Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in December 2019-May 2020

No.	PI	Affiliation	Research Title
L49	K. Sato	Univ. of Tokyo	Simultaneous observation campaign with worldwide MST/IS radar network
F50	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
F51	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
A52	T. Matsuda	Kyoto Univ.	Development of MIMO radar techniques using the MU radar
A53	H. Hashiguchi	Kyoto Univ.	Development of MU Radar Real-time Processing System with Adaptive Clutter Rejection
A54	M. Yabuki	Kyoto Univ.	Development of a compact rotational Raman lidar for temperature measurements
A55	Y. Saito	Shinshu Univ.	Validation of bioaerosol monitoring using a laser-induced fluorescence spectrum lidar
A56	T. Yoshihara	ENRI	Quality evaluation and new utilization of horizontal winds derived from SSR mode S messages broadcasted by aircraft onboard transponders
A57	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A58	T. Shimomai	Shimane Univ.	DSD estimation by using the MU radar, BLR, MRR
A59	H. Hashiguchi	Kyoto Univ.	Development of a low noise RASS observation system using a parametric array
A60	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A61	M. Yabuki	Kyoto Univ.	A study on radio-optical atmospheric probing techniques for spatiotemporal distributions of water vapor
A62	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A63	RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B64	H. Sato	DLR	Meter-scale density irregularities associated with midlatitude TIDs
B65	S. Saito	ENRI	Validation of real-time ionospheric 3-D tomography
B66	RISH		Ionospheric Standard Observation with the MU Radar
C67	R. Wilson	Sorbonne Univ.	EAR and In Situ Observations in Support of Strateole-2 (EARISO2S)
C68	Marzuki	Andalas Univ.	Long-Term Observation of Vertical Profile of Raindrop Size Distribution over Sumatra
C69	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C70	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C71	M. Abo	Tokyo Metro. Univ.	Observation of atmospheric wave propagation from troposphere to mesosphere at equatorial region
C72	Y. Shibata	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C73	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C74	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C75	T. Shimomai	Shimane Univ.	Observation of small scale atmospheric waves by an all sky camera at Kototabang
C76	M. Yabuki	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
D77	A. Hussein	LAPAN	Ionospheric observation by EAR during solar eclipse
D78	Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
D79	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D80	T. Tsugawa	NICT	Study on the onset and propagation mechanism of equatorial spread F with EAR, NICT ionospheric observation network, and GPS receiver network
D81	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
D82	Guozhu Li	IGGCAS	Study on the generation of equatorial plasma bubbles over Southeast Asia using radar and GNSS receiver network observations
E83	H. Hashiguchi	Kyoto Univ.	Development of MU radar phase calibration system
E84	M. Yamamoto	Kyoto Univ.	Feasibility study for renewal of MU radar transceiver-module controller
CD85	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations