

# Chinese-Norwegian Collaboration Projects within Climate Systems

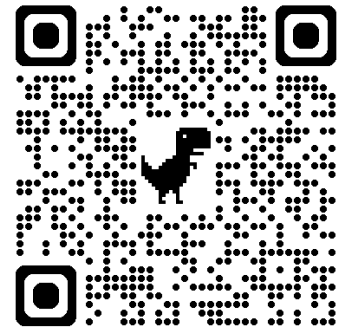
UiB Learning Arena, Ground floor. Nygårdsgaten 5

5-8<sup>th</sup> August 2024

Workshop has two parts:

- Plenary sessions, mornings 5-8<sup>th</sup>
- Afternoon sessions for individual project meetings

Workshop website:



Please check for updates!

Monday, 5 <sup>th</sup>	
8:30 – 9:00	Registration
9:00 – 10:30	<p>Welcoming addresses</p> <ul style="list-style-type: none"> <li>• Kikki Kleiven (Bjerknes Centre for Climate Research, UiB)</li> <li>• Jingji Liu (Chinese Embassy to Norway)</li> <li>• Magnus Løken Bain (Research Council of Norway)</li> <li>• Francois Counillon (NERSC)</li> <li>• Øyvind Paasche (NORCE)</li> </ul> <p>Short introduction to projects (5 mins each)</p> <ul style="list-style-type: none"> <li>• 4SICE (Yiguo Wang)</li> <li>• ARCLINK (Thomas Spengler)</li> <li>• COMBINED (Noel Keenlyside)</li> <li>• KeyPOCP (Andreas Klocker)</li> <li>• MAPARC (Shengping He)</li> </ul> <p><b>Chairs:</b> Thomas Spengler &amp; Shengping He</p>
10:30-11:00	<i>Coffee/tea break</i>
<b>Session #2</b> <i>Chairs: Yang Zhang, Francois Counillon</i>	
11:00-11:30	Quantifying the processes of accelerated Arctic warming and moistening <b>Prof. Xiu-Qun Yang</b> , NJU, COMBINED
11:30-12:00	HPC-AI Incorporation to Advance HR Earth System Modeling & Data Assimilation <b>Prof. Shaoqing Zhang</b> , OUC (KeyPOCP)
12:00-12:30	The intraseasonal stratosphere-troposphere oscillation and its indication for surface climate <b>Prof. Lin Wang</b> , IAP-CAS (ARCLINK)
12:30-13:30	<i>Lunch</i>
13:30-15:00	Meeting of individual project
15:00-15:30	<i>Coffee/tea break</i>
15:30-17:00	Meeting of individual project

Tuesday, 6 <sup>th</sup>	
Session #3, <b>Chairs:</b> Fei Li, Xuguang Sun	
9:00 – 9:30	The traditional Meiyu has been suspended by global warming <b>Academician Huijun Wang</b> , NUIST, (COMBINED)
9:30-10:00	Reports on the progress of MAPARC project <b>Prof. Ke Fan</b> , SYSU (MAPARC)
10:00-10:30	Dynamical processes linking Arctic and midlatitude climate variabilities <b>Prof. Yang Zhang</b> , NJU (ARCLINK)
10:30-11:00	<i>Coffee/tea break</i>
Session #4, <b>Chairs:</b> Qinghua Yang, Helene Langehaug	
11:00-11:30	The Norwegian Earth System Model and its application in KeyPOCP, <b>Dr. Mats Bentsen</b> , NORCE (KeyPOCP)
11:30-12:00	Recent developments of Norwegian Climate Prediction Model in seasonal sea ice forecasting <b>Dr. Yiguo Wang</b> , NERSC (4SICE)
12:00-12:30	Understanding global ocean overturning using the dynamics of horizontal convection <b>Dr. Andreas Klocker</b> , NORCE (KeyPOCP)
12:30-13:30	<i>Lunch</i>
13:30-15:00	Meeting of individual project
15:00-15:30	<i>Coffee/tea break</i>
15:30-17:00	Meeting of individual project
Wednesday, 7 <sup>th</sup>	
Session #5, <b>Chairs:</b> Andreas Klocker, Ke Fan	
9:00 – 9:30	Long-term developments in dense-water formation in the Nordic Seas <b>Prof. Kjetil Våge</b> , UiB (ARCLINK)
9:30-10:00	Relative impacts of Arctic sea ice and atmospheric internal variability on the winter temperature <b>Dr. Shengping He</b> , UiB (MAPARC)
10:00-10:30	Research progress in Arctic sea ice prediction <b>Prof. Baoqiang Tian</b> , IAP-CAS (MAPARC)
10:30-11:00	<i>Coffee/tea break</i>
Session #6, <b>Chairs:</b> Yiguo Wang, Lin Wang	
11:00-11:30	The impact of climate change on extreme weather events based on a high-resolution Earth system model <b>Prof. Yang Gao</b> , OUC (KeyPOCP)
11:30-12:00	An ensemble-based Data Assimilation System for the Southern Ocean (DASSO): Assimilating Sea Ice <b>Assoc. Prof. Hao Luo</b> , SYSU (4SICE)
12:00-12:30	Multisensor data fusion of sea ice observations <b>Dr. Keguang Wang</b> , MET (4SICE)
12:30-13:30	<i>Lunch</i>
13:30-15:00	Meeting of individual project
15:00-15:30	<i>Coffee/tea break</i>
15:30-17:00	Meeting of individual project
<b>Workshop dinner/boat trip</b>	

**Thursday, 8<sup>th</sup>****Session #7, Chairs:** Xuguang Sun, Ke Fan

9:00 – 9:30	Impact of model resolution and sea ice distribution on modelled air-sea interactions <b>Prof. Thomas Spengler</b> , UiB (ARCLINK)
9:30-10:00	Marine heatwaves in the Barents Sea - Can we predict them <b>Dr. Helene R. Langehaug</b> , NERSC (MAPARC)
10:00-10:30	The Emerging Arctic Shipping Corridors <b>Prof. Qinghua Yang</b> , SYSU (4SICE)
10:30-11:00	<i>Coffee/tea break</i>

**Session #8, Chairs:** Lea Svendsen, Yang Zhang

11:00-11:30	Key forcing factors on summer climate variability in eastern China and the significance of the delayed effects of the Indian Ocean Dipole <b>Assoc. Prof. Yue Zhang</b> , FU (COMBINED)
11:30-12:00	Tropical Basin Interactions on seasonal to decadal timescale <b>Prof. Noel Keenlyside</b> , UiB (COMBINED)
12:00-12:30	<b>Workshop wrap-up</b>
12:30-13:30	<i>Lunch</i>
13:30-15:00	Meeting of individual project
15:00-15:30	<i>Coffee/tea break</i>
15:30-17:00	Meeting of individual project