

**Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in December 2013-May 2014**

No.	PI	Affiliation	Research Title
F51	A. Saito	Kyoto Univ.	Coordinated observation of the MU radar and EAR with the ISS-IMAP mission
F52	M. Yamamoto	Kyoto Univ.	MU radar and Equatorial Atmosphere Radar observations for international campaign along 120E/60W meridional circle
F53	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
F54	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
A55	M. Yabuki	Kyoto Univ.	Development of a compact rotational Raman lidar for temperature measurements
A56	J. Furumoto	Kyoto Univ.	Elucidation of vertical structure of Hira-Oroshi using meteorological balloon measurement
A57	H. Hashiguchi	Kyoto Univ.	Study of heavy thunderstorms and snowstorms affecting highway maintenance
A58	T. Shimomai	Shimane Univ.	DSD estimation by using the MU radar, BLR, MRR
A59	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A60	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A61	K. Takahashi	Kyoto Univ.	Characterization of surface air quality through measurements of trace gases and aerosol particles
A62	M.K. Yamamoto	Kyoto Univ.	Development of imaging wind profiler radar and measurement of fine-scale turbulence in the boundary layer
A63	T. Nakajo	Fukui Univ. of Tech.	Detailed observation of vertical structure of atmospheric boundary layer by using range-imaging wind profiler radars
A64	H. Seko	MRI	Estimation of the ground-level humidity variation by detecting transmitted radio-wave from LQ-7
A65	J. Furumoto	Kyoto Univ.	Low noise RASS system for L-band wind profiling radar by using the high directional horn speaker
A66	M. Yabuki	Kyoto Univ.	Development of advanced technologies of a lidar system
A67	RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B68	H. Yamakawa	Kyoto Univ.	Measurement of Space Debris Using MU Radar
B69	S. Abe	Nihon Univ.	Orbital Distribution of Geminid Meteoroids
B70	J. Kero	IRF	The Geminid meteor shower activity
B71	J. Kero	IRF	The Quadrantid meteor shower
B72	J. Kero	IRF	The Camelopardalis outburst from comet 209P/LINEAR
B73	T. Iyemori	Kyoto Univ.	Effects of ionospheric E-fields, winds and lower atmospheric disturbances on geomagnetic variations
B74	RISH		Ionospheric Standard Observation with the MU Radar
C75	M.K. Yamamoto	Kyoto Univ.	Enhancement of range imaging measurement capability of the Equatorial Atmosphere radar by the new digital receiver
C76	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C77	H. Hashiguchi	Kyoto Univ.	Observational study on vertical characteristics of precipitation in the tropics
C78	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
C79	H. Hashiguchi	Kyoto Univ.	Study on intra-seasonal oscillation based on radar network over maritime continent
C80	T. Shimomai	Shimane Univ.	Vertical profiles of raindrop size distribution at Kototabang
C81	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C82	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C83	M. Abo	Tokyo Metro. Univ.	Observation of atmospheric wave propagation from troposphere to mesosphere at equatorial region
C84	C. Nagasawa	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C85	Marzuki	Kyoto Univ.	Variability of Vertical Structure of Rainfall over Indonesian Maritime Continent: TRMM observations and Wind Profiler Measurements
D86	Y. Otsuka	Nagoya Univ.	Observations of the field-aligned irregularities in the ionosphere using the EAR and 30.8 MHz radar
D87	T. Tsugawa	NICT	Study on the onset and propagation mechanism of equatorial spread F with EAR, NICT ionospheric observation network, and GPS receiver network
D88	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D89	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
CD90	M.K. Yamamoto	Kyoto Univ.	Study on small-scale turbulence in the tropical troposphere using range imaging with the Equatorial Atmosphere Radar
DD91	Guozhu Li	IGG, CAS	The regional occurrence and dynamics of ionospheric irregularities in Southeast Asia
B92	S. Abe	Nihon Univ.	Orbital Distribution of Andromedids
AD93	K. Shoji	JMA	Investigation on generating factor of transverse band (TVB)