

IGOS International Workshop, February 4-6, 2004

IGOS-P
Atmospheric Chemistry Theme:
Discussion and Summary

IGOS International Workshop,
February 4-6, 2004
Tokyo, Japan

Highlights of the session

- **Overview of IGACO Theme Report (Draft v.10)**
- **Overview of Japanese/Asian components of IGACO**
 - **GAW, ground-based systematic observations (JMA)**
stratospheric ozone, GHG, tropospheric ozone, aerosols, etc
 - **Systematic observations aboard commercial aircraft (JAL)**
 - **NDSC, ground-based systematic observations for stratospheric change (NIES)**
 - **Air quality/aerosol observation network in Taiwan**
 - **Research/demonstration type observations**
 - Air quality measurements in Asian continent (FORS)*
 - Stratospheric measurements in Alaska (CRL)*
 - Aircraft campaign measurements on tropospheric chemistry (JAXA, Univ.Tokyo)*
 - Free tropospheric measurements at the top of Mt. Fuji*
 - **Capability for forecast models**
 - Chemical transport model (stratospheric ozone) & inverse model (CO₂) (JMA)*
 - Chemical environment forecast model (FRSGC)*

Recommendations

Need for:

Coordinated network of long-term and systematic satellite/balloon/aircraft/ground-based measurements, especially focusing on realizing the followings:

- 1. Coordination among in-situ observations of several agencies (i.e., JMA/GAW, NIES rural stations, NIES/NDSC, etc...)**
- 2. Satellite monitoring system for air quality in Asia, including precursor gases of GHG for GHG inventory/climate change**
- 3. Maintaining the mountain-top station at Mt. Fuji**
- 4. Additional ground-based column measurements (i.e., CO & CO₂ with FTIR; NO₂ & SO₂ with DOAZ)**
- 5. Campaign type measurements (in addition to long-term comprehensive measurements) for validating satellite data and model results**