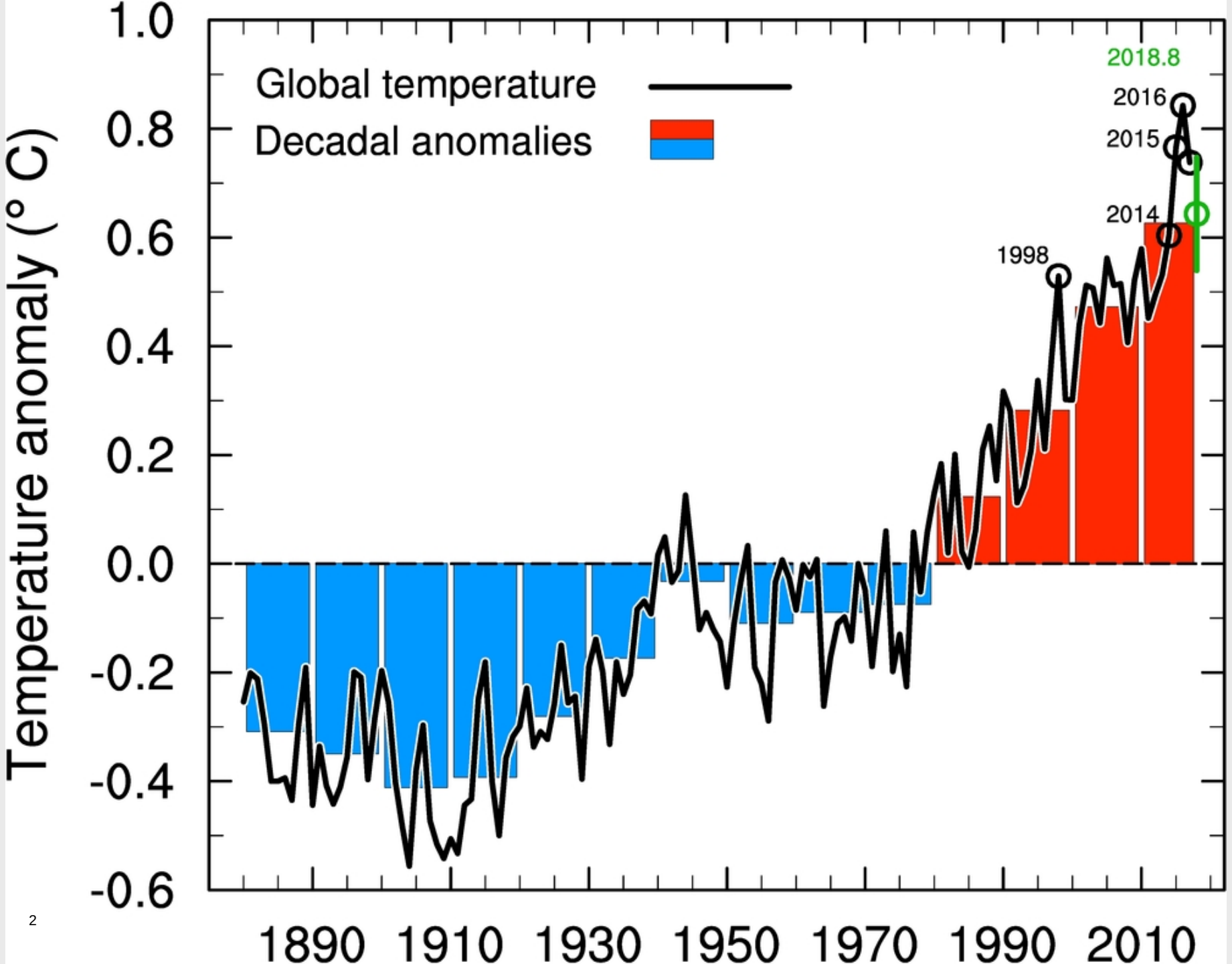


Meteorologisk institutt

Klimaendringer i Norge og norske farvann

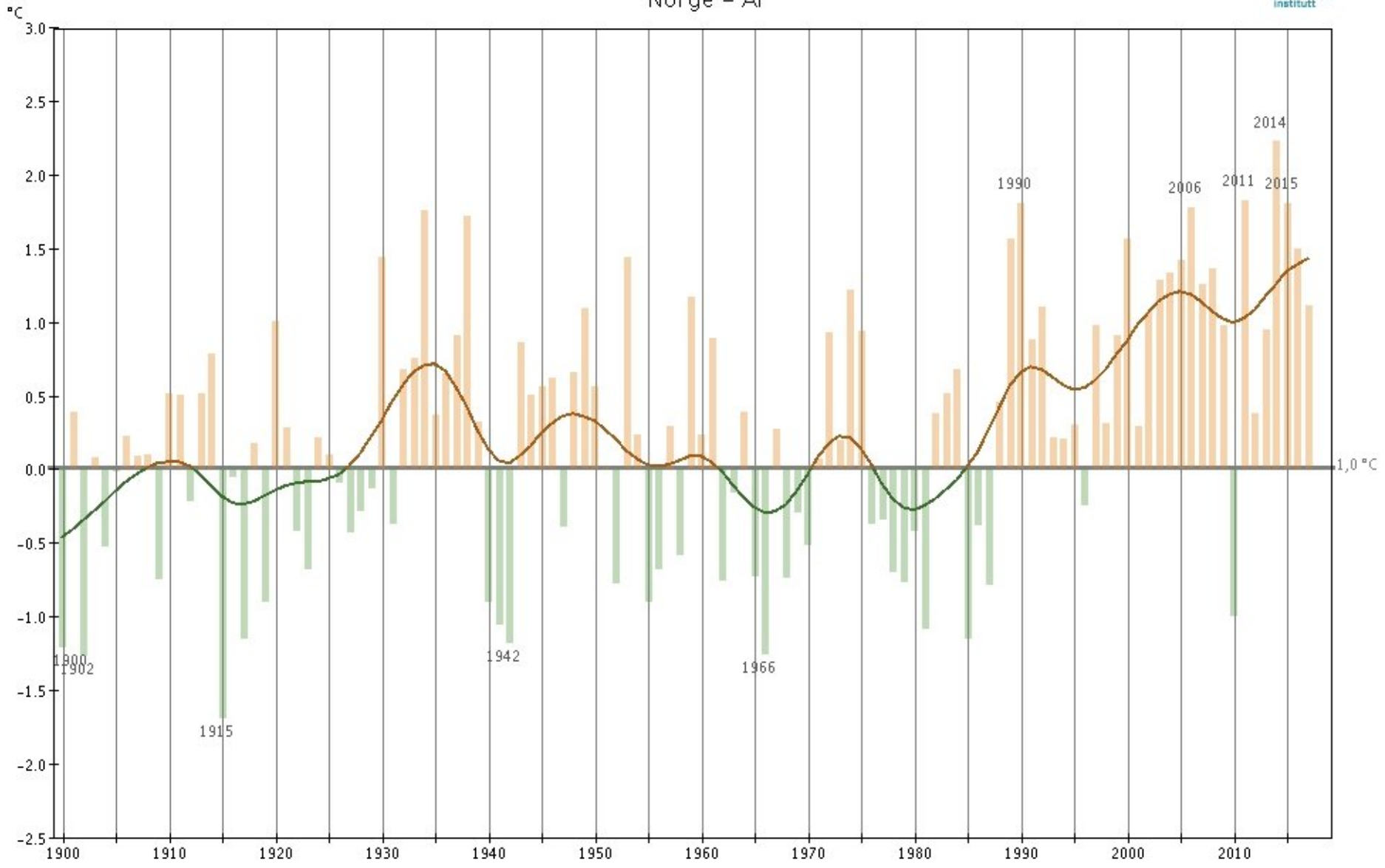
Hans Olav Hygen
@hohygen

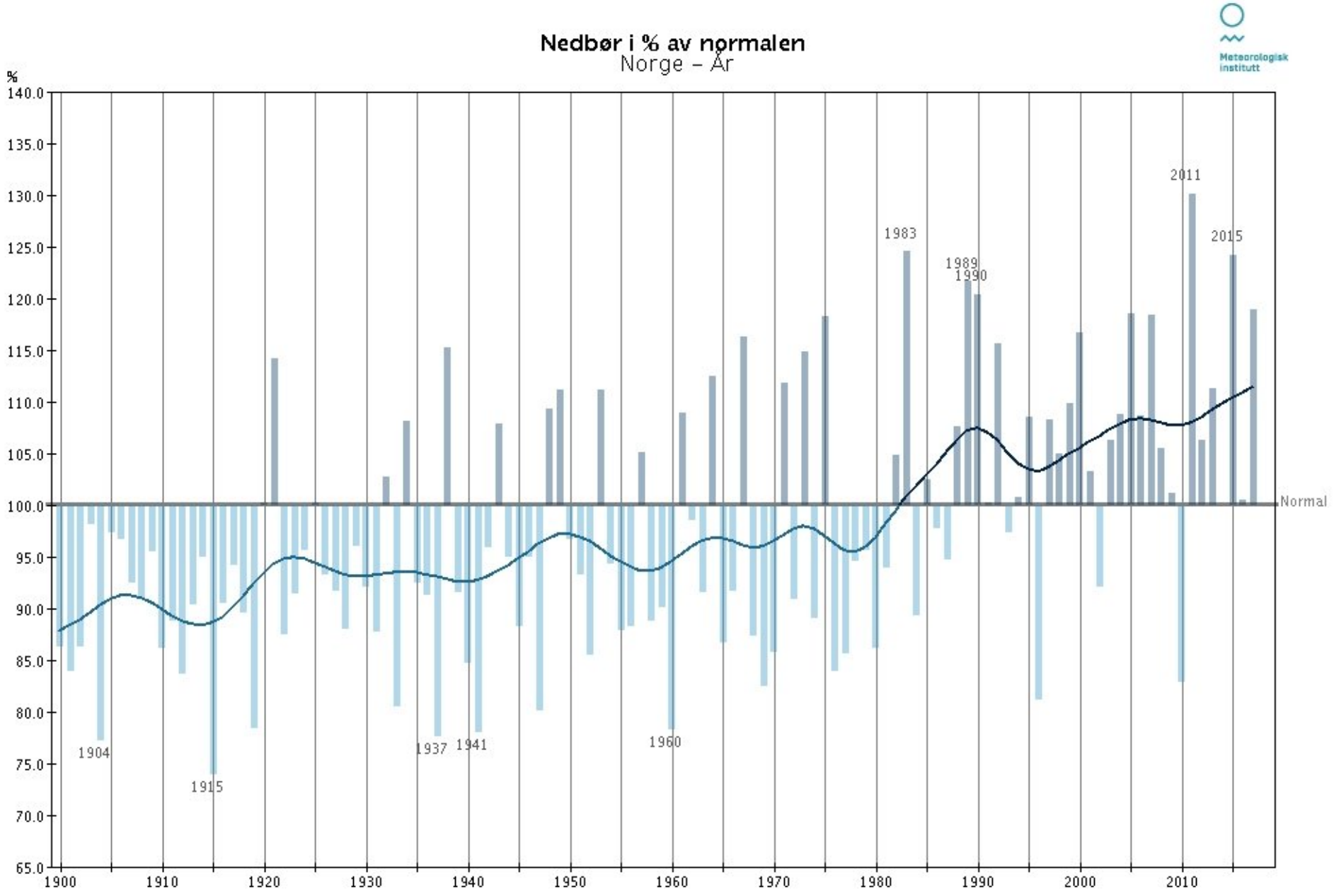
14.01.2016

