

“IPCC AR5: lessons learnt for climate change research and WCRP”

ISSI, Bern 8-10 September 2014

Draft Workshop Programme, 28.06.14

Sandrine Bony, Guy Brasseur, Anny Cazenave, Vladimir Kattsov, Katharine Mach, Gian-Kasper Plattner, James Renwick, Michael Rixen, Thomas Stocker
Gilles Sommeria

Day 1

09:00 Opening

- Swiss Federal Office of the Environment: Jose Romero (5 mins)
- WCRP: David Carlson, Director WCRP (5 mins)
- IPCC: Renate Christ, Secretary IPCC (5 mins)
- ISSI: Rudolf von Steiger, Director ISSI (5 mins)
- ***09:20 Setting the Stage, Purpose of the Meeting***
- Guy Brasseur & Thomas Stocker, Co-Chairs of meeting (20+10 mins)
- *9:50 Coffee Break AM*

10:15 Plenary Session 1 – IPCC WGI AR5: emerging themes and key uncertainties

- *(First person speaks with input from second author)*
- **Longstanding uncertainties in IPCC Assessments** (Stocker & Plattner) (12+5 mins)
- **Keynote 1: Regional Climate Change** (Krishna & Hewitson) (12+5 mins)
- **Keynote 2: Decadal Prediction and Projections** (Power & Sutton) (12+5 mins)
- **Keynote 3: Carbon Cycle – Climate Interactions** (Le Queré & Joos) (12+5 mins)
- **Keynote 4: Climate Targets (beyond temperature)** (Knutti & Riahi) (12+5 mins)
- **Keynote 5: Aerosols, Air Quality and Climate** (Lamarque & Forster) (12+5 mins)
- **Open Discussion (30 mins)**

14:00 Plenary Session 2 –

WCRP Grand Challenges: strategies to address key uncertainties

- *(First person speaks with input from second author)*
- **Keynote 1: Clouds, Circulation and Climate Sensitivity** (Bony & Stevens) (12+5 mins)
- **Keynote 2: Changes in Cryosphere** (Kattsov & Flato) (12+5 mins)
- **Keynote 3: Climate Extremes** (Zhang & Hegerl) (12+5 mins)
- **Keynote 4: Regional Climate Information** (Goddard & Doblus-Reyes) (12+5 mins)
- **Keynote 5: Regional Sea-level Rise** (Stammer & Domingues) (12+5 mins)
- **Keynote 6: Water availability** (Seneviratne & Stephens?) (12+5 mins)
- **Open Discussion (30 mins)**

16:30 Plenary Session 3 – ***Impacts, risk assessment and scenario development***

- **Keynote 1: The role of risk in the WCRP Grand Challenges: building from the AR5 (Pulwarty) (15+5 mins)**
- **Keynote 2: Scenario Development and IAM Projections (Riahi) (15+5 mins)**
- Open discussion on day1 issues
- Tasking the BOGs (responding to issues raised by IPCC AR5)
- *18.00 International Space Science Institute: Current Activities relevant to Climate Research (Rudolf von Steiger)*
- ***18:30 Reception (sponsored by Oeschger Centre for Climate Change Research, Univ.of Bern)***

Day 2

BOGs (1)

- **9.00-10.30 BOG session 1**
- *(one chair, two rapporteurs, order tbc)*
- **BOG-1: Clouds, Circulation and Climate Sensitivity** (Sheperd/ Bony/Stevens)
- **BOG-2: Climate Extremes** (Simmons/ Zhang/Hegerl)
- **BOG-3: Regional Sea-level Rise** (Cazenave/Domingues/Stammer)
- *Coffee Break AM*

BOG (2)

- **11.00-12.30 *BOG session 2***
- **BOG-4:** Changes in Cryosphere (Vaughan/
Kattsov/Flato)
- **BOG-5:** Regional Climate Information (Giorgi/
Goddard/DoblesReyes)
- **BOG-6:** Water availability (Trenberth/
Seneviratne/Stephens?)
- **BOG-7:** Other emerging themes of relevance
to WCRP (Ramaswamy/Shindell/
Friedlingstein)

BOGs (3)

- **14.00-15.30 BOG Session 3**
- *BOGs 1/2/3 continued*
- *Coffee Break PM*
- **16.00-17.30 BOG Session 4**
- *BOGs 4/5/6/7 continued*
- **17.30-18.00 Plenary Session 5**
- *Plenary coordination meeting*

Day 3

BOGs (4)

- *Before 10.30 BOG writing time*
- *Coffee Break AM*

11.00-12.30

Plenary Session 6 –

***Reporting back from Breakout Groups to
Plenary: Deliverables/Recommendations***

- BOG-1: Clouds, Circulation and Climate Sensitivity
- BOG-2: Climate Extremes
- BOG-3: Regional Sea-level Rise
- *Lunch Break*

13.45-15.15

Plenary Session 7 –

***Reporting back from Breakout Groups to
Plenary: Deliverables/Recommendations***

- BOG-4: Changes in Cryosphere
- BOG-5: Regional Climate Information
- BOG-6: Water availability

15.30-16.30
Plenary Session 8 –
Concluding session

- Reporting of BOG-7: possible integration of new themes in WCRP
- Open Discussion in Plenary
- Next Steps: Timetable, Deliverables, Recommendations
- Closing of the Meeting

Personal comments

- What we should not do:
 - Revisit the WCRP grand challenges
 - Ignore the message from IPCC
- A major question:
 - How should WCRP evolve in the future as the attention (funding) grows towards adaptation/resilience issues (WG II and III) sometimes at the expense of the physical science (WG I)?
 - How can we put a new emphasis on fundamental (unresolved) scientific questions, and how can we demonstrate that these questions are key for addressing societal issues?

Questions

- Is this agenda the most appropriate for WCRP to take advantage of the lessons learned by IPCC?
- Is the discussion sufficiently open for the introduction of new possible activities or too much driven by the already existing grand challenges?
- Should we invite a few representatives of agencies, other programs and specialized journals?

Thank You