

# Working Group on Subseasonal to Interdecadal Prediction

Welcome and introduction

WGSIP 25/WGNE 39

4-8 November 2024

Toulouse, France



**ESMO**  
Earth System Modelling  
and Observations

**WCRP**  
World Climate  
Research Programme

# A brief history of WGSIP

- ~1995: Originated as *CLIVAR Numerical Experimentation Group-1* co-chaired by Neville Smith and Mark Cane
- ~1999: Becomes *CLIVAR Working Group on Seasonal-to-Interannual Prediction*
- 2005: WCRP Task Force on Seasonal Prediction formed, mandate transferred to WGSIP in 2007
- 2007: WCRP Workshop on Seasonal Prediction, Barcelona
- 2007: CHFP proposed
- 2012: CLIVAR → WCRP governance of WGSIP
- 2013: International workshop on seasonal to decadal prediction, Toulouse
- 2016: School on Climate System Prediction and Regional Climate Information, Dakar
- 2017: Becomes *Working Group on Subseasonal to Interdecadal Prediction*
- 2018: International Conferences on Subseasonal to Decadal Prediction, Boulder
- 2019: International Young Scientists School on Subseasonal to Decadal Prediction, Moscow
- 2021 WCRP Workshop on Extremes in Climate Prediction Ensembles, Busan and online
- ~2023 WGSIP becomes component of new ESMO Core Project

# Past meetings

Session	Dates	Location
NEG-1 1st	26-29 February 1996	Montego Bay, Jamaica
NEG-1 2nd	12-15 May 1997	Hamburg, Germany
NEG-1 3rd	9-12 November 1998	Palisades, USA
WGSIP 4	9-12 November 1999	Bologna, Italy
WGSIP 5	1-3 November 2000	Buenos Aires, Argentina
WGSIP 6	5-7 November 2001	Budapest, Hungary
WGSIP 7	19-22 November 2002	Cape Town, South Africa
WGSIP 8	5-7 November 2003	Honolulu, USA
WGSIP 9	14-16 October 2004	Exeter, UK
WGSIP 10	13-16 February 2006	Wellington, New Zealand
WGSIP 11	7-8 June 2007	Barcelona, Spain
WGSIP 12	12-14 January 2009	Miami, USA
WGSIP 13	29-31 July 2010	Buenos Aires, Argentina
WGSIP 14	12-14 September 2011	Trieste, Italy
WGSIP 15	24-26 September 2012	Hamburg, Germany
WGSIP 16	10-12 March 2014	Exeter, UK
WGSIP 17	13-14 September 2015	Norrköping, Sweden
WGSIP 18	23-25 November 2016	Dakar, Senegal
WGSIP 19	9-12 October 2017	Exeter, UK
WGSIP 20	21 September 2018	Boulder, USA
WGSIP 21	29-31 May 2019	Moscow, Russia
WGSIP 22	28-30 October 2020	Online
WGSIP 23	16-17 November 2021	Online
WGSIP 24	27-29 March 2023	Reading, UK

# WGSIP members



**June-Yi Lee**  
*co-Chair*  
PNU  
Korea



**Constantin  
Ardilouze\***  
CNRM  
France



**Leon  
Hermanson**  
Met Office  
UK



**François  
Massonnet**  
UCL  
Belgium



**Hongli Ren**  
CMA  
China



**Ángel Muñoz**  
*co-Chair*  
BSC  
Spain



**Johanna  
Baehr**  
U Hamburg  
Germany



**Debbie  
Hudson**  
BoM  
Australia



**Andrea  
Molod\***  
NASA  
USA



**Yuhei Takaya**  
MRI  
Japan



**Bill Merryfield**  
*co-Chair emeritus*  
ECCC  
Canada



**Masilin  
Gudoshava\***  
ICPAC  
Kenya



**Stephanie  
Johnson**  
ECMWF



**Marisol  
Osman\***  
CIMA/UBA  
USA



**Jin Ho Yoo\***  
APCC  
Korea

**\*Welcome!**

# Invited experts

Dragana Bojovic

Anca Brookshaw

Caio Coelho

Jon Robson\*

Scott Osprey\*

Veronica Torralba

Oliver Watt-Meyer  
(USA)

Priyanka Yadav\*

BSC (Spain)

ECMWF/C3S

CPTEC (Brazil)

U Reading (UK)

