Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in June-November 2020

Project No.	Reception No.	PI	Affiliation	Research Title
L01	C01	L. Kantha	Univ. Colorado	Shigaraki UAV Radar Experiment (ShUREX 2020)
F01	G23	Y. Otsuka	Nagoya Univ.	150-km echo observations using EAR and MU radar
F02	G04	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
F03		Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
A04	G31	M. Tsutsumi	NIPR	Test observations for PANSY radar operations
A05	G15	J.-S. Chen	China Medical Univ.	3D radar imaging of precipitation using multireceiver and multifrequency techniques
A06	G09	T. Matsuda	Kyoto Univ.	Development of MIMO radar techniques using the MU radar
A07	G03	H. Hashiguchi	Kyoto Univ.	Observational study of three-dimensional structure near Typhoon center
A08	G13	T. Yoshihara	ENRI	Quality evaluation and new utilization of meteorological observational information derived from broadcasted messages by aircraft onboard transponders
A09	G17	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A10	G07	H. Hashiguchi	Kyoto Univ.	Development of a low noise RASS observation system using a parametric array
A11	G22	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A12	G21	M. Yabuki	Kyoto Univ.	A study on radio-optical atmospheric probing techniques for spatiotemporal distributions of water vapor
A13	G27	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A14	G01	M. Yabuki	Kyoto Univ.	Earth science field experiments (Nara Women's University)
A15	G28	H. Hashiguchi	Kyoto Univ.	Field Laboratories in Multi-scale Earth Dynamics II
A16		H. Hashiguchi	Kyoto Univ.	Development of MU Radar Real-time Processing System with Adaptive Clutter Rejection
A17		M. Yabuki	Kyoto Univ.	Development of a compact rotational Raman lidar for temperature measurements
A18		Y. Saito	Shinshu Univ.	Validation of bioaerosol monitoring using a laser-induced fluorescence spectrum lidar
A19		RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B20	G20	H. Sato	DLR	Meter-scale density irregularities associated with midlatitude TIDs
B21		S. Saito	ENRI	Validation of real-time ionospheric 3-D tomography
B22		RISH		Ionospheric Standard Observation with the MU Radar
C23	G06	H. Hashiguchi	Kyoto Univ.	Development of real-time ray-tracing and wind correction methods for EAR-RASS
C24	G14	Noersomadi	LAPAN	Study on the turbulence intensity in the tropical tropopause layer (TTL) using Equatorial Atmosphere Radar
C25	G11	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C26	G18	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C27	G24	M. Abo	Tokyo Metro. Univ.	Monitoring of the tropospheric and stratospheric aerosols by the equatorial lidar
C28	G16	Y. Shibata	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C29	G08	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C30	G05	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C31	G29	T. Shimomai	Shimane Univ.	Observation of small scale atmospheric waves by an all sky camera at Kototabang
C32	G30	H. Hashiguchi	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
C33		Marzuki	Andalas Univ.	Long-Term Observation of Vertical Profile of Raindrop Size Distribution over Sumatra
D34	G12	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D35	G10	M. Nishioka	NICT	Study of generation and propagation mechanism of equatorial spread-F using data of EAR and SEALION
D36	G19	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
D37		Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
E38	G26	K. Nishimura	ROIS	Renewing the observation and analysis methods based on the Spectral inverse scattering theory
E39		H. Hashiguchi	Kyoto Univ.	Development of MU radar phase calibration system
BD40	D03	M. Yamamoto	Kyoto Univ.	Study on the generation of equatorial plasma bubbles over Southeast Asia using radar and GNSS receiver network observations
CD41	D01	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
CD42	D02	Wendi Harjupa	LAPAN	Real Time Atmospheric Observation Data Integration to Support the Development of LAPAN SADEWA System
DD43	D04	Guozhu Li	IGGCAS	Study on the generation of equatorial plasma bubbles over Southeast Asia using EAR, Sanya VHF radar and GNSS receiver network observations

Reception No. CXX: 2020-RISH-MU/EAR-Campaign-000XX
GXX: 2020-RISH-MU/EAR-General-000XX
DXX: 2020-RISH-MU/EAR-Database-000XX