

Ozone Impacts of Reducing NO_x Emissions from Gas Compressors

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ENVIRON

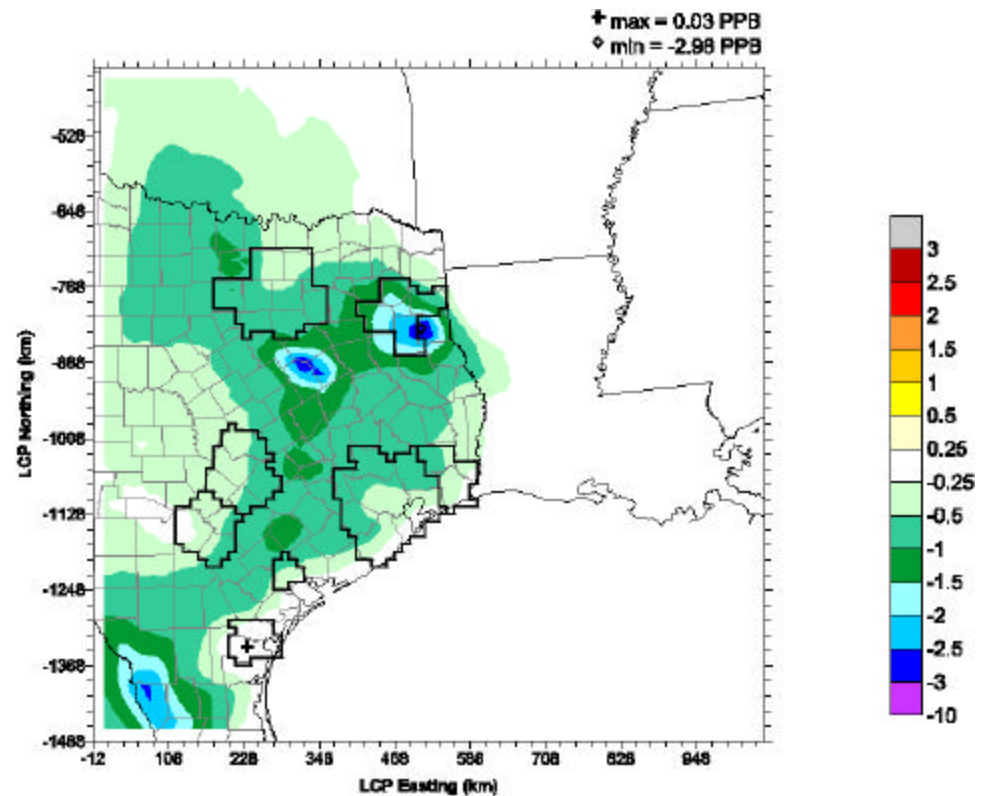
April 25, 2006

Gas Compressor Emissions

- The “area source” NO_x emission inventory for the oil & gas sector is dominated by gas compressors
 - Large compressors are in the point source inventory
 - NETAC has demonstrated that emissions from uncontrolled, rich-burn, 4-cycle engines can be reduced by ~95%
 - Not all engines are uncontrolled, of this type, or would be reached by controls
- Model the impact of a 50% NO_x reduction for the oil & gas sector in 2009

DFW SIP Model for 1999

- NETAC modeled the same period for the Early Action Compact
- Average daily max 8-hr ozone in Northeast Texas reduced up to 3 ppb

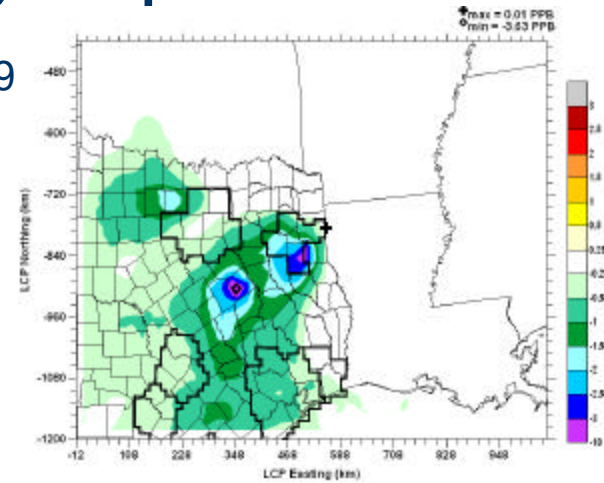


Change in 2009 Episode Average Daily Max 8-hr Ozone

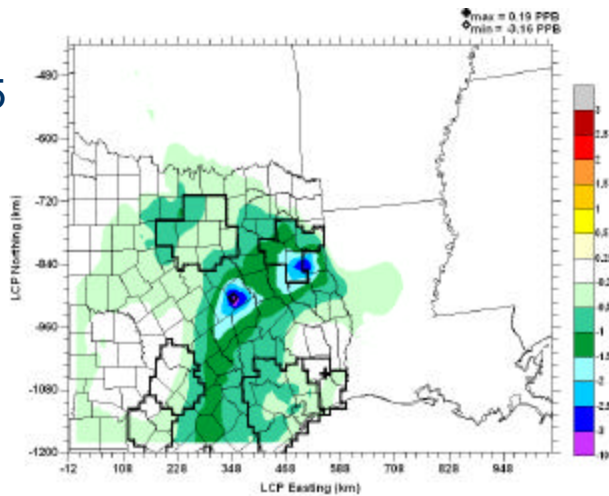
Three Periods from Aug/Sept 2002

Average daily max 8-hr ozone in Northeast Texas reduced up to 3 ppb

8/03 to 8/09



9/11 to 9/15



8/28 to 8/31

