

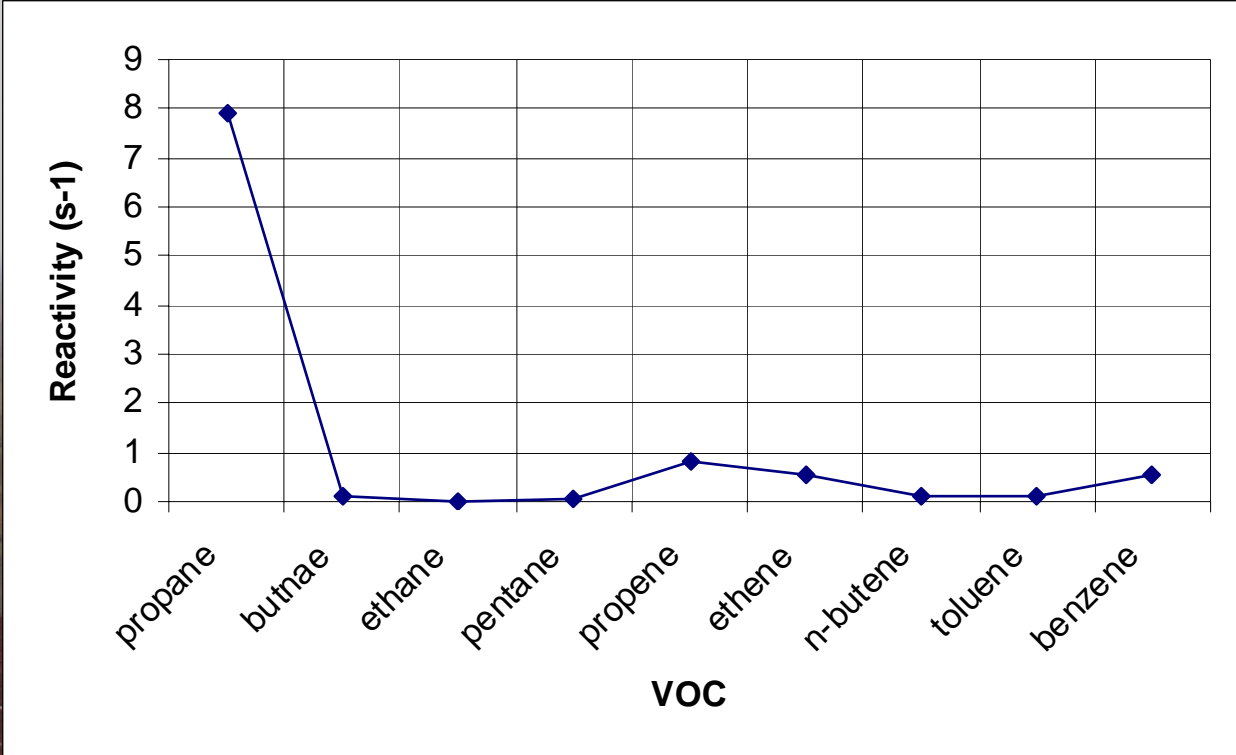
Ozone Production and HO_x behavior
at T1: Near Field Chemistry
Breakout Session

