

National report Norway, GLOSS GE XVIII

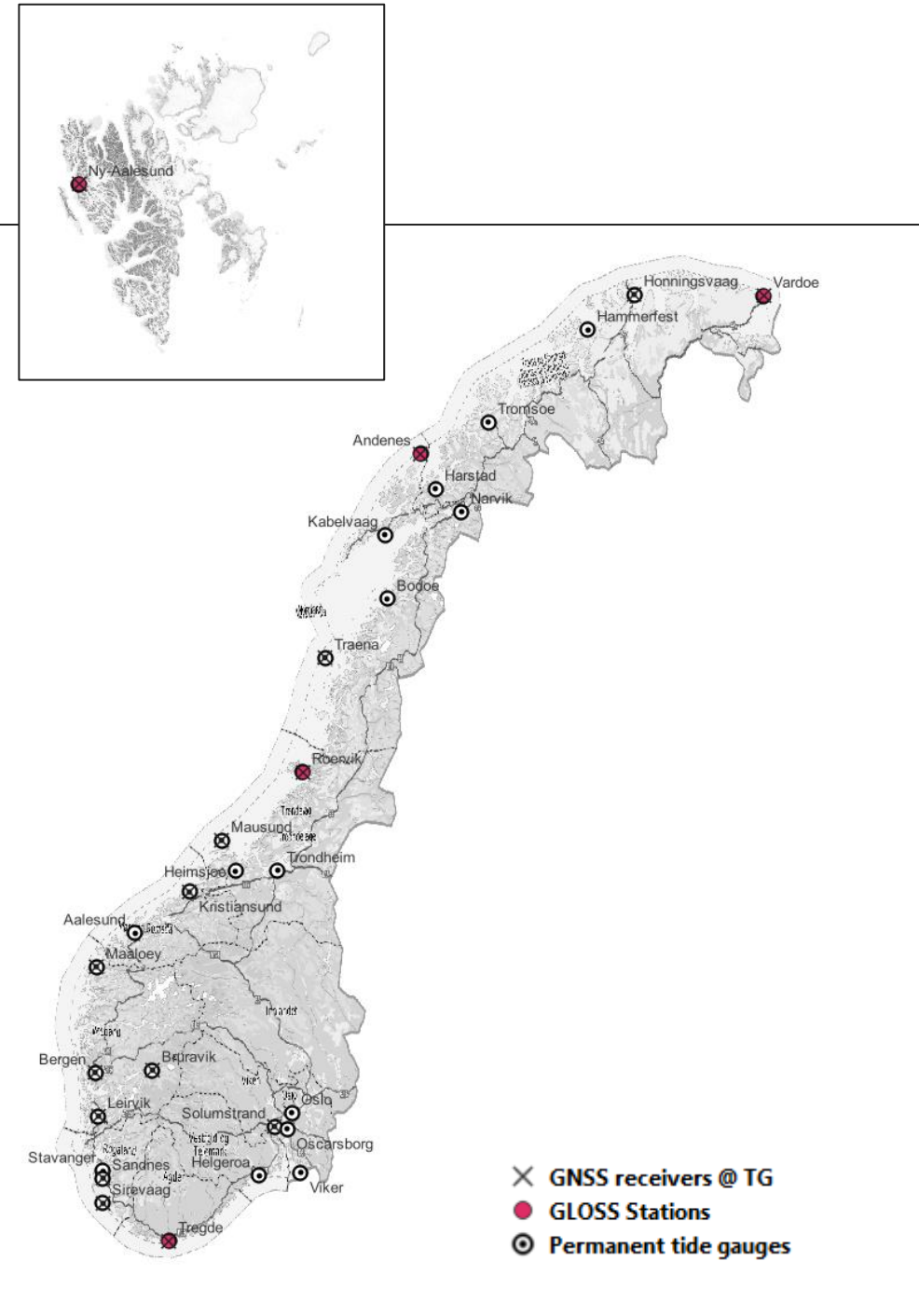
Oda R. Ravndal, Norwegian Mapping Authority



