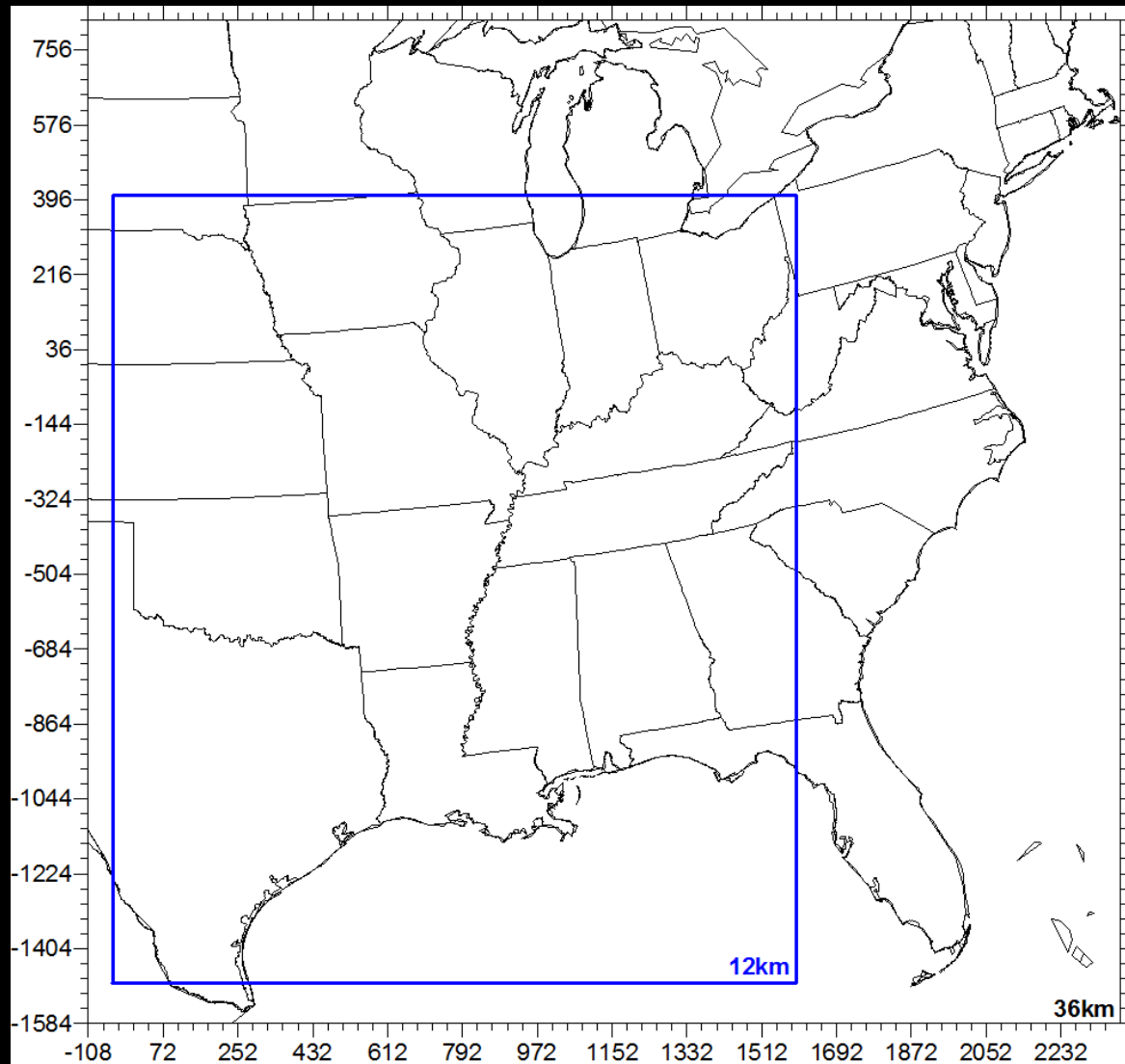


Update on 2002 Seasonal Modeling (May – September)

This project was initiated during FY 06/07 with the submission of a modeling protocol to COV and TCEQ. In addition, ENVIRON began technical work on updates to the emissions inventory.

Status of FY 08/09 Activities:

- An expanded 12-km grid domain was finalized to support long-range transport studies that impact ozone in Victoria.



Victoria CAMx Domains

36km: 69 x 67 (-108, -1584) to (2376, 828)

*12km: 137 x 158 (-48, -1488) to (1596, 408)

* includes CAMx buffer cells

Update on 2002 Seasonal Modeling (May – September)

Status of FY 08/09 Activities (continued):

- ENVIRON has completed and provided to UT (Feb 2009) an updated emissions inventory.
 - Includes all anthropogenic and biogenic emission sources
- ENVIRON has reprocessed the MM5 meteorological data for the expanded 12-km grid domain and provided data to UT (Feb 2009).
- UT is currently processing the emissions and meteorological data to generate CAMx-ready input files.

