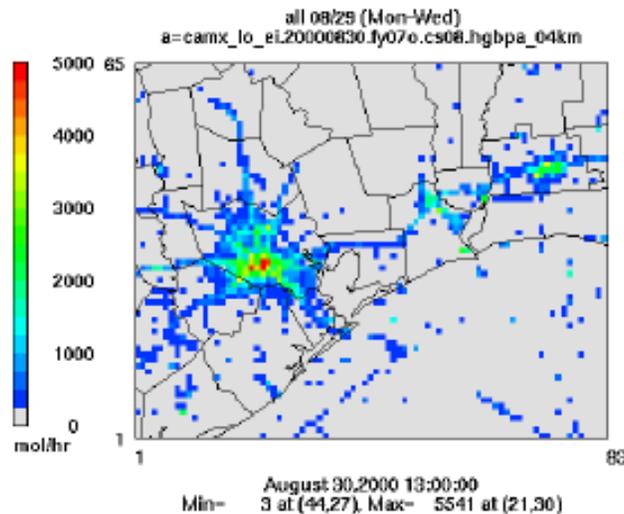
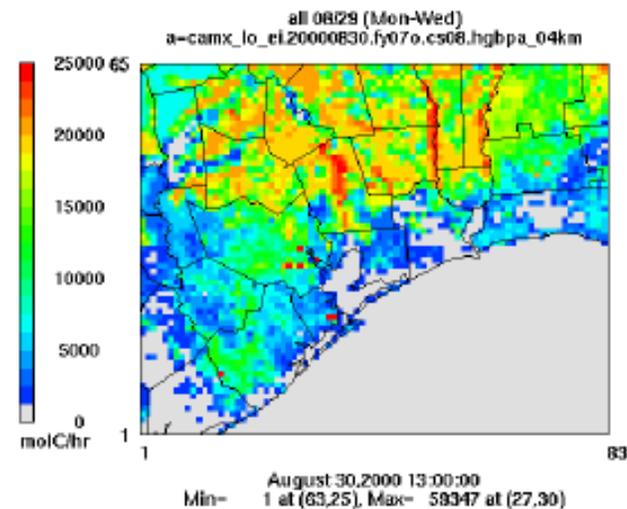


BASE CASE EMISSION INVENTORIES OF OZONE PRECURSORS FOR USE IN THE SECOND TEXAS AIR QUALITY STUDY (TexAQS-II)

Hourly NOx Emission



Hourly VOC Emission



TexAQS II Base Case Inventory

- **IS** intended to serve as a common information resource and starting point for data analyses and modeling
- **IS NOT** intended to be the definitive inventory or the most appropriate inventory for all users

APPROACH

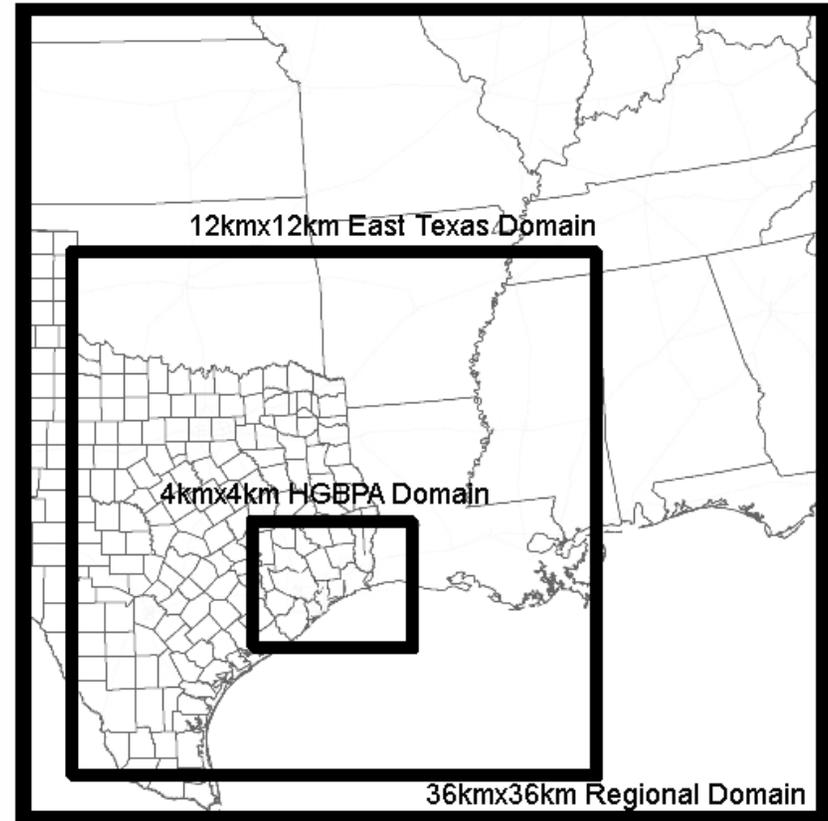
- Use existing emission inventories to assemble a comprehensive, well-documented inventory that represents, as closely as possible, expected conditions in August-September 2006
- Archive electronic files and documentation
- Distribute (by ftp site or for cost of media) to all interested parties

Structure

- Emission Inventory to be developed in two parts:
 - Ozone precursors
 - PM and PM precursors
- Draft documentation and electronic data files currently available for ozone precursors for users willing to test file structure and format

Data files

- Pre-merged, model ready files for biogenic, point, on-road, and non-road/area sources using CB-IV species
- Files for typical weekday, Friday, Saturday and Sunday/holiday
- Access database identifying compositions of negu point sources
- Supplementary inventories (e.g., anthropogenic chlorine emissions)



Documentation

- Summary report (~50-60 pages)
- Supporting information drawn from SIP, contractor reports, peer-reviewed literature, and other sources (~500-1000 pages)
- Documentation and updates to be posted at www.utexas.edu/research/ceer
- Data files available at ftp site (password protected?)

Summary of Major Issues for Ozone Precursor EI

- Most emission inventory elements are drawn from an inventory used in developing air quality regulations used to meet the NAAQS for ozone (1-hour avg.) in Houston by 2007 (the 2007 attainment demonstration inventory), but not all of the controls are in place (especially HRVOC)
- Trading programs may redistribute emissions
- Some updates to landcovers for estimating emissions (especially biogenics) may become available before the intensive
- Diurnal patterns of EGU emissions, emission events and process measurements of VOC emissions (e.g., from flares) will need to be included separately
- Should detailed speciation of point sources include all species or just those defined as VOCs?

Next steps

- Respond to comments on ozone precursor inventory, specifically:
 - File formats
 - Clarifications to and additions to documentation
- Prepare PM and PM precursor inventory (mid- to late May)
- Distribute inventory to community