

44th Session of the WCRP Joint Scientific Committee (JSC-44) Online Outline Agenda

DRAFT: 5 May 2023

May 8 – 11: Hybrid Plenary Session
May 12: JSC only Session

Background

- The 44th session of WCRP's Joint Scientific Committee (JSC-44) will assess progress made towards WCRP's goals and plans for the future of the Programme. It will in particular focus on advancing the scientific program as it will be documented in the Science and Implementation Plan.
- The sessions will be in person but will have a hybrid element in the general plenary session (a zoom link will be made available). Breakout sessions will be in person only.
- The session will take place in the **Belgian Climate Centre** in Brussels (at the Royal Meteorological Institute, in Uccle: Ringlaan 3, 1180 Uccle)
- Logistical instructions will be made available through the JSC-44 website at <https://www.wcrp-climate.org/jsc44>.
- Presentations and/or reports will be made available in advance of the meeting. Due to the limited meeting time, we ask all participants to read through these documents in advance. See <https://www.wcrp-climate.org/jsc44-about>.
- During the meeting, questions from virtual participants can be submitted via the Chat Box. The WCRP Secretariat will moderate the chat and notify the chair as applicable.
- Attendance at this JSC session is by invitation only. Should you wish to attend, please contact Mike Sparrow (msparrow@wmo.int).

All times in the below agenda are quoted in Central European Summer Time (Geneva/Brussels).

Please see <https://www.timeanddate.com/worldclock/meeting.html> for the respective times in your area.

Day 1 (8th of May): 9:00-18:00, CEST

Rapporteurs: N Van der Wel in the morning; H Palanisamy in the afternoon

Chairs D Stammer and P Braconnot

1. JSC Opening Session 09:00-10:30 [90 mins]

- Opening and Goal of JSC-44 from JSC Chair and Vice-Chair [15 mins] (*D. Stammer, P. Braconnot*)
- Welcome and comments from Co-sponsors [up to 15 mins each] *P. Taalas (WMO), S. Orico (ISC), K. Isensee on behalf of V. Ryabinin (IOC)*
- Welcome from Directors of Belgian Climate Centre [10 mins], *V. Trouet and E. Jamsin*
- *Statement from Brussels: European Commission (P Tulkens) and JPI-Climate (P Manderscheid) [10 min.]*
- Welcome on behalf of WCRP Secretariat and guidelines for participants and logistics of JSC-44 [5 mins] (*M. Sparrow*)
- Approval of Agenda [5 mins] (*D. Stammer, P. Braconnot*)

The WCRP Chair, Detlef Stammer, and Vice-Chair, Pascale Braconnot, will welcome attendees (in-person and online) to the 44th Joint Scientific Committee meeting of the World Climate Research Programme (WCRP). Representatives from each of WCRP's co-sponsors, WMO, ISC, and IOC-UNESCO will give short presentations of up to 15 minutes each. This will be followed by welcomes from the Directors of the Belgian Climate Centres and short statements from the European Commission and JPI-Climate. The Head of the WCRP Secretariat, Mike Sparrow, will then outline the guidelines for in-person and online attendees and highlight any logistical issues. Finally, the WCRP Chair and Vice Chair will open the agenda for approval.

2. Strategic initiatives and Issues: Update and Discussion Part 1 10:30-13:00

2.1 News, and emerging issues [30 mins] (*D Stammer and P Braconnot*)

The Chair and Vice-Chair will take the opportunity to give some WCRP highlights and discuss emerging issues.

Coffee/Tea Break at 11:00– 11:30 [30 mins]

2.2 Reports from WCRP Task Teams [30min each; 90min total] [3 x 30 mins; 15 mins presentation and 15 mins discussion]

- Global Precipitation Experiment (GPEX) (*X Zeng*)
- Cycles and Budgets (*J Polcher*)
- Climate Intervention (pre-recorded) (*J Hurrell*)

Xubin Zeng, Jan Polcher, and Jim Hurrell will report on progress made by three WCRP Task Teams on the Global Precipitation Experiment, Cycles and Budgets, and Climate Intervention. Each presentation will be for 15 minutes allowing 15 minutes of discussion.

Lunch at 13:00-14:00 (lunch to be brought into institute)

Strategic initiatives and Issues: Update and Discussion Part 2 14:00-15:30 [90 mins]

2.3 Future of Climate Modelling [20 mins in total, presentation + discussion] (C. Senior, P. Forster, V Naik, C. Hohenegger)

A summary of recent and anticipated outcomes of a number of modelling related brainstorming activities will be given, including progress since the “Future of Climate Modelling” and the 1K workshops. An outlook to the Berlin Summit will be included.