Greg Huey
Georgia Tech

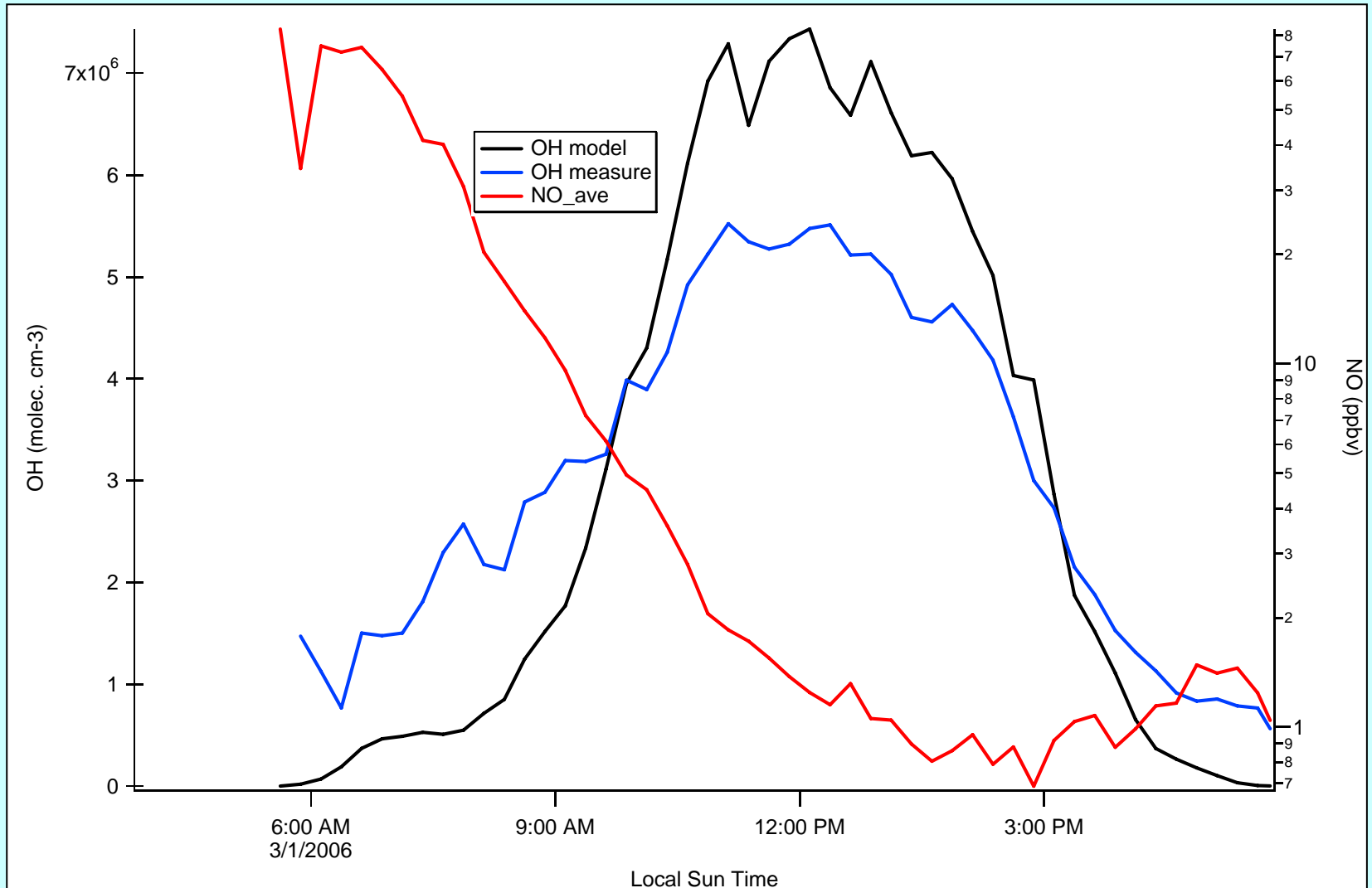
T1

<i>Species</i>	<i>Unit</i>	<i>Median</i>	<i>Mean</i>	<i>Noontime Average</i>
NO	ppbv	13.8	13.3	1.2
CO	ppbv	380	515	295
SO ₂	ppbv	1.2	5.2	5.2
O ₃	ppbv	35	39	77
OH	molecules/c m ³	1.0 x 10 ⁶	2 x 10 ⁶	5 x 10 ⁶
HO ₂ + RO ₂	molecules/c m ³	6.4 x 10 ⁷	1.1 x 10 ⁸	2.6 x 10 ⁸
H ₂ SO ₄	molecules/c m ³	2.1 x 10 ⁷	7 x 10 ⁶	1.6 x 10 ⁷

