

FUTURE FIELD STUDIES

FY08/09

ISDAC- *ARM IOP with some contributions from ASP*

Schedule- *4/01- 4/30/08*

VOCALS- *NSF sponsored marine stratus experiment to examine processes in, and properties of marine stratus, off the west coast of South America (Chile-Peru).*

Motivation- *Opportunity to examine effects of aerosols on cloud microphysics in a region that is truly remote, and where clouds will be most sensitive to the effects of anthropogenic aerosols.*

Schedule- *Preparation mainly in FY08, deployment in early FY09; current schedule for the experiment is 10/15-11/15/09.*

PROPOSED FUTURE FIELD STUDIES

FY09-FY11

Solicited proposals for experiments to be conducted FY09-FY11 during the FY07 ASP Meeting

Received the following ‘white papers’-

- ***Carbonaceous Aerosol (CARE) Campaign- Rahul Zaveri et al***
- ***Deep Convective Clouds and Chemistry (DC3)- Steve Ghan***
- ***Ganges Valley Aerosol Experiment (GVAX)- Rao Kotamarthi***
- ***The Biospheric Aerosol Production Experiment (BAP)- Paul Doskey***
- ***Megacity Aerosol Experiments- Larry Kleinman***

FUTURE FIELD STUDIES, CONT'D

- *Time evolution of the optical and chemical properties of smoke from brush and pine forest fires in the relatively dry western USA- Pat Arnott*
- *Winter/Summer Aerosol Composition and Evolution Experiment (WACEE)- Peter Daum et al.*

FUTURE FIELD STUDIES, CONT'D

New Suggestions/White Papers

- *Western Atlantic Tropospheric Aerosol Campaign (WATAC)- Berkowitz*
- *Agricultural Burning Experiment (ABE)- Gaffney*
- *The Midwest Aerosol Production Experiment (MAPEX)- Paul Doskey*
- *Ganges Valley Aerosol Experiment: Update- Rao Kotamarthi*
- *Carbonaceous Aerosol and Radiative Effects Study (CARES)- Rahul Zaveri et al*

RECOMMENDATIONS

White papers considered in Spring 07 and the following recommendations were made to the Implementation Team-

- Do no more cloud focused experiments until FY11 or FY12. (Because clouds will have been the focus of ASP studies for 3 of the last 4 years- MASE, CHAPS, VOCALS, and the clear-air aerosol community needs to be served.)*
- Exploration of the possibility of conducting major studies abroad (Megacities-II, Ganges Valley Study) should continue. But due to complexities of planning such studies, and the need to attract partners it is unlikely that these studies will be conducted within the next 3-years.*

RECOMMENDATIONS CONT'D

•Recommend that CARE, WACEE, and BAP be combined into a single sequence of experiments that would be conducted in FY09 and FY10, or FY10 and FY11 depending on budget. Season and location to be negotiated by proponents of the various studies.

CARE and WACEE have very similar objectives. Both focus on developing an understanding SOA formation and the relative importance of biogenic vs anthropogenic aerosol precursors. Both propose measurements in contrasting environments. CARE varies location, WACEE places more emphasis on winter/summer contrast. Objectives of BAP were considered to be a subset of the objectives of CARE and WACEE that could easily be subsumed by either study.

•Noted that there is a need to conduct a biomass-burn experiment either in the plume from a controlled burn, or from a natural wildfire. Target of opportunity, or a planned experiment?

OBJECTIVE FOR THIS MEETING

- *Hear and discuss proposals for additional Field Studies that have come in since the last meeting.*
- *Decide how to proceed to choose times and locations and themes for studies that will be conducted in FY09-FY11.*