# AGENDA

## Quicklook summary of meeting with room numbers

<table>
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<th>Day</th>
<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Preceptor/Abstract</th>
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<tr>
<td>Sunday</td>
<td>09:00-10:00</td>
<td>Sunday 09:00-10:00 Introductory plenary session (JHN 102)</td>
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<tr>
<td>Sunday</td>
<td>10:30-12:20</td>
<td>Breakout (1A) Room JHN 102 Regional Scale Perspective</td>
<td>JHN 175</td>
<td>Breakout (1B) Room JHN 175 Physical, chemical and optical properties of aerosols 1</td>
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<tr>
<td>Sunday</td>
<td>13:30-15:20</td>
<td>Breakout (2A) Room JHN 102 Heavy drizzle and POCS</td>
<td>JHN 175</td>
<td>Breakout (2B) Room JHN 175 Regional scale perspective (microphysical/chemical/aerosol)</td>
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<td>Sunday</td>
<td>15:40-17:20</td>
<td>Breakout (3A) Room JHN 102 Platform and instrument intercomparisons</td>
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<td>Breakout (3B) Room JHN 175 Coupled system and large scale modeling</td>
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<tr>
<td>Monday</td>
<td>08:30-10:20</td>
<td>Breakout (4A) Room HUB 310 Ocean-atmosphere-land processes</td>
<td>HUB 209A</td>
<td>Breakout (4B) Room HUB 209A 20S Cross Section Mission Analysis</td>
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<tr>
<td>Monday</td>
<td>10:40-12:10</td>
<td>Breakout (5A) Room HUB 310 Marine boundary layer structure and dynamics</td>
<td>HUB 209A</td>
<td>Breakout (5B) Room HUB 209A Physical, chemical, and optical properties of aerosols 2</td>
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<tr>
<td>Monday</td>
<td>13:30-17:00</td>
<td>Breakout (6A) Room HUB 310 Ocean-atmosphere-land processes 2</td>
<td>HUB 209A</td>
<td>Breakout (6B) Room HUB 209A Aerosol-cloud-drizzle interactions</td>
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<tr>
<td>Tuesday</td>
<td>08:30-12:15</td>
<td>Plenary session: summary of breakout sessions by synthesizers - Room HUB 310</td>
<td>HUB 310</td>
<td>Discussions and plans - Room HUB 310</td>
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<tr>
<td>Tuesday</td>
<td>13:45-17:00</td>
<td>Discusssions and plans - Room HUB 310</td>
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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
- 09:10-09:30: Review of VOCALS Hypotheses
- 09:30-09:50: Summary of VOCALS-REx operations
- 09:50-10:00: VOCALS Master Archive

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 Krejić: Parasol/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
Leila 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 deSzoeke
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 deSzoeke: 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

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 Schmoltner, 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
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<tr>
<td>15:30-16:00</td>
<td>BREAK</td>
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<tr>
<td>16:00-16:30</td>
<td>VOCA – The VOCALS model assessment, phase 2</td>
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<td>16:30-17:00</td>
<td>GENERAL DISCUSSION, plans for BAMS and summary papers, and WRAP UP</td>
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<td>17:00</td>
<td>General Meeting Closes</td>
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**Wednesday 15th July - Room 406 ATG Building**

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<th>Time</th>
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<tbody>
<tr>
<td>08:30-12:00</td>
<td>VOCALS SWG Meeting</td>
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