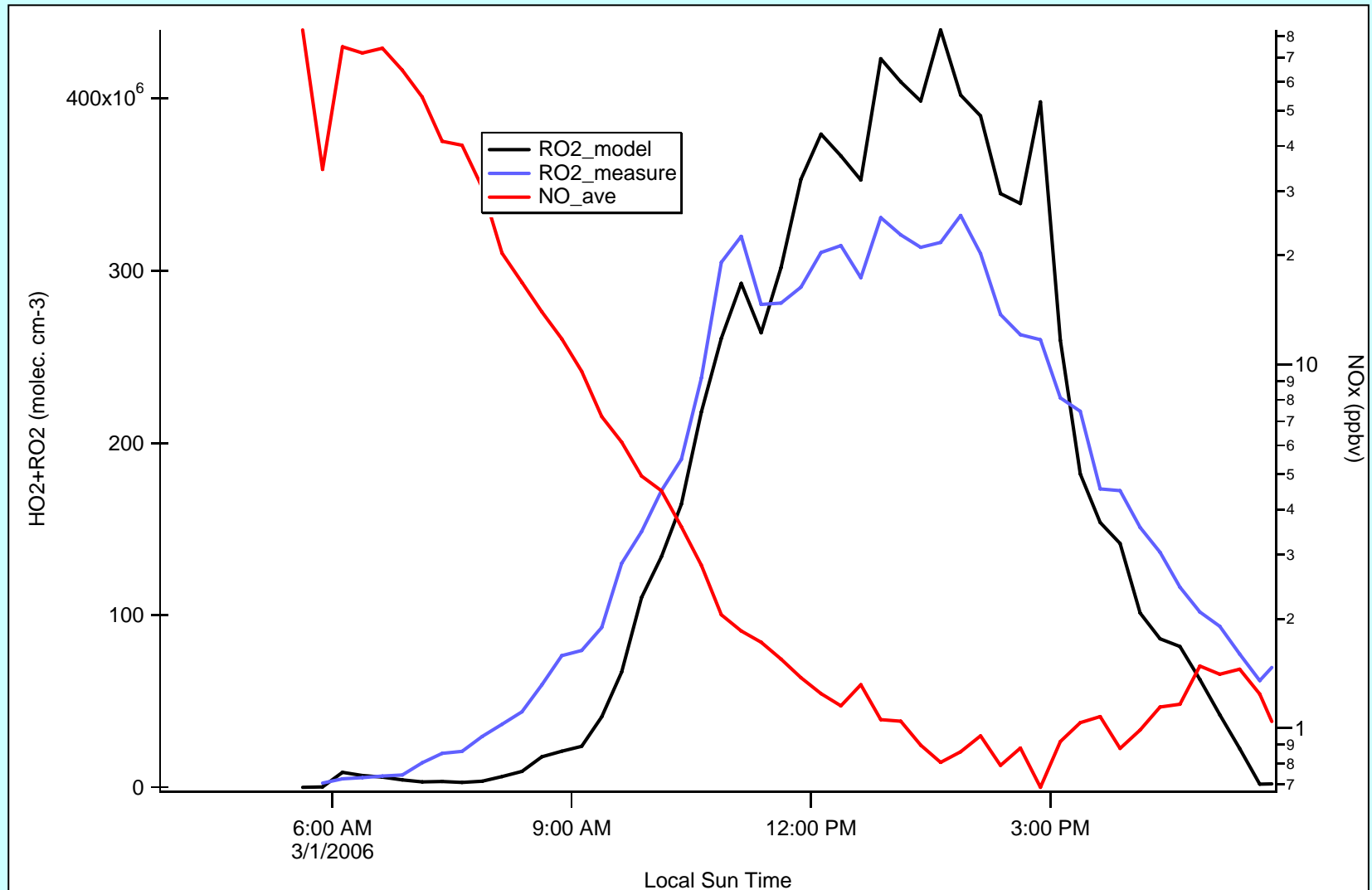
T1 VOC Reactivity



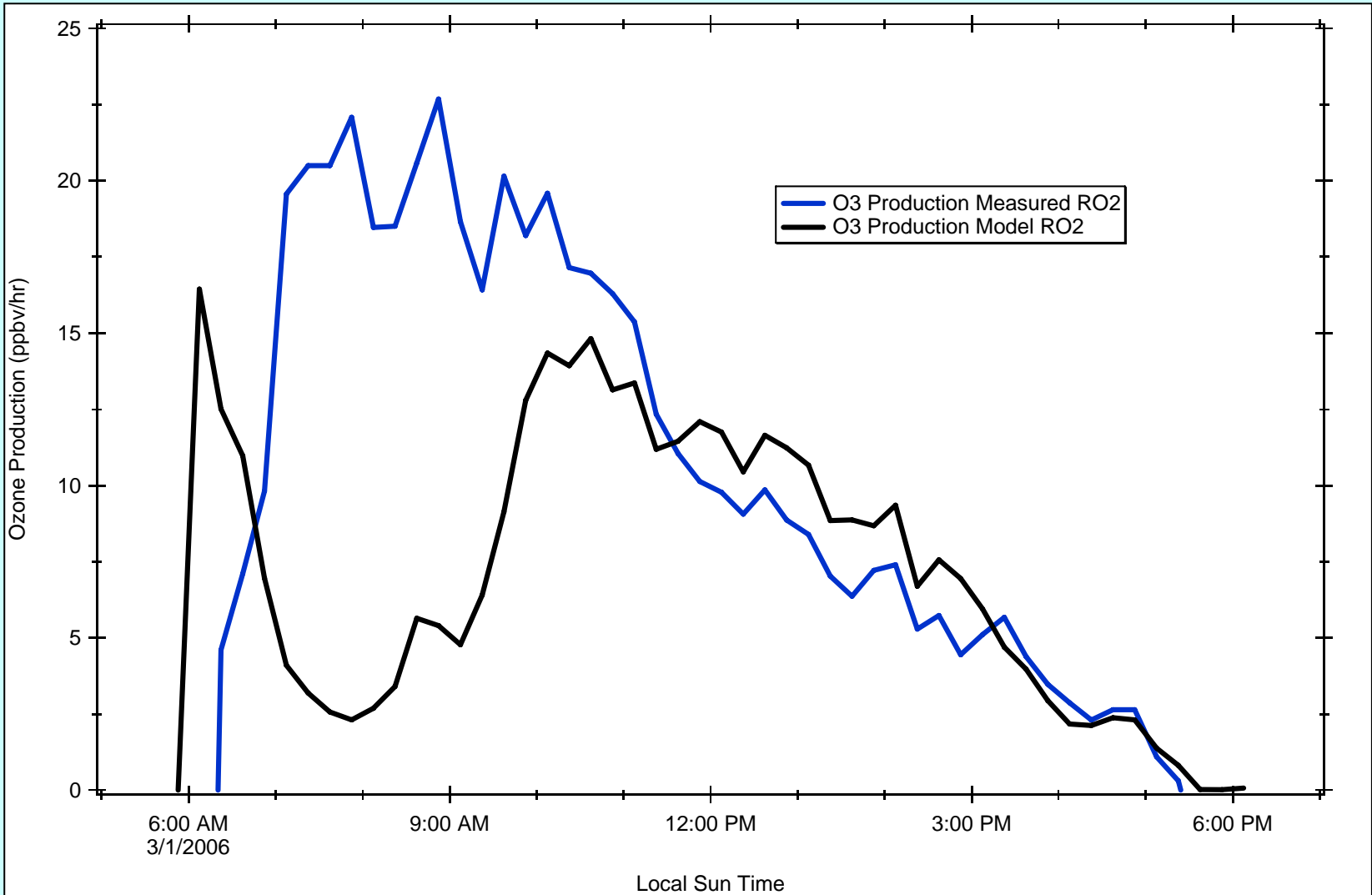
Composite OH Data



