

MILAGRO/INTEX-B Coordinated Satellite + Sub-orbital Platform Experiments: March 06 & 10, 2006

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The Multi-angle Imaging SpectroRadiometer (MISR) Team participated actively in designing and executing multi-platform experiments during MILAGRO/INTEX-B, aimed at capturing the Mexico City pollution plume over land and water. Working with the vicissitudes of flight rules and meteorological conditions, we obtained joint pollution plume observations from the J-31 payload, the B-200 lidar, and the C-130 over the Gulf of Mexico on March 10, 2006. On March 06, the J31 and B-200 flew over the T0 Ground Site, near-coincident with the MISR overpass. Our preliminary analysis of these experiments involves retrieving individual instrument results from each of the participating teams, and identifying situations for which we collected sufficient environmental constraints to critically analyze aerosol behavior and/or satellite performance. With the help of the STEM model, we are also using these experiments to explore the nature of smoke, dust, and urban pollution aerosol transports in the Mexico City region. This presentation will summarize our progress to date.

The MISR Team work is performed at the Jet Propulsion Laboratory, California Institute of Technology, under contract with the National Aeronautics and Space Administration.