



DRAFT AGENDA v2.4

GCOS Joint Panels Meeting

Marrakesh, Morocco

18-22 March 2019

24th session of the Atmospheric Observation Panel for Climate ([AOPC-24](#))

22nd session of the Ocean Observations Panel for Physics and Climate ([OOPC-22](#))

21st session of the Terrestrial Observation Panel for Climate ([TOPC-21](#))

8th Session of the WCRP Data Advisory Council ([WDAC-8](#))

10th session of the Joint CEOS-CGMS Working Group on Climate ([WGClimate-10](#))

Participants: AOPC, OOPC, TOPC, Invited experts

Parallel meetings: WCRP/WDAC; Joint CEOS-CGMS WGClimate



Monday 18 th March 2019 - Day 1 Plenary all day							
Time	N°	Item	Presenter	Targeted outcome/note	Room	WDAC	WGClimate
9:00		Registration		Opportunity for panel pre-meetings	Jean Bauchet Hall	Joint in plenary	Joint in plenary
10:00	1.1	Brief Welcome	Omar Chafki Permanent Representative to WMO of Morocco & Director of the Meteorological Service Morocco	GCOS Director, Carolin Richter Introducing the speakers			
10'	1.2	Introductions – why are we here, expectations	Stephen Briggs GCOS Steering Committee Chair	A common understanding on the needs of stakeholders and on the approach for: a) GCOS to achieve its strategic goals nr. 1 and 3 (document): <i>1 - Identify user needs. ...the needs of adaptation and mitigation to climate change, support sustainable development, the requirements of the UNFCCC and other multilateral environmental agreements.</i> <i>3- Advocate for free and open access to relevant data.</i>			
10'	1.3		Pavel Kabat WMO Chief Scientist				
20'	2.	Climate Monitoring & adaptation success in Morocco	Omar Chafki <i>Director of the Meteorological Service Morocco</i>	<i>1 - Identify user needs. ...the needs of adaptation and mitigation to climate change, support sustainable development, the requirements of the UNFCCC and other multilateral environmental agreements.</i>			
10:40- 11:10	Coffee break – Group picture						
	3.1	IPCC reports ¹ and implication for observations:	<i>Where do observations contribute to these key areas? What observations are being done?</i>				
20'	3.2	<i>Knowledge gaps related to observation systems: IPCC SR1.5</i>	Peter Thorne <i>CLA Chapter 2 (observations chapter), WGI</i>	b) the Implementation of the WCRP Strategy			
20'	3.3	Observational gaps in the ocean and cryosphere	Michael P. Meredith British Antarctic Survey, Cambridge, UK; Scottish	1-Fundamental understanding of the climate system 2-Prediction of the near-term			

¹ Special Report on Global warming of 1.5°C (SR15); Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC); Special Report on Climate Change and Land (SRCLL); 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories (2019 Refinement); and the IPCC Sixth Assessment Report (AR6)

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			Association from Marine Science, Oban, UK CLA Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)	evolution of the climate system 3-Future evolution of the climate system 4-Bridging climate science and society			
20'	3.4	Knowledge gaps in climate change and land	María José Sanz Sánchez Scientific Director of the Basque Centre for Climate Change (BC3), Bilbao, Spain CLA 2019 Refinement of the 2006 IPCC Guidelines for GHG Inventories	Supported by critical infrastructure: Observations for process understanding and Sustained reference data			
12:30-14:00		Lunch					
20'	3.5	Climate extremes: knowledge gaps and observational uncertainties	Wafae Badi Moroccan Meteorological Service LA Chapter 11, Extremes, AR6		Jean Bauchet Hall	Joint in plenary	Joint in plenary
20'	4.	Earth observations in support of the UNFCCC and its Paris Agreement	Joanna Post UNFCCC Secretariat				
20'	5.	Observational needs for the national inventories	Simon Eggleston GCOS Secretariat, IPCC Task Force on inventories				
15:30-16:00		Coffee break					
90'	6.	Panel Discussion Moderator: GCOS SC Chairman <i>Chairs AOPC, OOPC, TOPC, WDAC, WGClimate, WMO Chief Scientist, Director GCOS, GOOS Co-Chair</i> Observation and science priorities to inform the GCOS Strategy and WCRP Implementation					
17:30		Adjourn					

