

Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in December 2020-May 2021

Project No.	Reception No.	PI	Affiliation	Research Title
L44	C04	K. Sato	Univ. of Tokyo	Simultaneous observation campaign with worldwide MST/IS radar network
F45	G36	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
F46	G04	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
A47	G32	T. Matsuda	Kyoto Univ.	Development of MIMO radar techniques using the MU radar
A48	G39	K. Nishimura	ROIS	Renewing the observation and analysis methods based on the Spectral inverse scattering theory
A49	G33	H. Hashiguchi	Kyoto Univ.	Development of MU Radar Real-time Processing System with Adaptive Clutter Rejection
A50	G35	M. Yabuki	Kyoto Univ.	Development of a compact rotational Raman lidar for temperature measurements
A51	G34	K. Sato	Univ. of Tokyo	Field training of radiosonde observation for undergraduate students
A52	G13	T. Yoshihara	ENRI	Quality evaluation and new utilization of meteorological observational information derived from broadcasted messages by aircraft onboard transponders
A53	G17	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A54	G07	H. Hashiguchi	Kyoto Univ.	Development of a low noise RASS observation system using a parametric array
A55	G22	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A56	G21	M. Yabuki	Kyoto Univ.	A study on radio-optical atmospheric probing techniques for spatiotemporal distributions of water vapor
A57	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
A58		RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B59	G41	S. Abe	Nihon Univ.	Simultaneous Ultra-faint Meteor Observation using MU Radar and Kiso Schmidt Telescope with Tomo-e GOZEN Camera
B60	G38	S. Saito	ENRI	Validation and improvement of real-time ionospheric 3-D tomography
B61		RISH		Ionospheric Standard Observation with the MU Radar
C62	G14	Noersomadi	LAPAN	Study on the turbulence intensity in the tropical tropopause layer (TTL) using Equatorial Atmosphere Radar
C63	G11	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C64	G18	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C65	G24	M. Abo	Tokyo Metro. Univ.	Monitoring of the tropospheric and stratospheric aerosols by the equatorial lidar
C66	G16	Y. Shibata	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C67	G08	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C68	G05	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C69	G29	T. Shimomai	Shimane Univ.	Observation of small scale atmospheric waves by an all sky camera at Kototabang
C70	G30	H. Hashiguchi	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
D71	G40	Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
D72	G12	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D73	G10	M. Nishioka	NICT	Study of generation and propagation mechanism of equatorial spread-F using data of EAR and SEALION
D74	G19	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
E75	G37	H. Hashiguchi	Kyoto Univ.	Development of MU radar phase calibration system
CD76	D05	Marzuki	Andalas Univ.	Variability of rain drop size distribution at Kototabang and Sicincin
CD77	D06	Marzuki	Andalas Univ.	Rain Classification of MRR Observation at Kototabang Using Artificial Neural Networks
BD78	D03	M. Yamamoto	Kyoto Univ.	Study on the generation of equatorial plasma bubbles over Southeast Asia using radar and GNSS receiver network observations
CD79	D01	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
CD80	D02	Wendi Harjupa	LAPAN	Real Time Atmospheric Observation Data Integration to Support the Development of LAPAN SADEWA System
DD81	D04	Guozhu Li	IGGCAS	Study on the generation of equatorial plasma bubbles over Southeast Asia using EAR, Sanva 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