Update on 2002 Seasonal Modeling (May – September)

Next steps:

Develop base case simulation

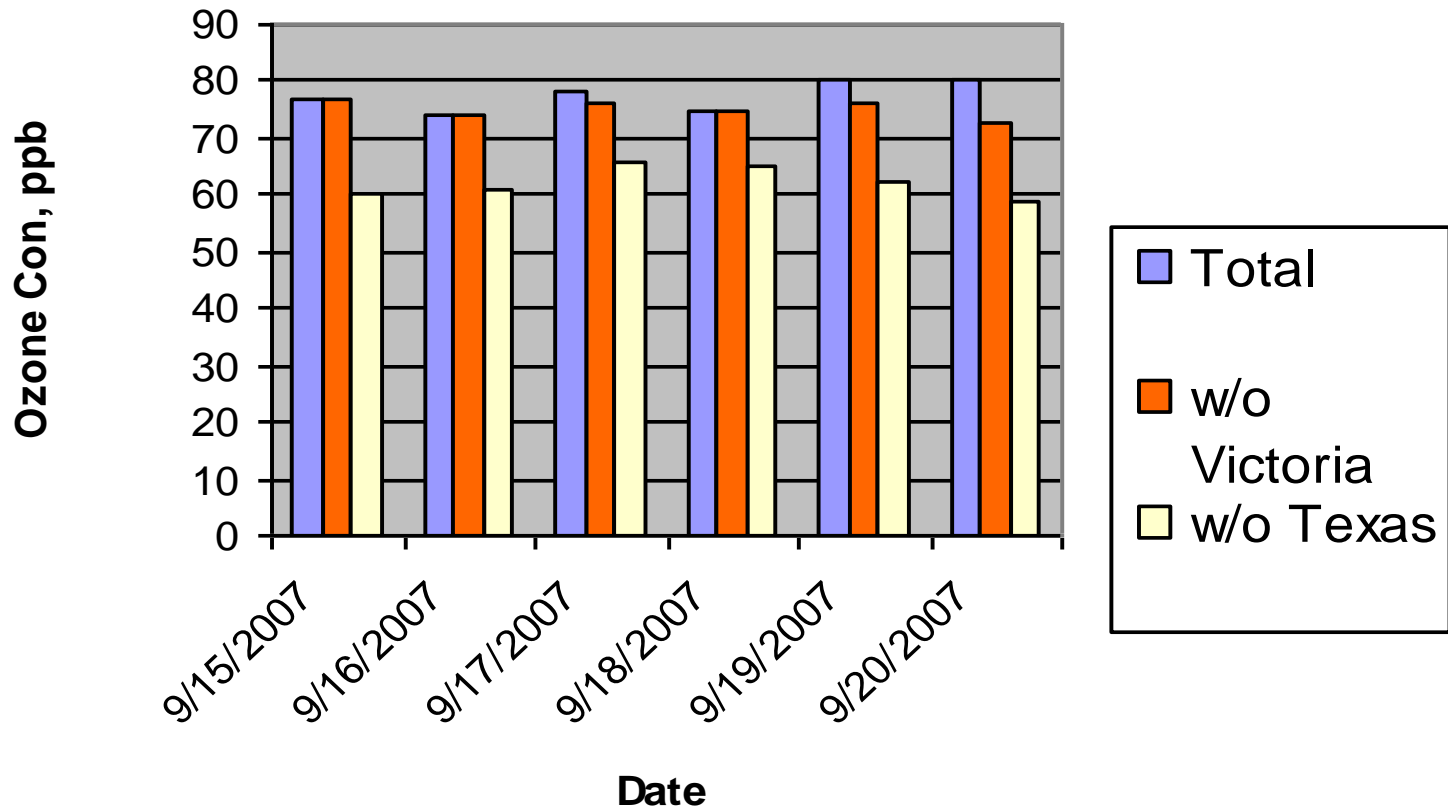
Model performance evaluation

- Standard 1-hour metrics
- Standard 8-hour metrics
- Seasonal metrics developed by UT