Tuesday 19 th March 2019 - DAY 2 – Plenary (am) and Breakout Groups (pm)							
Time	N°	Item	Presenter	Targeted outcome/note	Room	WDAC	WGClimate
09:00 30'	7.1	Introduction to GCOS IP and WCRP targets for Earth System cycles. (IP section)	Carolyn Richter GCOS Director Pavel Kabat WMO Chief Scientist	A summary of the current status and identification of where work is needed	Jean Bauchet Hall	Joint in Plenary	Joint in Plenary
30'	7.2	Carbon (document)	Han Dolman	30 min presentations based on scoping papers			
30'	7.3	Water (document)	Stephan Dietrich				
10:30-11:00		coffee break					
30'	7.4	Energy (document)	Karina von Schuckmann				
30'	7.5	Biosphere (document)	Nadine Gobron				
30'	7.6	Discussion					
12:30-14:00		Lunch					
Break-out groups 120'		<p>Afternoon – Break-out groups</p> <p>(1) Carbon (2) Water (3) Energy (4) Biology/ ecosystem/ biodiversity</p> <p>Discussion on: How well do the observations meet the GCOS IP targets (Box 4-5-6-7, page 37-38)? Are ocean, atmosphere and terrestrial requirements consistent to meet the GCOS IP targets (Box 4-5-6-7)?</p>	<p>Moderators: (1): Han Dolman (2): Stephan Dietrich (3): Karina von Schuckmann (4): Nadine Gobron</p> <p>Rapporteurs: (1): Simon Eggleston (2): Valentin Aich (3): Caterina Tassone/ Tim Oakley (4): Carolyn Richter/ Katy Hill</p>	<p>A common understanding on the needs of stakeholders and on the approach for GCOS to achieve its strategic goals Nr. 2 and 3: <i>2 - Ensure that climate observations are enhanced and continued into the future to, in order to fully monitor the Earth's water and carbon cycles and energy.</i> <i>3- Advocate for free and open access to relevant data.</i></p> <p>WCRP to achieve its four Overarching Objectives</p> <p>Agree 1-2 page summary of status and next steps</p>	<p>(1): Warda Hall (2): Domes Hall (3): Jean Bauchet Hall (4): Jury Hall</p>	<p>Joint with GCOS in Break-out groups</p>	<p>10th Session of WGClimate</p> <p>Room: Alexander Hall</p> <p>Link Agenda</p>

16:00-16:30		Coffee break				
Plenary						
40'	7.7	Progress review from break-out groups				
10'		Outlook for Wednesday parallel session on cross-panels discussion	Carolin Richter		Jean Bauchet Hall	
10'	8.	Preparing for the 2022 GCOS IP update	Simon Eggleston			
17:30		Adjourn				

Wednesday 20 th March 2019 - DAY 3 All Day - parallel sessions							
Time	N°	Item	Presenter	Targeted outcome/note	Room	WDAC	WGClimate
09:00	9.	Cross-panel discussions	Focus on specific areas of concern between panels identified before the meeting.	Discussion and agree cross-panel needs and activities		WCRP Data Advisory Council 8th Session Room: Rotunda Link Agenda	Room: Alexander Hall
Parallel	9.1	Discussion session on Energy Fluxes (document)	Discussion leaders: Meghan Cronin Bob Weller Liz Kent Rapporteur: Caterina Tassone		Warda Hall		
Parallel	9.2	Discussion session on Coastal-Land-Ocean-Water Fluxes	Discussion leader: Stephan Dietrich Rapporteurs: Katy Hill, Simon Eggleston		Domes Hall		
Parallel	9.3	Other cross-cutting issues as they arise from Day 1 and Day 2 eg: Extremes, Biosphere	TBD Rapporteurs: Tim Oakley, Valentin Aich		Jury Hall		
10:30-11:00		Coffee break					
90'		Parallel sessions continued	Preparing for reporting back to plenary		Same as before		
12:30-14:00		Lunch					

	Start with individual GCOS panel meetings					
	AOPC – 24 (Link Agenda)		Agendas for the panel meetings will be prepared separately by the panels themselves.	Domes Hall		
	OOPC – 22 (Link Agenda)			Warda Hall		
	TOPC -21 (Link Agenda)			Jury Hall		
30'	Coffee break					
	Continue individual GCOS panel meetings					
17:30	Adjourn					

