

SECOND VOCALS MEETING

July 12-14 2009, University of Washington, Seattle, USA

AGENDA

Quicklook summary of meeting with room numbers		
Sunday 09:00-10:00	Sunday 09:00-10:00 Introductory plenary session (JHN 102)	
Sunday 10:30-12:20	Breakout (1A) Room JHN 102 Regional Scale Perspective	Breakout (1B) Room JHN 175 Physical, chemical and optical properties of aerosols 1
Sunday 13:30-15:20	Breakout (2A) Room JHN 102 Heavy drizzle and POCS	Breakout (2B) Room JHN 175 Regional scale perspective (microphysical/chemical/aerosol)
Sunday 15:40-17:20	Breakout (3A) Room JHN 102 Platform and instrument intercomparisons	Breakout (3B) Room JHN 175 Coupled system and large scale modeling
Monday 08:30-10:20	Breakout (4A) Room HUB 310 Ocean-atmosphere-land processes	Breakout (4B) Room HUB 209A 20S Cross Section Mission Analysis
Monday 10:40-12:10	Breakout (5A) Room HUB 310 Marine boundary layer structure and dynamics	Breakout (5B) Room HUB 209A Physical, chemical, and optical properties of aerosols 2
Monday 13:30-17:00	Breakout (6A) Room HUB 310 Ocean-atmosphere-land processes 2	Breakout (6B) Room HUB 209A Aerosol-cloud-drizzle interactions
Tuesday 08:30-12:15	Plenary session: summary of breakout sessions by synthesizers - Room HUB 310	
Tuesday 13:45-17:00	Discussions and plans - Room HUB 310	

Sunday breaks will be in JHN 100J (Adjacent to Johnson 102). Monday/Tuesday breaks will be in HUB 310

Sunday 12th July

09:00-10:00: Welcome and VOCALS Status (JHN 102)

09:00-09:10:	Welcome, meeting goals	[Mechoso/Wood/Bretherton]
09:10-09:30:	Review of VOCALS Hypotheses	[Mechoso]
09:30-09:50:	Summary of VOCALS-REx operations	[Wood]
09:50-10:00:	VOCALS Master Archive	[Williams]

10:00-10:30: BREAK

BREAKOUT SESSION 1: Sun 10:30-12:20 (includes time at end for discussion/synthesis)

(1A) Regional scale perspective (physical) Room JHN 102 [DISCUSSION TIME 26 min for 12 min slots]

Rene Garreaud: *MBL variability, synoptic forcing, upsidence wave*

Thomas Toniazzo: *Synoptic scale forcing of the VOCALS REx region*

Rhea George: *Subseasonal variability of low cloud radiative properties over the SE Pacific*

Matt Wyant: *PreVOCA model assessment results and plans for next phase*

HuaLu Pan: *NCEP GFS modeling*

Shouping Wang: *Evaluation of COAMPS real-time forecast*

Larry O'Neill: *Seasonal/interannual variability of the diurnal pulsing of 6+ years of satellite-derived cloud liquid water*

Synthesizer: Rene Garreaud

(1B) Physical, chemical, and optical properties of aerosols 1 Room JHN 175 [DISCUSSION TIME 38 min for 12 min slots]

Radovan Krejci: *Paranal/Paposo aerosol and cloud observations*

Stephen Springston: *Data Availability and Intercomparison Periods from the G-1*

Katie Beem: *Cloud water chemistry during VOCALS-REx*

Lynn Russell: *Marine Organic Aerosol in the Remote Southeast Pacific MBL*

Lelia Hawkins: *Carboxylic Acids, Sulfates, and Organosulfates in Processed Continental Organic Aerosol over the SE Pacific*

Duli Chand: *Aerosol measurements at Paposo*

Synthesizer: Lynn Russell

12:20-13:30: LUNCH

BREAKOUT SESSION 2: Sun 13:30-15:20 (includes time at end for discussion/synthesis)

(2A) Heavy drizzle and POCs Room JHN 102 [DISCUSSION TIME 38 min for 12 min slots]