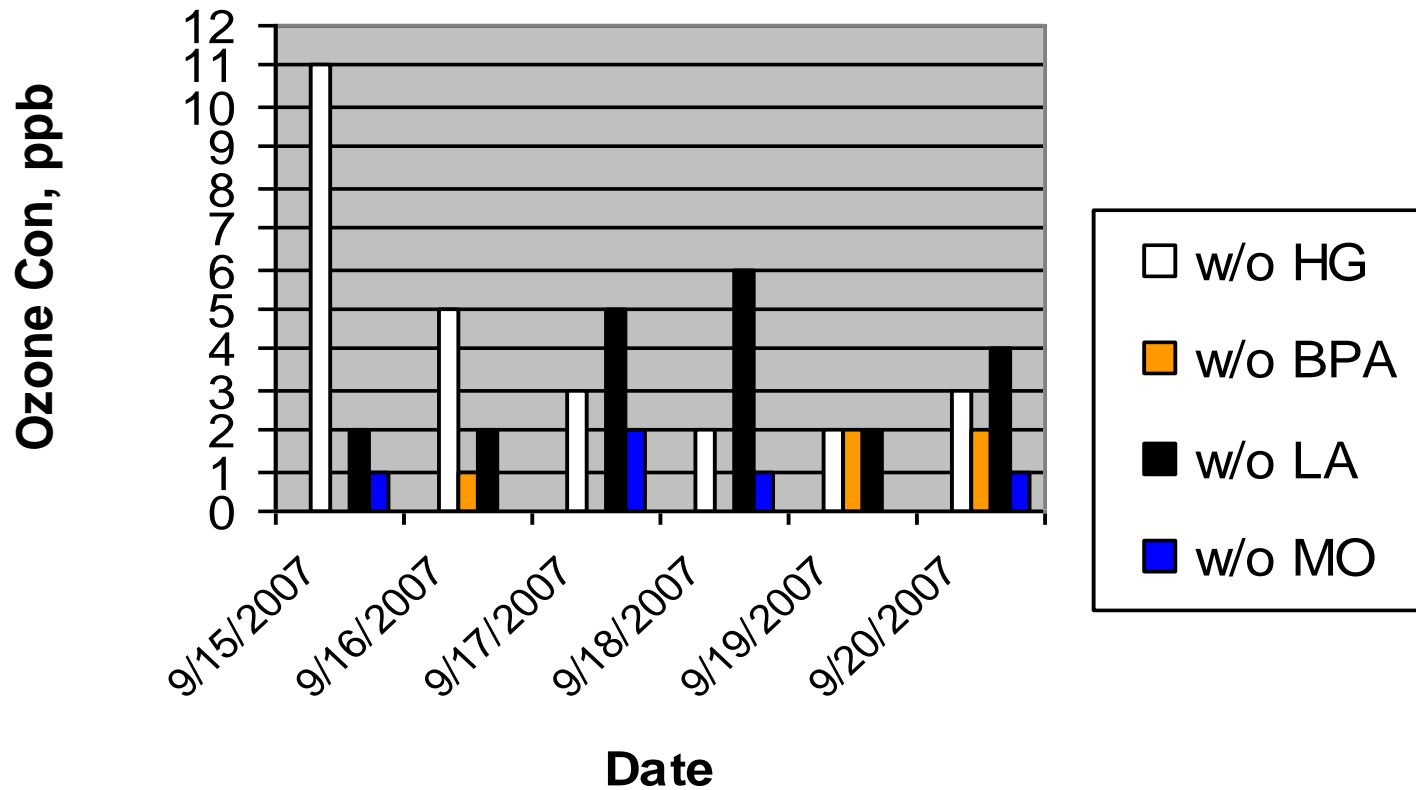
Transport analyses

- Transport analysis will be similar to geographical analyses performed with APCA in the past.
- Example results (previous analyses) next slides:

