ATMOSPHERIC GROUP REPORT

MODIS SCIENCE TEAM MEETING OCT., 1994

- * ATBD update, integration of products and delivery
 - Intelligent <u>combination of the water vapor</u> products (NIR - operational and IR - research),
 - <u>Validation of water vapor products</u>: Comparison with the sunphotometer network, comparison of NIR and IR methods.
 - Combination of <u>cloud phase</u> from NIR and IR techniques
 - <u>CLOUD MASK simulation</u>: application of the cloud mask to real scene data (MAS-50 ch) and subsequent application to MODIS algorithms (may require a semi-natural / semi-simulated scenes.
- <u>ATMOSPHERIC CORRECTIONS</u> improving the validation, aerosol climatology parts.
- <u>FIRES -</u> SCAR-C data base for algorithm derivation.

* SCAR-C (B?)

- Fires

Wild Prescribed

- Smoke
- Burn scars
- * Cirrus Clouds
 - <u>Tri spectral Phase indicator:</u> 8, 11, 12 μm *Kathy Strabala, Wisconsin*
 - <u>Cirrus optical properties and RT</u>: phase function and polarization calculations and comparison with measurements. Particle shape and size *K. N. Liou, Utah*
 - <u>Atmospheric correction for thin cirrus:</u> Correction based on information in the image itself, further steps require theory. *Bo-Cai Gao and Yoram Kaufman*

* Focus group: Aerosol over ocean and correction

- Measurements: sun/sky radiometers
- black carbon and absorption measurements
- revisits by aircraft (MAS), satellite data
- lidar
- MODIS/MISR Gordon, Kaufman, Tanre
- POLDER Tanre
- OCTS/GLI Nakajima
- HQR Frouin
- assumptions made in the remote sensing
- dust/no dust absorption
- actual phase function