



Sea Level Research Workshop

“Sea-Level Change: Earth System Feedbacks”

Bjerknes Center for Climate Research (BCCR), Bergen, Norway – 12th October 2020
Jahnebakken 5 - 4th floor

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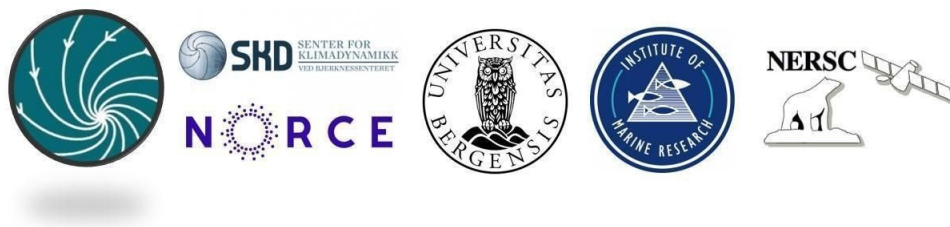
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Agenda

09:30 – 10:00	Coffee and Registration
10:00 – 10:10	Welcome and Introduction (A. Bonaduce, NERSC)
10:10 – 10:30	Overview/State of the Art/Questionnaire Outcomes (A. Bonaduce, NERSC)
10:30 – 11:00	Session1: Observation-based studies <ul style="list-style-type: none"> • <i>Sea-level history along the west coast of Norway</i> (John I. Svendsen ,UiB) • <i>Arctic Sea Level Budget Assessment during the GRACE/Argo Time Period</i> (Roshin Raj, NERSC) • <i>Re-assessing extreme sea level events through interplay of tides and storm surges</i> (Stephen Outten, NERSC)
11:00 – 11:15	Coffee break
11:15 – 11:45	Session 2: Model-based studies <ul style="list-style-type: none"> • <i>Ice sheet modelling at Bjerknes Center</i> (Petra Langebroek, NORCE)



- *Concurrency of sea level and wave height extremes in Norwegian coastal waters* (Ole Johan Aarnes, Norwegian Meteorological Institute)
- *Introducing the Norwegian Climate Prediction Model and Mare Nullius project* (Noel Keenlyside, UiB/NERSC; Vandhna Kumar, UiB)

11:45 – 12:15

Session 3: Synergy between observations and models

- *New tools to estimate the stability of the Greenland ice sheet* (Andreas Born, UiB)
- *Coastal Changes during 21st Century* (William Helland-Hansen, UiB)
- *Sea level in Arctic ocean reanalysis* (Jiping Xie, NERSC)

12:15 – 13:00

Lunch break

13:00 – 13:30

Session 4: Sea-level projections

- *The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6* (Heiko Goelzer, NORCE)
- *Current sea-level projections for Norway (NCCS report) and where to go from there* (Kristin Richter, NORCE)

13:30 – 14:00

Session 5: Innovative Methods (Keynote)

- *Overview of ML/AI methods in marine science* (Ketil Malde, IMR; Machine Learning group Departments of Informatics, UiB)

14:00 – 14:15

Coffee Break

14:15 – 15:45

Discussion and Tasks (A. N. Meckler, K. Nisancioglu, BCCR)

- **Priorities** to realize cross-disciplinary studies
- Identify **skills, expertise and knowledge gaps**
- Identify strategic **partnerships** (national and international)



- Deliver a **workshop report**
- Develop a **strategy and implementation** plan for short- and medium-term research activities
- The launch of the Bjerknes Centre **“Sea-Level Research Group”** (SLRG).

15:45 – 16:00

Final Remarks (J. A. Johannessen, NERSC)

List of Participants

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