“IPCC AR5: lessons learnt for climate change research and WCRP”
ISSI, Bern 8-10 September 2014
Draft Workshop Programme, 28.06.14

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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 Quéré & 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 & Doblas-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