2.4 Future of CMIP: CMIP 7 [20 mins in total] (H Hewitt)

Helene Hewitt, CMIP Chair, will give a presentation updating attendees on future plans for the Coupled Model Intercomparison project (CMIP7).

2.5 Future plans of CORDEX [20 mins in total] (S Solman; D. Jacob)

Silvina Solman will present on the future plans of the Coordinated Regional Downscaling Experiment (CORDEX).

2.6 General Discussion on WCRP Modelling activities [30 mins]

Coffee/Tea Break at 15:30 - 16h00 [30 mins]

3 Presentations and Discussion of WCRP core activities; Part 1: Core Projects 16:00-18:00

3.1 Earth System Modelling and Observations (ESMO) Core Project [45 min.] (S Tegmeier and C Senior)

Susann Tegmeier will update attendees on progress with the Earth System Modelling and Observations Core Project

3.2 Regional Information for Society (RIfS) (including Global Extremes Platform) [45 min.] (B. Hewitson, S Solman, and S Pryor)

Bruce Hewitson, Sara Pryor, and Silvina Solman will provide an update on the Regional Information for Society Core Project.

3.3 Discussion [30 min.]

As time allows the floor will be opened for discussion.

18:00 Icebreaker

End of Day 1

Day 2 (9th of May): 9:00-18:00, CEST

Rapporteurs: N Caltabiano in the morning; H Palanisamy in the afternoon

Chairs: D Stammer and P Braconnot

3 Presentations and Discussion of WCRP core activities; Part 2: Core Projects 09:00-13:00

3.4 Climate and Cryosphere (CliC) [45 mins.] (A. Lovecraft and E. Hanna)

Amy Lovecraft will present progress with the Climate and Cryosphere Core Project.

3.5 Climate and Ocean Variability, Predictability and Change (CLIVAR) [45 min.] (S. Legg and F. Engelbrecht)

Sonya Legg and Francois Engelbrecht will present an update on the Climate and Ocean Variability, Predictability and Change Core Project.

Coffee/Tea Break 10:30 – 11:00

3.6 Global Energy and Water Exchanges (GEWEX) [45 min.] (J Polcher and X Zeng)

Jan Polcher and Xubin Zeng will update attendees on the Global Energy and Water Exchanges Core Project.

3.7 Interactions with WMO Hydro and Cryo activities [15+5] (S Uhlenbrook)

Stefan Uhlenbrook, WMO Director of Hydrology and Cryosphere, will give a brief presentation on potential interactions between WCRP and WMO cryo and hydro activities.

3.8 Stratosphere-troposphere Processes and their Role in Climate (SPARC) Core Project [45 min.] (A. Maycock, K. Rosenlof, and Seok-Woo Son)

Amanda Maycock and Karen Rosenlof will provide an update on the Stratosphere-troposphere Processes and their Role in Climate, including a potential name change to be approved by the JSC.

3.9 Discussion 10 min (or as time allows)

Lunch 13:00 – 14:00

3 Presentations and Discussion of WCRP core activities; Part 3: Lighthouse Activities

3.10 Explaining and Predicting Earth System Change [30 min.] (K Findell and R Sutton)

Rowan Sutton will update attendees on progress with the Explaining and Predicting Earth System Change Lighthouse Activity.

3.11 Safe Landing Climates Lighthouse Activity [30 min.] (G. Hegerl and S. Sherwood)

Gabi Hegerl will update attendees on progress with the Safe Landing Climates Lighthouse activity

3.12 My Climate Risk Lighthouse Activity [30 min.] (R Rodrigues and T Shepherd)

Ted Shepherd will update attendees on progress with the My Climate Risk Lighthouse Activity.

3.13 Digital Earths Lighthouse Activity [30 min.] (A. Gettelman and C. Jakob)

Andrew Gettelman will update attendees on progress with the Digital Earths Lighthouse Activity.

Coffee/Tea Break 16:00 – 16:30

4 Partner Interaction (Part 1)

4.1 Engagement between WCRP and IPCC [60 mins] (D Stammer, P. Braconnot, IPCC WG1 - 3 co-chairs)

Discussion on the topic of engagement between WCRP and IPCC WGs 1 - 3.

4.2 Engagement with Global Framework for Climate Services (GFCS) [30 min] (C Hewitt)

Chris Hewitt will present on WMO's Global Framework on Climate Services and how WCRP can best be engaged.

