

Future Climate Change Research and Observations: GCOS, WCRP and IGBP Learning from the IPCC Fourth Assessment Report (AR4)

Sydney, Australia, 4-6 October 2007

Agenda

<u>Goals:</u>

1. To establish future observing system and climate change research requirements based on gaps and uncertainties identified from the IPCC Fourth Assessment Report's (AR4):

- Working Group I (WGI: The Physical Science Basis), and
- Working Group II (WGII: Impacts, Adaptation and Vulnerability).

2. To determine observation and research requirements that lead to better climate change risk analyses and adaptation measures; and result in lower vulnerability and impacts to a changing climate.

3. To identify priorities for new observations and research expected to be needed in support of future IPCC assessments.

	Thursday 4 October	Friday 5 October	Saturday 6 October	Sunday 7 October (Limited Attendance)
АМ	Registration at 8:30 Opening at 9:00 Welcome Addresses Survey Results Creating Task Groups IPCC Perspectives	Q&A for Task Groups Break-out into Task Groups	Plenary discussion: Reports from Task Groups Plenary discussion: Priorities for future IPCC assessments	WCRP ACC Task Team Conference Call (7:00-9:00) Int. Steering Committee: Completion of Workshop Report (9:00-12:00)
РМ	IPCC Perspectives (cont'd) Instructions to Task Groups	Plenary discussion: First report of Task Groups Break-out into Task Groups Plenary discussion: Reports from Task Groups	Plenary discussion: Lessons learned Round table (All) Plenary discussion: Future priorities for GCOS, WCRP, IGBP Closing at 18:00	
Evening	Greenhouse 2007 Conference Dinner	Workshop sponsored Dinner at Casa di Nico (19:00)		

Programme overview:

Thursday 4 October 2007

1.	Registration	08:30 - 09:00	
2.	Opening (Chairs: J. Church, C. Nobre, J. Zillman)	09:00 - 09:45	
	 2.1 Welcome T. Rosswall (ICSU) R. Batterham (Australian Academy of Technological Sciences and G. Love (representing the WMO) N. Smith (representing the IOC) I. Carruthers (on behalf of UNEP) 2.2 IPCC Opening Address (R. Christ) 2.3 Local arrangements (W. Steffen, with P. Holper, M. Hopkins) 2.4 Expectations of the workshop, approval of the agenda and acknowledge of sponsors (Chairs) 		
3.	Gaps, uncertainties and deficiencies (Survey Results) (A. Henderson-Sellers, K. Noone, D. Goodrich)	09:45 - 10:30	
	Tea Break: Greenhouse 2007	10:30 - 11:00	
4.	Creating Workshop Task Groups (Chair: A. Henderson-Sellers)	11:00 - 12:20	
	 4.1 Group 1: Gaps in AR4: Knowledge, Interpretation, General Appraisal (T. Stocker/U. Cubasch) 4.2 Group 2: Climate and Earth System Modelling (V. Ramaswamy/P. Jones) (Global needs for observations, for evaluation, for improvement, and for impact studies) 4.3 Group 3: Impacts, Adaptation, and Risk (Mark Stafford-Smith/L. Kajfez-Bogataj) (Encompassing biodiversity, human health, water cycle, agriculture) 4.4 Group 4: Regionalising Model Projections/Downscaling (A. Lynch/P. Mason) (Future projections at the regional scale; relation to adaptation and policy) 4.5 Plenary Discussion 		
5.	IPCC AR4: Perspectives		
	 5.1 IPCC WG I: The Physical Science Basis (Chair: M. Manning) 5.1.1 Atmospheric Modelling and Observations (K. Trenberth) 5.1.2 Oceanic Climate Change (N. Bindoff) 	12:20 - 13:00	
	Lunch with Greenhouse 2007	13:00 - 14:00	
	 5.1 IPCC WG I (<i>cont'd</i>) 5.1.3 Terrestrial Coupling and Biogeochemistry (C. Prentice) 5.1.4 Cryospheric Climate Change (K. Steffen) 	14:00 - 14:40	
	 5.2 IPCC WG II: Impacts, Adaptation, and Vulnerability (Chair: J. Palutikof) 5.2.1 High-resolution climate scenarios for impacts and adaptation research (L. Mearns) 5.2.2 Impacts and Vulnerability (R. Jones) 	14:40 - 15:20	
	Tea Break with Greenhouse 2007	15:20 - 15:50	