Composite RO₂ Data

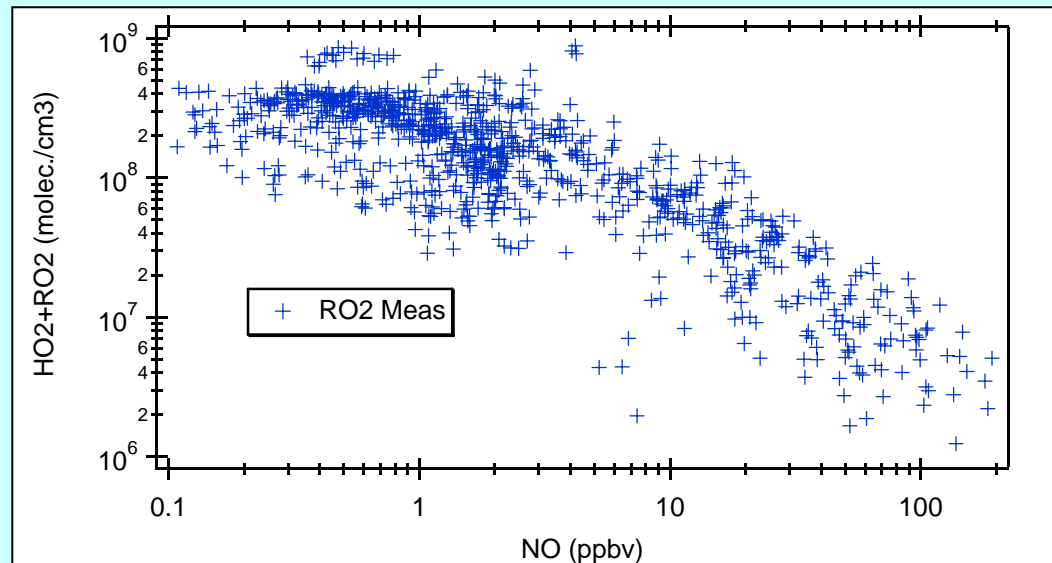


Ozone Production

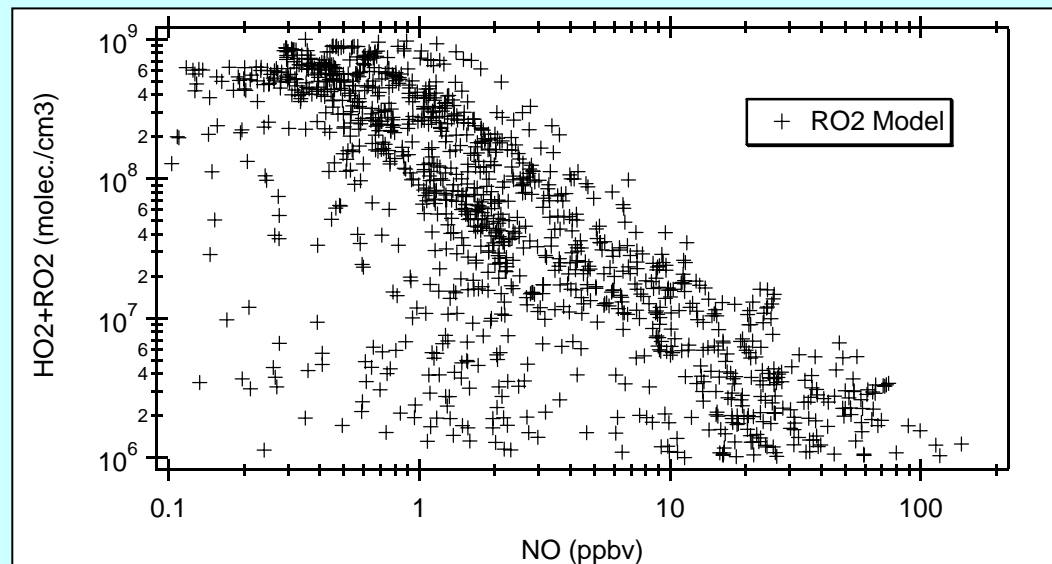


