

Feedback on climate in the Earth system

Monday 8 – Tuesday 9 December 2014

Organised by Professor Eric Wolff FRS, Professor John Shepherd CBE FRS, Dr Emily Shuckburgh and Professor Andrew Watson FRS

DAY 1				DAY 2			
SESSION 1		SESSION 2		SESSION 3		SESSION 4	
Water vapour-cloud-climate feedbacks Chair: John Shepherd		Cryosphere - climate feedbacks Chair: Eric Wolff		Carbon cycle and greenhouse gas climate feedbacks Chair: Andrew Watson		Feedbacks, uncertainty and risk Chair: Emily Shuckburgh	
09.00	Welcome by the Royal Society & Eric Wolff FRS						
09.05	Reto Knutti Feedbacks and climate sensitivity	13.30	Jonathan Gregory The inconstancy of transient climate sensitivity	09.00	Pierre Friedlingstein Carbon cycle feedbacks and future climate change	13.30	Nathan Gillett Observational constraints on the net effect of climate feedbacks on future climate change
09.30	Discussion	14.00	Discussion	09.30	Discussion	14.00	Discussion
09.45	Mark Webb De-evolving climate models	14.15	Cecillia Bitz Polar amplification in the 21st Century	09.45	Andy Ridgwell Carbon is for ever (almost): Regulation of CO2 and climate on geological time-scales	14.15	Rowan Sutton What does global mean temperature tell us about local climate?
10.15	Discussion	14.45	Discussion	10.15	Discussion	14.45	Discussion
10.30	Coffee	15.00	Tea	10.30	Coffee	15.00	Tea
11.00	Chris Bretherton Mechanisms of low-latitude cloud feedback	15.30	Dan Lunt Ice sheet / climate interactions in the deep past	11.00	Charles Koven Permafrost thaw and its role as a carbon cycle feedback to global warming	15.30	Chris Hope Global impacts of arctic feedbacks, and the value of better information
11.30	Discussion	16.00	Discussion	11.30	Discussion	16.00	Discussion
11.45	Urs Baltensperger Aerosol-cloud and the CLOUD experiment	16.15	David Vaughan TBC	11.45	Pascale Braconnot PMIP3: paleo view on feedbacks	16.15	Summary and closing remarks
12.15	Discussion	16.45	Discussion	12.15	Discussion	17.00	CLOSE
12.30	LUNCH	17.00	CLOSE	12.30	LUNCH		