	5.2 IPCC W0 5.2.3	G II (<i>cont'd</i>) Adaptation Case Study: Urban Settlements (P. Romero-Lankao)	15:50 - 16:10
	5.3 Researc	h and Observation Needs for Future IPCC Assessments (Chair: J. Stone)	16:10 - 17:25
	5.3.1	General Perspectives (R. Christ)	
	5.3.2	Risk Assessment and Risk Management (S. Schneider)	
	5.3.3	Modelling Scenarios (G. Meehl) (Summary of 'The Netherlands' meeting)	
6.		uidance for Task Groups nderson-Sellers, K. Noone, D. Goodrich)	17:25 - 18:00
	[N.B.: Task G	roups meet in the evening]	

Greenhouse 2007 Conference Dinner

Friday 5 October 2007

7.	Questions from/Guidance to Task Groups (Plenary)	08:30 - 08:45
8.	Work in Task Groups [N.B.: Select/confirm group rapporteurs]	08:45 - 11:00
	Tea break with Greenhouse 2007	11:00 - 11:30
9.	Work in Task Groups (cont'd)	11:30 - 12:50
	<i>Lunch break with Greenhouse 2007</i> [N.B.: Task Group chairs meet with workshop organizers at lunch]	12:50 - 13:50
10.	First report of Task Groups (Plenary)Check status quoPossible re-composition of groups	13:50 - 14:30
11.	Continue work in Task Groups	14:30 - 17:00
12.	Plenary discussion: Reports from Task Groups	17:00 - 18:00
	[N.B.: Task Groups meet in the evening]	

Workshop sponsored Dinner at Casa di Nico (19:00)

Saturday 6 October 2007

	Tea break (Workshop sponsored)	10:30 - 11:00
13.	Panel & Plenary discussion (Chair: W. Steffen): Based on reports from Task Groups	09:00 - 10:30
	[N.B.: DRAFT WORKSHOP REPORT AVAILABLE FOR PARTICIPANTS]	

14.	Panel & Plenary discussion (Chair: M. Manning): Priorities for future IPCC assessments	11:00 - 12:30
	Lunch (Workshop sponsored)	12:30 - 14:00
15.	Panel & Plenary discussion (Chair: D. Goodrich): Workshop lessons learned for GCOS, WCRP and IGBP	14:00 - 15:30
	Tea break (Workshop sponsored)	15:30 - 16:00
16.	Round table (All participants) (Review draft Workshop Report; individual last words)	16:00 - 17:00
17.	Plenary discussion (Chair: K. Noone): Future climate research and observation priorities for GCOS, WCRP and IG	17:00 - 17:30 BP
18.	Workshop closing and final remarks (Chairs: J. Church, C. Nobre, J. Zillman, K. Lambeck)	17:30 - 18:00

Sunday 7 October (Limited attendance)

19.	Meeting of WCRP ACC Task Team (Conference Call)	07:00 - 09:00
20.	Meeting of International Steering Committee & Secretariat (Completion of Workshop Report)	09:00 - 12:00

Background resources:

- 1. Aspen Report, 'A strategy for climate change stabilization experiments with AOGCMs and ESMs': <u>http://wcrp.ipsl.jussieu.fr/Documents/ACC/Aspen_WhitePaper_1final.pdf</u>
- "GCOS Observation Needs for Assessing Impacts of, Vulnerability and Adaptation to, Climate Variability and Climate Change: Conclusions from IPCC AR4 Working Group II" (J. Zillman): <u>http://wcrp.ipsl.jussieu.fr/Documents/ACC/GCOS ObsNeeds WGII JZ.pdf</u>

This workshop has been made carbon-neutral in collaboration with myclimate.org.