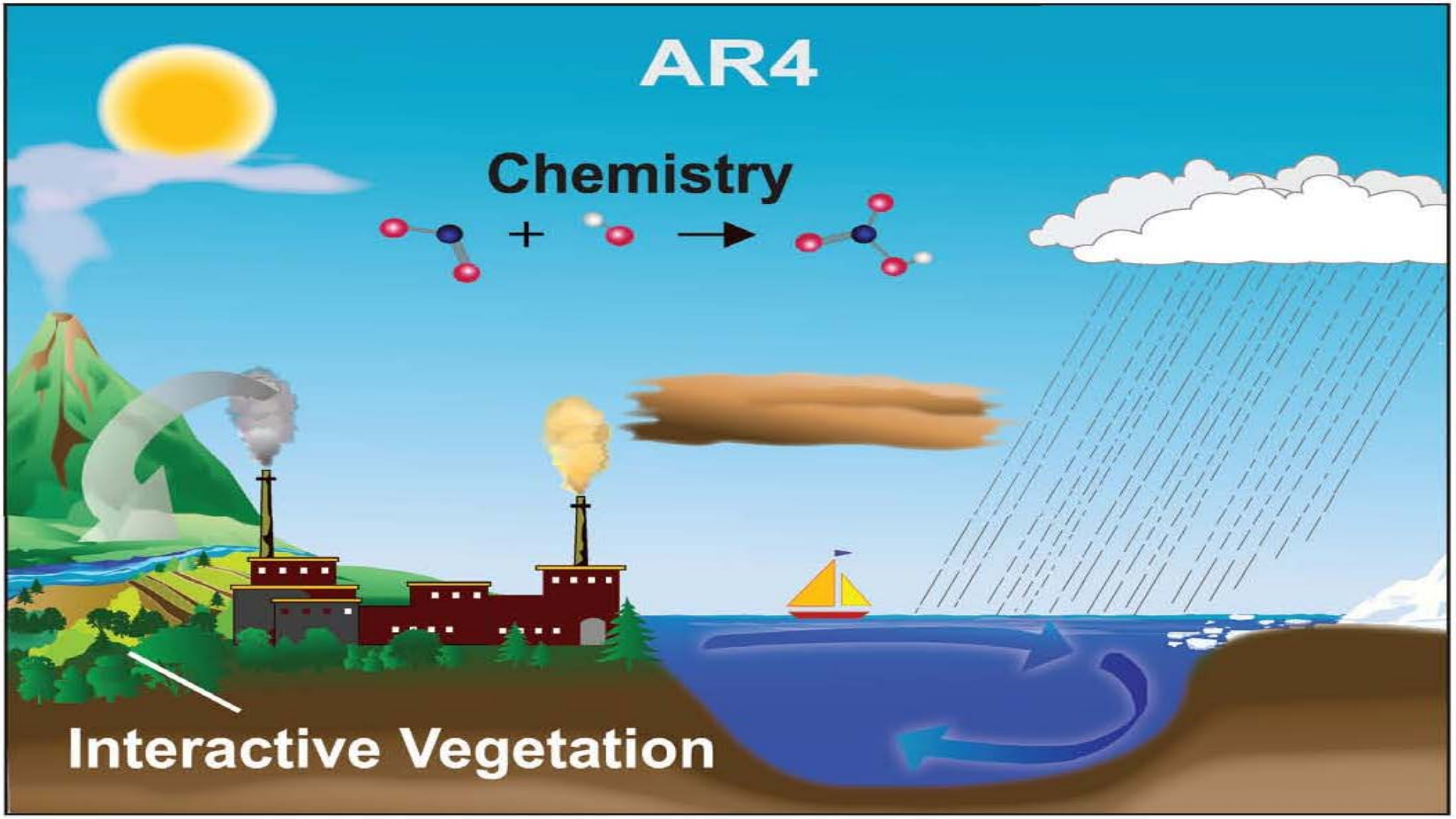

Global temperature
Decadal anomalies
2018.8
2016
2015
2014
1998
Temperature anomaly (° C)
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
1890
1910
1930
1950
1970
1990
2010

