

AeroSat

International Satellite Aerosol Science Network

Fourth Meeting

Beijing, September 22-24, 2016

GOALS

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AeroSat *Overall GOALS (1)*

Make satellite aerosol data as useful as possible to customers, especially climate modelers (e.g., AeroCom)

- **Achieve open and active *exchange of information***
 - ***Retrievals*** and their strengths and limitations
 - Match ***user requirements*** to technical capabilities
 - Benefit from the latest ***technological advances***
 - ***Standardization*** (data formats, data standards)
- **Forum for satellite aerosol *retrieval experts***
 - ***Learn*** from each other
 - ***Initiate*** new developments
 - ***Discuss*** harmonization

AeroSat *Overall GOALS (2)*

- **Promote the use of satellite data**
 - As **complementary** to other sources of information
 - To better understand the **role of aerosols** on climate, climate change, air quality and atmospheric processes
- **Forum with satellite *data users***
 - AEROCOM / CCMI models, ICAP forecasts
 - other ***data providers*** (AERONET reference, space agencies)
 - Listen to their ***needs and limitations***
 - Motivate ***new activities***
 - Contribute to ***integration of all observations***

AEROSAT is an *unfunded network* (like AEROCOM)

AEROSAT meetings aim at intensive discussion

AeroSat **GOALS** for this Meeting

- Encourage **greater participation** from Asian scientists
 - **Learn** about capabilities and interests
 - Identify possible **areas of coordination** & collaboration
- Characterizing Satellite **retrieval-result uncertainties**
 - **Modeling needs**, especially assimilation
 - **Possible approaches** & their limitations
- Challenges & Possibilities for contributing to **air quality** studies
 - Deriving **near-surface component, speciation**
 - Obtaining adequate **spatial & temporal resolution**
- Progress on **constraining and using aerosol type**
- Issues & advances in deriving **consistent long-term satellite climate data records**