

Agenda – Southern Ocean Gas Exchange Experiment PI meeting

<http://www.joss.ucar.edu/joss_psg/meetings/Meetings_2007/GasEx>

Hilton Washington D.C./Silver Spring, 8727 Colesville Road, Silver Spring, MD

Wednesday, September 12, 2007

08:00 Continental Breakfast

08:30 Overview of Meeting: David Ho, LDEO

08:35 Introduction to SO GasEx

David Ho, (LDEO) and Chris Sabine (NOAA/PMEL)

Background, scientific goals, study location, port of call, etc. of SO GasEx

08:55-10:30 Presentations on individual field projects

(Chair: Rik Wanninkhof, NOAA/AOML)

Lead PIs from each individual project will describe what they will do, and how their projects will contribute to the overall goals of SO GasEx; ca. 5 min + 5 min for Q&A

09:00-09:10	Quantifying air-sea gas exchange at high wind speeds using a dual gas tracer ($^3\text{He}/\text{SF}_6$) technique during the Southern Ocean Gas Exchange Experiment, David Ho
09:10-09:20	Southern Ocean air-sea carbon dioxide exchange, Wade McGillis
09:20-09:30	Measurement and parameterization of air-sea gas transfer over the Southern Ocean in GasEx-III, Chris Fairall
09:30-09:40	Measurement and parameterization of air-sea DMS transfer over the Southern Ocean in GasEx-III, Barry Huebert
09:40-09:55	CO ₂ and hydrographic measurements during the GasEx-III Experiment, Dick Feely Measurement of nutrients during the Southern Ocean Gas Exchange Experiment (GasEx III), Jia-Zhong Zhang
09:55-10:05	Quantifying the surface physical controls on CO ₂ transfer during the Southern Ocean Gas Exchange Experiment, Will Drennan

10:05 15 MINUTE BREAK

10:20-11:20 Presentations on individual field projects (cont.)

10:20-10:30	Autonomous multi-parameter measurements from a drifting buoy during the SO GasEx Experiment, Chris Sabine
10:30-10:40	Closing the mixed layer carbon budget during Southern Ocean GasEx, Burke Hales
10:40-10:50	On the distribution of colored dissolved organic matter in the Southern Ocean and the potential for photoproduction of CO ₂ and CO, Carlos del Castillo
10:50-11:10	Phytoplankton absorption and carbon dioxide drawdown in the Southern Ocean: A consortium of observations, Bob Vaillancourt Optical properties in the Southern Ocean: In situ and satellite observations in support of Southern Ocean Carbon Program, ZhongPing Lee Optical properties in the Southern Ocean: In situ measurements of phytoplankton absorption using the pFPT-TR instrument in support of the Southern Ocean Carbon Program, Bruce Hargreaves
11:10-11:20	Differentiating sources of backscattering in the Southern Ocean: Calcite, bubbles, and other optical constituents, Heidi Dierssen

POST CRUISE ACTIVITIES

11:20 Data distribution and archiving for SO GasEx

Dave Glover, Biological and Chemical Oceanography Data Management Office (BCO-DMO)

11:35-12:00 Discussions about post-cruise plans

(Leads: Wade McGillis and David Ho, LDEO; Rapporteur: Burke Hales, Oregon State Univ.)

- Post cruise workshop to present results and establish collaborations
- SO GasEx session at AGU Meeting
- Special journal issue

12:00-13:00 LUNCH

CRUISE LOGISTICS AND SHIPBOARD OPERATIONS

13:00-14:00 Discussions about logistic and shipboard operations

(Leads: Chris Sabine and Dick Feely, NOAA/PMEL; Rapporteur: Mike DeGrandpre, Univ. of Montana)

- Science priorities
- Personnel
- Shipping and loading
- Stationary vs. "lawnmower" survey patterns
- Various deployments and CTD casts
- Water from Niskin rosette
- Other matters

14:00 15 MINUTE BREAK

14:15-15:15 Discussions about logistic and shipboard operations (cont.)

15:15 15 MINUTE BREAK

15:30-17:00 Discussions about logistic and shipboard operations (cont.)

17:00 END MEETING