Bruravik tide gauge, Photo: Torbjørn Taskjelle

Permanent tide gauge network

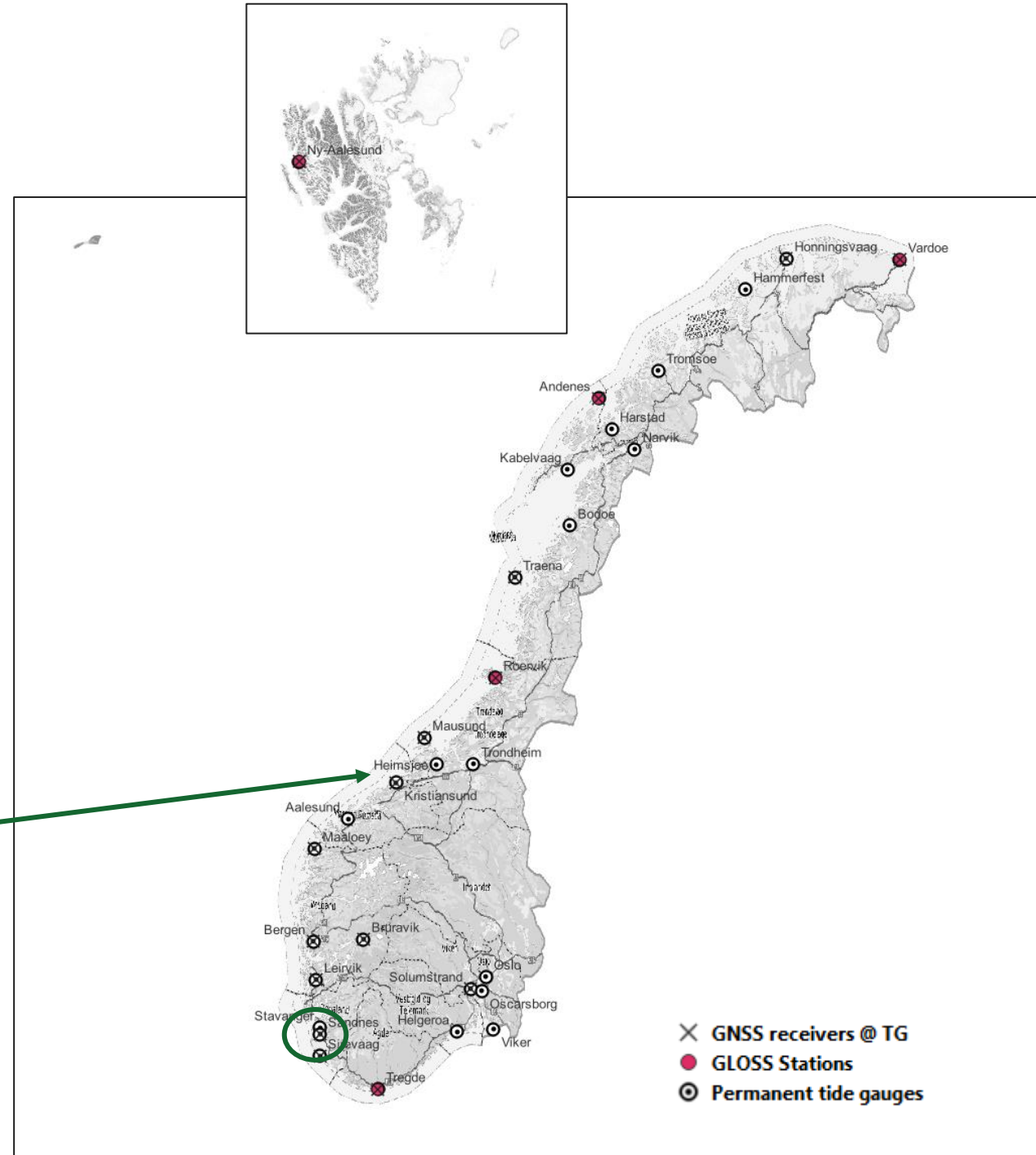
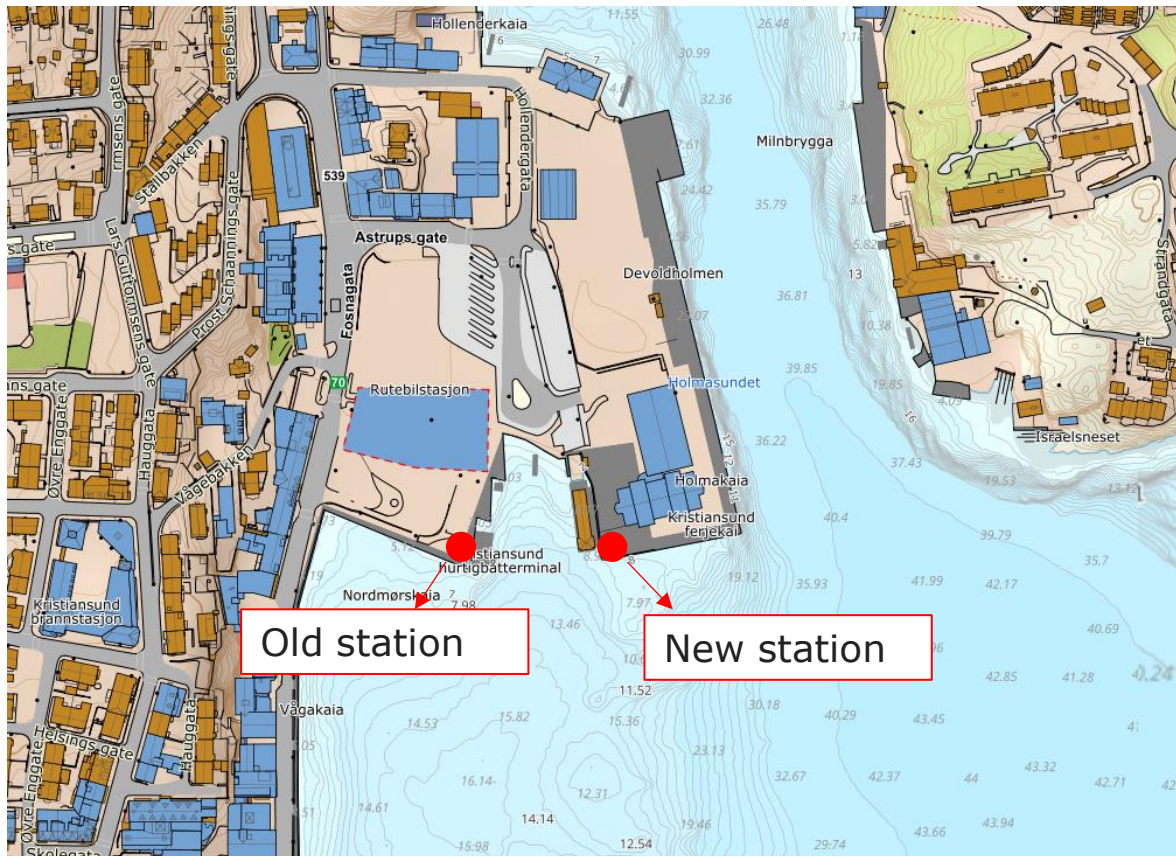
- Status per March 2025
- 5 GLOSS stations
- 29 stations on mainland Norway, one on Svalbard
- 16 stations co-located with or in proximity of GNSS receivers
- 7 radar gauges, 23 float gauges
- Water level data available on [website](#) and [API](#)
- Data is shared with national and international data portals through the API



