

FIRST SCIENCE MEETING

Boulder, 23-25 October 2006



CONTRIBUTIONS FROM MILAGRO

➤ **to Society**

- Inform policy-makers about sources, status and trends, and impacts of air pollution
- Educate public and students about environmental problems

➤ **to Science**

- Improve understanding of transformation processes and transport
- Test and improve predictive models

➤ **to Technology**

- Intercomparison and QA of instruments
- Evaluate satellite capabilities and limitations

SCIENCE THEMES

Emissions including Mexico City, other cities, industry, fires, natural

Urban and suburban chemistry including relative importance of NO_x, VOCs, and h_v, gas-aerosol interactions

Regional chemistry, including formation of regional oxidants, fate of hydrocarbon oxidation products, NO_y partitioning

Aerosol chemistry and microphysics, including formation of SOA and other aerosols, evolution from urban to regional and global scales, surface transformations, health effects

Radiation in polluted environments, including aerosol optical properties and direct radiative effects, vertical profiles of spectral radiation, comparisons to satellite observations

Meteorology and transport, including local circulation, PBL, long range transport, 3d chemistry-transport models

PRELIMINARY DATA - STATUS

C-130, DC-8, J-31, and King-Air on NASA archive:

<http://www-air.larc.nasa.gov/cgi-bin/arcstat-b>

G-1 on DOE archive:

<ftp://ftp.asd.bnl.gov/pub/ASP%20Field%20Programs/2006MAXMex>

Surface-based measurements and Twin Otter: NCAR CDP
about 1700 files uploaded, but far from complete

<http://cdp.ucar.edu>

Poorly documented data are less likely to be used!!

OBJECTIVES OF THIS MEETING

- Summaries of MILAGRO Intensive Observational Period (March 2006) – **today's talks**
- Preliminary results from individual research groups ~ **125 posters**
- Identify significant findings, opportunities for collaborations, publications – **breakouts tomorrow**
- Next steps (collaborations, publications, meetings) – **Wednesday morning**

HOUSE-KEEPING

➤ Posters

- Ground floor, grouped according to breakouts
- Set up today during morning break or lunch
- Remove tomorrow after 5:30pm
- Reception in poster area
- Dedicated viewing time today 4:45-5:30pm, good to have one of authors at poster

➤ Wireless access available

- no username or password required

➤ Breakfast coupons for restaurant downstairs

➤ Questions/problems?

- Melanie Whitmire, Jill Reisdorf, Ruth Joel

MONDAY - schedule

chair: Lynn Russell

8:50-9:20 Overview of met situation during March 06 (Jerome Fast)

9:20-9:40 DC-8 summary (Hanwant Singh)

9:40-10:05 C-130 summary (Frank Flocke)

10:05-10:30 G1 summary (Larry Kleinman)

10:30-11:00 break/set up posters (Century and Millennium Rooms)

chair: Elliot Atlas

11:00-11:15 J31 summary (Phil Russell)

11:15-11:30 King Air summary (Chris Hostetler)

11:30-11:45 Twin Otter summary /fires (Bob Yokelson)

11:45-12:15 Aircraft intercomparisons (Gao Chen)

12:15-1:30 set up posters/Lunch (on your own)

chair: Rafael Ramos

1:30-1:45 Overview of urban measurements (Luisa Molina)

1:45-1:55 Tenango del Aire site (Gerardo Ruiz)

1:55-2:05 Mobile units (Ana Patricia Martinez)

2:05-2:20 Mobile lab (Chuck Kolb)

2:20-2:40 T0 supersite (Jeff Gaffney)

2:40-3:00 T1 supersite (Alex Guenther)

3:00-3:30 break/poster viewing (Century and Millennium Rooms)

chair: Steve Schwartz

3:30-3:45 T2 supersite (Chris Doran)

3:45-4:00 Satellite data availability (Louisa Emmons)

4:00-4:30 Regional and global modeling needs from MILAGRO (Steve Ghan)

4:30-4:45 Charge to breakouts (Sasha Madronich)

4:45-5:30 posters

5:30-7:30 reception/posters (Century and Millennium Rooms)