U Oxford (UK)

BSC (Spain)

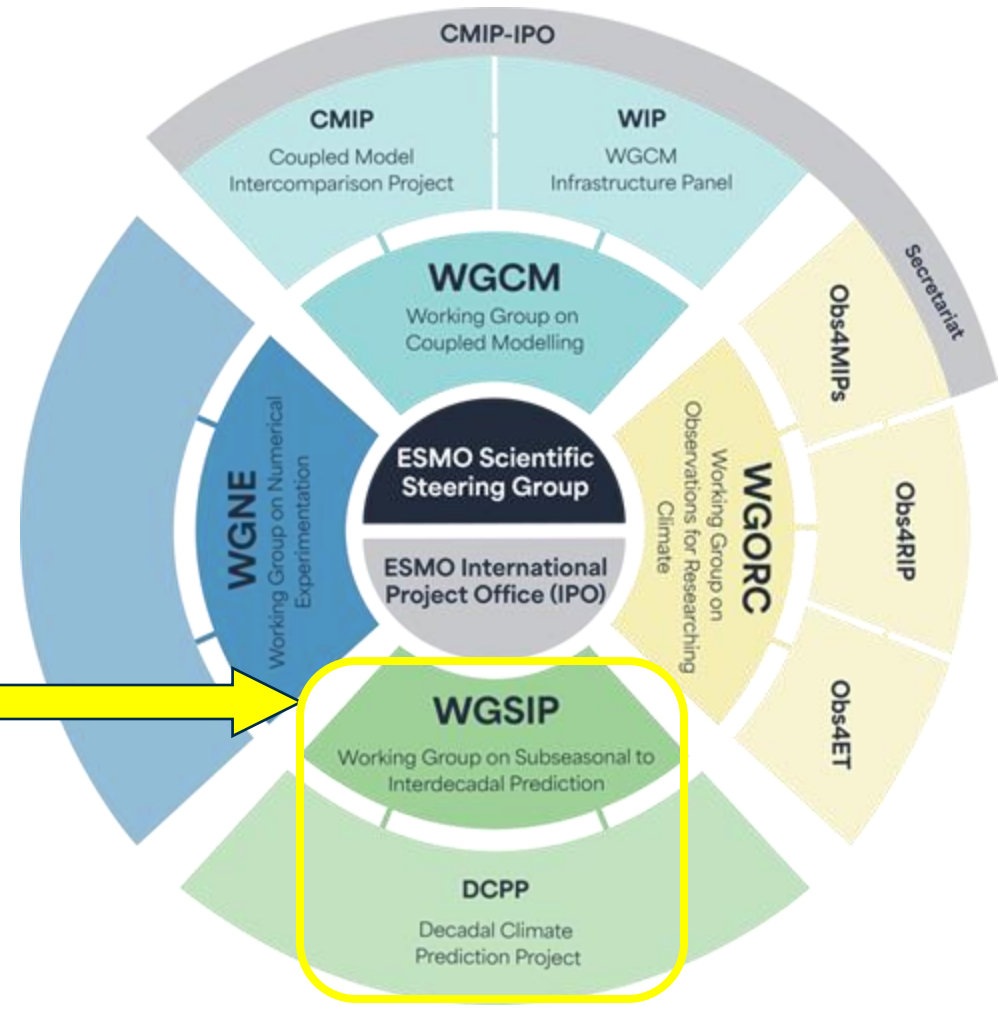
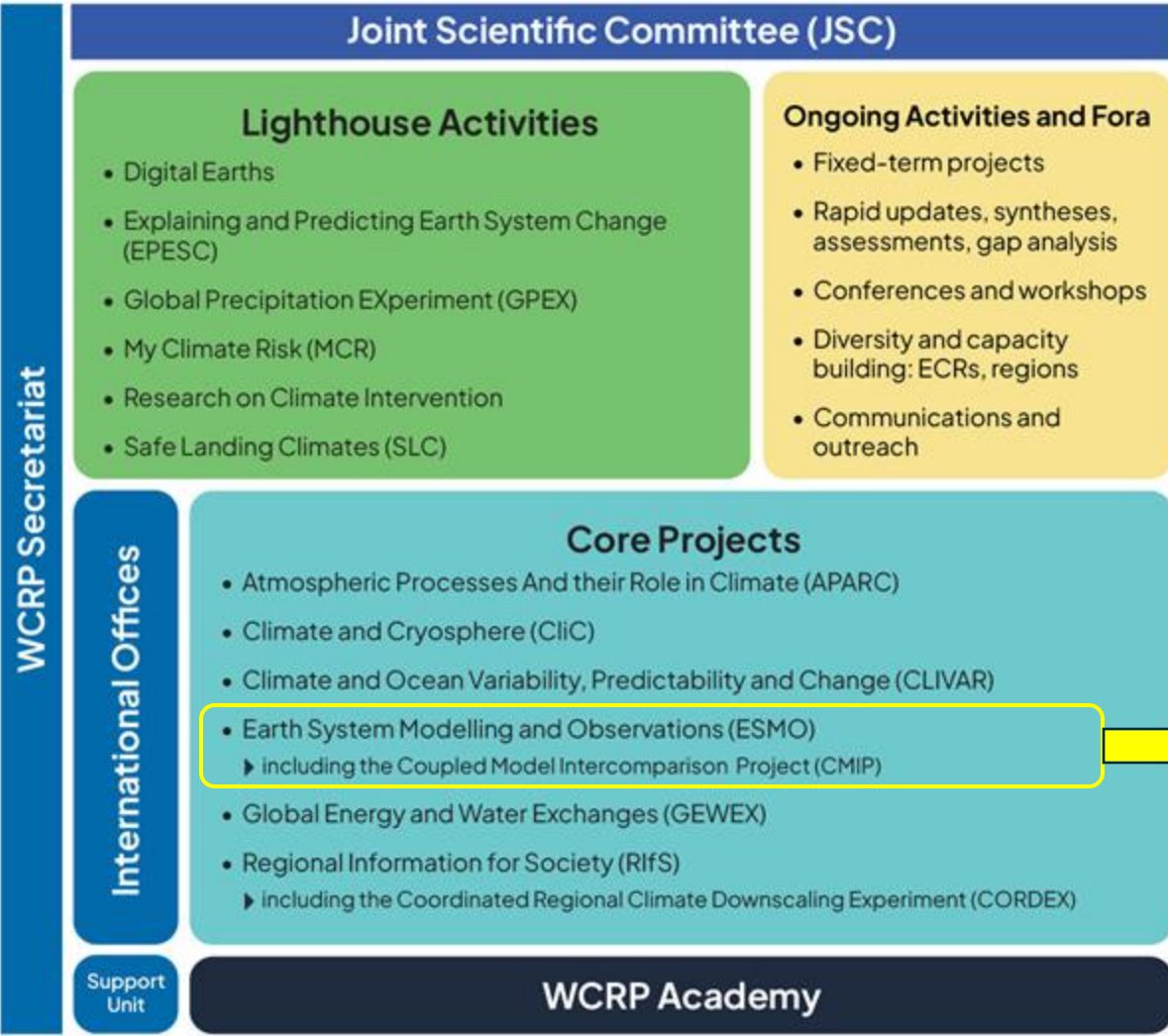
Allen Institute for Artificial Intelligence

