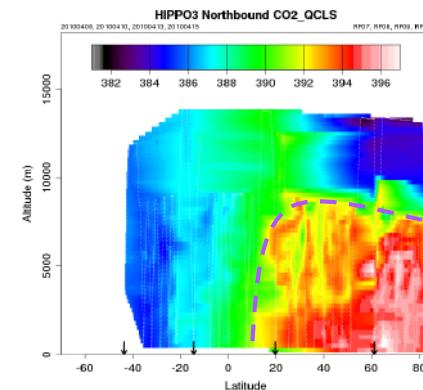


HIPPO defines the boundary between that part of the atmosphere that is directly influenced by the seasonal component of northern CO₂ exchange, and that part which is not.

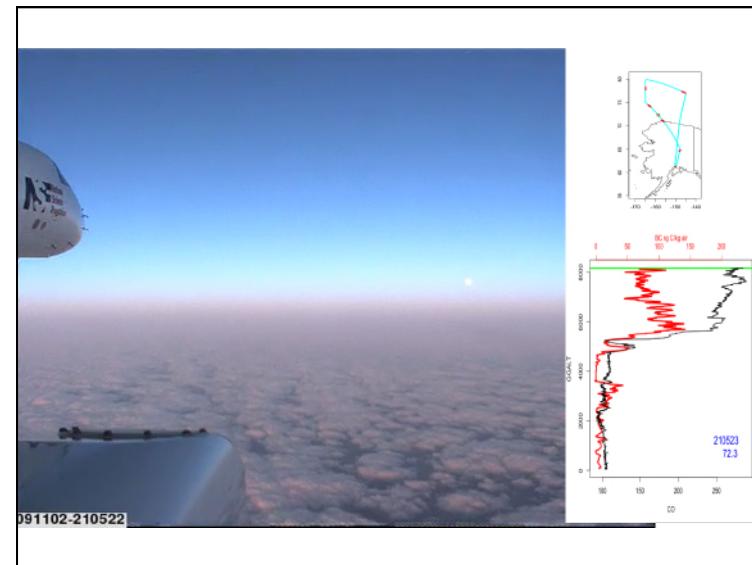


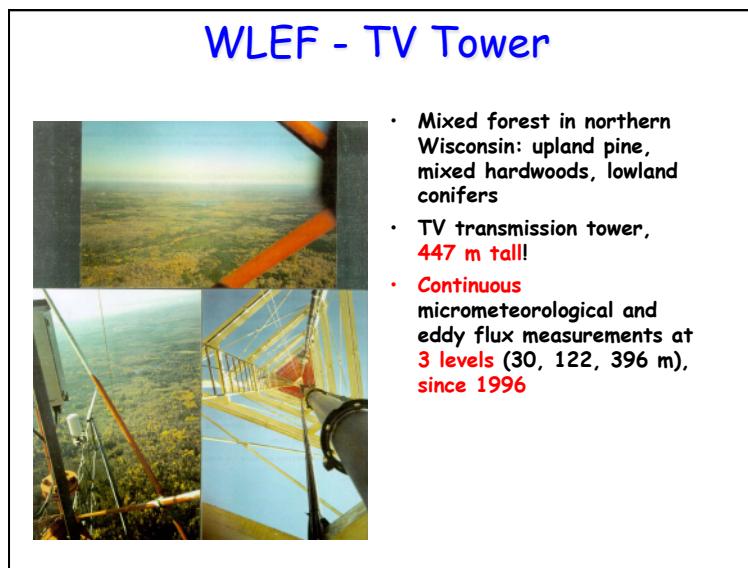
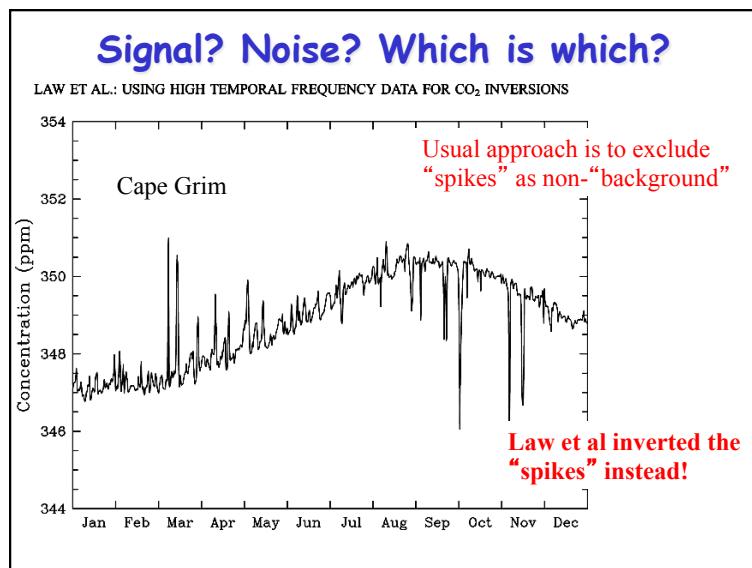
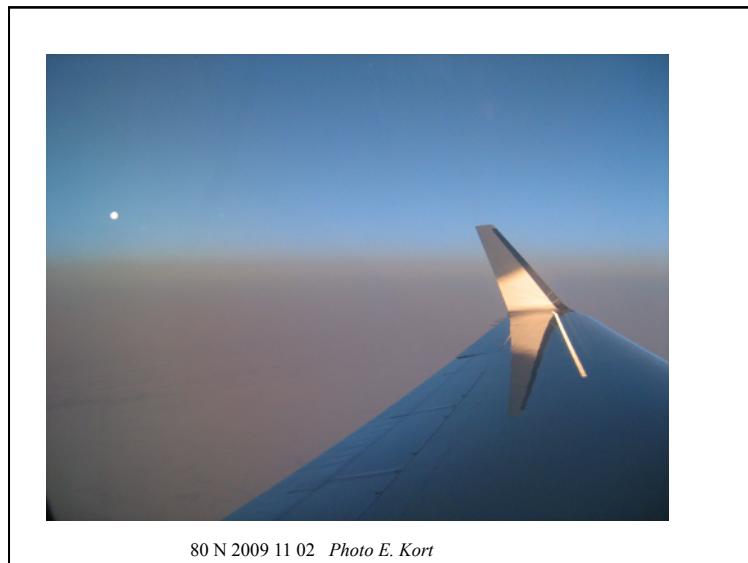
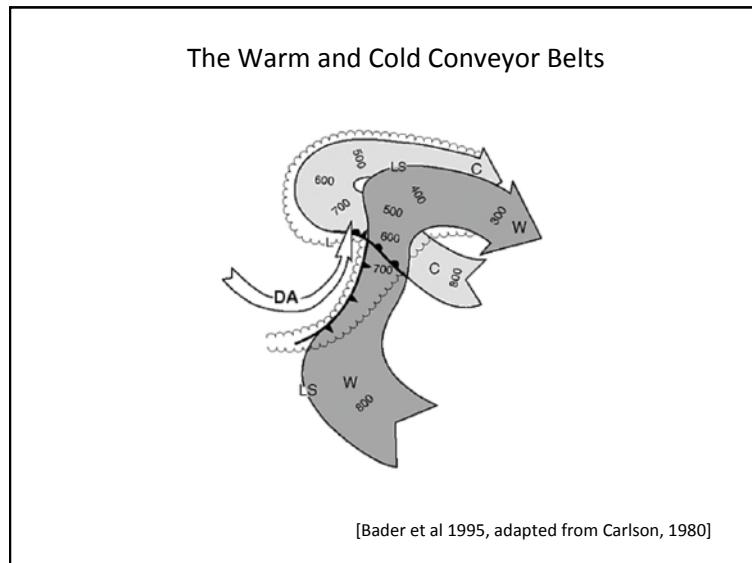
April, 2010

