

# Climate Dynamics Panel

Ambition: to advance our basic understanding of atmosphere–ocean climate dynamics using observations and models and to determine the role of climate dynamics in shaping climate variability and change

Current activities structured into three themes

- the organisation of storms, blocks and jet streams on seasonal and longer time scales
- ocean basin to ocean basin and tropical–extratropical teleconnections
- the development of predictive theories of climate dynamics



<https://www.clivar.org/clivar-panels/climate-dynamics>



# Six online panel meetings in 2020

- Presentations from new members
- Discuss panel business and organisation

e.g, June Meeting, we enjoyed  
presentation from Ramiro

*Climate variability and predictability  
of the Southern Hemisphere*



# Panel achievements in 2020

- **Co-organised 10 virtual conference sessions and workshops**
  - Ocean Sciences Meeting 2020 (3 sessions, incl. 1 with RF Tropical Basin Interactions)
  - EGU 2020 (1 session with Atlantic Region Panel)
  - JpGU 2020 (2 sessions, 1 with Atlantic Region Panel)
  - AGU Fall Meeting 2020 (4 sessions, incl. 1 with RF Tropical Basin Interactions)
- **Kang organized/Burls presented at the Cloud Feedback Model Intercomparison Project (CFMIP) 2020 Virtual meeting**
- **Keenlyside organized TRIATLAS/Tropical Atlantic Variability/PIRATA virtual meeting**
- **Minobe attended the final meeting of PRIMAVERA, EU HighResMIP project**
- **Keenlyside co-organized the Nansen Tutu TRIATLAS Summer School on Ocean Climate, and Marine Ecosystems, Cape Town, South Africa, 14-21, Jan., 2020**

Main planned activities in 2021

A background collage of numerous small video thumbnails from a virtual meeting, showing various participants in different settings.

# Tropical Basin Interaction workshop, Virtual, February 24<sup>th</sup>-26<sup>th</sup>

Purpose: to make a community synthesis of tropical basin interaction research and identify pathways to address key challenges

Format: 3 days, 3 different time slots, 8 invited plenary talks, 53 posters, 16 breakout discussions, 4 plenary discussions

Strong attendance: ~ 200 registrants, 100+ plenaries, 50+ discussions

Output: Recorded talks and poster gallery, CLIVAR Exchanges special issue

**See RF TBI presentation by Ingo Richter tomorrow (Wednesday, 10<sup>th</sup> March)**

# International workshop for mid-latitude air-sea interaction

Advancing Predictive Understanding of Regional Climate Variability and Change across Timescales



**Date:** June 8-9 (online) & June 12-14 (online + in-face)  
**Place (in-face):** Sapporo, Japan  
**Science organizing committee:** Shoshiro Minobe, Masami Nonaka, Satoshi Iizuka, Noel Keenlyside, Hyodae Seo, and Shang-ping Xie

- Sponsored by the Japanese HotSpot2 Project, endorsed by the CLIVAR
- 30+ invited speakers, 129 abstracts (14 different countries, 54 ECR/students)
- Five sessions covering daily to centennial timescales, including extremes and teleconnections
- Travel restrictions mean that Climate Dynamics Panel meeting will not be held as a side event

<https://www.eventbrite.com/e/international-workshop-for-mid-latitude-air-sea-interaction-tickets-135451375711>

# CLIVAR workshop on towards providing more reliable regional climate change projections

- Aims: (1) To identify pathways forward for constraining regional projections of climate change, focusing on reducible uncertainties that are related to model error. (2) To help move the community from its thermodynamic view of climate change to a climate dynamics one
- Date/Location: June 21<sup>st</sup> – July 16<sup>th</sup> / Completely online
- Scientific Organising Committee: Noel Keenlyside, Shang-Ping Xie, Simona Bordoni, Mat Collins, Sarah Kang, John Fyfe, Cathy Hohenegger
- Format:
  - 30 invited participants, including early career researchers and from all over the world
  - Week 1, live presentations, recorded presentations on section of the paper, daily discussion of 2–3 hrs
  - Week 2&3, Writing tasks
  - Week 4, Collaborative writing sessions
- Outcomes: A perspective paper, prospective journals being approached
- Status: About to invite participants

# Workshop on North Atlantic – Arctic Sector predictability

## Planning stages

- Second half of September, hybrid event, with the in person meeting at Copenhagen or Bergen
- SOC: Daniela Matei, Shuting Yang, Juliette Mignot, Gerard McCarthy, Panos Athanasiadis, Fei Li, Francois Counillon, Juan Torre
- Sessions: Mechanisms, Modelling, Applications, Extremes, Advanced techniques
- Sponsored by EU Blue-Action project, JPI ROADMAP, TMS Bjerknes Climate Prediction Unit

Second such  
workshop was  
held in Bergen in  
2019

