

Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in June-November 2018

No.	PI	Affiliation	Research Title
F01	M. Yamamoto	Kyoto Univ.	Development and test of digital receiver system for new satellite-ground beacon experiment
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	H. Hashiguchi	Kyoto Univ.	Observational study of three-dimensional structure near Typhoon center
A06	T. Yoshihara	ENRI	Quality evaluation and new utilization of horizontal winds derived from SSR mode S messages broadcasted by aircraft onboard transponders
A07	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A08	T. Shimomai	Shimane Univ.	DSD estimation by using the MU radar, BLR, MRR
A09	H. Hashiguchi	Kyoto Univ.	Development of a low noise RASS observation system using a parametric array
A10	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A11	M. Yabuki	Kyoto Univ.	A study on radio-optical atmospheric probing techniques for spatiotemporal distributions of water vapor
A12	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A13	H. Hashiguchi	Kyoto Univ.	“Field Laboratories in Multi-scale Earth Dynamics II” (Graduate School of Science, GSS)
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 University	Three-dimensional radar imaging of field-aligned irregularities with multireceiver and multifrequency techniques
B20	Chen Zhangyou	Wuhan University	Measuring vector velocity of upper atmosphere with phase information with meteor mode
B21	S. Saito	ENRI	Validation of real-time ionospheric 3-D tomography
B22	RISH		Ionospheric Standard Observation with the MU Radar
C23	J. Suzuki	JAMSTEC	Clarification the dehydration mechanism by equatorial waves through the tropical tropopause layer
C24	H. Hashiguchi	Kyoto Univ.	Development of real-time ray-tracing and wind correction methods for EAR-RASS
C25	Ibnu Fathrio	LAPAN	The use of vertical profile observation at Kototabang to support model convective parameterization selection
C26	Piotr J. Flatau	University of California	Equatorial Line Observations – ER collaboration (ELO-EAR)
C27	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C28	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C29	M. Abo	Tokyo Metro. Univ.	Observation of atmospheric wave propagation from troposphere to mesosphere at equatorial region
C30	Y. Shibata	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C31	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C32	H. Hashiguchi	Kyoto Univ.	Development of an EAR multi-channel receiving system using digital receivers
C33	T. Shimomai	Shimane Univ.	Observation of small scale atmospheric waves by an all sky camera at Kototabang
C34	Marzuki	Andalas Univ.	Variability of Vertical Structure of Rainfall over Indonesian Maritime Continent: GPM observations and Wind Profiler 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
C37	T. Tsuda	Kyoto Univ.	Observations of GNSS-PWV and GNSS-TEC at the EAR observatory
D38	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D39	T. Yokoyama	NICT	Study on the onset and propagation mechanism of equatorial spread F with EAR, NICT ionospheric observation network, and GPS receiver network
D40	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
D41	Y. Otsuka	Nagoya Univ.	Radar observations of the field-aligned irregularities in the ionosphere in Indonesia
E42	K. Nishimura	PEDSC	Development of airplane-clutter rejection technique for Troposphere
E43	H. Kojima	Kyoto Univ.	Shape and Orbit Estimation of Space Debris Using MU Radar
CD44	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
FD45	Swati Sinha	BITS Pilani Dubai Campus	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	T. Tsuda	Kyoto Univ.	A meeting on radio remote sensing of the Sustainable Humanosphere