## Next steps in climate science Wednesday 2 to Thursday 3 October 2013, Organised by Sir Brian Hoskins CBE FRS



JOCIL I			
DAY 1		DAY 2	
09.15	Welcome by John Pethica & Brian Hoskins	How large are uncertainties in forcings and feedbacks and how can they be reduced? Chair: Joanna Haigh	
09.20	Sir Mark Walport Chief Scientific Advisor to the UK Government	09.00	<b>David Randall</b> The role of clouds
Chair: Susan Solomon			Olivier Boucher
09.30	<b>Thomas Stocker</b> Highlights of the Working Group 1 Report	09.30	The role of aerosols  Discussion
10.00	Discussion	10.30	Corinne Le Quere  Carbon and other biogeochemical cycles
10.30	Coffee	11.00	Discussion
What is happening to the climate system now and what is the outlook for this century?  Chair: John Mitchell		11.15	Coffee
11.00	Peter Thorne  How is our climate changing? What new evidence do we have?  What are the observational challenges and opportunities?	What information do we have about changes in variability and extremes?  Chair: Gabriele Hegerl	
11.30	Discussion		
11.45	Jochem Marotzke  Do we understand the current global surface temperature record and what is the prospect for large-scale change in the next decades?	11.45	<b>Dennis Hartmann</b> How strong is the evidence that climate extremes and high impact weather have changed?
12.15	Discussion		Peter Stott
12.30	LUNCH	12.15	Can we attribute these changes to greenhouse gas changes and what are the prospects?
Chair: Julia Slingo		12.45 13.15	Discussion  LUNCH
13.30	Richard Allan  What is the confidence in the response of the global water cycle  to climate change?	Chair: Keith Shine	
14.00	Discussion		
14.15	David Vaughan  Is the melting of ice sheets accelerating and what are the prospects for sea level rise?	14.15	<b>Ted Shepherd</b> How predictable are changes in circulation?
14.45	Discussion	14.45	Discussion
15.00	Теа	15.00	Gavin Schmidt What insights can be obtained through palaeo climate research?
Chair: Rowan Sutton		15.30	Discussion
15:30 16.00	Julienne Stroeve  What is the future for sea ice in the Arctic and Antarctic?  Discussion	In future, what will be the best way to make climate science available to policy makers and the public?  Chair: Emily Shuckburgh	
16:15	Mat Collins  What is the chance of abrupt or irreversible changes?	16.15	John Ashton  Reality and its enemies: climate change and its implications for the
16.45	Discussion	1	contract between science and society
17.00	CLOSE	17.00	CLOSE