Transport into Victoria, Maximum 8-Hour Ozone Sep 1999 Episode



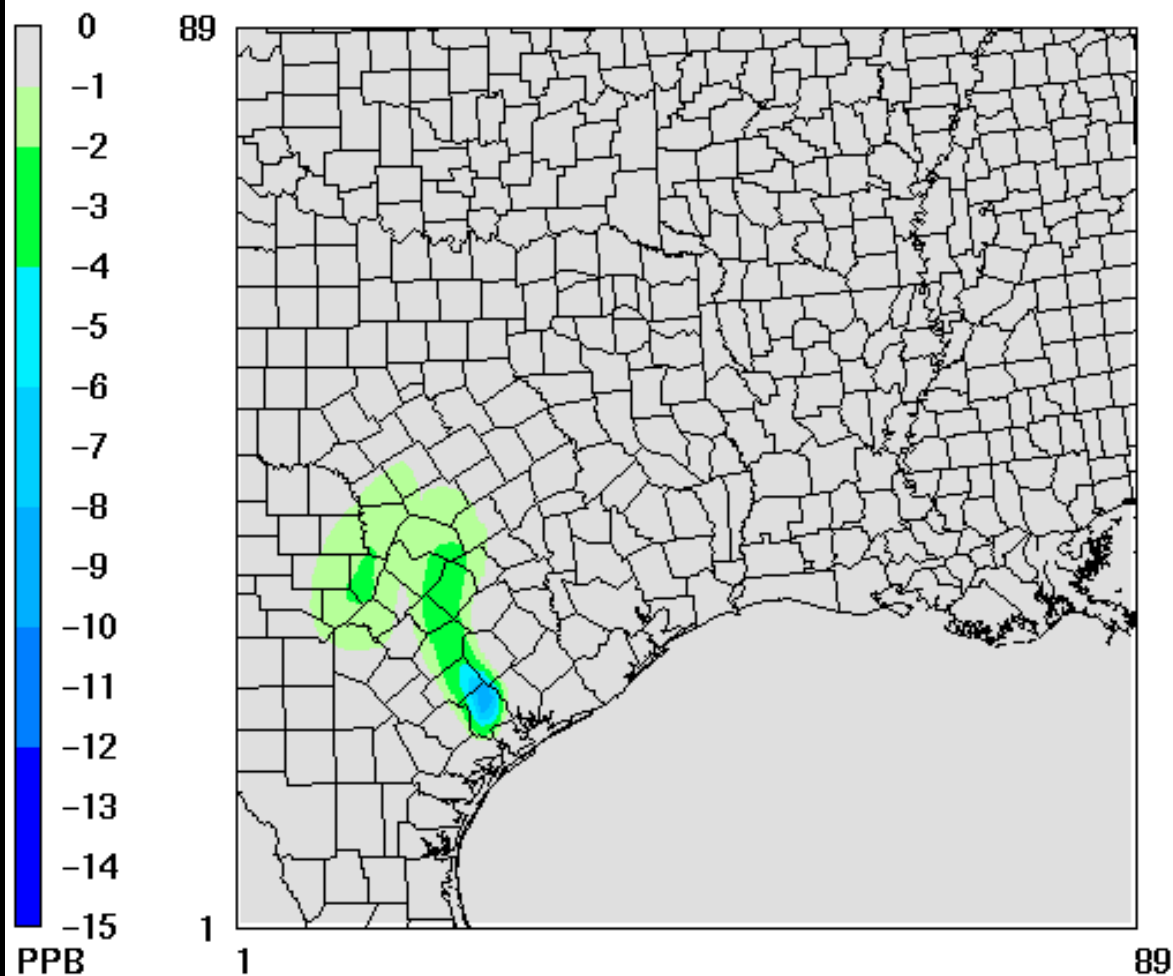
Transport into Victoria, Differences in Maximum 8-Hour Ozone Sep 1999 Episode