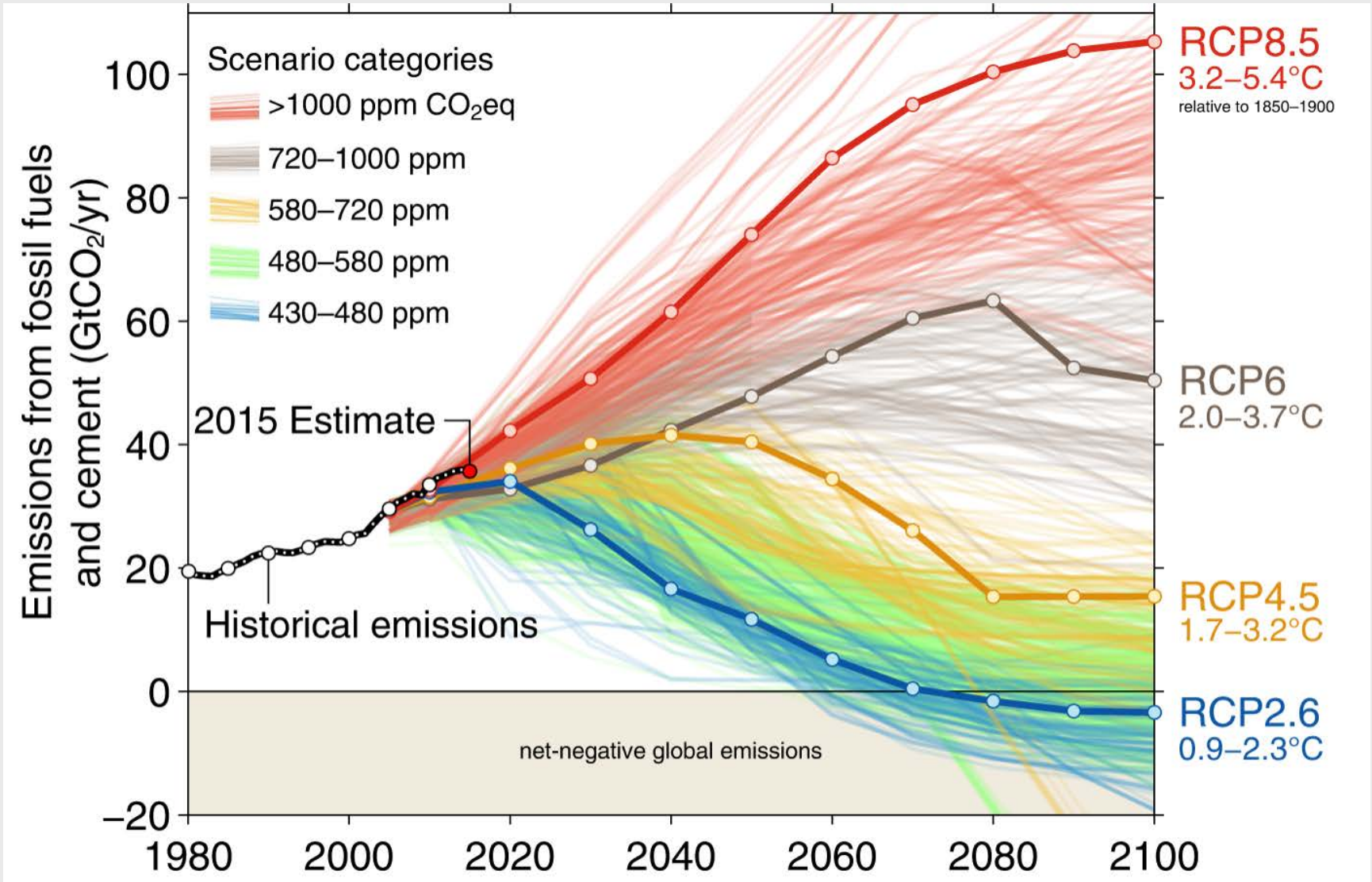
Temperaturavvik fra normal

Norge – År

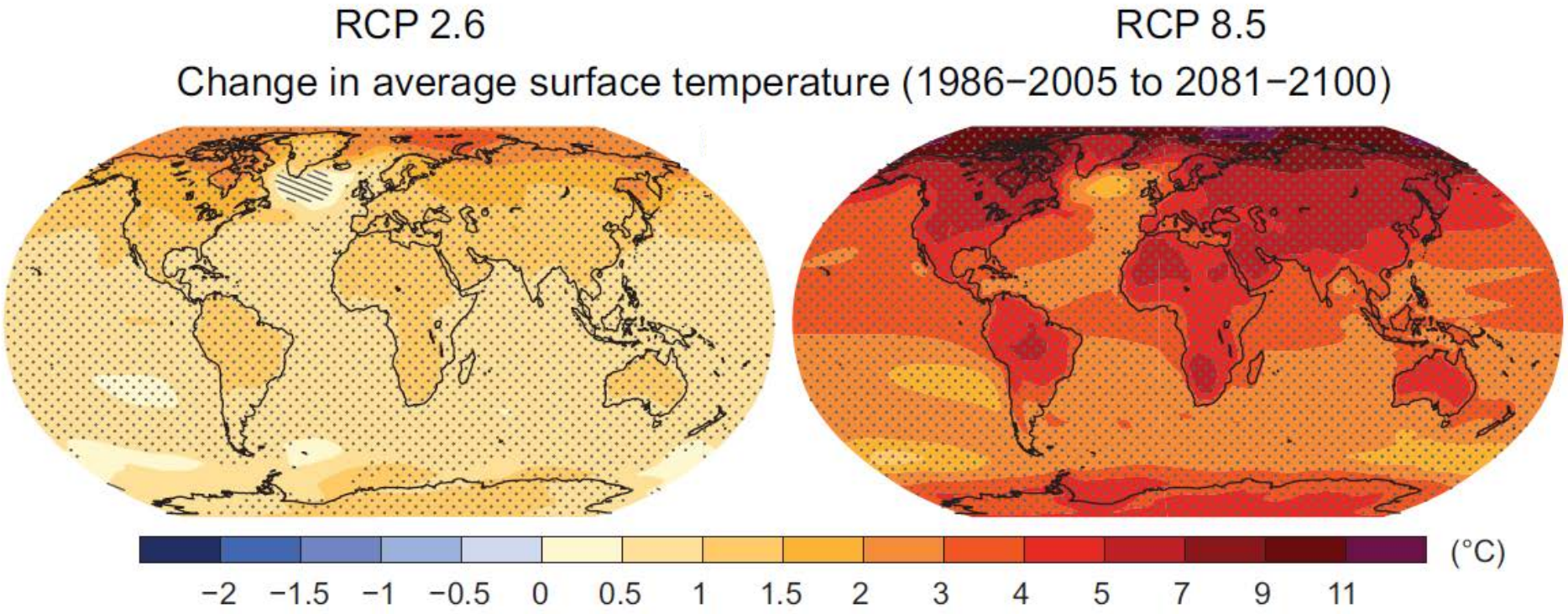



Nedbør i % av normalen
Norge – År
Meteorologisk institutt
%
140.0
135.0
130.0
125.0
120.0
115.0
110.0
105.0
100.0
95.0
90.0
85.0
80.0
75.0
70.0
65.0
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
Normal
1904
1915
1937
1941
1960
1983
1989
1990
2011
2015

