

## **Relationships Among Surface, Airborne, and Satellite Multi-angle Aerosol Observations During the ACE-Asia Field Campaign**

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This presentation reports on a community effort of forty-three participants. On five occasions spanning the ACE-Asia field experiment in Spring 2001, the multi-angle imaging MISR instrument, flying aboard the NASA Earth Observing System's Terra satellite, took high-quality data over a 360-km-wide swath, coincident with observations by multiple instruments on two or more participating surface and airborne stations. The cases capture a range of clean, dusty, and polluted aerosol conditions, and represent some of the best opportunities during ACE-Asia for comparative studies among intensive and extensive aerosol observations, in their environmental context. Using data from over thirty surface-based and airborne instruments, we created for each event as complete an optical model as possible of the ocean surface and atmosphere that was also viewed by the satellite. The effort sheds light on the complementary nature of satellite and in situ aerosol observations, and points to ways the two classes of measurements might be extended to better fill in gaps in the global aerosol picture they produce.

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