Changes to the network

Changes:

- Sandnes temporarily out of service
- Kristiansund moved



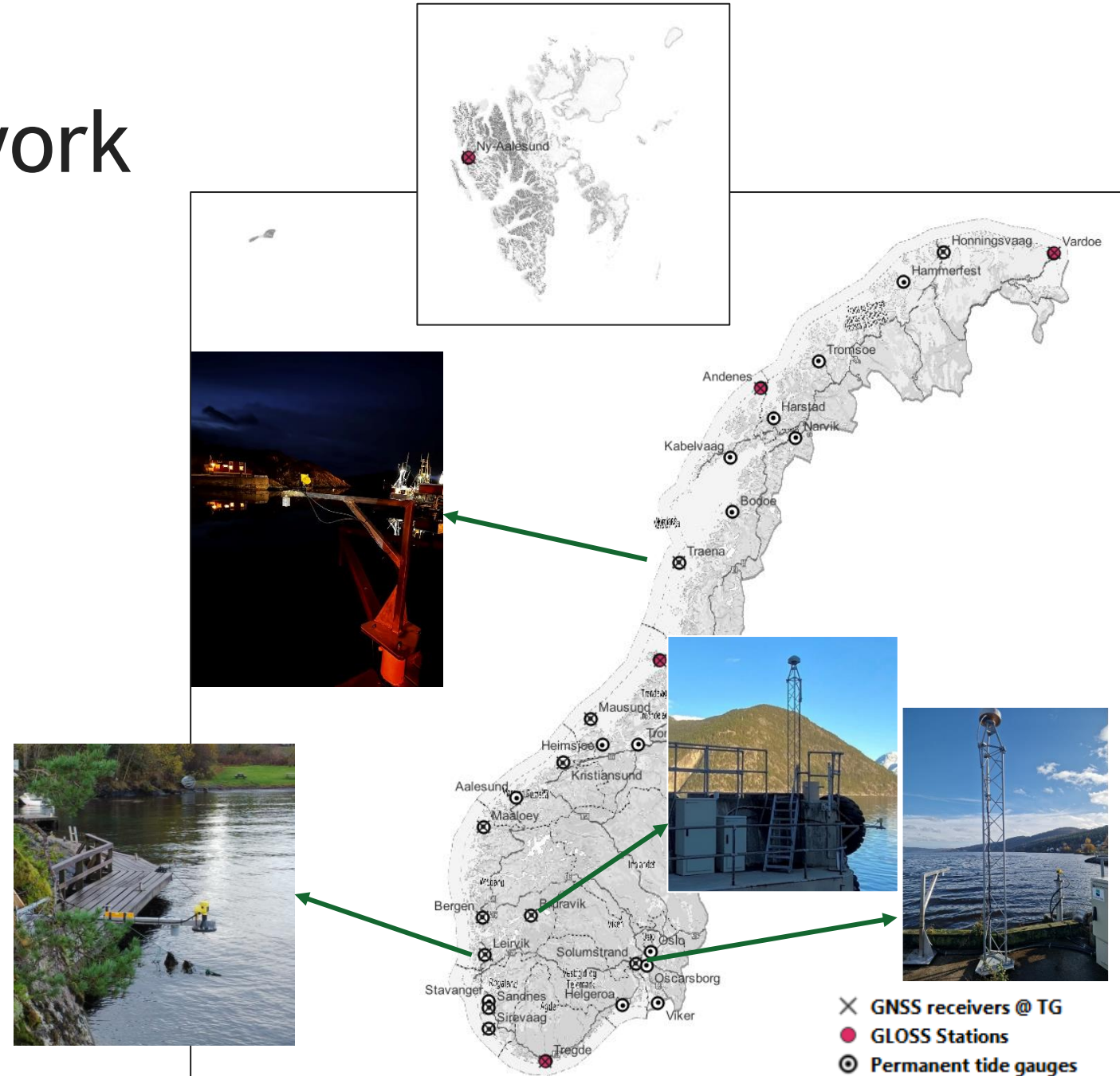
Changes to the network

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