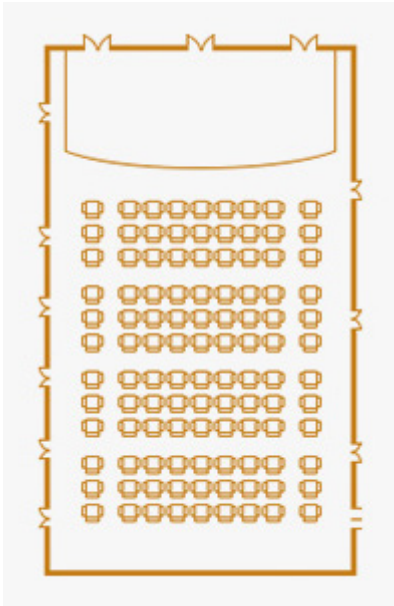
Thursday 21 st March 2019 - Day 4 Plenary (am) – Separate Panel Meetings (pm)							
Time	Nº	Item	Presenter	Targeted outcome/note	Room	WDAC	WGClimate
09:00		Plenary		agree 1-2 page summary of status and next steps	Jean Bauchet Hall	Room: Alexander Hall 9:00-10:30: Joint WDAC and WGClimate Room: Rotunda 12:00 WDAC meeting	Room: Alexander Hall 9:00-10:30: Joint WDAC and WGClimate
10'	10.1	TOPC Scoping Group on observations for adaptation	Nigel Tapper	Development of strategic guidance on how to be more relevant and key requirements from regions.			
10'	10.2	GCOS SC Subgroup on a draft for observations in support of adaptation	Han Dolman				
30'	9.4	Reports from previous day cross-panel discussion (10' each)					
30'	11.	Discussion: How to strengthen the collaboration between the panels?					
10'	12.	GCOS goes green	Stephen Briggs				

10:30-11:00		Coffee break	Same as day before	ends	
11:00		Individual Panel Meetings: AOPC-OOPC-TOPC			
12:30-14:00		Lunch			
90'		Individual Panel Meetings continue			
15:30-16:00		Coffee break			
90'		Individual Panel Meetings continue			
17:30		Adjourn			

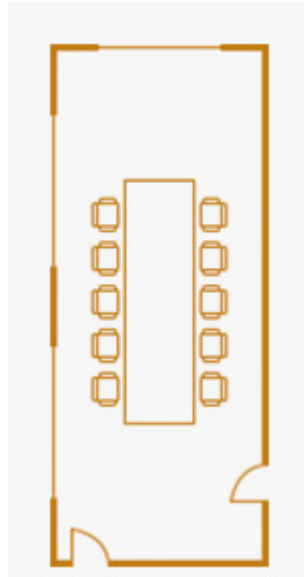
Friday 22nd March 2019 - Day 5 Individual Panel Meetings

Time	N°	Item	Room	WGClimate
9:00		Individual Panel Meetings: AOPC, OOPC, TOPC	Same as day before	Room: Alexander Hall 12:00 End of WGClimate meeting
10:30-11:00		Coffee Break		
		Individual Panel Meetings continue		
12:30-14:00		Lunch		
		Individual Panel Meetings (see agenda for individual panel meetings)		
15:30		Adjourn		

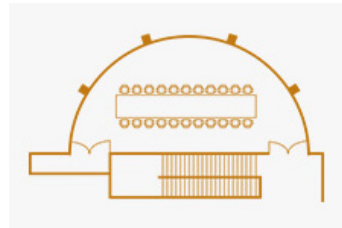
Rooms

Jean Bauchet Hall**In the Palace,
ground floor**

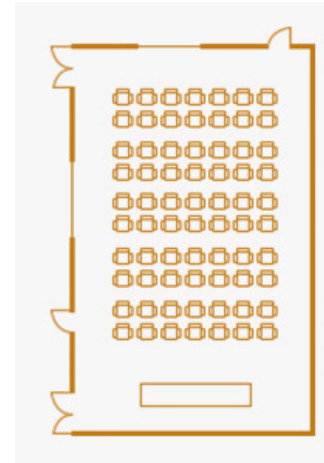
JPM Plenary Sessions
Energy Cycle (7.6)

Alexander Hall**In the
Conference
Center, 1st floor**

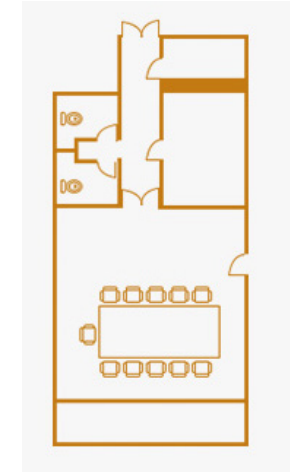
WGClimate

Rotonde**In the
Conference
Center, ground
floor**

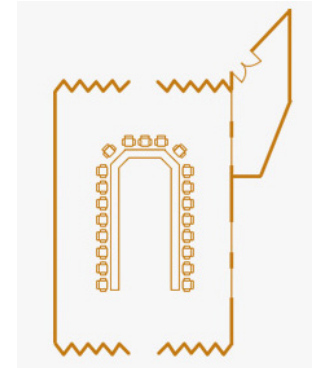
WDAC

Warda Hall**In the
Conference
Center, ground
floor**

OOPC,
Carbon Cycle (7.6),
Energy Fluxes (9.1)

Jury Hall**In the Palace,
1st floor**

TOPC,
Biosphere (7.6),
Biosphere/
Extremes (9.3)

Domes Hall**In the Palace,
1st floor**

AOPC,
Water (7.6),
Coastal-Land-
Ocean-Water
Fluxes (9.2)