Graham Feingold: *Modeling of Aerosol-Cloud Interactions, Drizzle and the formation of open cells.*

Rob Wood: *The RF06 POC case study*

Grant Allen: *POC initiation mechanisms - Internal gravity waves*

David Leon: *Comparison of POC flights using radar, lidar, and in situ data from the C130*

Sandra Yuter: *Cloud and precipitation structures observed by shipboard instruments*

Hailong Wang: *Cloud-resolving modeling of open and closed cellular structures and their interactions*

Synthesizer: Graham Feingold

(2B) Regional scale perspective (microphysical/chemical/aerosol) Room JHN 175 [DISCUSSION TIME 38 min for 12 min slots]

David Painemal: *Regional circulation and cloud droplet number concentration variability*

Jerome Fast : *Mesoscale modeling of marine stratocumulus and cloud-aerosol interactions*

Scott Spak: *Concentrations during VOCALS-REx and emissions inventory development/improvement*

Michael Brunke: *Analysis of cloud properties with in-situ and satellite data, comparison with CAM3.1*

Lorenzo Labrador: *Remote sensing measurements from the Dornier 228*

Steve Abel: *Aircraft observations and model validation*

Synthesizer: Steven Abel

15:20-15:40: BREAK

BREAKOUT SESSION 3: Sun 15:40-17:30 (includes 20 minutes at end for discussion/synthesis)

(3A) Platform and instrument intercomparisons Room JHN 102

Discussion and very short presentations TBD

Synthesizer: Hugh Coe

(3B) Coupled system and large scale modeling Room JHN 175 [DISCUSSION TIME 38 min for 12 min slots]

Fengpeng Sun: *Coupled climate system in the SEP with focus on Sc using regional climate modeling and data analysis*

Len Shaffrey: *Coupled climate modeling*

Alan Gadian: *Stratocumulus modeling*

Roberto Mechoso: *Climate modeling and simulation*

Qingfang Jiang: *Dynamics and modeling of the low-level jet off the Chilean coast*

Dave Rahn: *The diurnal upsidence wave*

Synthesizer: Simon deSzoeker

Monday 13th July

BREAKOUT SESSION 4: Mon 08:30-10:00

(4A) Ocean-atmosphere-land processes Room HUB 310 [DISCUSSION TIME 30 min for 12 min slots]

Carlos Moffat (for Fiamma Straneo): *Ocean properties across the SEP*

Carlos Moffat: *The role of eddies in the ocean heat balance*

Art Miller (2 min overview): *Overview of work on Ocean data Assimilation, Ocean-Atmosphere Coupled Modeling*

Aneesh Subramanian: *Eddy resolving high resolution ocean model of VOCALS domain*

Dian Putrashan: *Coupled ocean-atmosphere modeling*

Carmen Grados: *Measurements from the R/V Jose Olaya during VOCALS REx*

Synthesizer: Robert Weller

(4B) 20S Cross Section Mission Analysis Room HUB 209A [DISCUSSION TIME 30 min for 12 min slots]

Chris Bretherton: *20S C-130 mission synthesis*

Grant Allen: *20S composition and satellite cloud fields*

Hugh Coe: *Cloud and aerosol measurements on the BAe-146*

Paul Barrett: *Boundary layer structure along 20S on the BAe-146*

Simon deSzoek: *Ship observations of boundary layer structure and variability along 20S*

Synthesizer: Grant Allen

10:00-10:30: BREAK

BREAKOUT SESSION 5: Mon 10:30-12:10 (talks plus discussion)

(5A) Marine boundary layer structure and dynamics Room HUB 310 [DISCUSSION TIME 28 min for 12 min slots]

Paquita Zuidema: *Liquid water paths from the C-130 and R/V Brown*

Alan Brewer: *Doppler lidar measurements from the R/V Brown*

Sara Tucker: *Ship-based doppler lidar studies of atmospheric decoupling under a Sc-topped MBL.*

Djamal Khelif: *Turbulence Measurements from the CIRPAS Twin Otter*

Ken Takahashi: *Atmospheric measurements on board the R/V Olaya and atmospheric modeling results*

