

**Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in June-November 2016**

No.	PI	Affiliation	Research Title
L01	Lakshmi Kantha	Univ. of Colorado	Shigaraki UAV Radar Experiment (ShUREX 2016) Part 2
F02	Zonghua Ding	CRIRP	Preliminary measurement of the ionospheric Field Aligned Irregularity (FAI) using the EAR, MUR and Qujing ISR
F03	M. Yamamoto	Kyoto Univ.	Development and test of digital receiver system for new satellite-ground beacon experiment
F04	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
F05	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
A06	M. Tsutsumi	NIPR	Test observations for PANSY radar operations
A07	H. Hashiguchi	Kyoto Univ.	Observational study of three-dimensional structure near Typhoon center
A08	T. Yoshihara	ENRI	Quality evaluation and new utilization of horizontal winds derived from SSR mode S messages broadcasted by aircraft onboard transponders
A09	J. Furumoto	Kyoto Univ.	Analysis of atmospheric boundary layer using high resolution numerical model by assimilation of radar and Doppler lidar data
A10	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A11	H. Hashiguchi	Kyoto Univ.	Study of heavy thunderstorms and snowstorms affecting highway maintenance
A12	T. Shimomai	Shimane Univ.	DSD estimation by using the MU radar, BLR, MRR
A13	J. Furumoto	Kyoto Univ.	Development and evaluation of small type Doppler lidar system in Shigaraki
A14	M. Yabuki	Kyoto Univ.	Validation of air quality measurement techniques through combinations of remote-sensing and in-situ instruments
A15	M. Yabuki	Kyoto Univ.	A study on radio-optical atmospheric probing techniques for spatiotemporal distributions of water vapor
A16	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A17	H. Hashiguchi	Kyoto Univ.	In site observation of Yamase by Wind Profiler/RASS and Radiosonde
A18	H. Hashiguchi	Kyoto Univ.	“Field Laboratories in Multi-scale Earth Dynamics II” (Graduate School of Science, ARS, GSS)
A20	H. Hashiguchi	Kyoto Univ.	Development of imaging wind profiler radar and measurement of fine-scale turbulence in the lower atmosphere
A21	H. Hashiguchi	Kyoto Univ.	Development of MU Radar Real-time Processing System with Adaptive Clutter Rejection
A22	M. Yabuki	Kyoto Univ.	Development of a compact rotational Raman lidar for temperature measurements
A23	K. Yamashita	Salesian Polytechnic	Development of system for quantitative evaluation of lightning activity by using VLF receiver
A24	RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B25	S. Suzuki	Aichi Univ.	Imaging measurements of acoustic waves in the mesosphere
B26	H. Yamakawa	Kyoto Univ.	Shape Estimation and Orbit Determination of Space Debris Using MU Radar
B27	S. Abe	Nihon Univ.	Size Distributions and Orbits of Solar System Dusts determined by MU Radar Meteor Head-echo Observation
B28	Y. Otsuka	Nagoya Univ.	MU radar, KASI 40.8-MHz radar and satellite observations of the ionospheric irregularities
B29	Jenn-Shyong Chen	China Medical Univ.	Three-dimensional radar imaging of field-aligned irregularities with multireceiver and multifrequency techniques
B30	T. Iyemori	Kyoto Univ.	Effects of ionospheric E-fields, winds and lower atmospheric disturbances on geomagnetic variations
B31	RISH		Ionospheric Standard Observation with the MU Radar
C32	Ina Juaeni	LAPAN	Evaluating the atmospheric instability indicator by EAR and RASS
C33	T. Tsuda	Kyoto Univ.	Development of Sound Source System and a Ray-tracing Method for EAR-RASS
C34	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C35	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C36	S. Sridharan	NARL	EAR observations of gravity waves over Koto Tabang (0.2S, 100.3E)
C37	M. Abo	Tokyo Metro. Univ.	Observation of atmospheric wave propagation from troposphere to mesosphere at equatorial region
C38	Y. Shibata	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C39	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C40	T. Shimomai	Shimane Univ.	Observation of small scale atmospheric waves by an all sky camera at Kototabang
C41	T. Shimomai	Shimane Univ.	Evaluation of GPM-DPR observation data at Kototabang
C42	Marzuki	Andalas Univ.	Variability of Vertical Structure of Rainfall over Indonesian Maritime Continent: GPM observations and Wind Profiler Measurements
C43	Marzuki	Andalas Univ.	Variability of rain drop size distribution at Kototabang and Padang
C44	Marzuki	Andalas Univ.	Long-Term Observation of Vertical Profile of Raindrop Size Distribution over Sumatra
C45	H. Hashiguchi	Kyoto Univ.	Overseas field training in Equatorial Atmosphere Observatory
D46	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D47	T. Yokoyama	NICT	Study on the onset and propagation mechanism of equatorial spread F with EAR, NICT ionospheric observation network, and GPS receiver network
D48	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
D49	Y. Otsuka	Nagoya Univ.	Observations of the field-aligned irregularities in the ionosphere using the EAR and 30.8 MHz radar
CD50	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
B51	T. Iyemori	Kyoto Univ.	USSS Summer School 2016
A52	T. Tsuda	Kyoto Univ.	“Learn in English” Summer Program (LESP) of ILAS