Agenda CCMVal 2007 Workshop

University of Leeds, Leeds, UK; June 26-28, 2007

The CCMVal 2007 workshop will take place in the School of Chemistry Lecture Theatre A at the University of Leeds. The Posters and refreshments will take place in the main court of the Parkinson Building. These two buildings are next to each other on Woodhouse Lane (number 2 on the map: http://www.see.leeds.ac.uk/contact/find_us/campus.htm).

Monday, 25 June 2007

17:00 onwards	Registration, an	id poster set-up

18:00 – 20:00 **Icebreaker**

Tuesday, 26 June 2007

08:00 - 09:00 **Registration and poster set-up**

Introduction

Chair:	David Fahey	
09:00 - 09:10	Welcome and Logistics	Dwayne Heard, M. Chipperfield & P. Forster
09:10 - 09:20	The Role of CCMVal within SPARC &WCRP	Ted Shepherd
09:20 - 09:35	CCMVal Status and Workshop Goals	Veronika Eyring

Introduction to Breakout Groups

09:35 - 09:50	Group I: New CCMVal Reference Simulations	Paul Newman
09:50 - 10:05	Group II: CCMVal Tools and Data	Andrew Gettelman
10:05 - 10:20	Group III: Standard for CCMVal Performance	Steven Pawson
10:20 - 10:35	Group IV: CCMVal SPARC Report	Darryn Waugh
10:35 - 11:00	Coffee	
11:00 - 11:20	Outstanding Science Questions WMO 2006	Bill Randel

State and future of CCMs

Chair: Ted Shepherd Rapporteur: Hideharu Akiyoshi

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What sort of model configuration the CCM groups plan to use for the next round of assessments, e.g. coupled to ocean, with tropospheric chemistry, changes in model configuration compared to WMO 2006, what time period, how much capacity for different scenarios, etc.?

Groups will be asked to send in 2-3 slides in advance, to be assembled into a single presentation along with a set of questions. Preferably and if they have a representative there, then someone from the group should stand up and present that group's slides.

11:20 - 12:45 **State and future of CCMs** (approx. 15 CCM groups)

12:45 - 14:00 Lunch

Research in Coupled Chemistry Climate Modeling (Transport & UTLS)

Chair: Rapporteur:	Ulrike Langematz Andrew Gettelman	
14:00 – 14:15	Persistence and photochemical decay of springtime total ozone anomalies in CCMs (B1	Susann Tegtmeier
14:15 – 14:30	Relationships among age-of-air, chlorofluorcarbon loss and mixing ratio boundary conditions in assessment simulations (B3	Anne Douglass 3)
14:30 – 14:45	O3-N2O correlations: Revisiting a diagnostic of transport and chemistry in the stratosphere (B2	Michaela Hegglin 2)
14:45 – 15:00	A new method to deduce stratospheric transport times from observations and models (BS	Peter Hoor 5)
15:00 – 15:15	Diagnostics for seasonally varying and seasonally invariant transport in the lowermost stratosphere (Susan Strahan (C8)
15:15 – 15:30	Tropical Tropopause Layer Structure in CCMs (C	10) Andrew Gettelman
15:30 – 15:45	An approach to validate the transport of water vapour through the tropical tropopause in CCMs (Stefanie Kremser C11)
15:45 – 16:00	Variability and trends in global tropopause Parameters (C.	Thomas Birner
16:00 - 16:20	Tea	
16:20 – 18:20	Poster session	
18:20 – 19:00	Side Meeting with Lead Authors of the SPARC CC	MVal Report

Wednesday, 27 June 2007

Breakout Sessions I-III in parallel

Chairs &	k Ra	ppor	teurs:
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Group I: New CCMVal Reference Simulations	Paul Newman & Martyn Chipperfield
Group II: CCMVal Tools and Data	Andrew Gettelman & Neal Butchart
Group III: Standard for CCMVal Performance	Steven Pawson & David Fahey

09:00 - 10:30	Breakout Groups I-III
09:00 - 09.15	Talk in Breakout Group II: The role of BADC in CCMVal: possibilities and limitations (I1)
10:30 - 11:00	Coffee
11:00 - 12:00	Plenary Discussion on Breakout Groups I-III
12.00 - 13.15	Lunch

12:00 - 13:15 Lunch

Poster session

13:15 - 14:30

Research in Coupled Chemistry Climate Modeling (Stratospheric Chemistry & Long-term Changes)

Chair:	Markus Rex		
Rapporteur:	Martyn Chipperfield		
14:30 - 14:45	Simple measures of ozone depletion in the polar		Rolf Müller
	stratosphere	(E1)	
14:45 – 15:00	The impact of mixing across the polar vortex		Jens-Uwe Grooss
	edge on ozone loss estimates: Implication for the		
	validation of CCMs	(E8)	
15:00 – 15:15	Evaluation of Chemical Polar Ozone Loss in		Simone Tilmes
	the Lower Stratosphere within CCM Models	(E9)	
15:15 – 15:30	Inorganic Chlorine and Ozone Recovery in CCI	Ms (G2) Darryn Waugh
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15:30 - 16:00	Tea		
16:00 – 16:15	Quantifying key sensitivities within CCMs as a		Greg Bodeker
10.00 – 10.13	means of CCM validation	(G7)	Greg Doueker
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16:15 – 16:30	Diagnostic tests of polar ozone recovery	(G10)	Paul Newman
16:30 – 16:45	Volcano-induced Climate Impacts and ENSO		Georgiy Stenchikov
20.00	Interaction	(H1)	Storg-J Stellering