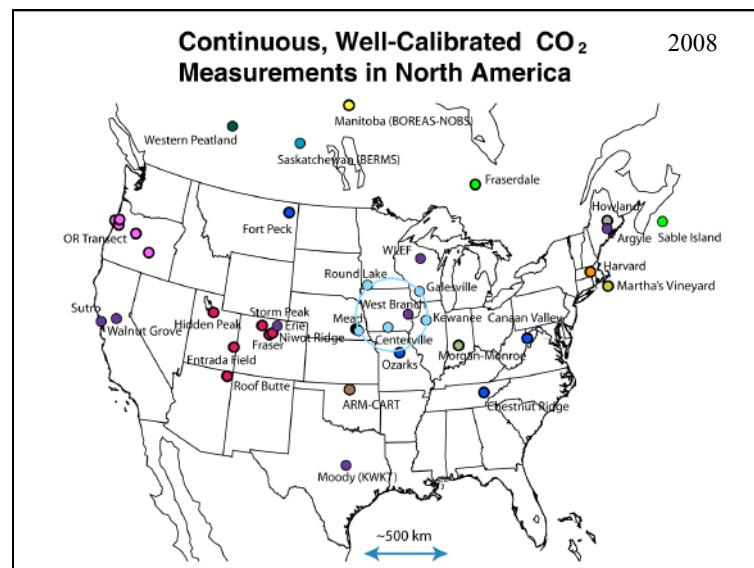
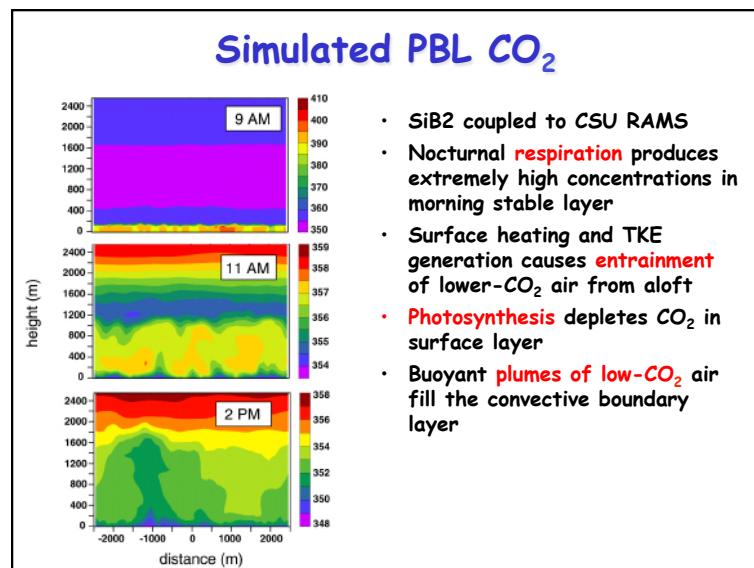
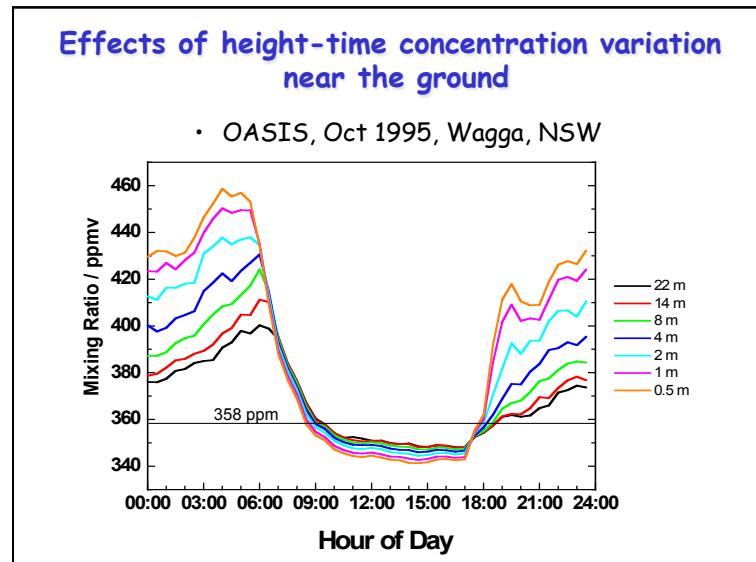
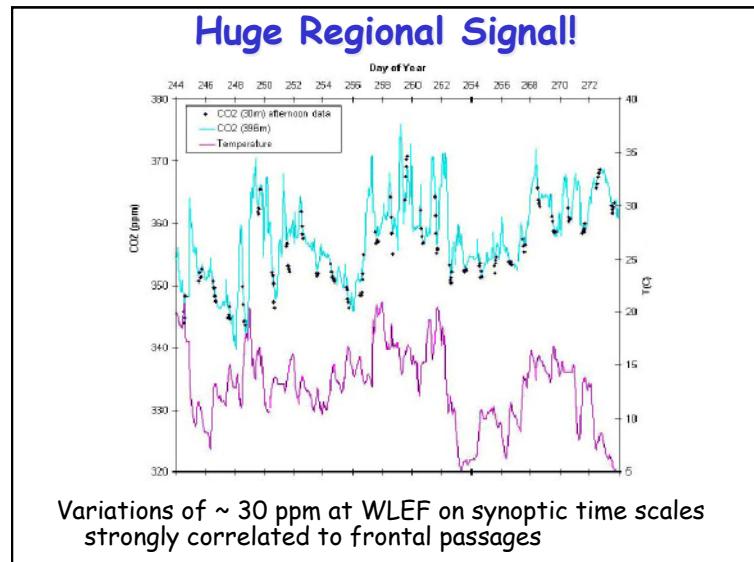
HIPPO Arctic Pollution