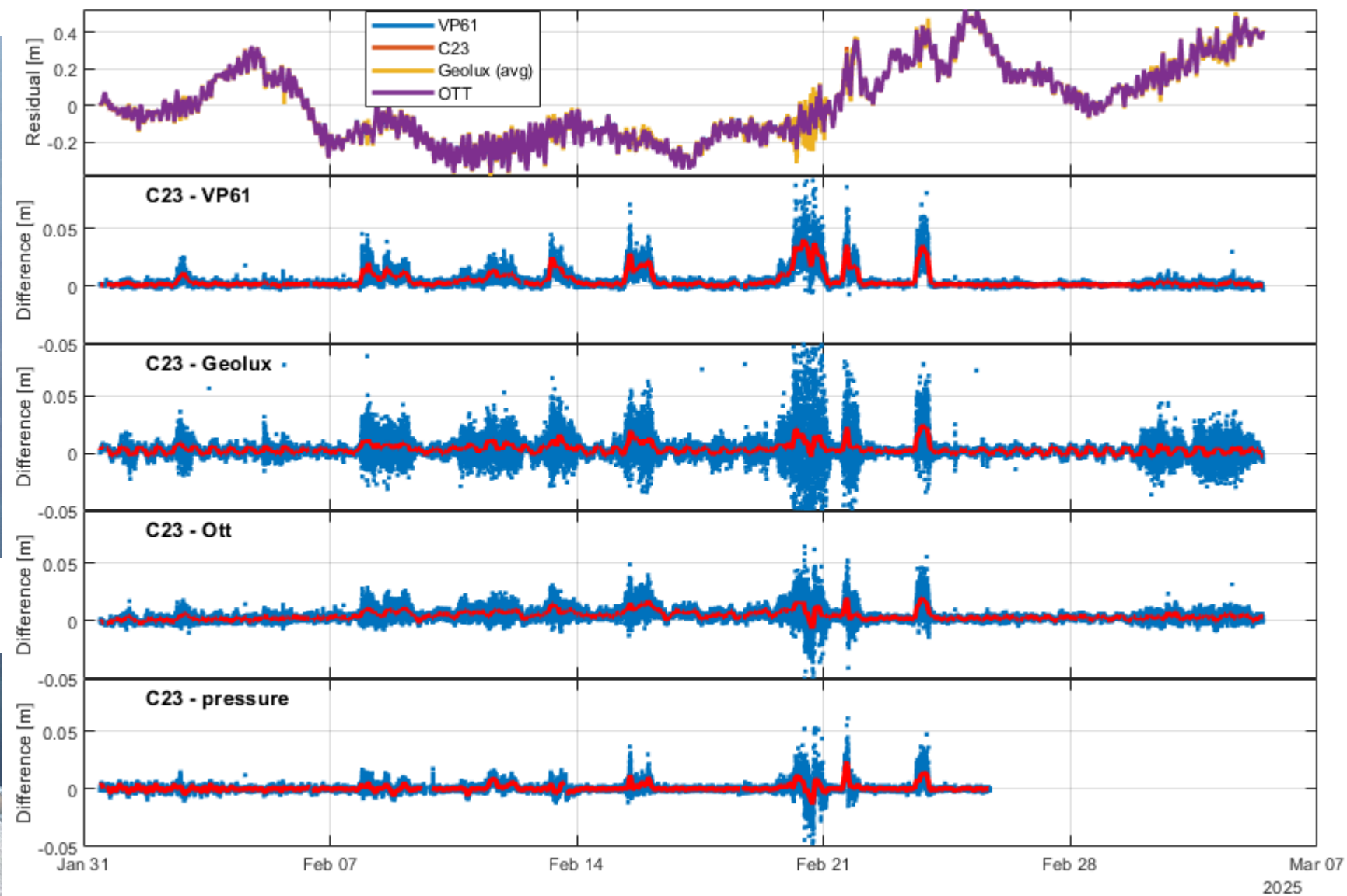
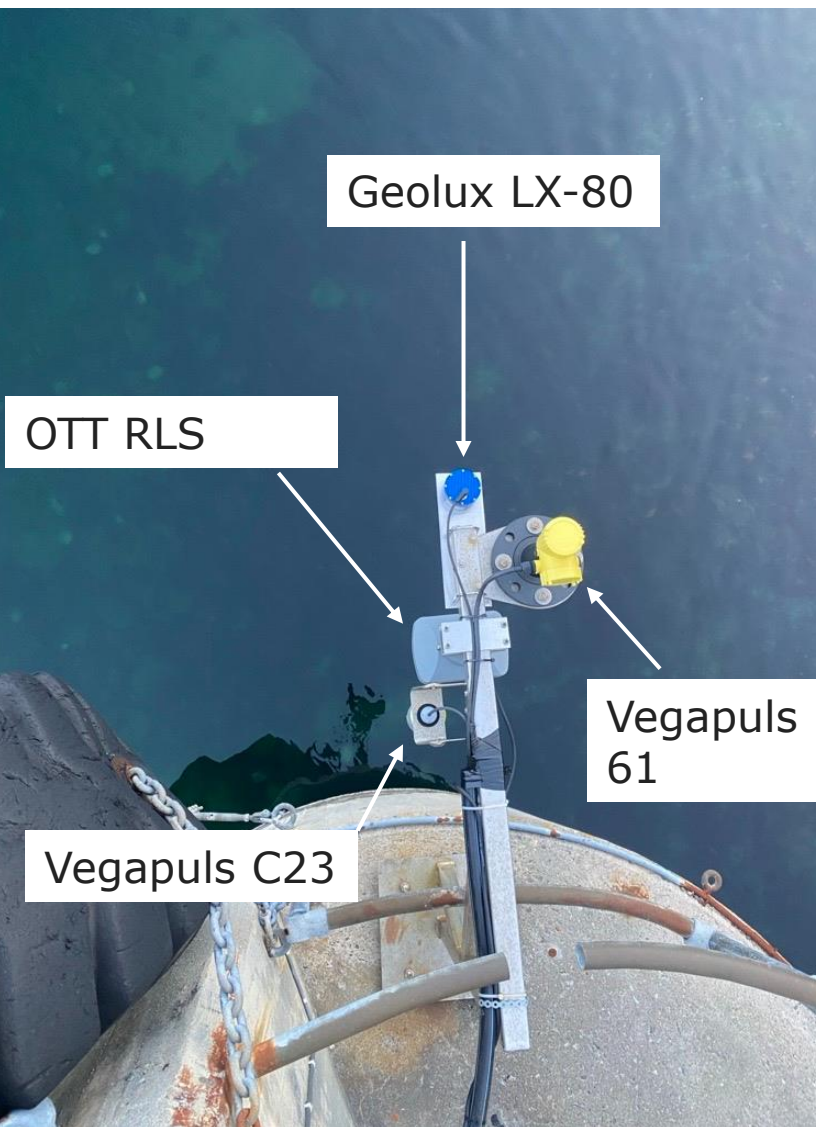
- Sandnes temporarily out of service
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4 new stations since 2022

