

# The EarthCARE Workshop 2009

Earth, Clouds, Aerosols and Radiation Explorer



## The First Circular for The EarthCARE Workshop 2009 June 10 – 12, 2009 Kyoto Royal Hotel Kyoto, Japan

### Call for abstracts

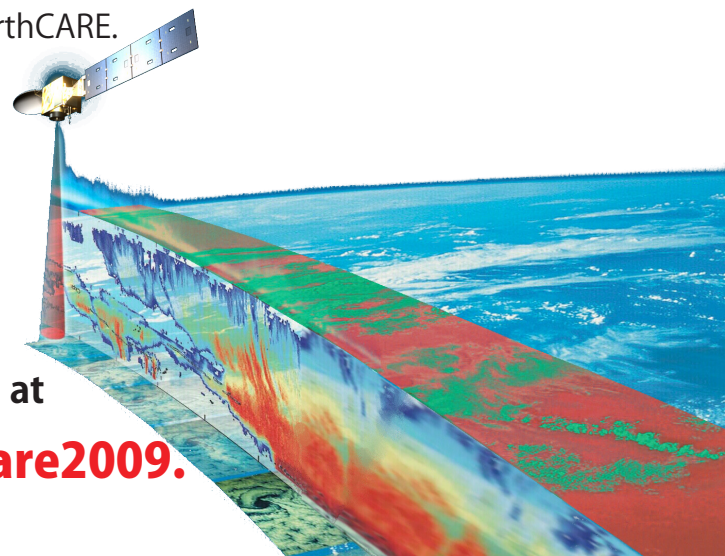
The Earth Clouds, Aerosols and Radiation Explorer (EarthCARE) is a satellite mission aiming for global simultaneous observations of cloud-aerosol-radiation and cloud-aerosol-precipitation-convection processes. These processes are thought to be important since they have uncertainty in the global warming prediction. It was selected by ESA's Programme Board for Earth Observation for implementation as the sixth Earth Explorer Mission. ESA, JAXA, and NICT is carrying out the mission preparation aiming for satellite launch in 2013.

The workshop shall provide a forum for the wider science communities interested in EarthCARE and working in the related research areas of cloud, aerosol and radiation observations and modelling and also observations from the ground, etc, in order to support the preparation for the scientific exploitation of EarthCARE.

The detailed information can be found at

<http://www.prime-intl.co.jp/earthcare2009>.

The EarthCARE Workshop 2009 will be held during June 10-12, 2009 at Kyoto Royal Hotel in Kyoto-city, Japan. This is the international workshop relates to EarthCARE mission, and CALIPSO and CloudSat mission according to their methodology, and observations from the ground, airplanes, and ships would also be appreciated very much. This international workshop is organized by JAXA, NICT in collaboration with ESA.



## Scientific Subjects

We greatly appreciate a lot of scientists interested in the EarthCARE mission would join this Workshop.

Subjects of this workshop are various topics relating to the EarthCARE mission as follows.

### 1) The EarthCARE Mission

EarthCARE mission objectives, observational requirements, system and instruments presentation, science and programmatic aspects

### 2) Active Techniques for Cloud Observations - Radar

Millimeter-wave cloud radar's techniques, observation results including CloudSat, ground-based and air-borne radars  
Especially, Doppler measurement techniques and its application for cloud physics retrieval are welcome.

### 3) Active Techniques for Cloud and Aerosol Observations - Lidar

Lidar observation techniques, observation results including CALIPSO, ground-based and air-borne lidars  
Especially high-spectral resolution lidars techniques and its results are welcome

### 4) Satellite Imagery for Cloud and Aerosol Observations

Cloud and aerosol observations from satellite-borne imagers, new methods using multi-spectral observation

### 5) Earth radiation budget satellite measurement

Techniques and observations of short-wave and long-wave broad-band radiances and fluxes measured from space

### 6) Synergistic Exploitation of Active and Passive Observation Techniques

Retrieval methods of cloud and aerosol properties using synergistic measurements of radar, lidar, and passive instruments

### 7) Modeling of Clouds, Aerosols and Radiation

Numerical weather/climate model technique and results, relating clouds, aerosols and radiation

### 8) Rain and Clouds

Interaction between rain, clouds, and aerosols

This includes connection with TRMM/GPM mission.

### 9) Observations from the ground, airplanes, and ships

Various techniques and their results of clouds, aerosols, and radiation measurement

### 10) Future Missions

Future satellite mission aiming for clouds, aerosol, radiation measurement

## Critical Dates

Registration Due Date: The end of March

Abstract submission Due Date: The 8th of March

Proceeding submission Due Date: The 1st of July to the end of July

## COMMITTEE

### Organising Committee

Dr. Tobias. Wehr, ESA/ESTEC

Dr. Nobuhiro Takahashi, NICT

Dr. Riko Oki, JAXA/EORC

### Science Committee

Prof. Teruyuki Nakajima, University of Tokyo

Prof. Yasushi Fujiyoshi, Hokkaido University

Mr. Yuichi Ohno, NICT

Prof. Anthony Illingworth, University of Reading

Dr. Jacques Pelon, Universite Paris VI

Dr. David Donovan, Royal Netherlands Meteorological Institute (KNMI)

Prof. Graeme L. Stephens, Colorado State University, USA

Dr. David M. Winker, NASA Langley Research Center, USA

Feel free to ask any question  
to the secretariat:

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