Maximum APCA Contributions for VIC, September 19, 2007

8-hr Ozone Concentrations

a=fine1.apca1.070919.03.eight

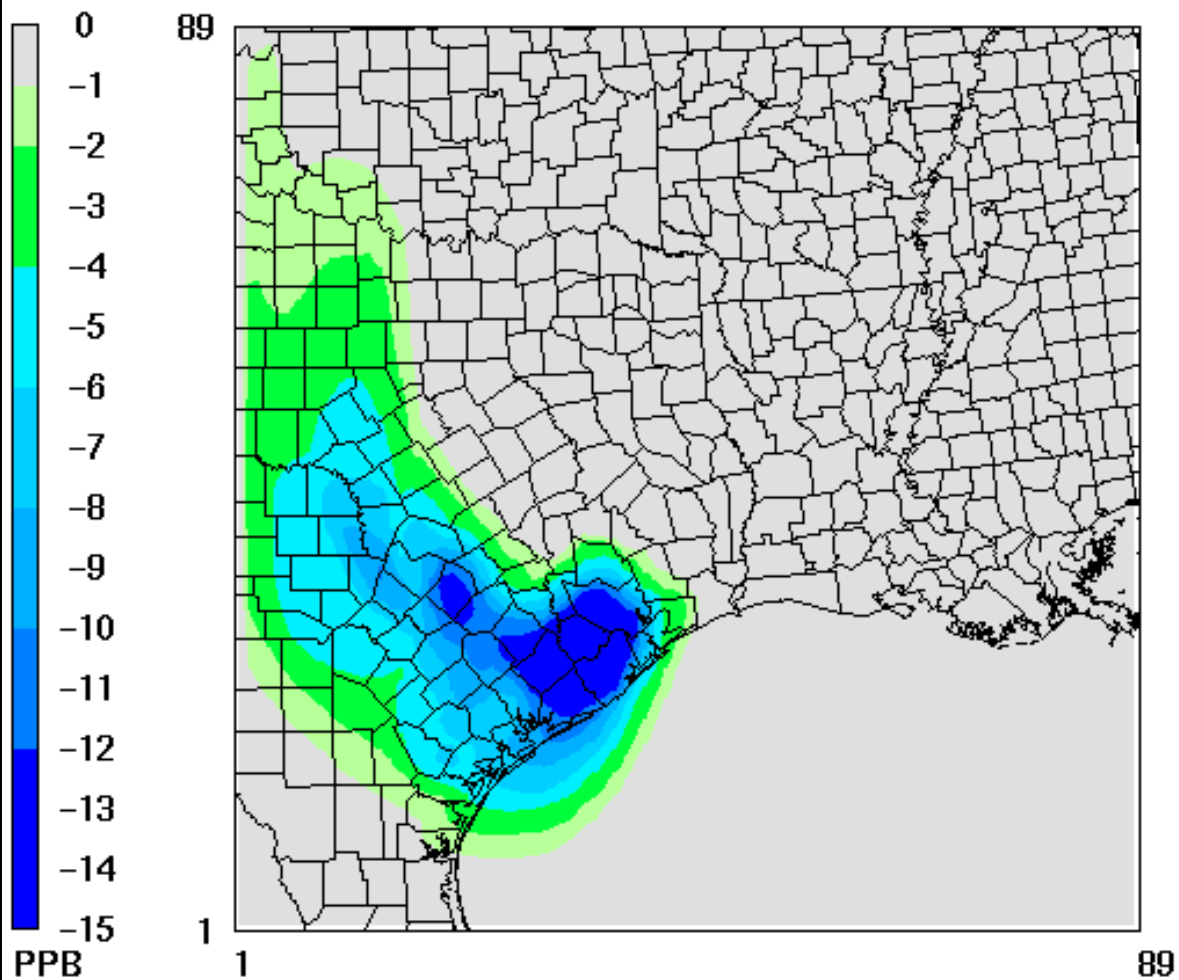


September 19, 1999 0:00:00
Min= -10 at (25,24), Max= 0 at (1,1)