- Solumstrand (2023)
- Leirvik (2022)
- Bruravik (2022)
- Træna (2023)

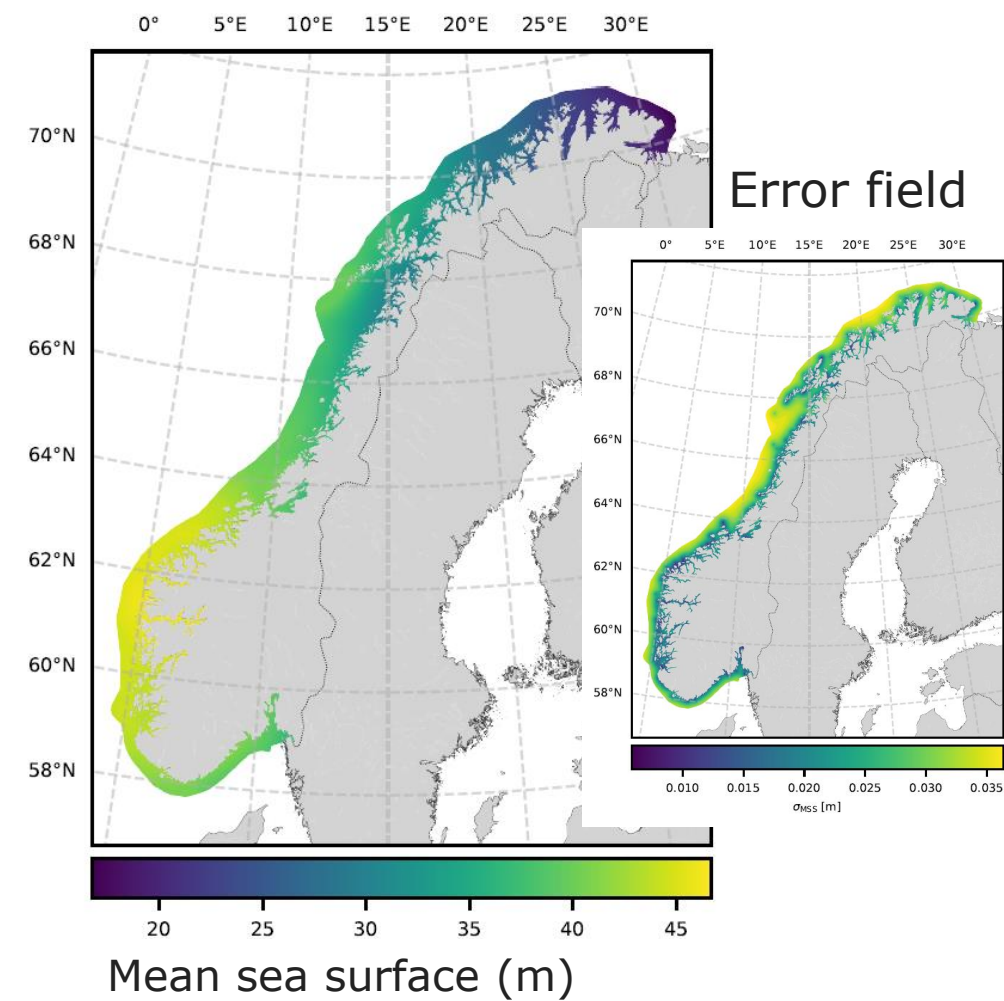


Radar testing

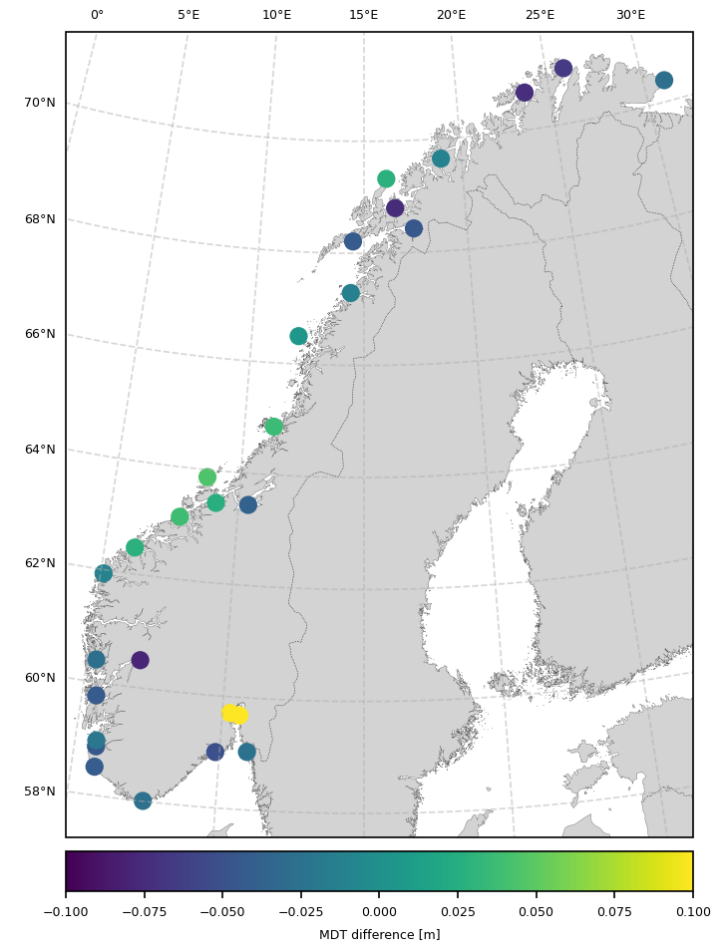


Vertical separation models and SWOT altimetry

The Norwegian separation models were updated in 2024 with more tide gauge measurements and refined computational methods