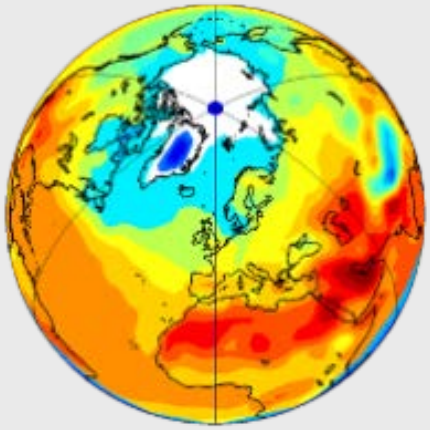

AR4
Chemistry
Interactive Vegetation



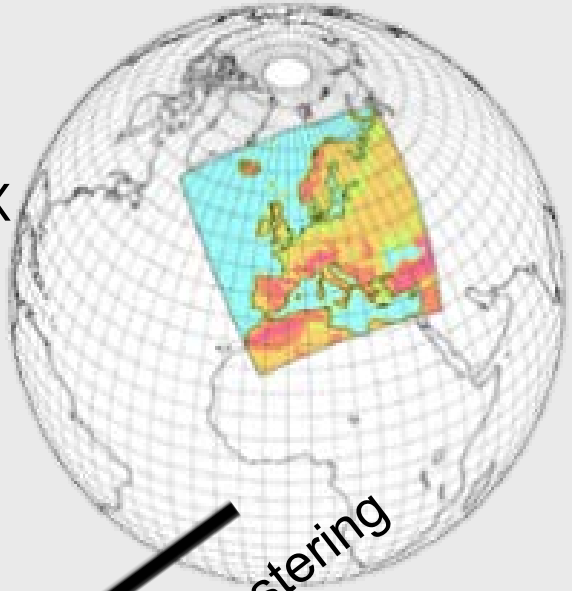
Global Carbon Project


RCP 2.6
RCP 8.5
Change in average surface temperature (1986−2005 to 2081−2100)
−2 −1.5 −1 −0.5 0 0.5 1 1.5 2 3 4 5 7 9 11
(°C)

