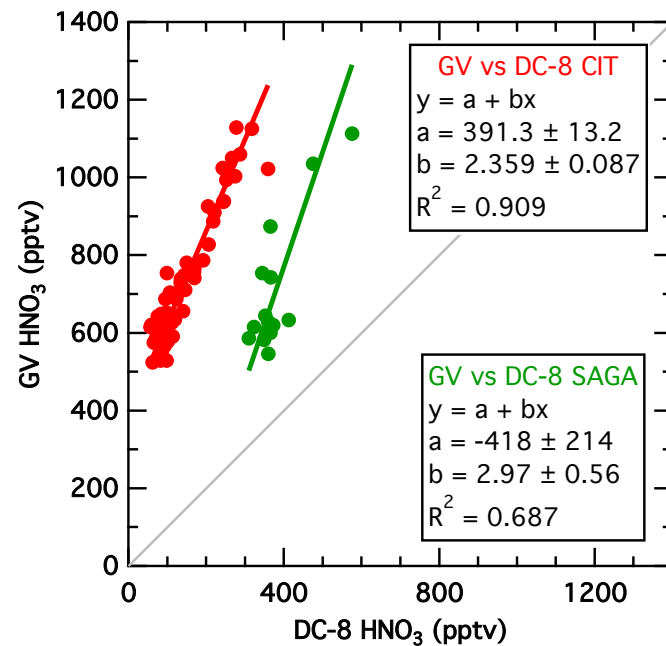
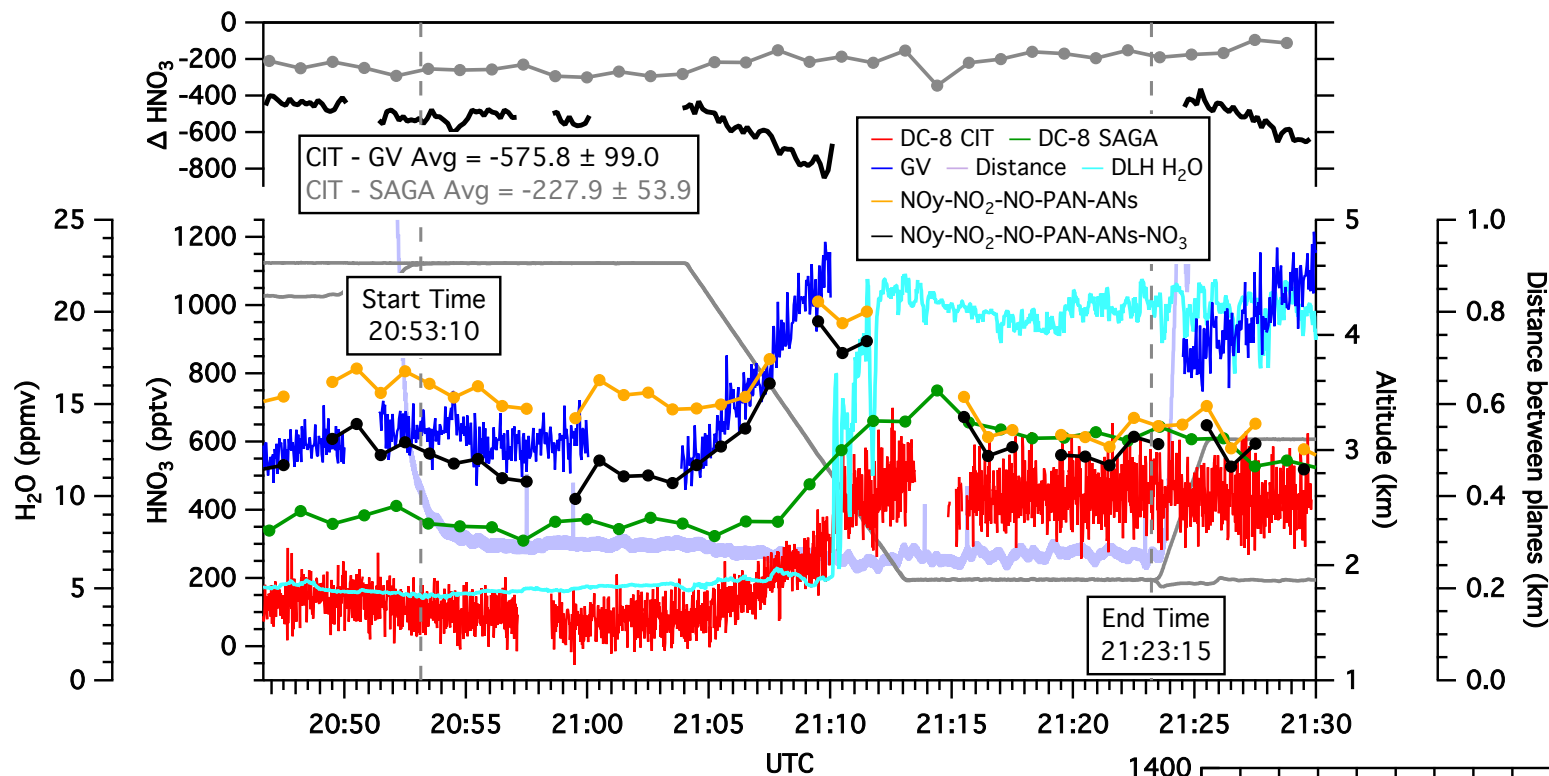
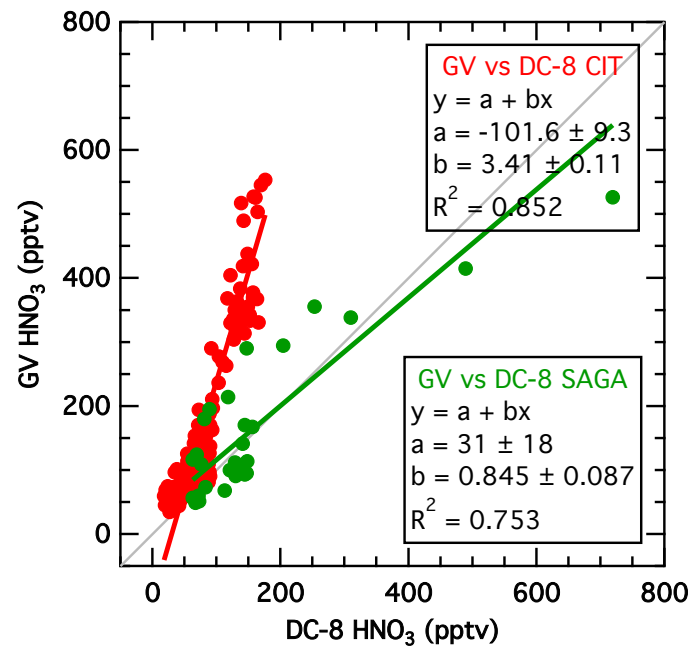
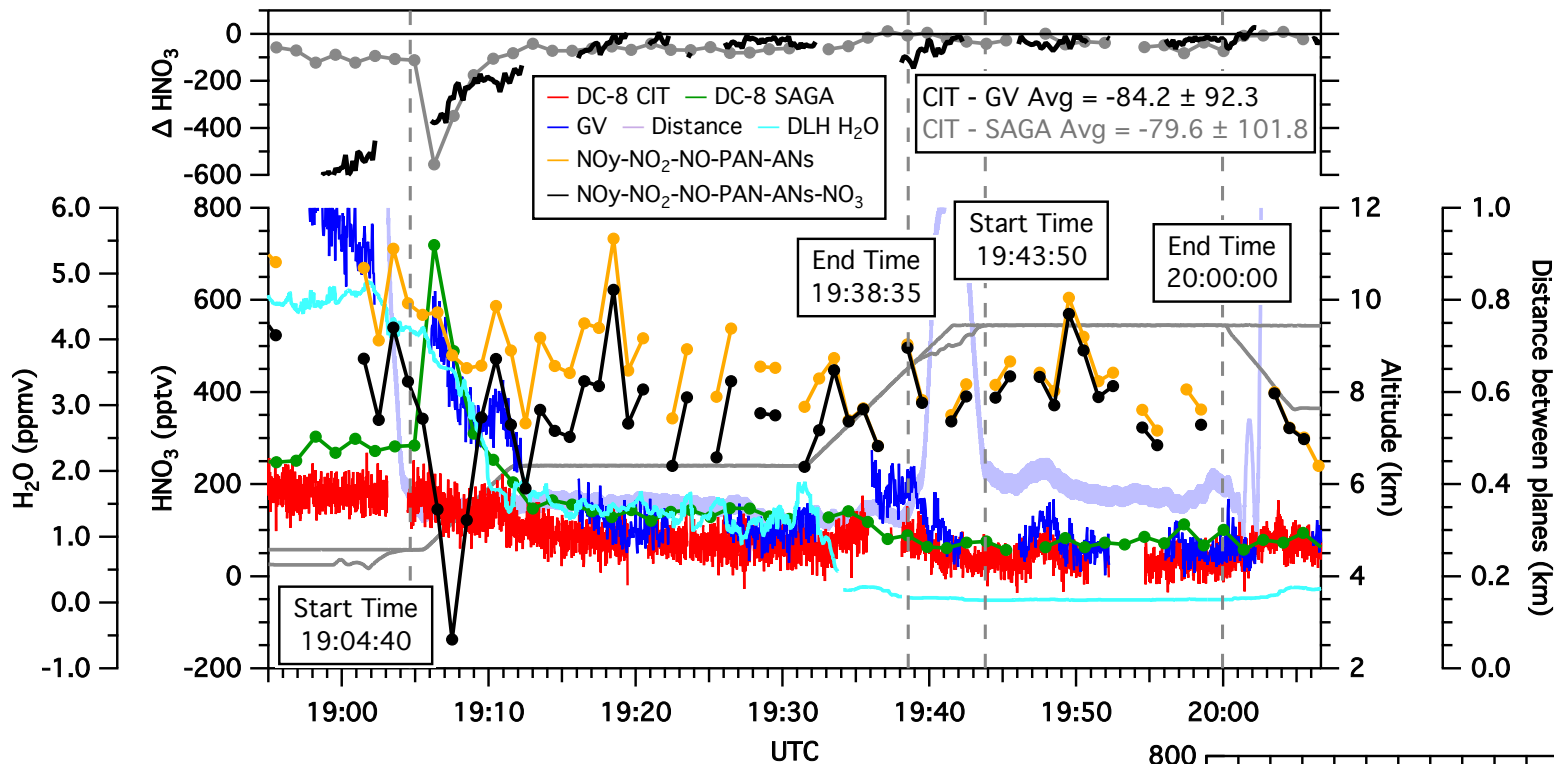
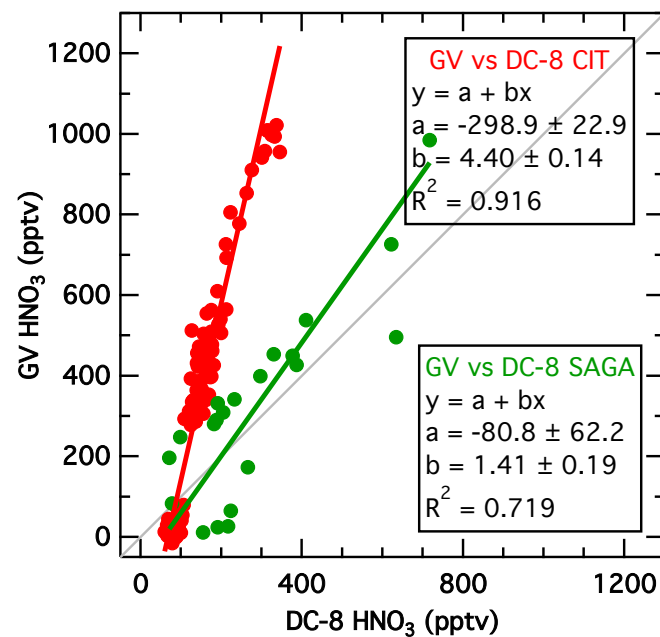
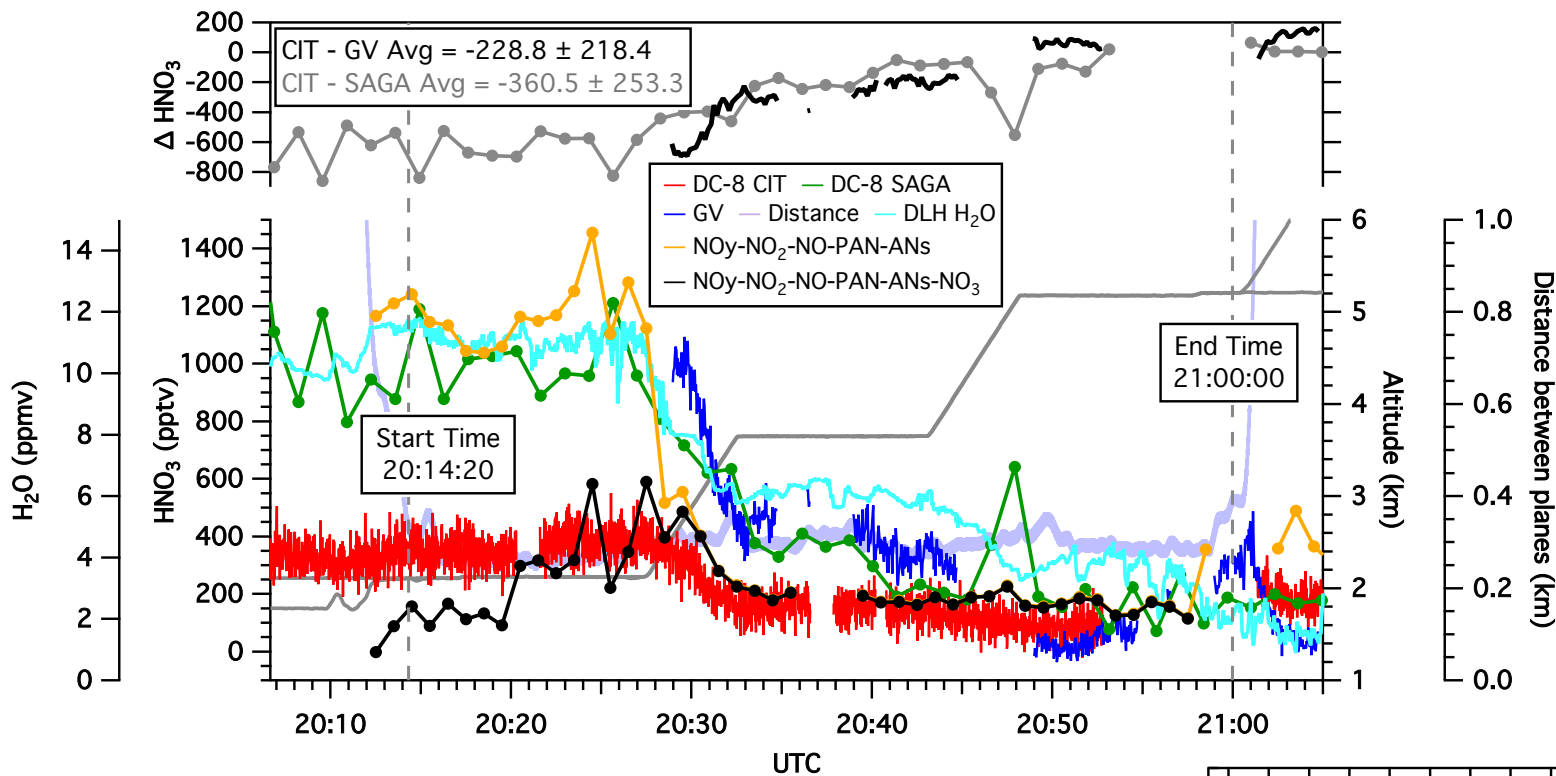


05/25/12

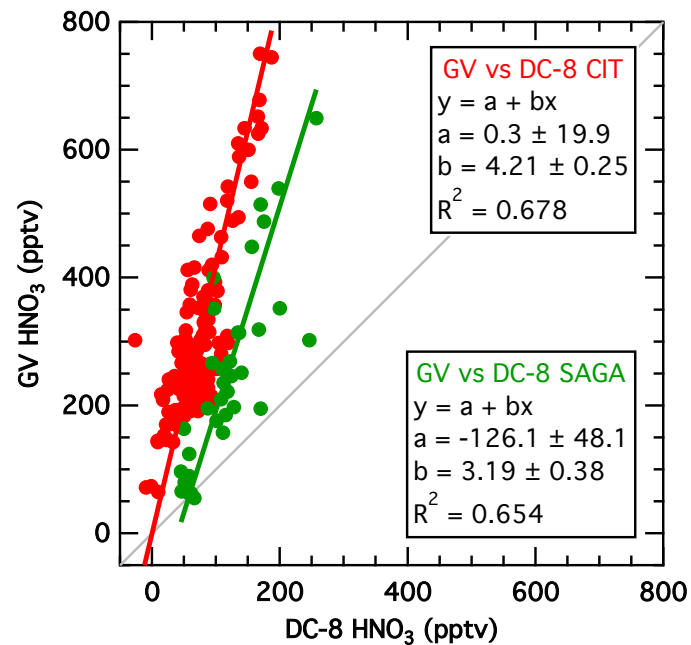