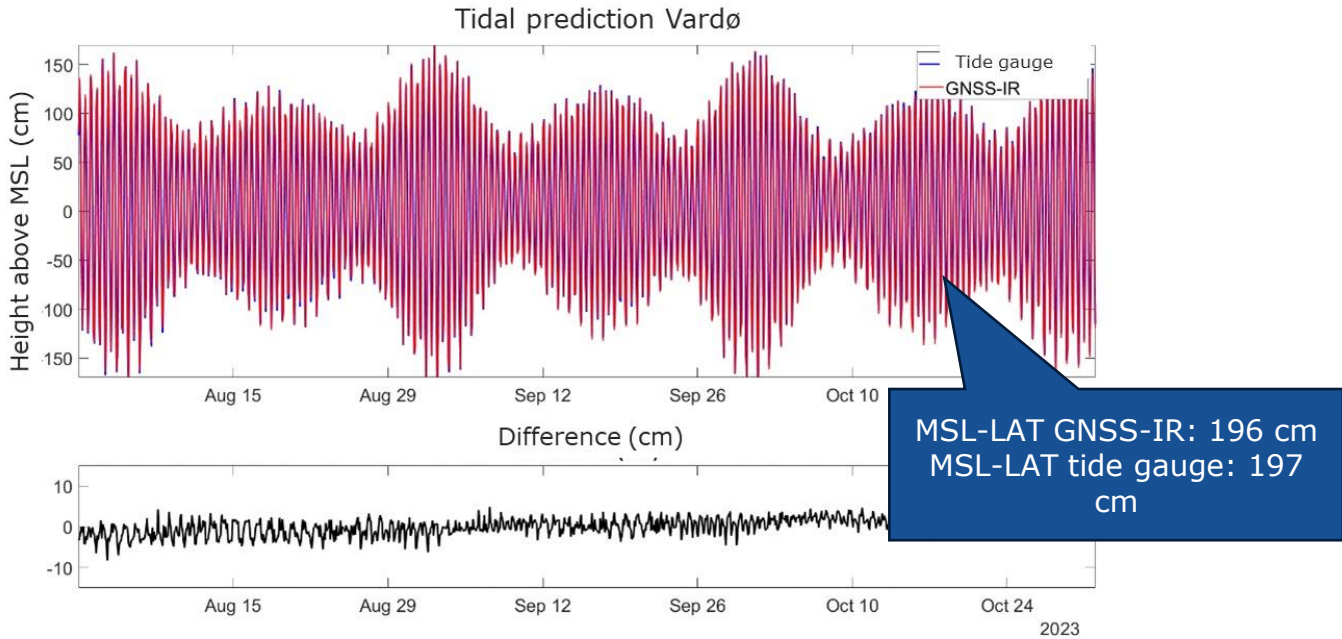
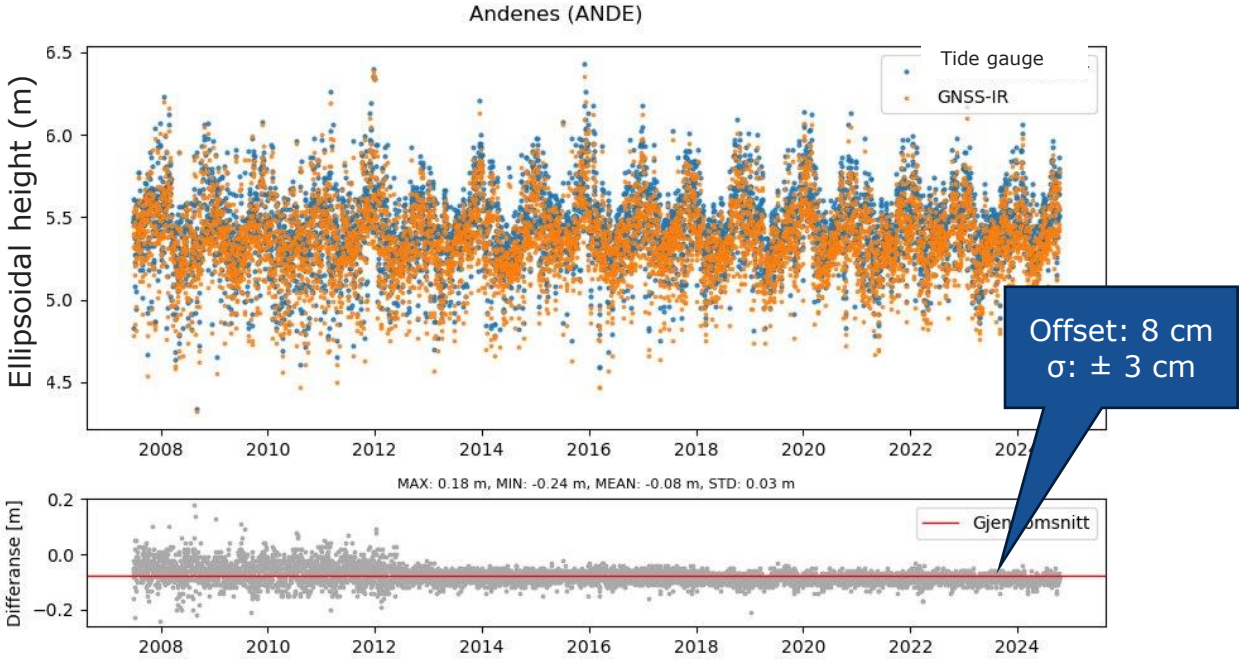