Pollution in the upper troposphere of the Arctic

...a fall/winter transition phenomenon







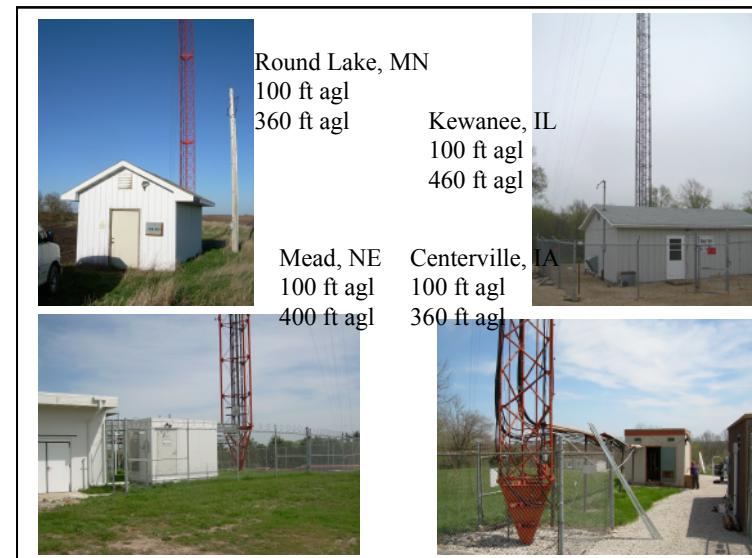
"Ring 2": High-precision, high-accuracy CO₂ mixing ratio measurements in support of the NACP Mid Continent Intensive

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RING 2

PICARRO



Cavity Ring-Down Spectroscopy

- Picarro, Inc. has developed an ultra-sensitive trace gas (CO₂, methane, CO) monitoring system. Advantages include:
 - High precision and accuracy
long-term stability: days to weeks
1.5-sec sample precision and accuracy of \leq 0.2 ppm and in tests
 - Measurement rate in seconds rather than minutes
 - No drying is required; water vapor is measured and correction to CO₂ is applied
 - Stable and robust long-term measurement

PICARRO

