

Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in December 2023-May 2024

No.	PI	Affiliation	Research Title
F50	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
F51	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
F52	Guozhu Li	IGGCAS	Study on the generation and evolution of equatorial plasma bubbles over East/Southeast Asia using VHF and HF radars, and GNSS receiver network observations
A53	S. Shige	Kyoto Univ.	Observation of precipitating ice particles in regions of stratiform precipitation
A54	K. Nishimura	Kyoto Univ.	Renewing the Observation and Analysis Methods based on the Spectral Inverse Scattering Theory
A55	H. Hashiguchi	Kyoto Univ.	Development of MIMO radar techniques using the MU radar
A56	M. Okazaki	Kyoto Univ.	Three-dimensional temporal evolution of drop size distributions in a mixed stratiform and convective precipitation system
A57	T. Maruyama	Kyoto Univ.	Study of the microscale structure of atmospheric boundary layer using the small high-resolution Doppler LiDAR
A58	H. Hashiguchi	Kyoto Univ.	Development of Real-time Processing System with Adaptive Clutter Rejection for the MU Radar and LQ-7
A59	T. Hashimoto	NIPR	Data quality evaluation of the SSR meteorological observation system
A60	T. Shimomai	Shimane Univ.	Observations of small scale atmospheric waves by all sky cameras at Shigaraki
A61	M. Yabuki	Kyoto Univ.	Research on advanced technology for temperature and water vapor Raman lidar
A62	L. Nofel	Kyushu Univ.	Quantification of Nighttime Cloud Coverage in Japan Using Continuously Operated Cameras
A63	H. Hashiguchi	Kyoto Univ.	Observational study of three-dimensional structure near Typhoon center
A64	T. Yoshihara	ENRI	Development and application of wind information derived from aircraft surveillance systems
A65	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A66	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A67	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A68	RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B69	S. Saito	ENRI	Validation and improvement of real-time ionospheric 3-D tomography
B70	RISH		Ionospheric Standard Observation with the MU Radar
C71	T. Shimomai	Shimane Univ.	Observations of small scale atmospheric waves by all sky cameras at Kototabang
C72	H. Hashiguchi	Kyoto Univ.	Development of EAR-RASS using Post Beam Steering technique
C73	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C74	Ina Juaeni	PRIMA, BRIN	Examination of 3-6 day disturbances at Kototabang (West Sumatera, Indonesia) based on Equatorial Atmospheric Radar Observation
C75	M. Abo	Tokyo Metro. Univ.	Monitoring of the tropospheric and stratospheric aerosols by the equatorial lidar
C76	Y. Shibata	Tokyo Metro. Univ.	Haze profile measurement over Sumatra Island Indonesia using polarization lidar
C77	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C78	H. Hashiguchi	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
D79	Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
D80	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D81	M. Nishioka	NICT	Observation of plasma bubble using data of EAR, SEALION and ground-based GPS receivers
D82	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
E83	H. Hashiguchi	Kyoto Univ.	Development of MU radar phase calibration system
FD84	S. Shige	Kyoto Univ.	Estimation of vertical air motion within precipitating clouds and its application to the study of precipitation processes
BD85	T. Takami	Osaka E.-C. Univ.	Big Data Processing and Data Visualization Using Ionospheric IS Observation Data
BD86	T. Yokoyama	Kyoto Univ.	Construction of MU radar ionospheric observation database to contribute to IRI model
BD87	H. Hashiguchi	Kyoto Univ.	Study of Ionospheric Structure and Dynamics in the F Region Using MU Radar and Ionosonde Data
CD88	Marzuki	Andalas Univ.	Variability of rain drop size distribution at Kototabang and Sicincin
CD89	Marzuki	Andalas Univ.	Variability of Tropospheric Wind and Cloud Layer at Kototabang for each Madden-Julian Oscillation (MJO) phase from Equatorial Atmospheric Radar Observation, ERA-5 and Ceilometer Data
CD90	Wendi Harjupa	PRIMA, BRIN	Study of Orographic enhancement mechanism during MJO over Sumatera Islands Using EAR, XDR and ERA5 Data
CD91	Didi Satiadi	PRIMA, BRIN	Investigation of Convective Trigger Criteria Based on Observation at Kototabang Station
CD92	Findy Renggono	PRIMA, BRIN	Study on drop size distributions based on Equatorial Atmosphere Radar observations
CD93	Noersomadi	PRIMA, BRIN	Study on Equatorial Troposphere-Stratosphere Variability using EAR-RASS Observation, Radiosonde and GNSS Radio Occultation
DD94	Yuanlin Jia	Wuhan Univ.	Study of irregularities in the F layer at midnight
E95	Devin Huyghebaert	UiT	GEMINIDs 2023 - Meteor Head Echo Measurements from Multiple Global High Powered Large Aperture Radar Systems