Maximum APCA Contributions for HGA, September 18, 2007

8-hr Ozone Concentrations

a=fine1.apca1.070918.03.eight

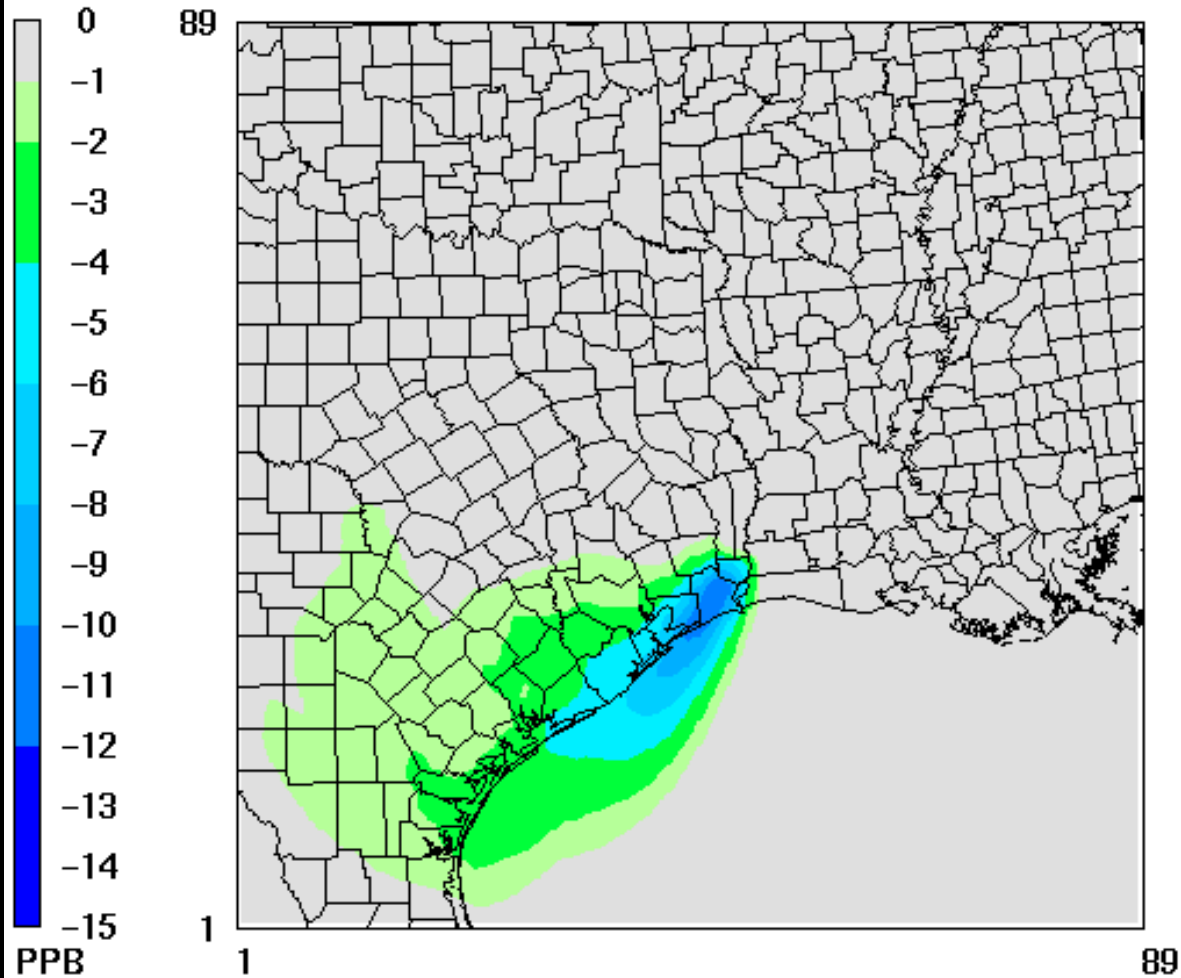


September 18, 1999 0:00:00
Min= -24 at (36,29), Max= 0 at (1,1)

Maximum APCA Contributions for BPA, September 18, 2007

8-hr Ozone Concentrations

a=fine1.apca1.070918.03.eight

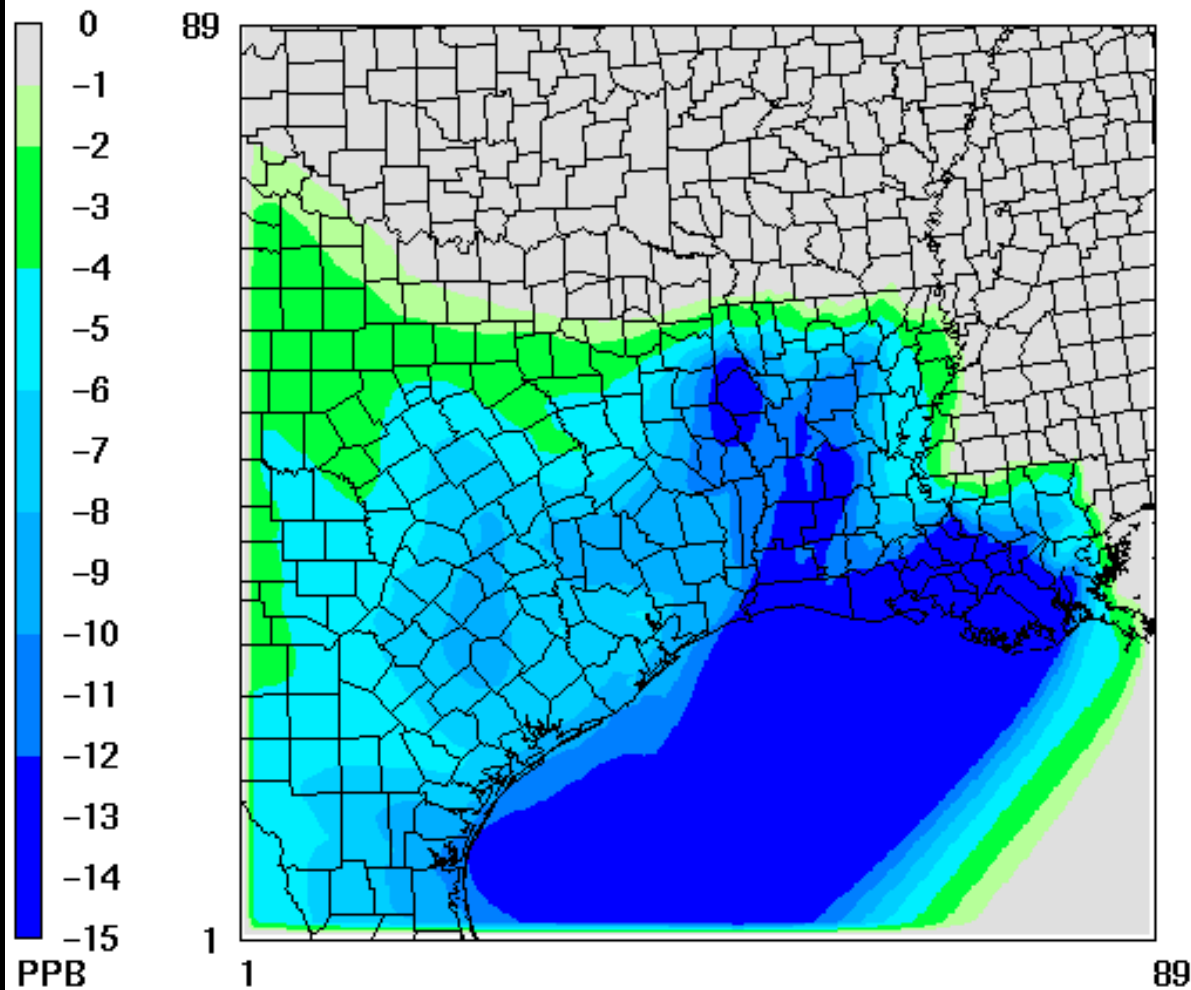


September 18, 1999 0:00:00
Min= -12 at (47,32), Max= 0 at (1,1)