18:00 End of Day 2

Working Dinners

Day 3 (10th of May): 9:00-18:00, CEST

Rapporteurs N Van der Wel in the morning; N Caltabiano in the afternoon

Chairs D Stammer, P Braconnot and H Cleugh

5 9:00-13:00 Connections between Core Projects and Lighthouse Activities

This session is devoted to a discussion between core-projects and LHAs to identify joint activities and synergies, initiate further collaborations and to provide the ground for a revision of the respective text in the Science and Implementation plan. The session will have several elements switching between plenary and breakout sessions. *Note that those online can join the breakout session being held in the plenary room only.*

5.1 Introduction: Plenary [30min.] (*D Stammer, P Braconnot*)
Detlef Stammer and Pascale Braconnot will introduce the breakout sessions.

5.2 1st Breakout Sessions between CPs and LHAs (each 90 mins including travel time to rooms)

11:00 – 11:30 Coffee Break

5.3 2nd Breakout Sessions between CPs and LHAs

13:00 – 14:00 Lunch

5.4 Plenary: Reporting from Breakout Sessions. [60 min.]

The breakout group leaders will report back to plenary.

5.5 WCRP Academy Lighthouse Activity [60 min.] (*C. Lennard ++*)

Chris Lennard will lead a longer discussion focussed on the Academy Lighthouse. This will take into account feedback provided by the other Lighthouse activities and Core Projects as well as outcomes of the breakout sessions in order to explore how the Academy can best function across WCRP and with partners.

16:00 – 16:30 Coffee Break

6 WCRP Science and Implementation Plan [60 mins]

(D Stammer, P Braconnot, and H Cleugh)

- Plans and timeline with regards to finishing the WCRP Science and Implementation Plan
- Engagement of WCRP activities and partners
- The way forward, including timeline

Detlef Stammer, Pascale Braconnot and the outgoing Vice Chair, Helen Cleugh, will lead a discussion session on the WCRP Science and Implementation Plan.

7. **WCRP's future Carbon Footprint** [15 mins plus 15 mins discussion] *Pierre Friedlingstein will briefly present progress with WCRP plans to monitor its Carbon footprint.*

18:00 End of Day 3

Working Dinners

Day 4 (11th of May): 9:00 - 16:00 CEST

Rapporteurs: H Palanisamy in the morning; N Van der Wel in the afternoon

Chairs D Stammer and P Braconnot

8 WCRP Open Science Conference [45 mins]

(D Stammer, H Cleugh, V Detemmerman, N Caltabiano)

<https://www.wcrp-climate.org/wcrp-osc23>

Including:

- Updates and discussion on programme, plenaries and sessions
- Comms, branding and marketing
- North-South Engagement and involvement of Early Career Scientists
- Fund raising and finances

Detlef Stammer will lead a discussion on the upcoming WCRP Open Science Conference (<https://wcrp-osc2023.org/>).

9 WCRP Branding [25 mins]

Detlef Stammer and Narelle Van der Wel will inform attendees about thoughts on a new branding of WCRP.

10 Partner Interactions Part 2

Brief updates from partners including:

10.1 GCOS/WCRP collaborations [15+5 min] (A Rhea)

Anthony Rea, Director of WMO Infrastructure (including GCOS) will give a brief presentation on GCO/WCRP collaborations.

Coffee/Tea Break 10:30 – 11:00

10.2 World Weather Research Programme [15+5] (C Davis, E De Coning)

Estelle De Coning will give a presentation on the WMO World Weather Research Programme (WWRP) and interaction with WCRP.

10.3 Global Atmosphere Watch [15+5] (S Basart)

Sara Basart will present on the WMO Global Atmosphere Watch and interactions with WCRP.

10.4 Future Earth, including 10NICS and other potential partnerships with WCRP (S Hebden) [30 + 10]

Sophie Hebden will present on Future Earth, the 10 New Insights in Climate Science, and other potential linkages with WCRP.

10.5 Short interventions from other partners [40 mins]

Opportunity for WCRP's partners to give a short intervention (max 10 mins) focussed on their interactions with WCRP.

Prior to lunch (pre-requests in alphabetical order): APN, Copernicus@ECMWF, ESA, GEO

Lunch Break 13:00-14:00

10.6 Short interventions from other partners cont. [70 mins]

Partner interventions continued (max 10 min each): GOOS, OOPC, PAGES, SCOR, SOLAS, USGCRP, YESS

11 WCRP Secretariat and Finance [30 mins]

- Secretariat Report [10 mins] (*M Sparrow*)
- Summary of Budgets and Finance [20 mins] (*M Sparrow*)

Mike Sparrow will update invitees on the WCRP Secretariat and WCRP Finances.

12 Closing Remarks [20 min.] (D Stammer, P Braconnot, M Sparrow)

16:00 Closing of Open JSC-44 Session