

Update on Modeling/Risk

MATES III Technical Advisory Group Meeting

September 2, 2004

Regional Modeling Update

- Unified Modeling Approach
 - > MATES III (2005)
 - > Ozone & PM2.5 AQMP (2006-7)
- Enhanced Data Acquisition
 - > Contractor provided meteorological fields
 - > MATES II speciated particulate data

Model Selection

- Primary: UAMTOX
 - > Consistent with MATES II
 - > Expanded 2 km² Domain
30 km north & 30 km west
 - > Updated meteorology
- Evaluate CAMx as an alternative
- Point Source Modeling – ISCST3

Aerospace Corp. Contract

- Provide daily MM5 and data initialization files for 1-year period through Winter 2005
- Incorporate satellite imagery for initialization
- Use USAF 3-DVAR software for data ingestion
- Dynamic initialization for 24hour prognostic simulation

SCAQMD Meteorological Modeling

- CALMET
 - > Base observational data (routinely acquired)
 - > Use of 3-DVAR data
- MM5 Aerospace NCEP and 3-DVAR prognostic fields
- SCAQMD MM5 with selected data subsets for 4-dimensional data assimilation

Status

- Field Program ongoing
- Preliminary emissions being tested
- Processing objective CALMET fields
- Test runs selected months of UAMTOX this month
- Running “historical” version of MM5
- Disc space and CPU at a premium