



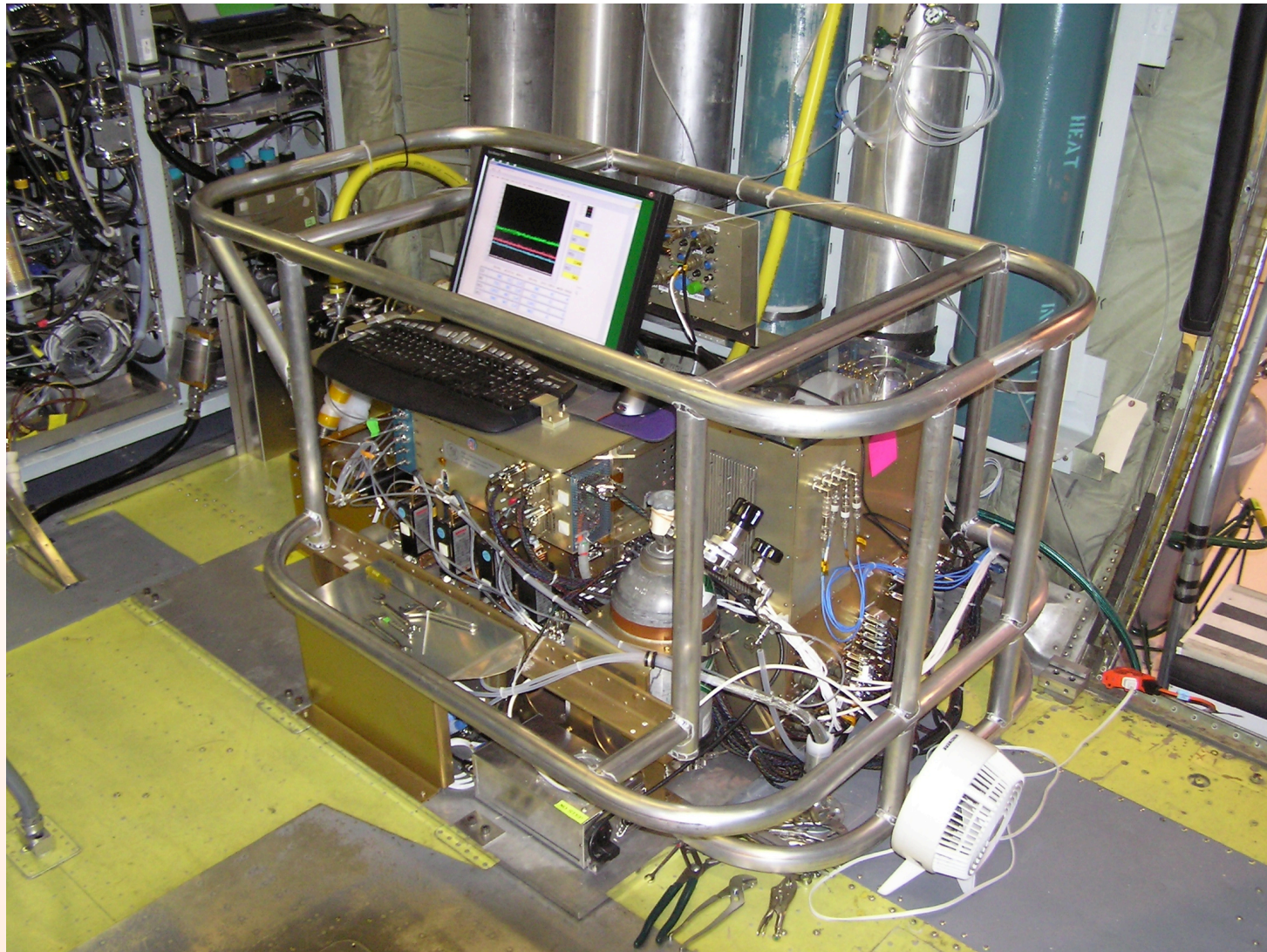
NCAR / ACCORD

In situ NO, NO₂, (NO_y), and O₃

NCAR Earth System Laboratory

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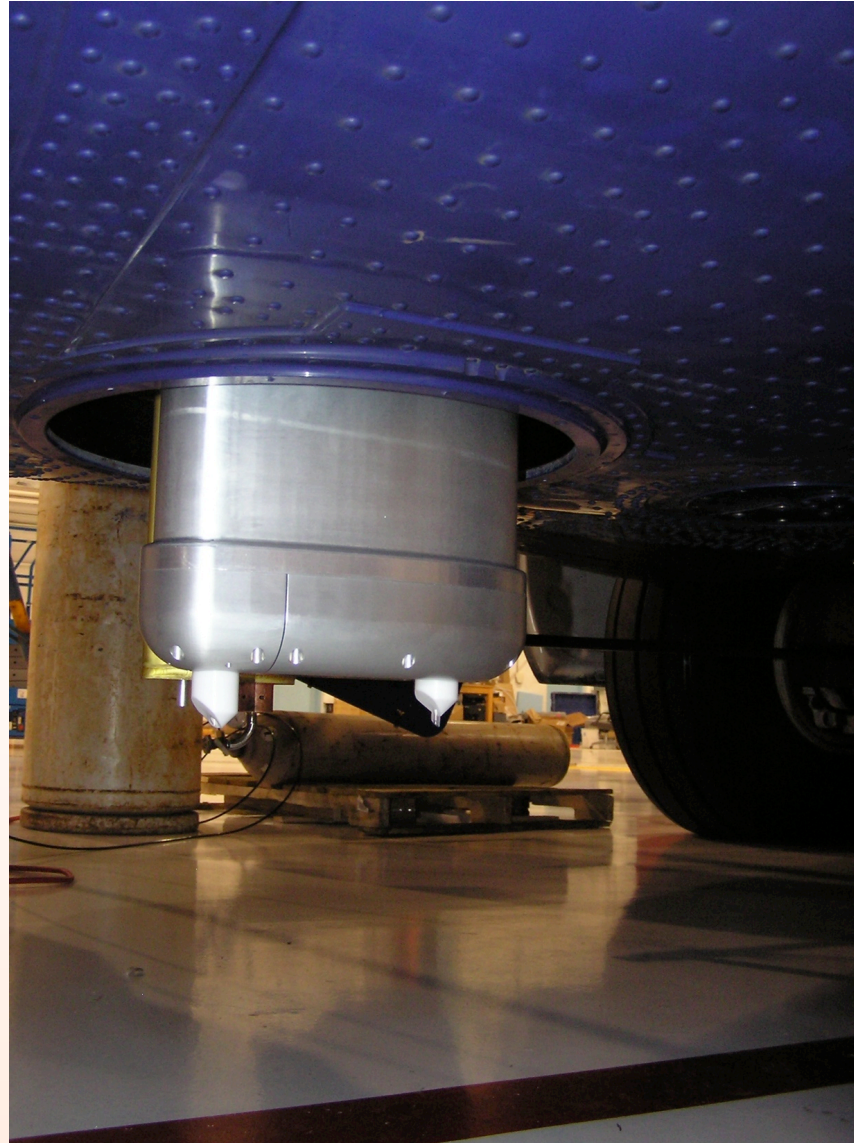
MIRAGE Configuration



Current Configuration



Inlet on C130 for MIRAGE



Measurement & Calibration

- NO via chemiluminescence (rxn w/ reagent O_3).
- NO_2 via photolytic conversion to NO.
- NO_y via Au-catalyzed conversion to NO.
- All three calibrated several times per flight with NO and NO_2 addition to sample flow.
- O_3 via chemiluminescence (rxn w/ reagent NO). Calibrated on ground several times before, during, after project.
- Continuous, 1-Hz data.

Thank You

The NESL Mission is:

**To advance understanding of weather, climate, atmospheric composition and processes;
To provide facility support to the wider community; and,
To apply the results to benefit society.**

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