



Program for the SuperIce workshop

04. November 2024 from 13:30-18:30 CET

Schedule	Speaker	Topic
13:30-13:40	Nicholas Longépé	Welcome and introduction to Φ -lab
13:40-13:45	Julien Brajard	Welcome and introduction to the workshop
13:45-14:05	Julien Brajard	Super-resolution of sea ice thickness using diffusion models
14:05-14:25	Yiguo Wang	Impact of super resolution SIT data for seasonal sea ice predictions
14:25-14:45	Richard Davy (online)	How do unresolved variations in sea ice thickness alter the surface energy balance in the Arctic in climate models?
14:45-15:00	15 min discussion on SuperIce project	
15:00-15:20	20 min break	
15:20-15:40	Alberto Carrassi	Using machine learning, data assimilation and their combination to improve a new generation of sea ice models
15:40-16:00	Tobias Finn	Generative diffusion surrogates for sea-ice modelling
16:00-16:20	Are Frode Kvanum	Regional Sea Ice predictions in northern Norway, Svalbard and the Barents Sea using Deep Learning
16:20-16:40	Daniela Flocco	A double speed road: melt pond modelling and observations
16:40-16:55	15 min discussion on sea ice dynamics	
16:55-17:15	20 min break	
17:15-17:35	Anton Korosov	Challenges with deriving sea ice roughness from SAR imagery using deep learning
17:35-17:55	Matilde Brandt Kreiner	Arctic sea Ice observations from satellite SAR and PMW data using deep learning
17:55-18:15	Johannes Lohse	Sea Ice Mapping from SAR: An overview of methods and approaches developed during 8 years of CIRFA
18:15-18:30	15 min discussion on sea ice observations	