



Sounding from High Spectral Resolution Infrared Observations

AGENDA

6 May 2003

Morning:

- ❖ *Radiative Transfer for Retrieval*: Moderated by Sergio DeSouza-Machado and Hank Revercomb
 - 09:00-09:40 Overview of Radiative Transfer – Larrabee Strow (talk given by Sergio DeSouza-Machado)
 - 10:00-10:40 Fast Models and Jacobians in Physical Inversion – Paul van Delst
 - 11:00-11:40 Relevance of Radiative Transfer Model in Statistical & Physical Inversion – Xu Liu
 - 12:00-12:30 Group Discussion

Afternoon:

- 14:00-14:40 OSS Fast Model – Jean-Luc Moncet (talk given by Hilary “Ned” Snell)
- ❖ *Validation of Radiative Transfer and Measured Radiances*: Moderated by Paul van Delst and Bob Knuteson
 - 15:00-15:40 Random Noise Filtering: Noise Reduction and Information Loss – Paolo Antonelli
 - 16:00-16:40 Radiance Validation – Dave Tobin
 - 17:00-17:30 Group Discussion

7 May 2003

Morning:

- ❖ *Statistical Aspects of Inversion*: Moderated by Bill Smith and Larry McMillin
 - 09:00-09:40 Regression Retrieval Overview – Larry McMillin
 - 10:00-10:40 Key Ingredients for Regression Inversion – Bill Smith
 - 11:00-11:40 Neural Network Approach to the Inversion of High Spectral Resolution Observations for Temperature, Water Vapor and Ozone – Carmine Serio
 - 12:00-12:30 Group Discussion

Afternoon:

- ❖ *Physical Aspects of Inversion*: Moderated by Roger Saunders and Allen Huang
 - 14:00-14:40 Post-launch Experiences with the AIRS Physical Retrieval Algorithm – Chris Barnet
 - 15:00-15:20 break
 - 15:20-16:00 IASI Level 2 Processing: Stability and Uniqueness – Peter Schlüssel
 - 16:20-17:00 Group Discussion

Evening:

- ❖ 18:30 *Workshop Banquet*

8 May 2003 (Tentative Schedule)

Morning:

- ❖ *Strategies for the Future*: Moderated by Peter Schlüssel and Paul Menzel
 - 09:00-9:40 Infrared Sounders on the Geostationary Hyper-spectral Environmental Suite – Tim Schmit
 - 10:00-10:30 Use of Advanced Infrared Sounder Data in NWP Models- Roger Saunders
- ❖ *Special Issues*: Moderated by Carmine Serio and Steve Ackerman
 - 10:45-11:15 Information Content in Presence of Clouds: Cloud Clearing Approach – Paul Poli
 - 11:30-12:00 Microphysical Properties of Single and Mixed-phase Arctic Clouds Derived from Ground-based AERI Observations – Dave Turner

Afternoon:

- 13:45-14:15 Retrieval of Surface Properties – Bob Knuteson
- 14:30-15:00 Combining Statistical and Physical Retrievals for AERI Sounding – Wayne Feltz
- 15:00-16:30 Group Discussion
- 16:45-17:30 Summary and Conclusions