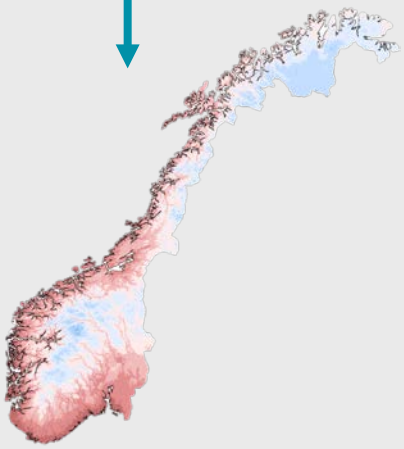
Global til lokal



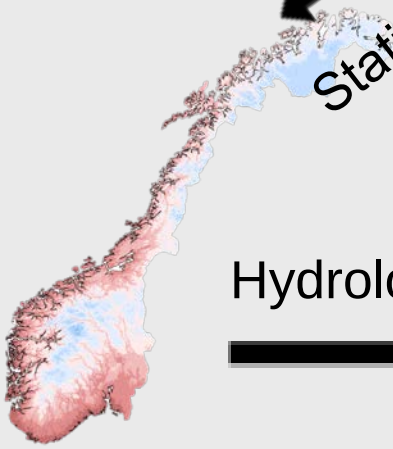
Euro CORDEX



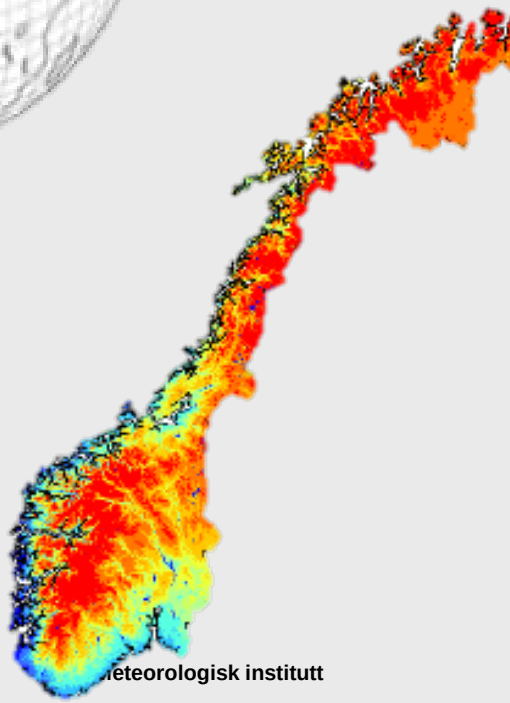
ESD



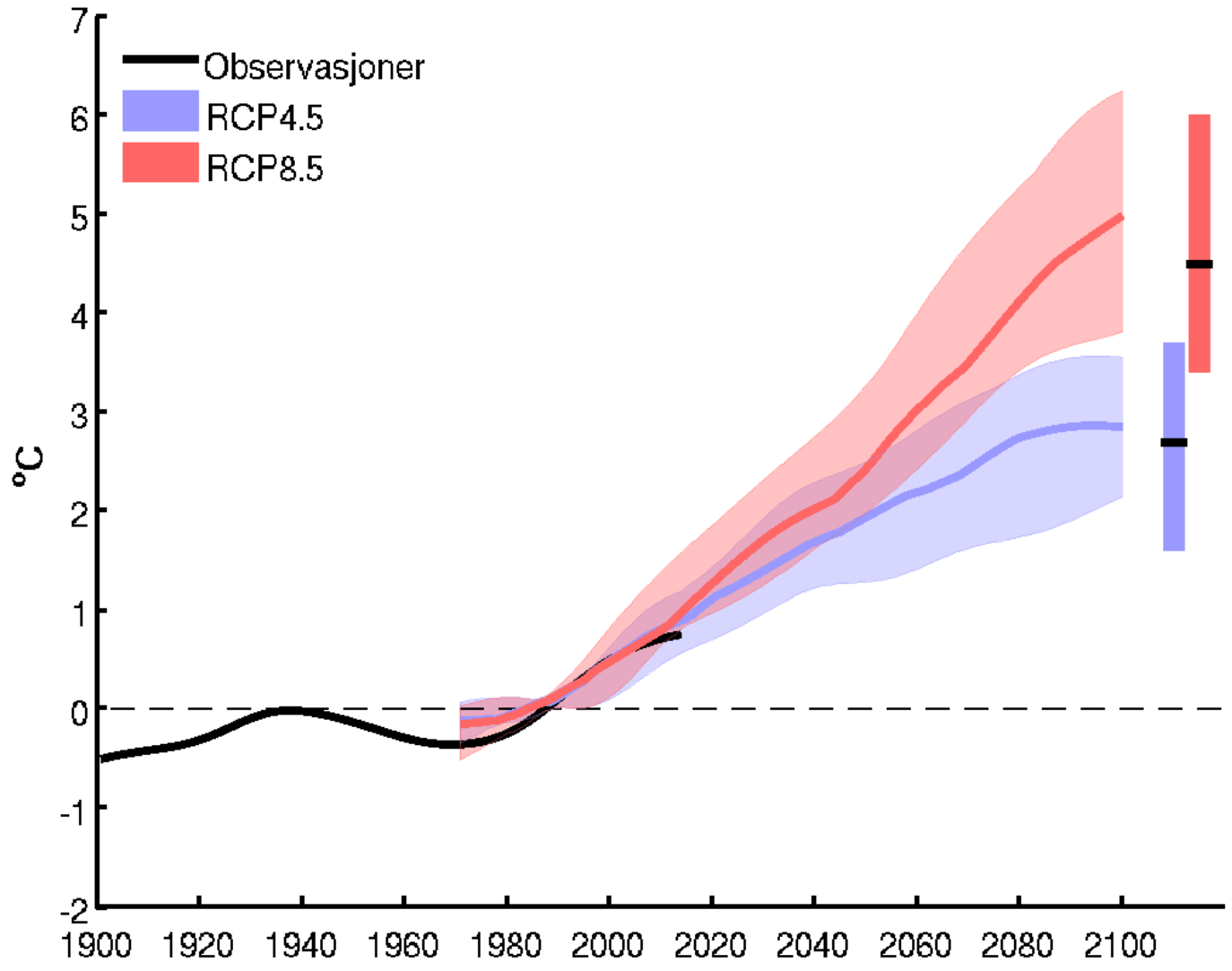
Statistisk justering



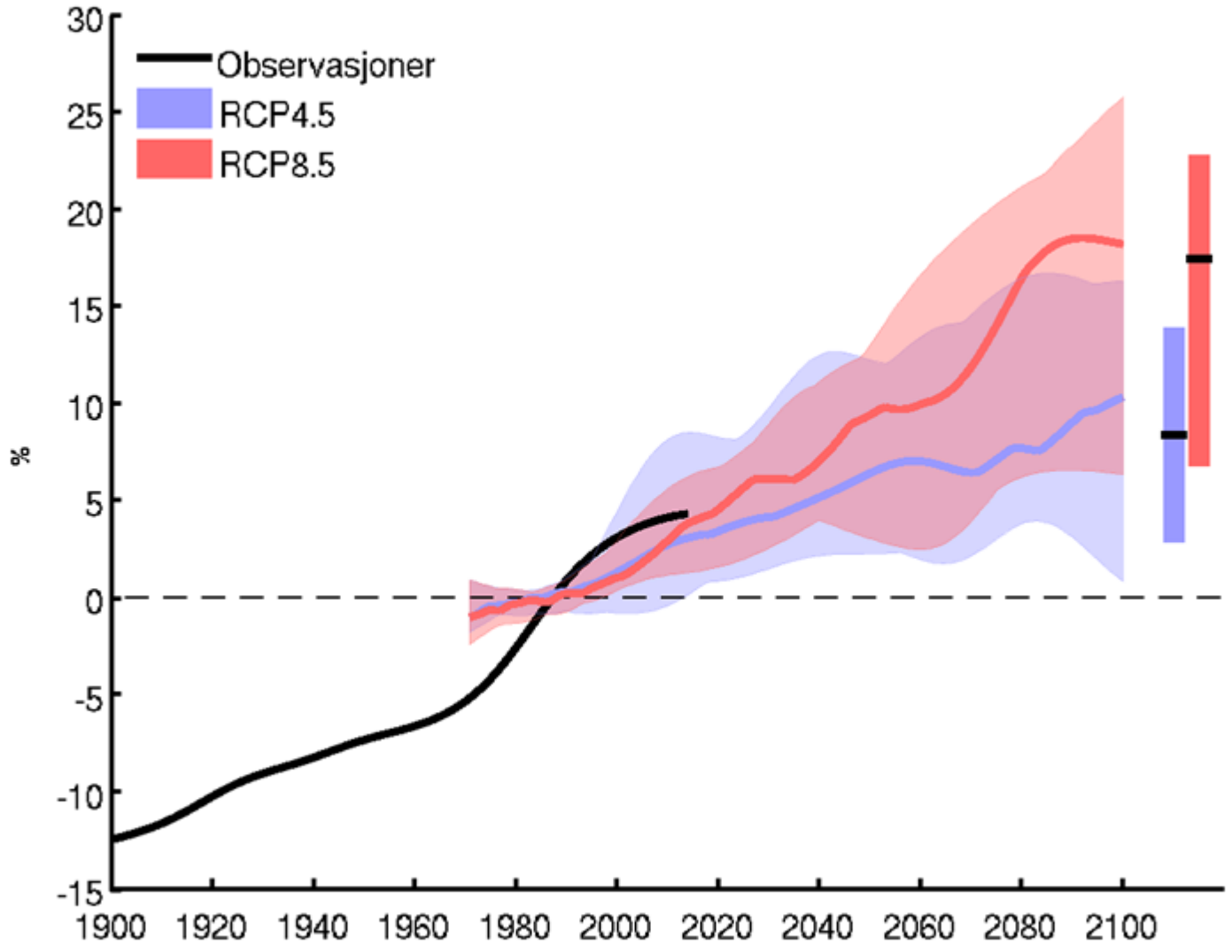
Hydrologisk modell



Temperatur


Observasjoner
RCP4.5
RCP8.5
°C
7
6
5
4
3
2
1
0
-1
-2
1900
1920
1940
1960
1980
2000
2020
2040
2060
2080
2100

