

# EPA/NASA/NOAA Joint Planning Workshop

Transport Subgroup

RTP,NC

16 September 2004

# Action Items

Short Term

Medium Term

Long Term



EPA

\*Emissions

-get emissions together with sat data

Constrain emissions

Process analysis

Evaluate uncertainties

\*Policy Analysis/AQ Modelers

Assess Model sensitivity to these data

Use of RS data for IC, BC in policy sims

\*Clear Articulation of EPA interests, needs relative to mission/goals

NASA, NOAA

\*Provide guidance on use of this data by state/local/other fed AQ planners/policymakers

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Demonstrate sees troposphere- show this data is “there” for “these” purposes

Demonstrate the policy relevance of this data

Separate signals of local vs transport

Track these signals over time

Develop Center for data analysis product distribution (IDEA idea) keeping in mind the range of purposes

Explore use of simple methods of combining data sources (such as statistical methods)

Extrapolate to fill in gaps

Develop chemical climatologies (especially around transport events at various scales)

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## Articulate the AQ interests in these tradeoffs

Vertical Resolution

Horizontal Resolution

Greater Time Resolution (season to season, day to day, hour to hour, ?)

Chemical species of interest (current suite, VOC, NH<sub>3</sub>)

Method Development

Accuracy evaluation

-same time same place measurements

-high vertical resolution (smog chasers, lidar, other?)

Methods for assessing visibility remotely (especially at class I areas)

Forecast Data

-Assess/Incorporate/Archive

-Analysis (process diagnosis, reanalysis data set?, climatology development, policy accountability)

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Expand the presence of AQ people at the table for mission design

Expand and solidify linkages between AQ people and data providers + data analysts

## Planning for AQ measurements

- Ongoing articulation of policy relevant needs and context (EPA)
- Need for NASA Earth Sciences research and development (as only NASA can)
- Need for operational platforms for routine long term monitoring of known quantities now (as only NOAA can)

Full Suite of Measurements – see existing planning/vision documents + needs for organics, PM, smog chasers, vertical resolution)

- time,
- space {horizontal, vertical},
- species