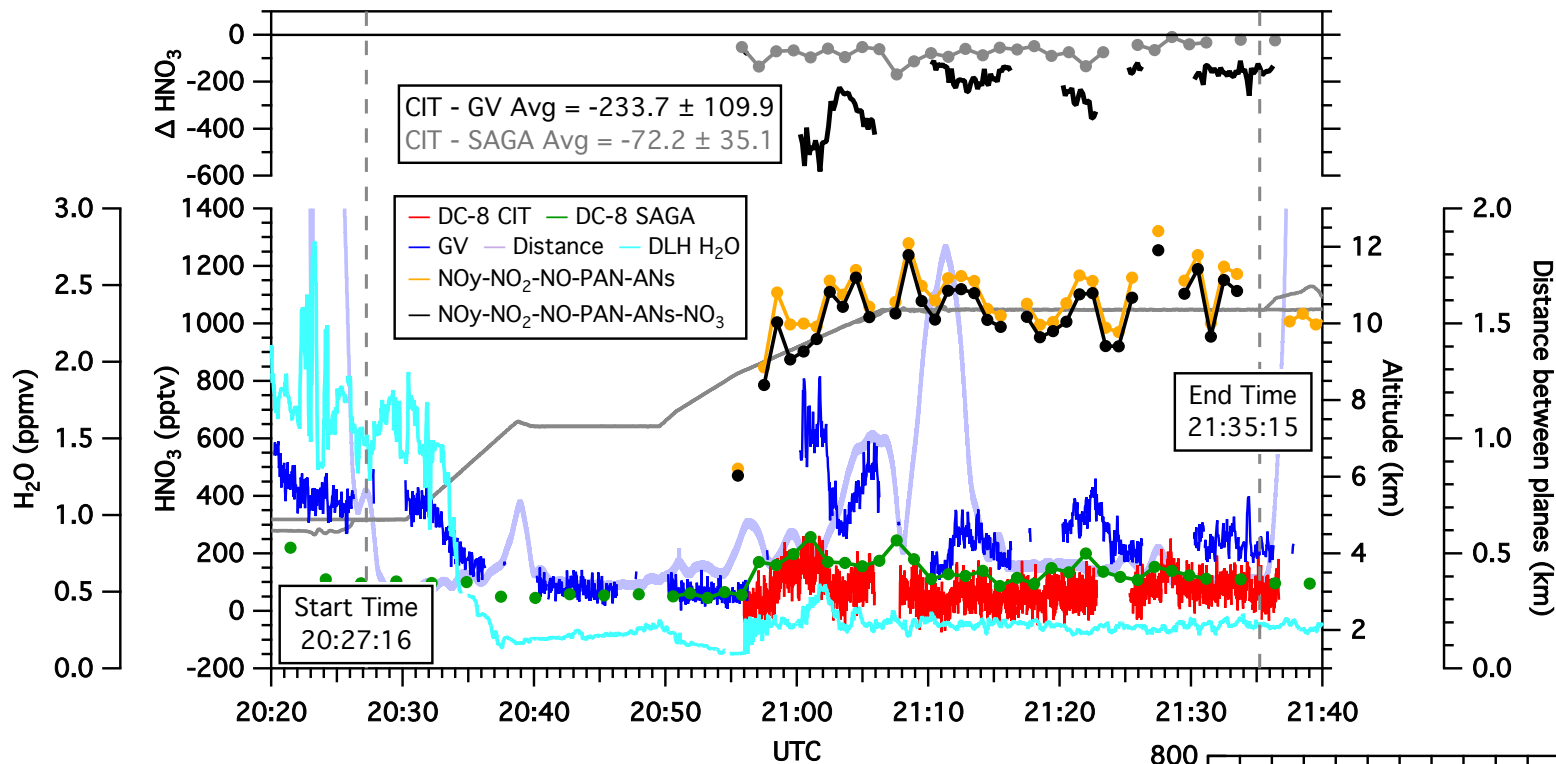


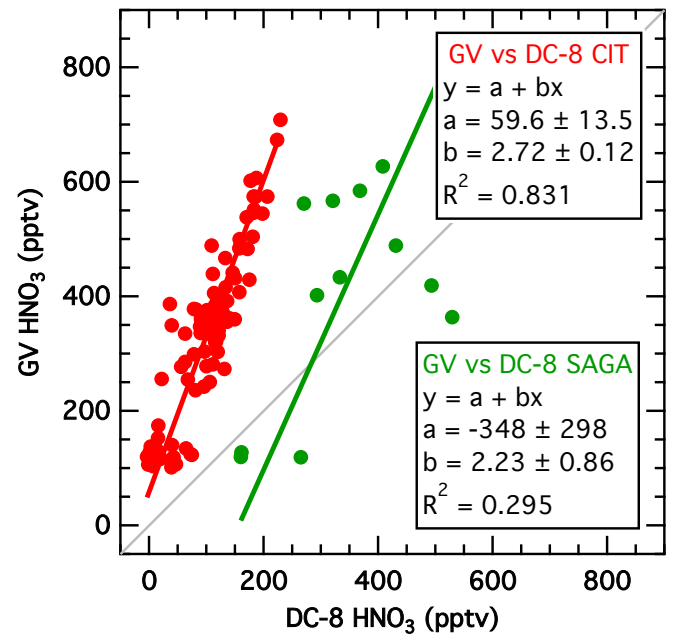
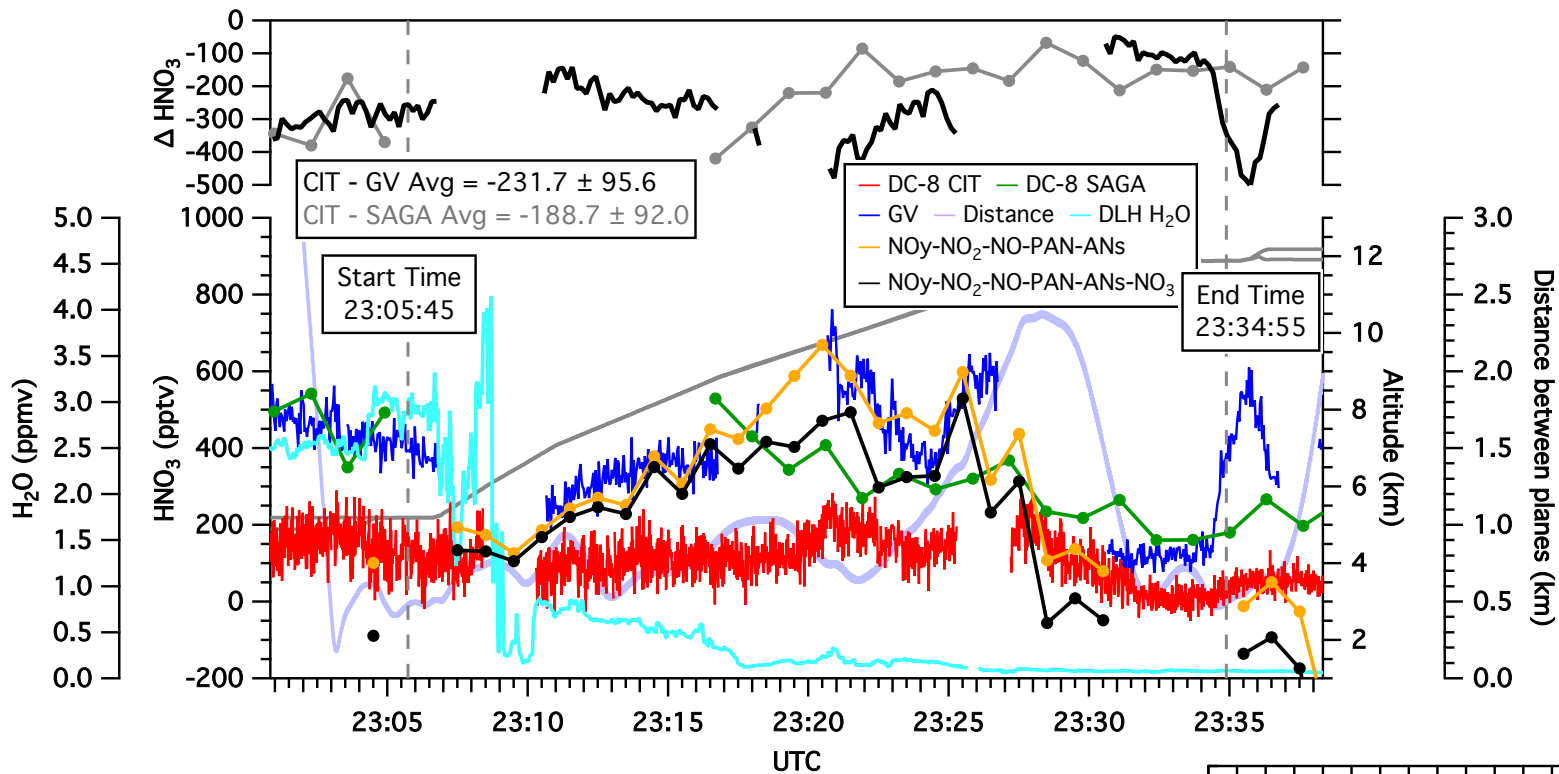


06/01/12



06/05/12





## Time Series Data

Comparison Date	DC-8 Hskping	DC-8 DLH	GV
05/25/12	DC3-CIT-HNO3_DC8_20120525_R0_01S.ict	