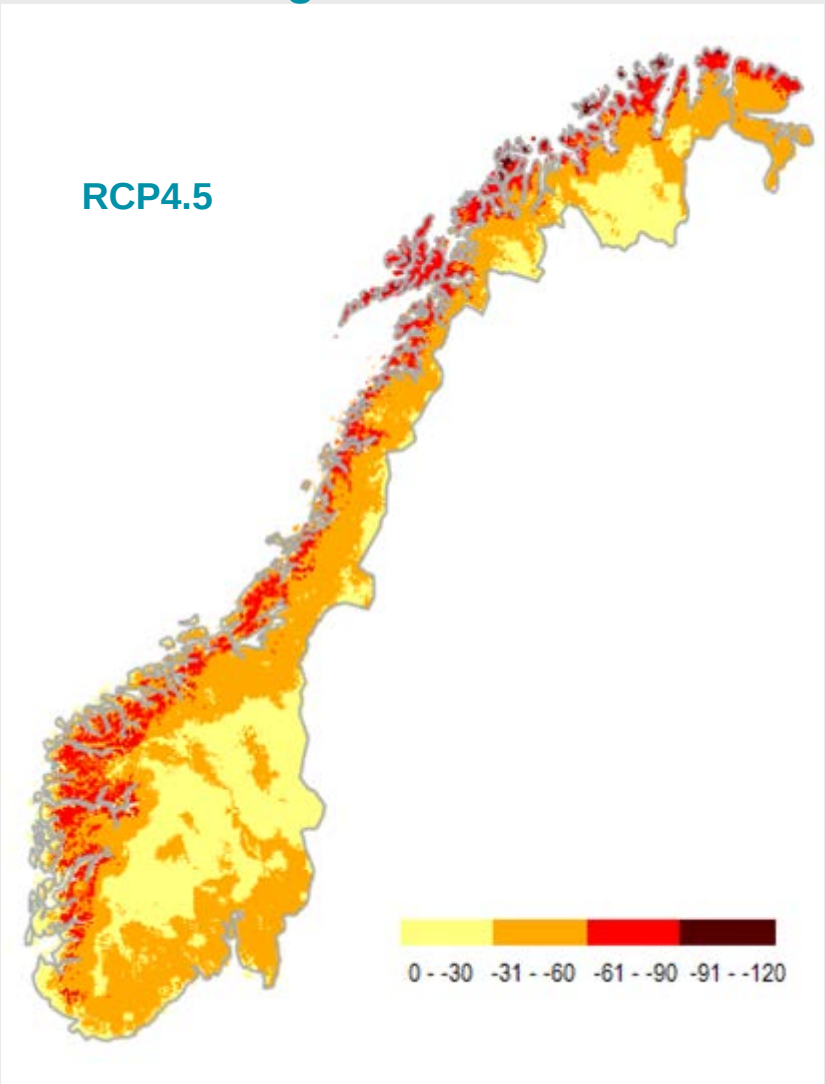
Nedbør


Observasjoner
RCP4.5
RCP8.5
%
30
25
20
15
10
5
0
-5
-10
-15
1900
1920
1940
1960
1980
2000
2020
2040
2060
2080
2100

