

**Collaborative Research based on Equatorial Atmosphere Radar (EAR) in FY2009**

No.	PI	Affiliation	Research Title
2009-E01	Y. Otsuka	Nagoya Univ.	Study on the equatorial ionosphere and thermosphere
2009-E02	Y. Otsuka	Nagoya Univ.	Observations of the field-aligned irregularities in the E and F regions using the EAR and 30MHz radar
2009-E03	C. Nagasawa	Tokyo Metro. Univ.	Study on temperature and composition structures in the equatorial mesopause region
2009-E04	S. Sridharan	NARL	Investigation on the relationship among Sporadic sodium, Sporadic E, field aligned irregularities and neutral winds
2009-E05	M. Yamamoto	Kyoyo Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
2009-E06	M. Ishii	NICT	Study on the onset mechanism of equatorial spread F with EAR and NICT ionospheric observation network
2009-E07	Didi Satiadi	LAPAN	Study of Convective Initiation Based on Observation at Koto Tabang
2009-E08	Ibnu Fathrio	LAPAN	Study of Convectively-generated Gravity wave based on Kototabang Observation
2009-E09	Eddy Hermawan	LAPAN	Propagation and the Vertical Structure of the Madden-Julian Oscillation Based on the Equatorial Atmosphere Radar (EAR), the Boundary Layer Radar (BLR), Radiosonde, and NCEP-NCAR Reanalysis
2009-E10	M. Yamamoto	Kyoyo Univ.	Study on vertical wind characteristics inside clouds based on simultaneous Observations with Equatorial Atmosphere Radar and spaceborne cloud radar
2009-E11	M. Yamamoto	Kyoyo Univ.	Wind and turbulence observation of non-precipitating clouds in the middle troposphere using the Equatorial Atmosphere Radar and lidar
2009-E12	M. Yamamoto	Kyoyo Univ.	Wind and turbulence observation of non-precipitating clouds in the middle troposphere using the Equatorial Atmosphere Radar and lidar
2009-E13	M. Fujiwara	Hokkaido Univ.	Transport and dehydration processes in the Tropical Tropopause Layer
2009-E14	Y. Maekawa	Osaka E.-C. Univ.	A study on the distribution of precipitating clouds on the propagation paths of satellite communications in the equatorial region
2009-E15	M. Abo	Tokyo Metro. Univ.	Observation of atmospheric wave propagation from troposphere to mesosphere at equatorial region
2009-E16	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
2009-E17	T. Kozu	Shimane Univ.	Time-height properties of raindrop size distribution at Kototabang
2009-E18	T. Shimomai	Shimane Univ.	Study on water vapor transport and rainfall based on the radiometer, the EAR and the X band radar observations
2009-E19	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
2009-E20	S. Mori	JAMSTEC	Understanding on multi-scale structures of tropical convective systems over the Indonesian maritime continent and validation of TRMM PRH (PR Heating) algorithm
2009-E21	N. Sakurai	JAMSTEC	Data assimilation using EAR and wind profiler data for understanding of tropical disturbances
2009-E22	H. Hashiguchi	Kyoyo Univ.	Study on intra-seasonal oscillation based on radar network over maritime continent
2009-E23	T.H. Seto	BPPT	Study on convection over Sumatra Indonesia in relation to large-scale disturbances
2009-E24	Marzuki	Andalas Univ.	Study of raindrop oscillation from 2-D Video Distrometer observations

Database

No.	PI	Affiliation	Research Title
2009-ED01	M. Fujiwara	Hokkaido Univ.	Statistical analysis on the tropospheric and stratospheric vertical wind using the EAR — Comparison with a global non-hydrostatic atmospheric model (NICAM) —
2009-ED02	N. Nishi	Kyoyo Univ.	An observational study on the fine-scale distribution of vertical wind in/around the stratiform cloud in the tropical troposphere
2009-ED03	T.H. Seto	BPPT	Comparison study of lower-tropospheric horizontal wind over Sumatra, Indonesia using NCEP/NCAR reanalysis, operational radiosonde, and the Equatorial Atmosphere Radar
2009-ED04	M. Yamamoto	Kyoyo Univ.	Wind observation of non-precipitating clouds in the middle troposphere using the Equatorial Atmosphere Radar and lidar
2009-ED05	Luce Hubert	LSEET	Study on small-scale turbulence in the tropical troposphere using range imaging with the Equatorial Atmosphere Radar
2009-ED06	S. Saito	ENRI	Study of effects of plasma bubbles on GNSS with EAR data