Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in June-November 2022

Project No.	Reception No.	PI	Affiliation	Research Title
L01	C01	S. Shige	Kyoto Univ.	Observation of precipitating ice particles in regions of stratiform precipitation
L02	C02	L. Kantha	Univ. Colorado	Shigaraki UAV Radar Lidar Experiment (ShURLEX) 2022
L03	C03	H. Luce	Kyoto Univ.	Measurements of atmospheric parameters from a Doppler Lidar, MU radar and LQ7 wind profiler
F04	G08	J.-S. Chen	China Medical Univ.	Collaborative observations of ionospheric E and F plasma irregularities at equator, low and middle latitudes
F05	G02	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
F06	G36	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
A07	G19	K. Nishimura	Kyoto Univ.	Renewing the Observation and Analysis Methods based on the Spectral Inverse Scattering Theory
A08	G21	T. Matsuda	Kyoto Univ.	Development of MIMO radar techniques using the MU radar
A09	G06	H. Hashiguchi	Kyoto Univ.	Observational study of three-dimensional structure near Typhoon center
A10	G12	E. Nakakita	Kyoto Univ.	Observation Analysis of Bimodal Raindrop Size Distribution and Physical Mechanism of Its Formation
A11	G15	T. Yoshihara	ENRI	Developmetnt of a correction method for wind conditions derived from broadcasted messages by aircraft onboard transponders and its utilization
A12	G17	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A13	G25	S. Mori	JAMSTEC	Maritime Continent automatic dependent Air-sea observation Network (MaCAN)
A14	G24	T. Shimomai	Shimane Univ.	Observations of small scale atmospheric waves by all sky cameras at Shigaraki
A15	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
A16	G10	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A17	G04	M. Kohma	Univ. Tokyo	Field training of radiosonde observation for undergraduate students
A18	G09	H. Hashiguchi	Kyoto Univ.	Field Laboratories in Multi-scale Earth Dynamics II
A19	G31	H. Hashiguchi	Kyoto Univ.	Development of MU Radar Real-time Processing System with Adaptive Clutter Rejection
A20	G26	M. Yabuki	Kyoto Univ.	Development of a compact rotational Raman lidar for temperature measurements
A21		RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B22	G14	K. Hosokawa	Univ. of Electro-Communications	Integrated observations of sporadic E with MU radar and HF Doppler sounder
B23	G28	S. Saito	ENRI	Validation of real-time ionospheric 3-D tomography
B24		RISH		Ionospheric Standard Observation with the MU Radar
C25	G13	H. Hashiguchi	Kyoto Univ.	Development of real-time ray-tracing and wind correction methods for EAR-RASS
C26	G18	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C27	G07	M. Abo	Tokyo Metro. Univ.	Monitoring of the tropospheric and stratospheric aerosols by the equatorial lidar
C28	G01	Y. Shibata	Tokyo Metro. Univ.	Observations of vertical haze profile using polarized lidar over equatorial Indonesia
C29	G20	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C30	G03	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C31	G22	H. Hashiguchi	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
C32	G29	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
D33	G11	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D34	G16	K. Hozumi	NICT	Plasma bubble monitoring by ground-based observation in Southeast Asia
D35	G23	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
D36	G32	Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
E37	G34	H. Hashiguchi	Kyoto Univ.	Development of MU radar phase calibration system
BD38	D01	T. Takami	Osaka E.-C. Univ.	Big Data Processing and Data Visualization Using Ionospheric IS Observation Data
CD39	D02	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
FD40	D03	M. Kohma	Univ. of Tokyo	A study of the climatological characteristics of turbulent energy dissipation rates based on the MU radar, Equatorial Atmosphere Radar, and PANSY radar observations
CD41	D04	S. Shige	Kyoto Univ.	Study on Stratiform Precipitation Processes
CD42	D06	Marzuki	Andalas Univ.	Variability of rain drop size distribution at Kototabang and Sicincin
DD43	D05	M. Dyah Rahayu	LAPAN	A Multi-instruments and Multi-scales Study of Ionospheric Irregularities over South-East Asia as a Part of Space Situational Awareness
A44	G27	T. Maruyama	Kyoto Univ.	Elucidation of microstructure in the lower boundary layer using the latest small Doppler Lidar

Reception No.
CXX: 2022-RISH-MU/EAR-Campaign-000XX
GXX: 2022-RISH-MU/EAR-General-000XX (XX < 28) / 2021-RISH-MU/EAR-General-000XX (XX > 28)
DXX: 2022-RISH-MU/EAR-Database-000XX (XX < 03) / 2021-RISH-MU/EAR-Database-000XX (XX >= 03)