NASA/U Maryland (USA)

\*Remote participants

# WGSIP's place in WCRP

## WCRP Organizational Structure



# WGSIP's role

- Scope of climate prediction has expanded tremendously in recent years
  - Range of time scales (subseasonal to decadal)
  - Modelling capabilities and scientific understanding
  - Global services through WMO, etc.
- Nonetheless there remain many major challenges to be addressed:
  - Scientific understanding of sources or predictability, capturing in models
  - Improving/refining existing approaches → serving stakeholders
  - Harnessing the AI/ML revolution
  - ...
- As part of WCRP's mission to coordinate international climate research, *WGSIP aims to be the “glue” that facilitates collaboration and information exchange across the global climate prediction community to advance subseasonal to decadal climate prediction science and services*

# WGSIP 25 objectives

- Report on & assess recent progress and developments in the climate prediction community
- Facilitate awareness of climate prediction-related activities elsewhere in WCRP to explore opportunities for coordination & collaboration
- Report progress on and take stock of ongoing WGSIP activities addressing research gaps & operational needs
- **Identify and formulate 2-4 new focus areas for WGSIP activities during 2024-2029** to address research & services needs/gaps
- Advance the planning of
  - Capacity building event in late 2025
  - Major climate prediction conference on 2026
  - ESMO S2S Panel