## Next steps in climate science

**Wednesday 2 to Thursday 3 October 2013, Organised by Sir Brian Hoskins CBE FRS**

<table>
<thead>
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<th>DAY 1</th>
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| **09.15** | 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  
Chair: Susan Solomon |
| **09.30** | David Randall  
The role of clouds |
| **10.00** | Olivier Boucher  
The role of aerosols  
Discussion |
| **10.30** | Corinne Le Quere  
Carbon and other biogeochemical cycles  
Discussion |
| **09.00** | Thomas Stocker  
Highlights of the Working Group 1 Report |
| **10.00** | Discussion |
| **10.30** | Coffee |
| **11.00** | What is happening to the climate system now and what is the outlook for this century?  
Chair: John Mitchell |
| **11.00** | Peter Thorne  
How is our climate changing? What new evidence do we have?  
What are the observational challenges and opportunities? |
| **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** | Dennis Hartmann  
How strong is the evidence that climate extremes and high impact weather have changed?  
Discussion |
| **12.15** | Peter Stott  
Can we attribute these changes to greenhouse gas changes and what are the prospects? |
| **12.15** | Discussion |
| **13.10** | 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** | Ted Shepherd  
How predictable are changes in circulation? |
| **14.45** | Discussion |
| **15.00** | Tea |
| **15.00** | Gavin Schmidt  
What insights can be obtained through palaeo climate research? |
| **15.30** | Discussion |
| **16.00** | Rowan Sutton  
In future, what will be the best way to make climate science available to policy makers and the public?  
Chair: Emily Shuckburgh |
| **16.15** | Julienne Stroeve  
What is the future for sea ice in the Arctic and Antarctic? |
| **16.15** | John Ashton  
Reality and its enemies: climate change and its implications for the contract between science and society |
| **16.45** | Discussion |
| **17.00** | CLOSE |

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