RO₂ vs. NO

Observed RO₂

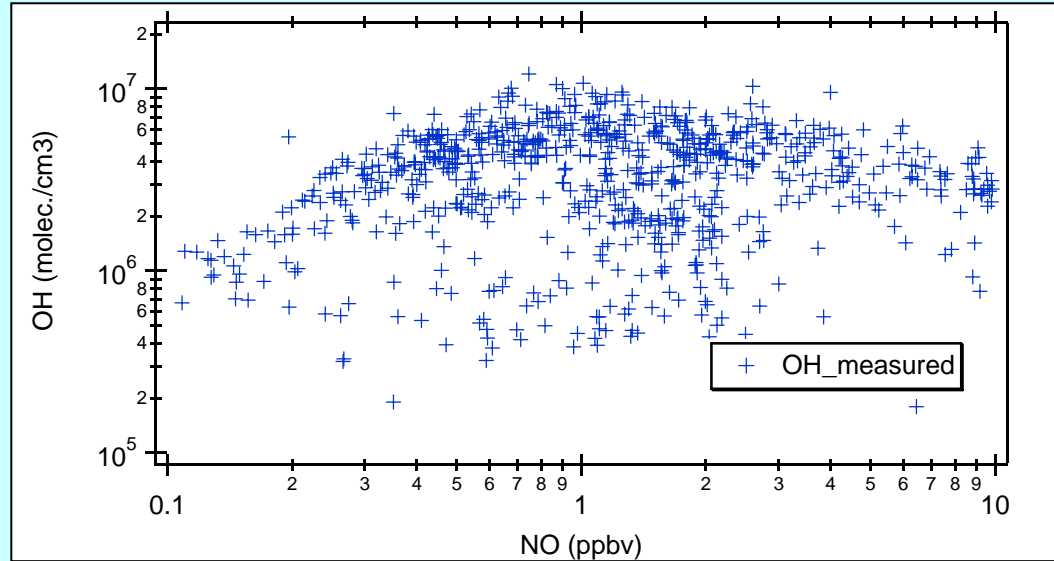


Predicted RO₂



OH vs. NO

Observed OH



Predicted OH

