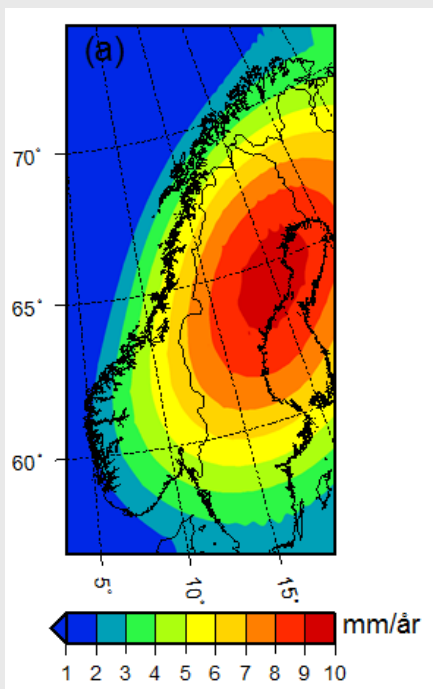


Havet stiger

Varmere klima →

- Smelting av is på land
- Varmeutvidelse av havet

Landhevingen påvirker:



Oppsummert: klimaendringer i Norge



Foto: Anette Karlsen/NTB scanpix



Foto: Hans Olav Hygen



Foto: Ludvig Lorentzen



Helge Mikalsen/NTB scanpix



Foto: Erling Briksdal

Men – et viktig forbehold!

**Mindre utslipp gir
mindre klimaendringer
og mindre behov for
tilpasning**



Takk for meg!

<https://klimaservicesenter.no>

reidung@met.no
@rgangsto

M-406 | 2015

Klima i Norge 2100

Kunnskapsgrunnlag for klimatilpasning oppdatert i 2015

NCCS report no. 2/2015



Foto: Anne Olsen-Ryum, www.hasvikfoto.no

Redaktører

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