Maximum APCA Contributions for LA, September 17, 2007

8-hr Ozone Concentrations

a=fine1.apca1.070917.O3.eight

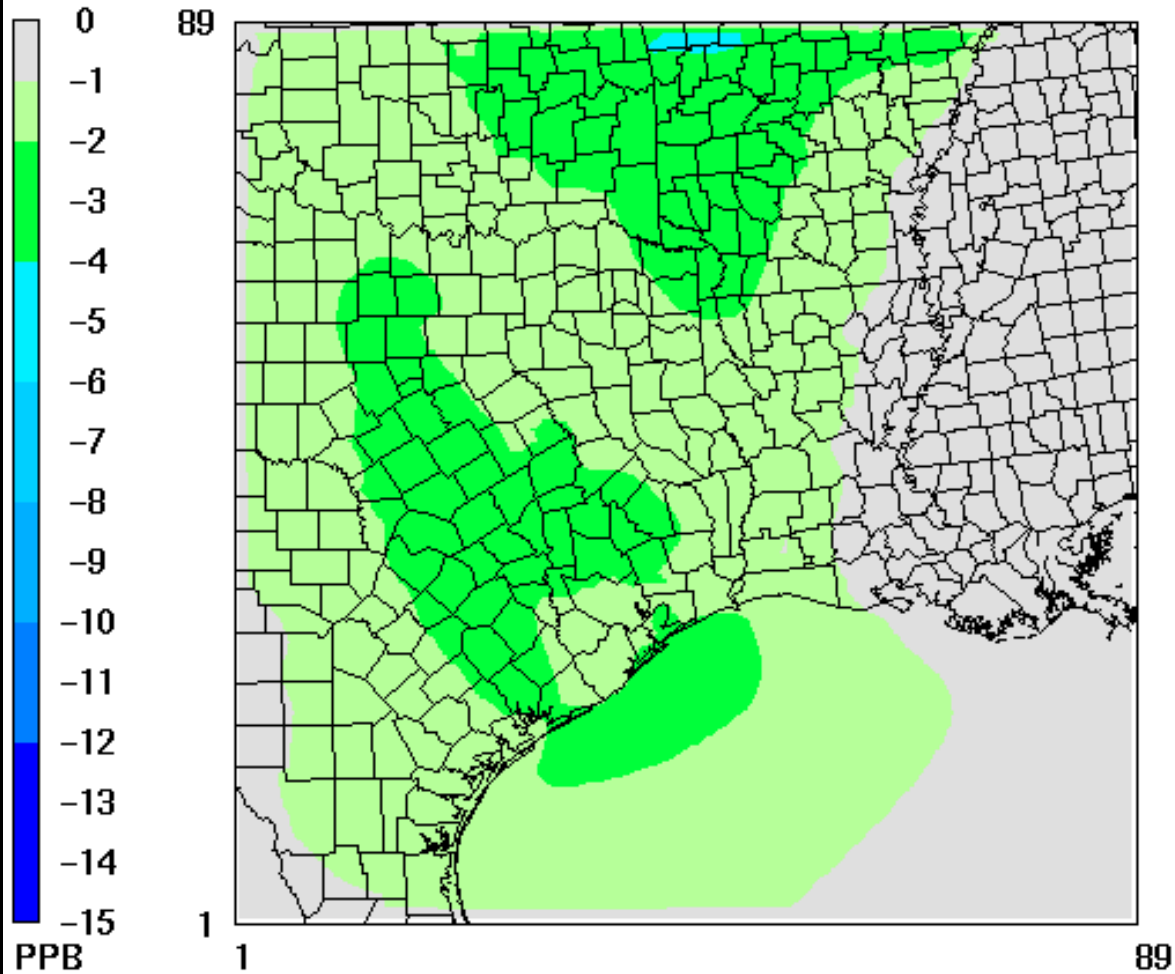


September 17, 1999 0:00:00
Min= -27 at (69,31), Max= 0 at (1,1)