Heng Xiao: *Parameterization of Sc and Sc-shallow Cu transition in the Southeastern Pacific*

Synthesizer: Paquita Zuidema

(5B) Physical, chemical, and optical properties of aerosols 2 Room HUB 209A [DISCUSSION TIME 28 min for 12 min slots]

Jim Anderson: *Aerosol and cloud droplet residue composition and size distributions*

David Covert : *Aerosol physics, optics, chemistry*

Tony Clarke: *Aerosol Physiochemical Properties and Dynamics during VOCALS: Advection, Removal and Entrainment*

Cindy Twohy: *Aerosol effects on cloud microphysics*

Yin-Nan Lee: *Chemical composition and sources of coastal marine aerosol particles*

Art Sedlacek: *Aerosol scattering and absorption*

Synthesizer: Lynn Russell

12:10-13:30: LUNCH

(6A) Ocean-atmosphere-land processes 2 Room HUB 310 [DISCUSSION TIME 60 min for 12 min slots]

Robert Weller: *Vocals ocean, air-sea flux*

Chris Fairall: *Air-sea fluxes, cloud microphysics, cloud-aerosol interactions*

Andrew Hind: *Oceanography, marine trace gas production and biology*

Xiaodong Hong: *Two-way coupled ocean-atmosphere interaction in the VOCALS area using COAMPS/NCOM*

Ruiyu Sun: *Modeling of stratocumulus and air-sea interaction*

Teresa Campos: *Gas phase tracer relationships*

Alan Bandy: *Boundary Layer structure and Chemistry*

Byron Blomquist: *Overview of the SO₂ and DMS measurements on the C-130 and R/V Brown*

Rainer Volkamer: *Direct observations of reactive trace gases over the eastern Pacific ocean*

Mingxi Yang: *Direct measurement of the sea-to-air flux of dimethyl sulfide (DMS) on board of R/V Ronald H. Brown.*

Synthesizer: Chris Fairall

(6B) Aerosol-cloud-drizzle interactions Room HUB 209A [DISCUSSION TIME 48 min for 12 min slots]

Peter Daum: *Overview of G-1 measurements*

Bruce Albrecht: *Aerosol-cloud Interactions in coastal marine Sc - Overview of Twin Otter observations*

Xue Zheng: *Aerosol, cloud, drizzle data from Twin Otter flights.*

Dione Rossiter: *Cloud microphysics and drizzle fluxes*

Patrick Chuang: *What controls stratocumulus drizzle and entrainment*

Frederic Burnet: *Fast FSSP measurements*

Larry Kleinmann: *Aerosol size distributions and activation*

Gunnar Senum: *High speed cloud microphysics*

Peter Cook (M): *Examining cloud-scale processes using LEM, comparison with aircraft measurements*

Jefferson Snider: *CCN, Aerosol and Cloud Droplets*

Jorgen Jensen: *Impact of giant aerosols on drizzle formation*

Synthesizer: Patrick Chuang

Tuesday 14th July - Room HUB 310

08:30-08:45: Agency perspectives

[Anne-Marie Schmoltnner, Jin Huang, Ed Dunlea]

08:45-12:15 Summary of breakouts (very short summaries plus discussion, limit of 3 slides)

08:45-09:00 1A
09:00-09:15 1B
09:15-09:30 2A
09:30-09:45 2B
09:45-10:00 3A

10:00-10:30: BREAK

10:30-10:45 3B
10:45-11:00 4A
11:00-11:15 4B
11:15-11:30 5A
11:30-11:45 5B
11:45-12:00 6A
12:00-12:15 6B

12:15-13:45 LUNCH

13:45-15:30 HYPOTHESES DISCUSSION

15:30-16:00: *BREAK*

16:00-16:30 VOCA – The VOCALS model assessment, phase 2

16:30-17:00 GENERAL DISCUSSION, plans for BAMS and summary papers, and WRAP UP

17:00 General Meeting Closes

Wednesday 15th July - Room 406 ATG Building

08:30-12:00 - VOCALS SWG Meeting