

Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in December 2022-May 2023

Project No.	Reception No.	PI	Affiliation	Research Title
L45	C04	S. Shige	Kyoto Univ.	Observation of precipitating ice particles in regions of stratiform precipitation
F46	G31	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
F47	G02	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
A48	G41	K. Nishimura	Kyoto Univ.	Renewing the Observation and Analysis Methods based on the Spectral Inverse Scattering Theory
A49	G29	T. Matsuda	Kyoto Univ.	Development of MIMO radar techniques using the MU radar
A50	G28	H. Hashiguchi	Kyoto Univ.	Development of Real-time Processing System with Adaptive Clutter Rejection for the MU Radar and LQ-7
A51	G44	T. Shimomai	Shimane Univ.	Observations of small scale atmospheric waves by all sky cameras at Shigaraki
A52	G39	M. Yabuki	Kyoto Univ.	Research on advanced technology for temperature and water vapor Raman lidar
A53	G40	L. Nofel	Chiba Univ.	Quantification of Nighttime Cloud Coverage in Japan Using Continuously Operated Cameras
A54	G15	T. Yoshihara	ENRI	Quality evaluation and new utilization of meteorological observational information derived from broadcasted messages by aircraft onboard transponders
A55	G17	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A56	G25	S. Mori	JAMSTEC	Maritime Continent automatic dependent Air-sea observation Network (MaCAN)
A57	G05	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A58	G10	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A59	G45	M. Kohma	Univ. of Tokyo	Observations on the acquisition of small satellites by the MU radar
A60		RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B61	G34	S. Abe	Nihon Univ.	Simultaneous Ultra-faint Meteor Observation using MU Radar and Kiso Schmidt Telescope with Tomo-e GOZEN Camera
B62	G35	H. Takasaki	Kyoto Univ.	Practical Study of LEO Debris and Satellites by Using the MU Radar
B63	G46	H. Kojima	Kyoto Univ.	Observations on the acquisition of small satellites by the MU radar
B64	G43	S. Saito	ENRI	Validation and improvement of real-time ionospheric 3-D tomography
B65		RISH		Ionospheric Standard Observation with the MU Radar
C66	G30	H. Hashiguchi	Kyoto Univ.	Development of real-time ray-tracing and wind correction methods for EAR-RASS
C67	G38	P. Anis	BRIN	The Utilization of Ceilometer for Analyzing Convective Activity Initiation and Moisture Budget during MJO over Kototabang
C68	G18	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C69	G07	M. Abo	Tokyo Metro. Univ.	Monitoring of the tropospheric and stratospheric aerosols by the equatorial lidar
C70	G01	Y. Shibata	Tokyo Metro. Univ.	Observations of vertical haze profile using polarized lidar over equatorial Indonesia
C71	G20	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C72	G03	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C73	G22	H. Hashiguchi	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
D74	G42	Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
D75	G11	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D76	G16	K. Hozumi	NICT	Observation of plasma bubble using data of EAR, SEALION and ground-based GPS receivers
D77	G23	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
E78	G33	H. Hashiguchi	Kyoto Univ.	Development of MU radar phase calibration system
AD79	D03	S. Shige	Kyoto Univ.	Study on Stratiform Precipitation Processes
BD80	D04	H. Takasaki	Kyoto Univ.	Development of Orbital Prediction Model for LEO Debris and Satellites by Using the MU Radar Data
CD81	D05	Marzuki	Andalas Univ.	Variability of rain drop size distribution at Kototabang and Sicincin
CD82	D06	Marzuki	Andalas Univ.	Variability of Tropospheric Wind and Cloud Layer at Kototabang for each Madden Julian Oscillation phase
BD83	D01	T. Takami	Osaka E.-C. Univ.	Big Data Processing and Data Visualization Using Ionospheric IS Observation Data
CD84	D02	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations

Reception No. CXX: 2022-RISH-MU/EAR-Campaign-000XX
GXX: 2022-RISH-MU/EAR-General-000XX
DXX: 2022-RISH-MU/EAR-Database-000XX