Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in June-November 2019

No.	PI	Affiliation	Research Title
F01	Y. Otsuka	Nagoya Univ.	150-km echo observations using EAR and MU radar
F02	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	M. Tsutsumi	NIPR	Test observations for PANSY radar operations
A05	T. Matsuda	Kyoto Univ.	Development of MIMO radar techniques using the MU radar
A06	H. Hashiguchi	Kyoto Univ.	Observational study of three-dimensional structure near Typhoon center
A07	T. Yoshihara	ENRI	Quality evaluation and new utilization of horizontal winds derived from SSR mode S messages broadcasted by aircraft onboard transponders
A08	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A09	T. Shimomai	Shimane Univ.	DSD estimation by using the MU radar, BLR, MRR
A10	H. Hashiguchi	Kyoto Univ.	Development of a low noise RASS observation system using a parametric array
A11	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A12	M. Yabuki	Kyoto Univ.	A study on radio-optical atmospheric probing techniques for spatiotemporal distributions of water vapor
A13	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	M. Yabuki	Kyoto Univ.	Earth science field experiments (Nara Women's University)
A15	H. Hashiguchi	Kyoto Univ.	Development of MU Radar Real-time Processing System with Adaptive Clutter Rejection
A16	H. Hashiguchi	Kyoto Univ.	Development of imaging wind profiler radar and measurement of fine-scale turbulence in the lower atmosphere
A17	M. Yabuki	Kyoto Univ.	Development of a compact rotational Raman lidar for temperature measurements
A18	RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B19	Jenn-Shyong Chen	China Medical Univ.	Observations of field-aligned irregularities with multibeam, multireceiver and multifrequency techniques
B20	H. Sato	DLR	Meter-scale density irregularities associated with midlatitude TIDs
B21	S. Abe	Nihon Univ.	Simultaneous Ultra-faint Meteor Observation using MU Radar and Kiso Schmidt Telescope with Tomo-e GOZEN Camera
B22	S. Saito	ENRI	Validation of real-time ionospheric 3-D tomography
B23	RISH		Ionospheric Standard Observation with the MU Radar
C24	R. Wilson	Sorbonne Univ.	EAR and In Situ Observations in Support of Strateole-2 (EARISOS2)
C25	H. Hashiguchi	Kyoto Univ.	Development of real-time ray-tracing and wind correction methods for EAR-RASS
C26	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C27	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C28	M. Abo	Tokyo Metro. Univ.	Observation of atmospheric wave propagation from troposphere to mesosphere at equatorial region
C29	Y. Shibata	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C30	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C31	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C32	T. Shimomai	Shimane Univ.	Observation of small scale atmospheric waves by an all sky camera at Kototabang
C33	M. Yabuki	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
C34	Marzuki	Andalas Univ.	Improvement of vertical profiles of raindrop size distribution from MRR using Parsivel measurements
C35	Marzuki	Andalas Univ.	Variability of rain drop size distribution at Kototabang and Padang
C36	Marzuki	Andalas Univ.	Long-Term Observation of Vertical Profile of Raindrop Size Distribution over Sumatra
D37	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D38	T. Tsugawa	NICT	Study on the onset and propagation mechanism of equatorial spread F with EAR, NICT ionospheric observation network, and GPS receiver network
D39	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
D40	Guozhu Li	IGGCAS	Study on the generation of equatorial plasma bubbles over Southeast Asia using radar and GNSS receiver network observations
D41	Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
E42	K. Nishimura	PEDSC	Renewing the observation and analysis methods based on the Spectral inverse scattering theory
E43	M. Yamamoto	Kyoto Univ.	Feasibility study for renewal of MU radar transceiver-module controller
CD44	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
FD45	Swati Sinha	Vidyalankar Institute of Tech.	Correlation Studies of Wind Patterns at multiple Locations to Model Climate and its significance for the Projections of Continental Weather Changes
E46	T. Tsuda	Kyoto Univ.	Earth’s atmosphere environment observed with radio and optical techniques
E47	S. Sato	Kyoto Univ.	Kyoto University ILAS seminar at Shigaraki MU observatory
A48	K. Miura	Tokyo Univ. of Science	Aerosol-cloud lidar observations over mountain area