DC3-SAGA_DC8_20120525_R1.ict	DC3-GTCIMS-SO2HNO3_GV_20120525_R2.ICT
05/30/12	DC3-CIT-HNO3_DC8_20120530_R0_01S.ict	DC3-SAGA_DC8_20120530_R1.ict	DC3-GTCIMS-SO2HNO3_GV_20120530_R1.ICT
06/01/12	DC3-CIT-HNO3_DC8_20120601_R0_01S.ict	DC3-SAGA_DC8_20120601_R1.ict	DC3-GTCIMS-SO2HNO3_GV_20120601_R1.ICT
06/05/12	DC3-CIT-HNO3_DC8_20120605_R0_01S.ict	DC3-SAGA_DC8_20120605_R1.ict	DC3-GTCIMS-SO2HNO3_GV_20120605_R1.ICT
06/17/12	DC3-CIT-HNO3_DC8_20120617_R0_01S.ict	DC3-SAGA_DC8_20120617_R1.ict	DC3-GTCIMS-SO2HNO3_GV_20120617_R1.ICT

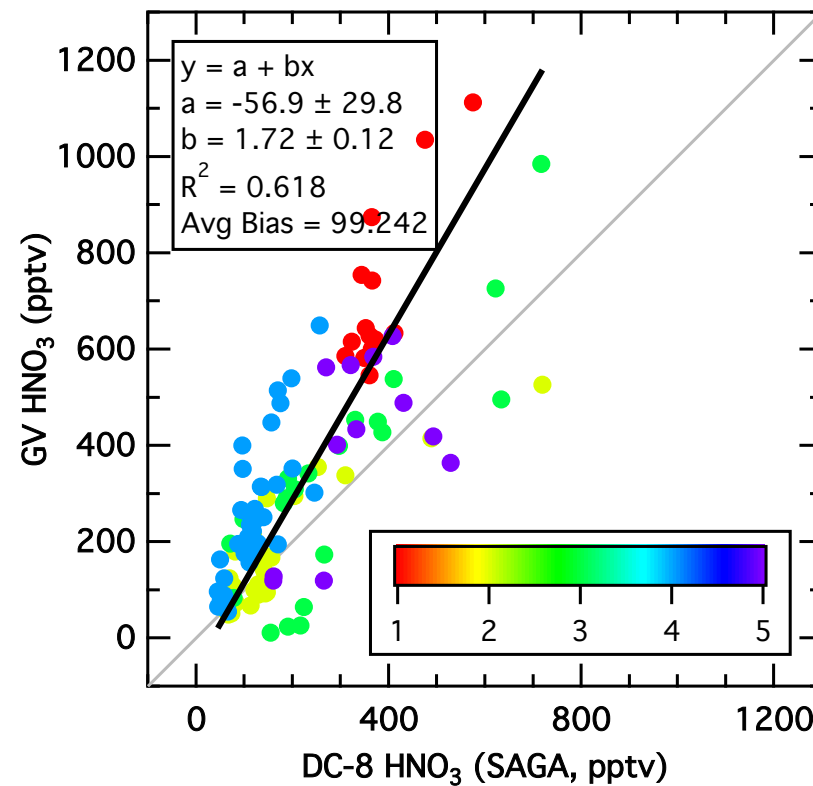
