**HIPPO Workshop Agenda**

**March 16-18, 2011**

**National Center for Atmospheric Research**

**Boulder, Colorado**

**Wednesday, March 16**

8:30 am – 9:00 am \*\*\* CONTINENTAL BREAKFAST \*\*\*

**Welcome and Introductions** *– Chair: Britt Stephens*

9:00 am – 9:15 am Welcome – Steve Wofsy and Britt Stephens

9:15 am – 9:45 am Overview and Introductions – Steve Wofsy

9:45 am – 10:15 am HIPPO Outreach – Alison Rockwell

10:15 am – 10:45 am \*\*\*\*\* BREAK \*\*\*\*\*

**Logistics Discussion** *– Chair: Britt Stephens*

10:45 am – 12:00 pm H1-H3, H4 & H5 – Pavel, Brigitte, Vidal, Henry

12:00 pm – 1:30 pm \*\*\*\*\* LUNCH BREAK \*\*\*\*\*

**Instrument and Data Status** *– Chair: Jasna Pittman*

1:30 pm – 2:00 pm NOAA UCATS, PANTHER, WAS (NWAS+AWAS) –

Fred Moore, Eric Hintsa, and Elliot Atlas

2:00 pm – 2:10 pm RAF CO – Teresa Campos

2:10 pm – 2:20 pm Harvard OMS – Bruce Daube

2:20 pm – 2:30 pm NOAA O3 – Ru-Shan Gao / Ryan Spackman

2:30 pm – 2:40 pm NOAA SP2 – Shuka Schwarz

2:40 pm – 2:50 pm MTP – Julie Haggerty

2:50 pm – 3:10 pm \*\*\*\*\* BREAK \*\*\*\*\*

3:10 pm – 3:20 pm AO2 – Britt Stephens

3:20 pm – 3:30 pm MEDUSA – Jonathan Bent

3:30 pm – 3:40 pm Harvard QCLS – Eric Kort

3:40 pm – 3:50 pm VCSEL – Mark Zondlo

3:50 pm – 4:00 pm CDP and 2D-C – Dave Rogers

4:00 pm – 4:10 pm UHSAS – Al Cooper

4:10 pm – 4:20 pm Aircraft data – Pavel Romashkin

4:20 pm – 4:30 pm Data Management and Policy – Steve Wofsy

4:30 pm – 4:50 pm CDIAC – Sigurd Christensen

4:50 pm – 5:00 pm … END OF DAY DISCUSSION …

**Thursday, March 17**

8:00 am – 8:30 am \*\*\* CONTINENTAL BREAKFAST \*\*\*

**Data Analysis** *– Chair: Steve Wofsy*

8:30 am – 8:50 am "HIPPO and the 18O in CO2 mystery" – Ben Miller

8:50 am – 9:10 am "The seasonal atmospheric carbopause" – Britt Stephens

9:10 am – 9:30 am "The Meridian Integral: a new tool for evaluating seasonal air-sea carbon fluxes in ocean models" – Jonathan Bent

9:30 am – 9:50 am “Tropical N2O, Arctic CH4, and future TRANSCOM comparisons" – Eric Kort

9:50 am – 10:20 am \*\*\*\*\* BREAK \*\*\*\*\*

10:20 am – 10:40 am “Chemical tracers as indicators of transport time scales and

source regions of air in the UTLS” – Eric Ray

10:40 am – 11:00 am “Short-Lived Trace Gases during HIPPO” – Elliot Atlas

11:00 am – 11:20 am “Assessing transport pathways during HIPPO using chemical tracers” – Jasna Pittman

11:20 am – 11:40 am “Carbonyl Sulfide: HIPPO vs other observations” – Steve Montzka

11:40 am – 12:00 pm " Carbonyl sulfide: sources and sinks" – Roisin Commane

12:00 pm – 1:30 pm \*\*\*\*\* LUNCH BREAK \*\*\*\*\*

1:30 pm – 1:50 pm “Characteristics of ice supersaturated regions near the tropopause” – Mark Zondlo

1:50 pm – 2:10 pm “Global-Scale Black Carbon Profiles Observed in the Remote Atmosphere and Compared to Models” – Shuka Schwarz

2:10 pm – 2:30 pm “The Black Carbon Burden in the Northern Hemisphere

Pacific” – Ryan Spackman

**Data Comparisons – HIPPO with satellites, ground stations, models, and other campaigns**

*– Chair: Jim Elkins*

2:30 pm – 2:50 pm “Altitude-dependent sources and export efficiency of BC

over the Pacific” – Qiaoqiao Wang

2:50 pm – 3:10 pm \*\*\*\*\* BREAK \*\*\*\*\*

3:10 pm – 3:30 pm “HIPPO/WACCM comparisons” – Laura Pan and Leigh Munchak

3:30 pm – 3:50 pm “Ozone Model-Measurement Intercomparison” – Ru-Shan Gao / Ryan Spackman

3:50 pm – 4:10 pm “Comparisons of in situ HIPPO Minor Gas Measurements with Ground-based MIR Spectroscopically Retrieved VMR Profiles” – Jim Hannigan

4:10 pm – 4:30 pm "TCCON and HIPPO" – Debra Wunch

4:30 pm – 4:40 pm “ACE-FTS Retrievals and HIPPO-1” – Jim Elkins

4:40 pm – 4:50 pm “IGY-HIPPO comparisons” – Ralph Keeling

**Friday, March 18**

8:00 am – 8:30 am \*\*\* CONTINENTAL BREAKFAST \*\*\*

**Data Comparisons – HIPPO with satellites, ground stations, models, and other campaigns**

*– Chair: Eric Kort*

8:30 am – 8:50 am “Comparison of VCSEL and AIRS water vapor during HIPPO” – Minghui Diao

8:50 am – 9:15 am "Comparisons of greenhouse gases measured by Aura TES

and HIPPO " – John Worden

9:15 am – 9:35 am "Validation of TES Methane during HIPPO I & II:

Application to Adjoint Inverse Modeling of Methane

Sources" – Kevin Wecht

9:35 am – 9:55 am "Aircraft/Satellite comparisons from the HIPPO and GloPac campaigns" – Karen Rosenlof

9:55 am – 10:10 am \*\*\*\*\* BREAK \*\*\*\*\*

**Future campaigns** *– Chair: Jasna Pittman*

10:10 am – 10:30 am “How the HIPPO suite of measurements could complement those on the Global Hawk during ATTREX” – Jim Elkins

10:30 am – 10:50 am “IAGOS in the USA” – Owen Cooper

**Data Comparisons – Within HIPPO**

*– Chair: Jim Elkins*

11:00 am – 11:30 am CO2 comparisons – Britt Stephens

11:30 am – 12:00 pm non-CO2 comparisons – Eric Kort

12:00 pm – 1:30 pm \*\*\*\*\* LUNCH BREAK \*\*\*\*\*

**Final Discussion**

*– Chairs: Steve Wofsy & Jasna Pittman*

1:30 pm – 2:30 pm Summary of Meeting

Suggestions for H4 and H5? Revision of science approach for H4-H5 based on H1-H3 lessons learned? Other topics?

2:30 pm **Adjourn**

3:00 pm “Slicing the atmosphere: global sources of greenhouse

gases and pollutants from fine-grained, pole-to-pole observations” – Steve Wofsy

NCAR General Seminar