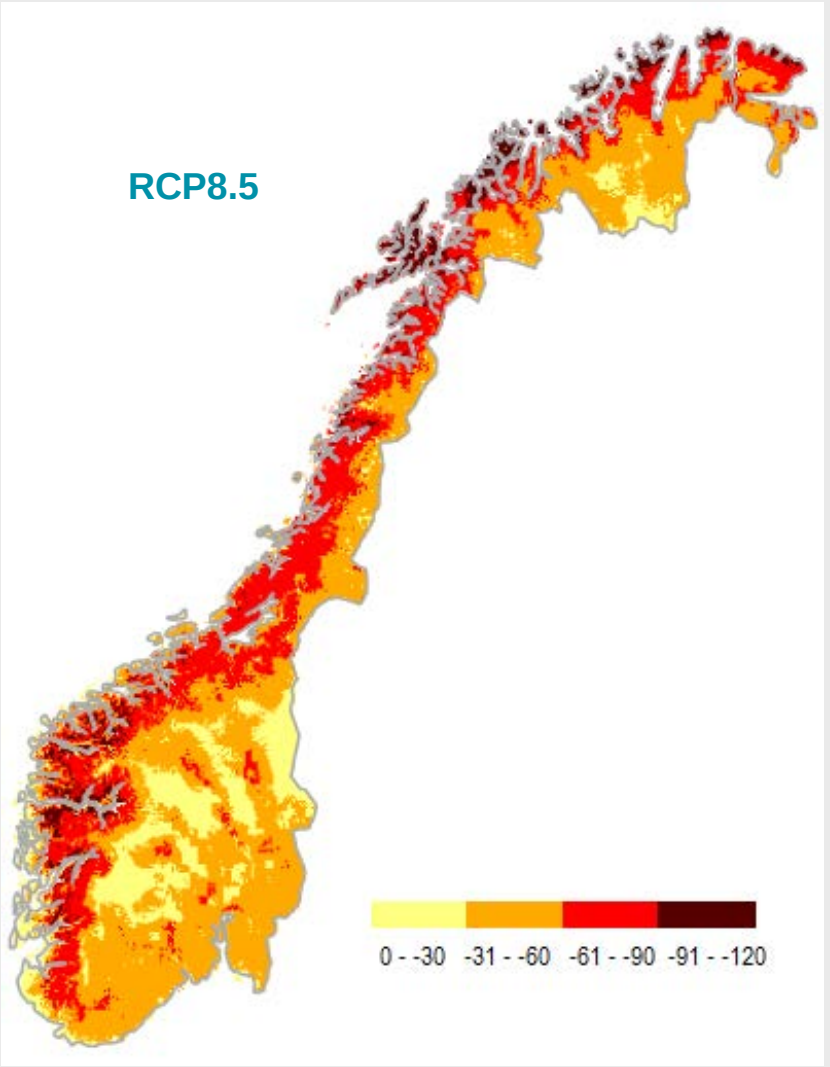
Fremtidens snø

Ending 1971 - 2000 til 2031 - 2061

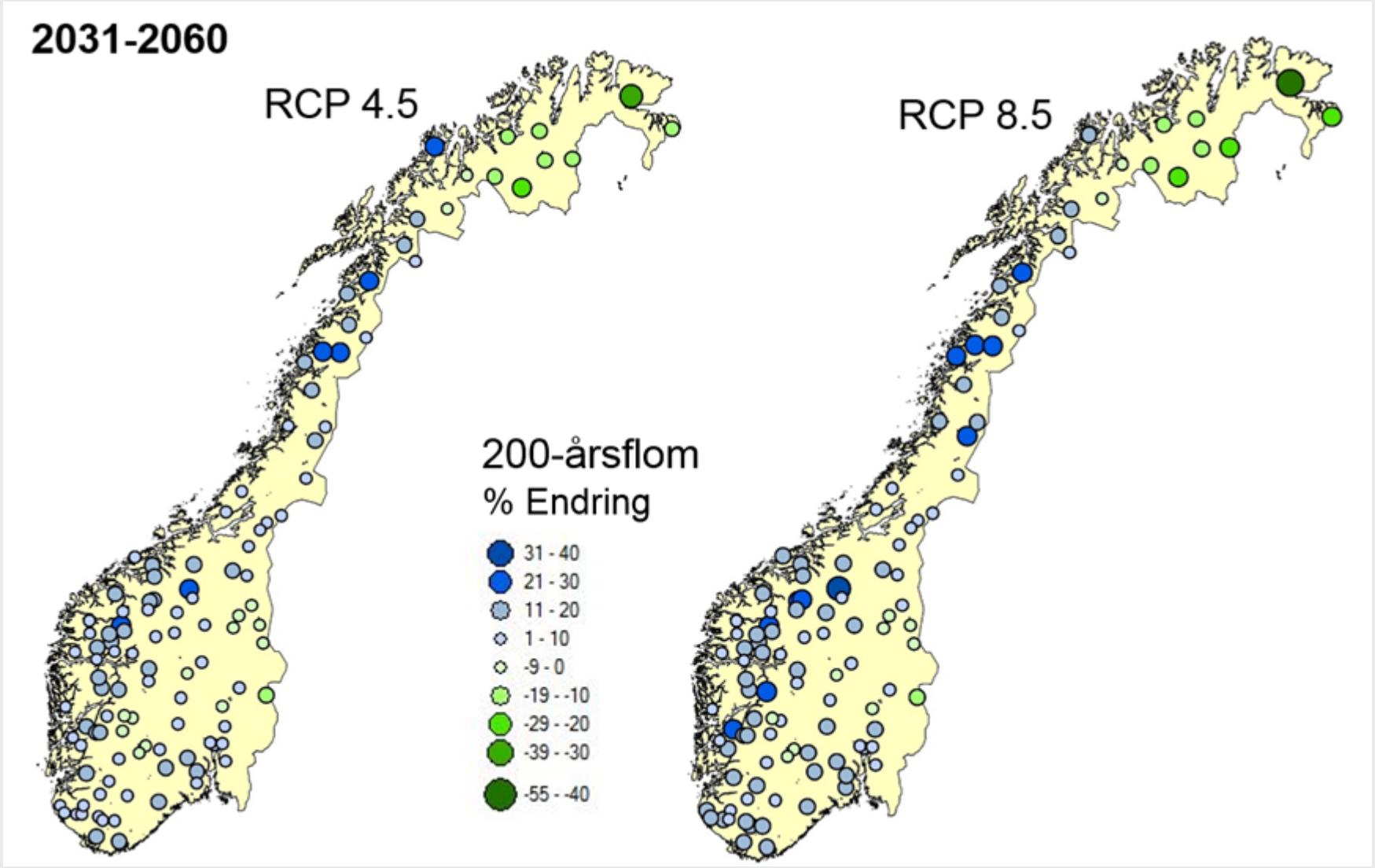
RCP4.5



RCP8.5

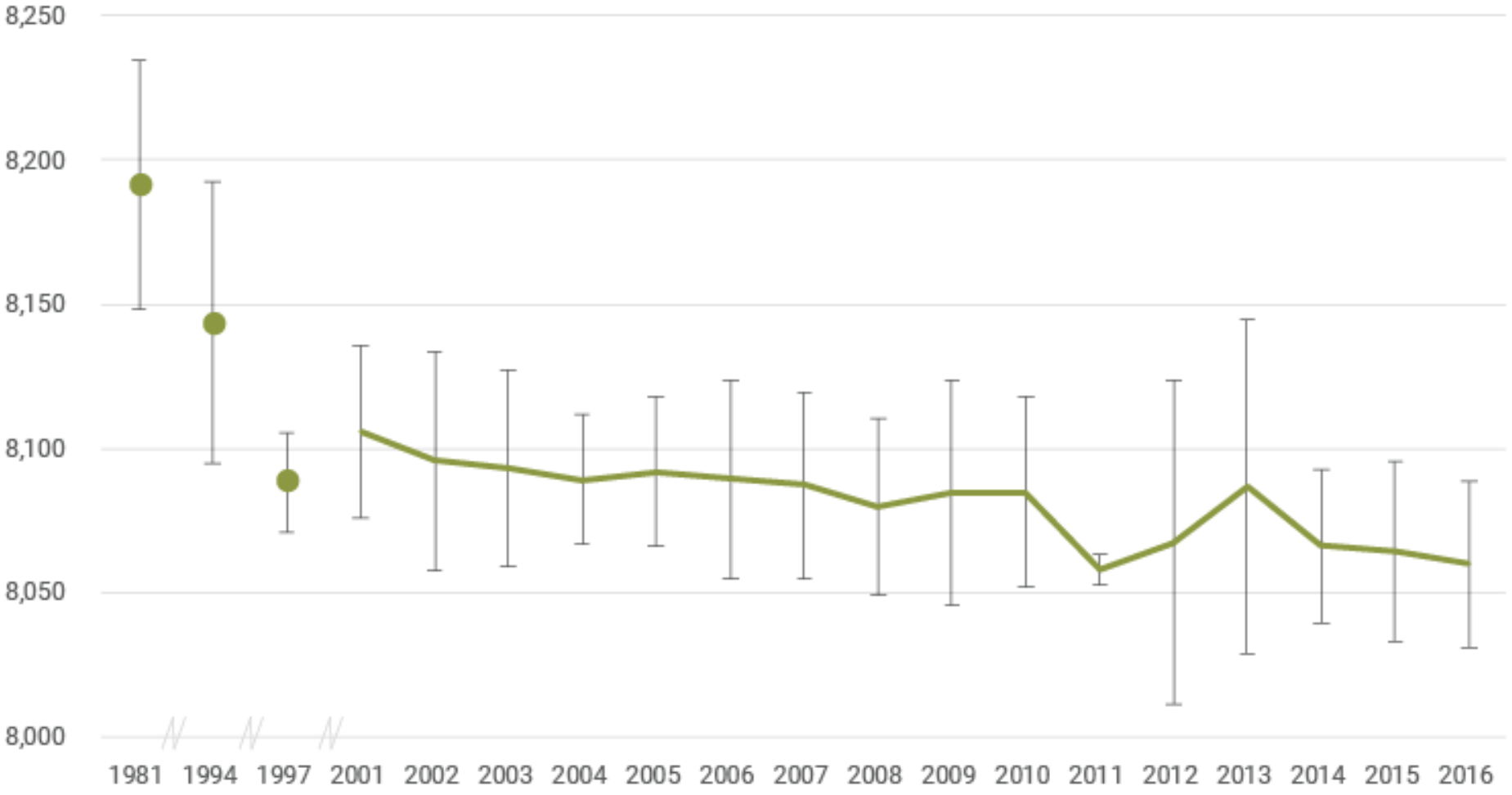


Endret flommønster



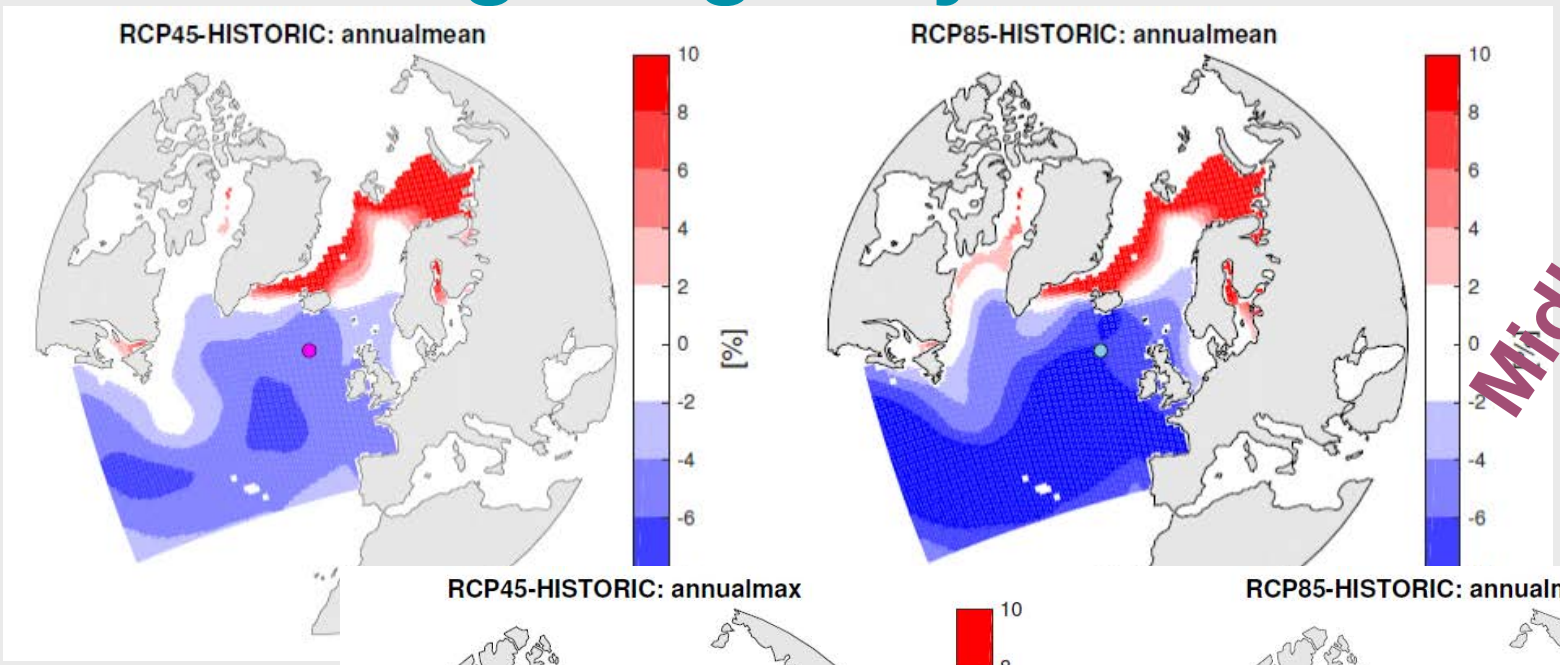


pH i Norskebassenget
Øvre 0-200 meter

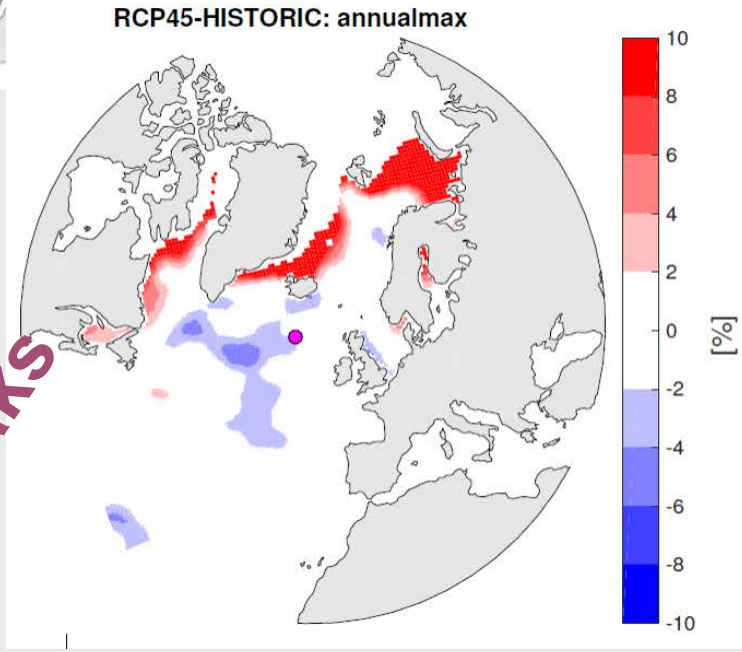


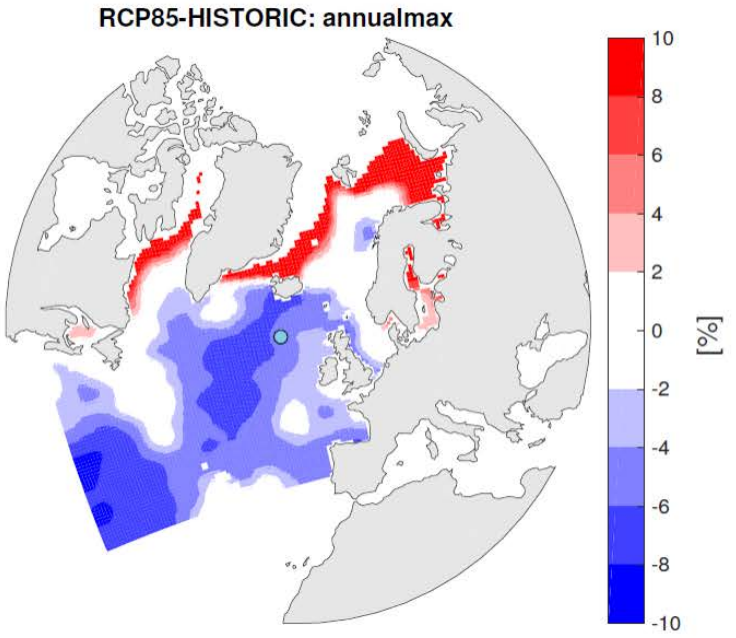