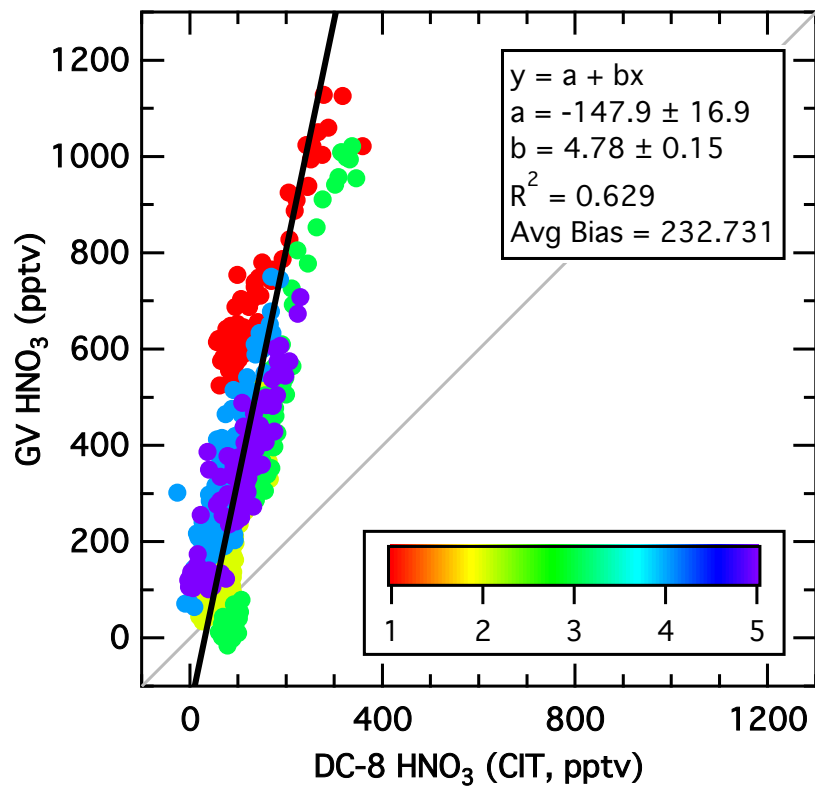
## HNO<sub>3</sub> Calculation Data

Comparison Date	1 Minute Merge
05/25/12	dc3-mrg60-dc8_merge_20120525_R6.ict
05/30/12	dc3-mrg60-dc8_merge_20120530_R6.ict
06/01/12	dc3-mrg60-dc8_merge_20120601_R6.ict
06/05/12	dc3-mrg60-dc8_merge_20120605_R6.ict
06/17/12	dc3-mrg60-dc8_merge_20120617_R6.ict

- Additional variables (NO<sub>y</sub>, NO<sub>2</sub>, NO, PAN, ANs, and NO<sub>3</sub>) shown on the plots were requested by PIs to explore potential measurement issues and the impact of HNO<sub>3</sub> measurements on the NO<sub>y</sub> budget.

## Correlation Data

- Merged DC-8 CIT and GV to 10-second time step.
- Merged GV to DC-8 SAGA time step.
- Fit lines are derived from orthogonal distance regressions.
- R<sup>2</sup> values are calculated independently, not from orthogonal distance regression.
- Average and standard deviation are calculated over the comparison time frame.



- Numbers on Colorbar correspond to the 5 intercomparison days  
1: 05/25/12, 2: 05/30/12, 3: 06/01/12, 4: 06/05/12, 5: 06/17/12
- Avg Bias denotes the difference between y and x, calculated by  $(y-x)$