Maximum APCA Contributions for MO, September 17, 2007

8-hr Ozone Concentrations

a=fine1.apca1.070917.03.eight



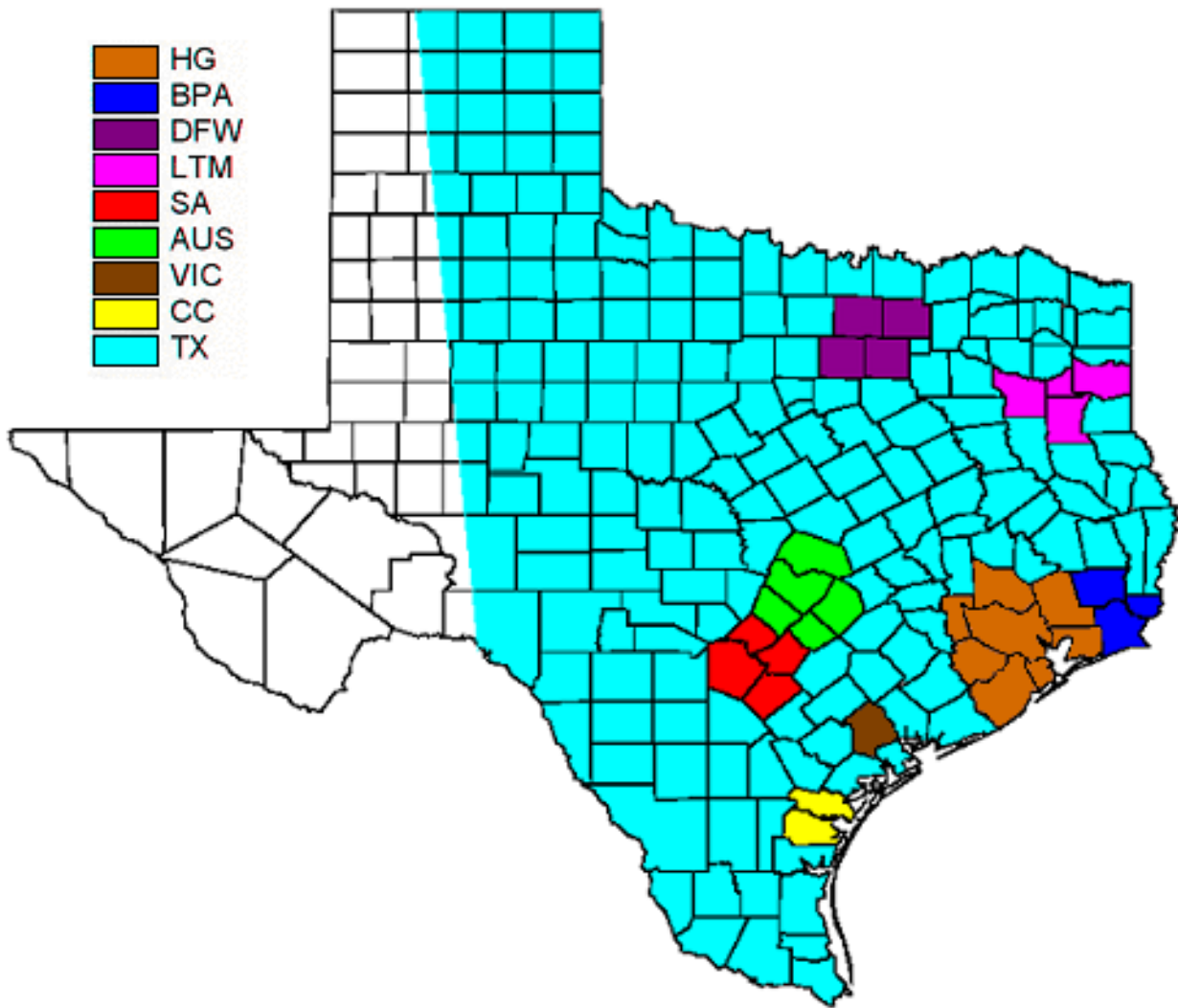
September 17, 1999 0:00:00
Min= -4 at (46,87), Max= 0 at (1,1)

Update on 2002 Seasonal Modeling (May – September)

Transport analyses with APCA – apportion sources geographically by:

- State
- Within Texas
 - NA
 - NNA
 - remainder of state
- Source categories - NO_x and HC by
 - Point
 - Area
 - On-road mobile
 - Non-road mobile

- HG
- BPA
- DFW
- LTM
- SA
- AUS
- VIC
- CC
- TX



Update on 2002 Seasonal Modeling (May – September)

Transport analyses with APCA – apportion sources in Texas by source type:

- Power plants
- Chemical plants
- Cement plants
- Oil and gas production/treating
- Heavy duty diesel trucks and diesel construction equipment

Questions?