TROPOSPHERIC DIAGNOSTIC MODELING STUDIES OF PEM-TROPICS FIELD DATA: INVESTIGATION OF THE HOx/NOx/O3 PHOTOCHEMICAL SYSTEM AND ITS COUPLING TO SULFUR AND HALOGEN CHEMISTRY

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Over the time period of this NASA grant the PI has helped plan and execute the PEM-Tropics A field program. He has also helped organize and co-chair three data workshops which have focused on the detailed analysis of PEM-Tropics A data. His direct participation in these analyses has led to his major involvement in 10 manuscripts, 5 of which are in print, 3 in press, and 2 submitted. A complete list of papers is given below:


2) DMS oxidation in the equatorial Pacific: Comparison of model simulations with field observations for DMS, SO$_2$, H$_2$SO$_4$(g), MSA(g), MS, and NSS, D. Davis, G. Chen, F. Eisele, B. Huebert, D. Tanner, L. Mauldin, A. Bandy, D. Thornton, and D. Lenschow, J. Geophys. Res, 104, 5765, 1999.


5) The Pacific Exploratory Mission in the Tropical Pacific: PEM-Tropics A, August-