Merk at tidsaksen har brudd mellom 1981 og 2001. Hver pH-verdi er midlet over et år, og de vertikale stolepene viser standardavvikene. Data er fra øverste 200 m og er hentet fra Skjelvan m fl., 2014; Chierici m fl. 2015; 2016;2017, og kommunikasjon med Ingunn Skjelvan.

Endring bølgehøyde



Midlere

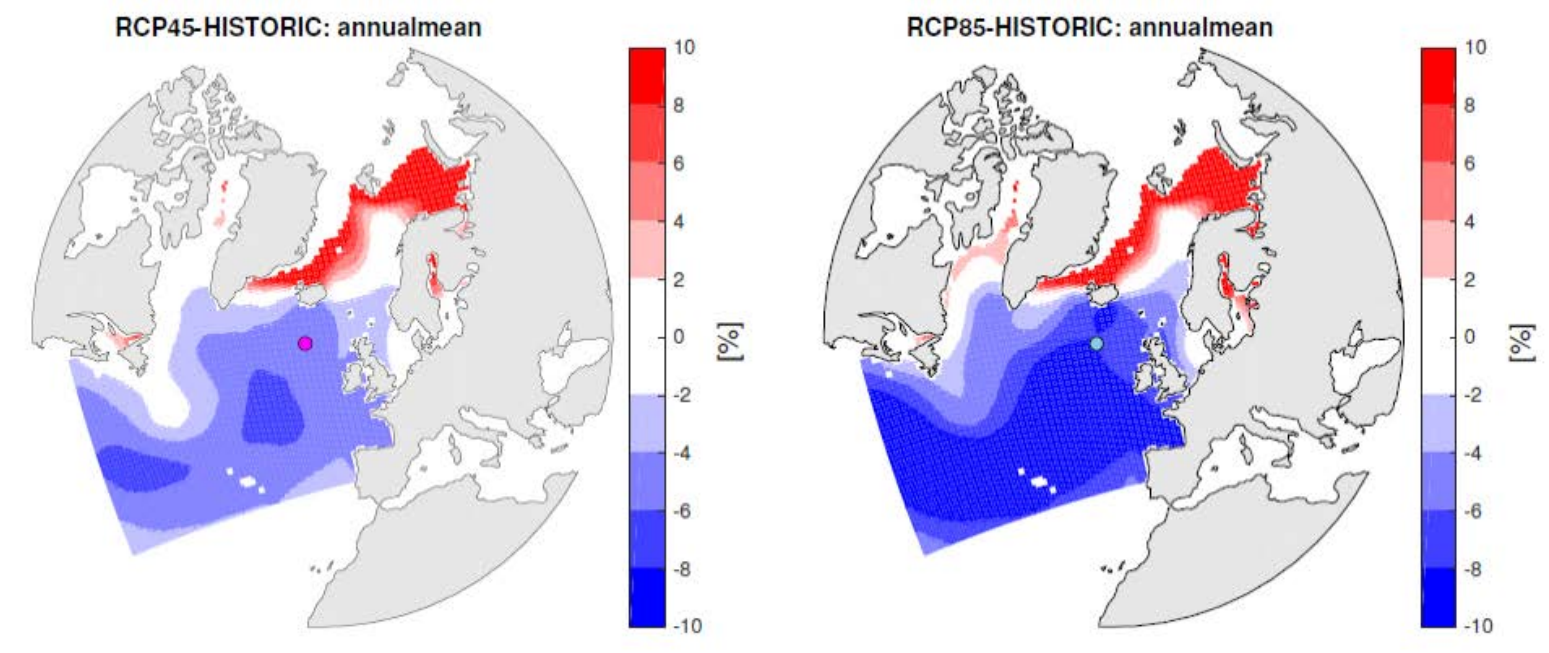




Maks


Meteorologisk
institutt
Den beste klimatilpassing
er utslippskutt

Endring midlere bølgehøyde



Endring i maksimal bølgehøyde

