

International Workshops on
Intercomparison of 3-dimensional Radiation Codes: I3RC-2000 - Second Workshop
November 15-17, 2000, Westward Look Resort, Tucson

Day 1

Morning 1.1: 3D Atmospheric Radiation Applications

- 8:30 - 9:00 AM Welcome, and Early MISR Results, R. Davies, *U. AZ*
- 9:00 - 9:30 AM 3D Effects in UV Radiative Transfer, B. Mayer, *DLR*
- 9:30 - 10:00 AM Optical Depth Retrieval Validations for MODIS, T. Varnai, *UMBC*

Coffee Break - 10:00 - 10:30 AM

Morning 1.2: GCM Radiation Issues

- 10:30 - 11:00 AM ICRCM 3 Results, H. Barker, *MSC*
- 11:00 - 11:30 AM 500 km Scale Break - ECMWF vs GFDL, R. Cahalan, *NASA/Goddard*

Morning 1.3 Algorithm Roundtable - Changes for Phase 2

- 11:30 - 12:30 PM Brief Technical Algorithm Descriptions: Barker,, Davis, Gu, Kassianov, ,Macke, Marshak, Mayer, O'Hirok, Prigarin, Szczap, Várnai, Zhuravleva.

Lunch - 12:30 - 2:00 PM

Afternoon 1.4 Remote Sensing Intercomparison - chaired by S. Marshak, *UMBC*

- 2:00 - 2:30 PM Set 1 (Experiments 1-5) - no atmosphere
- 2:30 - 3:00 PM Group Discussion of Set 1
- 3:00 - 3:30 PM Set s 2 and 3 (Experiments 6-15) - with aerosols and gases
- 3:30 - 4:00 PM Group Discussion of Set 2 and 3

TeaTime - 4:00 - 4:30 PM

Afternoon 1.5: Heating Rate Intercomparison - chaired by L. Oreopoulos, *UMBC*

- 4:30 - 5:00 PM Experiment 1-4 (monochromatic)
- 5:00 - 5:30 PM Group Discussion of Heating Rates

Evening Dinner Reception

Day 2

Morning 2.1 Applications of 3D Atmospheric Radiative Transfer

- 8:30 - 9:00 AM 3D Radiative Transfer in Cirrus Clouds, Y. Gu, *UCLA*
- 9:00 - 9:30 AM Parameterization of Domain Averaged Solar Radiative Fluxes, A. Macke, *U.Kiel*
- 9:30 - 10:00 AM Random Fields for Broken Clouds and Solar Radiation, T. Zhuravleva, *IAOT*

Coffee Break - 10:00 - 10:30 AM - Demo of Interactive Plotting of I3RC Results, K. Yetzer

Morning 2.2: 3D Computational Methods for Atmospheric Radiation

- 10:30 - 11:00 AM Neural Net 3D Transfer Method, F. Szczap, *U. Blaise Pascal*
- 11:00 - 11:30 AM Finite Element-Spherical-Harmonic 3D Transfer, N. Trasi, *Imperial College-London*.

Morning 2.3 Approximations and Intercomparisons

- 11:30 - 12:00 AM RAMI Project, & Approximations in I3RC, A. Davis, *LANL*
- 12:00 - 12:30 AM Group Discussion

Lunch - 12:30 - 2:00 PM

Afternoon 2.4: Special Topics/Issues in 3D Atmospheric Radiative Transport

- 2:00 - 2:30 PM 3D Thermal Radiation Intercomparison, R. Ellingson, *UMCP*
- 2:30 - 3:00 PM Reciprocity for Evaluating I3RC Results, L. DiGirolamo, *UIUC*
- 3:00 - 3:30 PM 3D Simulations for ARESE 2, W. O'Hirok, *UCSB*

TeaTime - 3:30 - 4:00 PM

Afternoon 2.5: Approximations and Open Source Breakout Sessions

- 4:00 - 5:30 PM Approximations - Comparison & Planning, chaired by A. Davis
- 4:00 - 5:30 PM Open Source Initiative, chaired by R. Pincus, *NOAA/CERES*

Day 3

Morning 3.1: Reports from Breakout Sessions

- 8:30 - 9:00 AM Approximations, A.Davis, *LANL*
- 9:00 - 9:30 AM Open Source, R. Pincus, *NOAA/CERES*

Morning 3.2: Planning Future Computations, chaired by F. Evans, U. CO

- 9:30 - 10:00 AM Extending Phase 2, Timeline for Approximations & for Open Source
- 10:00 - 10:30 AM General Discussion: Platform, Broadband, Thermal, and pathlength comparison

Coffee Break - 10:30 - 11:00 AM

Morning 3.3 I3RC-2001 Roundtable, chaired by R. Cahalan

- 11:00 - 11:30 AM Documentation, Methods, Open Source, Publications, CD, Book Chapters

12:00 PM Adjourn