

Collaborative Research based on MU Radar and Equatorial Atmosphere Radar in June-November 2013

No.	PI	Affiliation	Research Title
L01	H. Luce	Toulon Univ.	Tropospheric turbulence detection from Rayleigh lidar: technique validation from concurrent observations with MUR and radiosondes
F02	S. Sridharan	NARL	Investigation of the seeding mechanisms for the quasi-periodic radar echoes from the E-region Field Aligned Irregularities
F03	A. K. Patra	NARL	Role of the mid-latitude processes on the formation and evolution of equatorial plasma bubble
F04	A. K. Patra	NARL	Estimation of turbulence parameters using MUR and EAR observations
F05	A. Saito	Kyoto Univ.	Coordinated observation of the MU radar and EAR with the ISS-IMAP mission
F07	K. Shiokawa	Nagoya Univ.	Cooperative observation of the upper atmosphere using the Optical Mesosphere Thermosphere Imagers, EAR, and the MU radar
F08	Y. Maekawa	Osaka E.-C. Univ.	A study on the effects of precipitating clouds on the propagation paths of satellite communications
A09	L. Kantha	Colorado Univ.	Synergistic Use of MU Radar and Radiosondes to Monitor Turbulence in the Free Atmosphere
A10	M. Tsutsumi	NIPR	Test observation of PANSY radar in the Shigaraki MU Observatory
A11	K. Yamaguchi	Kyoto Univ.	3D Modeling of Precipitation Process Based on the Direct-Observation of the Vertical Profile of Raindrop Size Distribution
A12	J. Furumoto	Kyoto Univ.	Improvement in the vertical resolution of precipitation echo observation with oversampling mode and the simultaneous observation with the phased array meteorological radar
A13	H. Hashiguchi	Kyoto Univ.	Observational study of three-dimensional structure near Typhoon center
A14	K. Sato	Kyoto Univ.	"Field Laboratories in Multi-scale Earth Dynamics II" (GCOE-ARS, GSS, Grad. Science)
A15	H. Hashiguchi	Kyoto Univ.	Study of heavy thunderstorms and snowstorms affecting highway maintenance
A16	T. Shimomai	Shimane Univ.	DSD estimation by using the MU radar, BLR, MRR
A17	Y. Shibagaki	Osaka E.-C. Univ.	Studies on Development and Organization of Frontal Disturbances with MU and Meteorological Radars
A18	E. Nakakita	Kyoto Univ.	Hydrologic Cycle Analysis on Forest Watershed Using Forest Tower Observation, and Feasibility of Observation by Remote Sensing Technique for Validation
A19	K. Takahashi	Kyoto Univ.	Characterization of surface air quality through measurements of trace gases and aerosol particles
A20	M.K. Yamamoto	Kyoto Univ.	Development of imaging wind profiler radar and measurement of fine-scale turbulence in the boundary layer
A21	T. Nakajo	Fukui Univ. of Tech.	Detailed observation of vertical structure of atmospheric boundary layer by using range-imaging wind profiler radars
A22	H. Seko	MRI	Estimation of the ground-level humidity variation by detecting transmitted radio-wave from LQ-7
A23	J. Furumoto	Kyoto Univ.	Low noise RASS system for L-band wind profiling radar by using the high directional horn speaker
A24	M. Yabuki	Kyoto Univ.	Development of advanced technologies of a lidar system
A25	M. Yamamoto	Kyoto Univ.	Observational study of Yamase with Wind Profiler/RASS and Radiosonde
A26	RISH		Middle Atmosphere Standard Observation with the MU Radar (GRATMAC)
B27	M. Tsutsumi	NIPR	Development of improved meteor observation with the MU radar
B28	Y. Otsuka	Nagoya Univ.	MU radar, KASI 40.8-MHz radar and satellite observations of the ionospheric irregularities
B29	M. Yamamoto	Kyoto Univ.	Simultaneous observation of ionosphere E- and F-region irregularity between MU radar and satellite/rocket
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	H. Hashiguchi	Kyoto Univ.	Observational study on fine structure of clear air turbulence in the tropical troposphere
C33	H. Hashiguchi	Kyoto Univ.	Observational study on vertical characteristics of precipitation in the tropics
C34	H. Hashiguchi	Kyoto Univ.	Overseas field training in Equatorial Atmosphere Observatory
C35	Findy Renggono	BPPT	Study on drop size distributions based on Equatorial Atmosphere Radar observations
C36	H. Hashiguchi	Kyoto Univ.	Study on intra-seasonal oscillation based on radar network over maritime continent
C37	T. Shimomai	Shimane Univ.	Vertical profiles of raindrop size distribution at Kototabang
C38	Y. Shibagaki	Osaka E.-C. Univ.	Multi-scale structure of convective systems in Indonesian Maritime Continent
C39	S. Mori	JAMSTEC	Temporal modulation of eastward moving convective intraseasonal variation (ISV) passing over the Indonesian maritime continent
C40	M. Abo	Tokyo Metro. Univ.	Observation of atmospheric wave propagation from troposphere to mesosphere at equatorial region
C41	C. Nagasawa	Tokyo Metro. Univ.	Lidar observation of the equatorial ozone in the tropopause region
C42	Marzuki	Kyoto Univ.	Variability of Vertical Structure of Rainfall over Indonesian Maritime Continent: TRMM observations and Wind Profiler Measurements
D43	Y. Otsuka	Nagoya Univ.	Observations of the field-aligned irregularities in the ionosphere using the EAR and 30.8 MHz radar
D44	T. Tsugawa	NICT	Study on the onset and propagation mechanism of equatorial spread F with EAR, NICT ionospheric observation network, and GPS receiver network
D45	S. Saito	ENRI	Studies of spatial gradient in TEC and plasma bubble monitoring for GNSS
D46	M. Yamamoto	Kyoto Univ.	Study of equatorial Spread-F with satellite-ground beacon experiment and the Equatorial Atmosphere Radar
CD47	M.K. Yamamoto	Kyoto Univ.	Study on small-scale turbulence in the tropical troposphere using range imaging with the Equatorial Atmosphere Radar
DD48	Guozhu Li	IGG, CAS	The regional occurrence and dynamics of ionospheric irregularities in Southeast Asia
B49	J.-S. Chen	Chienkuo Tech. U.	Field-aligned irregularities observed with multiple-frequency and multiple-receiver techniques
A50	J. Furumoto	Kyoto Univ.	First experiment of a New type high power Doppler-Lidar system in Shigaraki