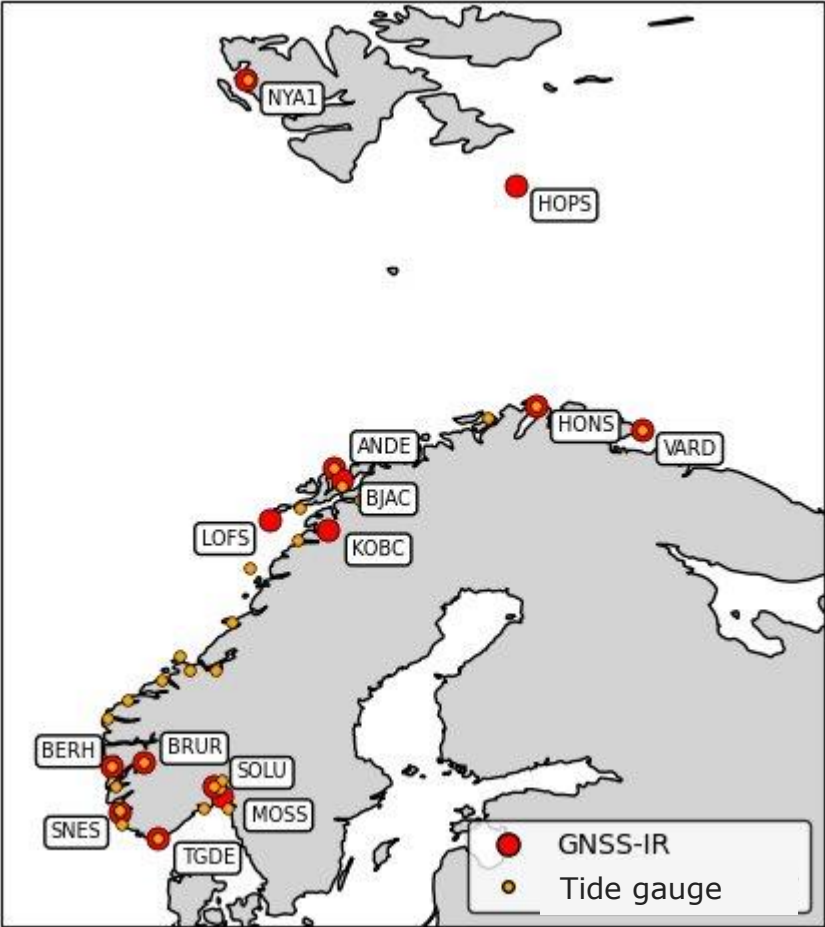