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Breakout Session IV

Chairs & Rapporteurs Breakout Group IV: Veronika Eyring, Ted Shepherd & Darryn Waugh

16:45 – 18:30 Breakout Session IV: CCMVal SPARC Report (0.5 hours in plenary, to discuss

the overall structure and timetable, followed by 1.0 hour in chapter groups)

Thursday, 28 June 2007

Research in Coupled Chemistry Climate Modeling (Dynamics & Natural Variability)

Chair: Rapporteur:	John Scinocca Hideharu Akiyoshi
09:00 - 09:15	Evaluation of the response of the stratosphere to ENSO events in CCMs Chiara Cagnazzo (A2)
09:15 - 09:30	Winter Climate Response to ENSO in three chemical-climate models Andreas Fischer (F3)
09:30 - 09:45	The Role of the QBO in Simulating the Solar Signal in the Atmosphere (F2)
09:45 – 10:00	Coupled chemistry climate model simulations of the solar cycle in ozone and temperature (F1)
10:00 – 10:15	The CMAM transient simulations for CCMVal: Analysis of long-term changes in ozone (G11)
10:15 - 10:45	Coffee

Breakout Sessions IV (Continued)

Chairs & Rapporteurs Breakout Group IV: Veronika Eyring, Ted Shepherd & Darryn Waugh

10:45 – 12:45 Breakout Session IV: CCMVal SPARC Report (1 hour in chapter groups,

followed by 3/4 hour in plenary)

12:45 - 14:00 Lunch

Research in Coupled Chemistry Climate Modeling (Continued)

Chair:	Doug Kinnison		
Rapporteur:	Markus Rex		
14:00 – 14:15	Sulfur injections into the stratosphere to alter the atmospheric chemical and dynamical state	(E3)	Thomas Peter
14:15 – 14:30	The Potential Impact of Aerosols in the Upper Troposphere on Ice Clouds	(C3)	Joyce Penner
14:30 – 14:45	A long-term climatology of transport processes in the TTL during NH winter	(C2)	Kirstin Krueger
14:45 – 15:00	Ozone Radiative Feedback on the Quasi-Biennia Oscillation	al (A5)	Kiyotaka Shibata
15:00 – 15:15	The SPARC Dynamics and Variability Project and Connections to CCMVal	(A9)	Paul Kushner
15:15 - 15:45	Tea		

Final Session

Chairs: Chairs of Breakout Groups I-IV Rapporteurs: CCMVal Steering Committee

15:45 - 17:00 Refinement and approval in plenary for Breakout Groups I to IV

Chairs: Veronika Eyring & Neil Harris Rapporteurs: CCMVal Steering Committee

17:00 - 18:00 Final Plenary Discussion

19:30 Conference banquet in Weetwood Hall http://www.weetwood.co.uk/weetwood.html

Friday, 29 June 2007

09:00 - 12:30 CCMVal Steering Committee Meeting

Proposed Breakout Groups:

Breakout Group I: New CCMVal Reference and Sensitivity Simulations in Support of Upcoming Ozone and Climate Assessments

- Needs of assessments, timeframe
- Possible scenarios
- Forcing data sets

Breakout Group II: CCMVal Diagnostic Tools, Data Archiving and Data Formats

- Formats for next set of runs
- Development of a standard CCMVal diagnostic package from tables: who will use it, who will help develop it?

Breakout Group III: Define a Strategy for Developing Standards for CCMVal Performance

• Consider defining a threshold level of performance or weighting for those models that are used to make the next assessment predictions.

Breakout Group IV: SPARC CCMVal Report on CCM Evaluation

• Purpose and structure of the report, time schedule, main science questions etc. Discuss specific diagnostics, validation and analysis activities in each chapter

LIST OF POSTERS

- 1. A1 (Erbertseder)
- 2. A3 (George)
- 3. A4 (Butchart)
- 4. A6 (Hegglin)
- 5. A7 (Charlton)
- 6. B4 (Bruehl)
- 7. C1 (Kunze)
- 8. C4 (Khosrawi)
- 9. C5 (Teyssedre)
- 10. C6 (Saint-Martin)
- 11. C7 (Pitari)
- 12. C9 (Tilmes)
- 13. C12 (Olivie)
- 14. C14 (Son)
- 15. D1 (Forster)
- 16. D2 (Forster)
- 17. D3 (Tourpali)
- 18. E2 (Stenke)
- 19. E5 (Ruhnke)
- 20. E6 (Liang)
- 21. E7 (Rex)
- 22. E10 (Tian)
- 23. F4 (Akiyoshi)
- 24. F5 (Mieruch)
- 25. G1 (Eyring)
- 26. G3 (Austin)
- 27. G4 (Oman)
- 28. G5 (Jonsson)
- 29. G6 (Rozanov)
- 30. G8 (Cordero)
- 31. G9 (Jegou)
- 32. G12 (Akiyoshi)
- 33. G13 (Stolarski)
- 34. G14 (Kenzelmann)
- 35. G15 (Nielsen)
- 36. H2 (Krueger)
- 37. H3 (Damoah)
- 38. H4 (Tian)