Promising agreement has been found between mean dynamic topography from SWOT altimetry and tide gauges along the Norwegian coast



Min [cm]	-7.9
Max [cm]	4.4
Mean [cm]	-2.2±0.7
Std. dev [cm]	3.6
Correlation	0.80

GNSS-IR



New report on sea level rise and extremes

NORSK KLIMASERVICESENTER

NCCS report 1/2024

Sea-Level Rise and Extremes in Norway:

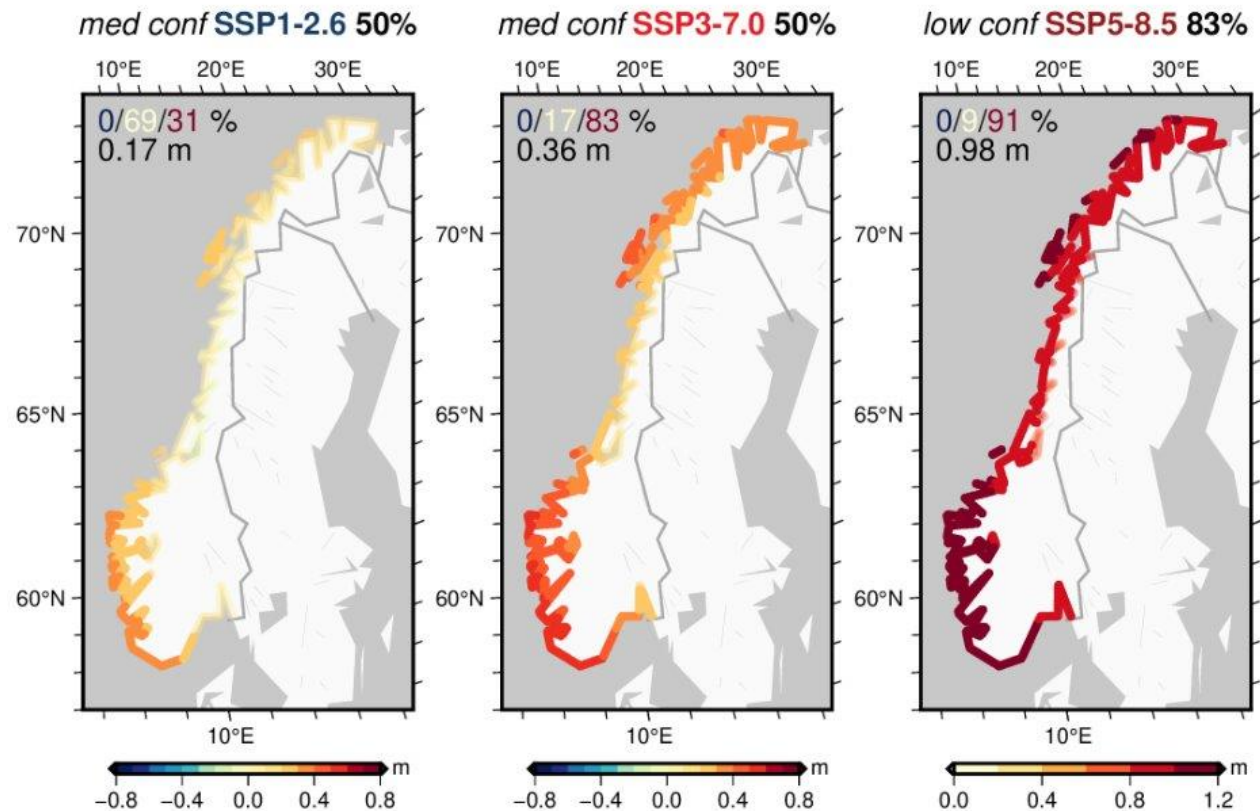
Observations and Projections Based on
IPCC AR6



M.J.R. Simpson, A. Bonaduce, H.S. Borck, K. Breili, Ø. Breivik,
O.R. Ravndal and K. Richter



Regional sea-level change at 2100



Report available: [Sea-Level Rise and Extremes in Norway - miljodirektoratet.no](https://miljodirektoratet.no)
Scenarios available from [Se havnivå](https://se.havniva.no)
Inundation maps available from [Se havnivå i kart](https://se.havniva.no)

Data archeology

Simple inventory

Application to the National Archives of Norway

Proper storing in NMAs headquarters

Scanning

Digitizing

Delivery of digital and physical media to National Archives

