Appendix J-3

List of facilities, observation equipment, and laboratory equipment（FY 2017）

Please Refer the detailed list at Joint usage page（http://www.eri.u-tokyo.ac.jp/en/XXX....

(facilities)

Joint Usage Code and Name of facility/equipment	Information of facility	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2017-F1-01 Tsukuba Seismological Observatory Aburatsubo Geophysical Observatory Nokogiriyama Geophysical Observatory Wakayama Seismological Observatory Hiroshima Seismological Observatory Yahiko Geophysical Observatory Dodaira Seismological Observatory Shin-etsu Seismological Observatory Fujigawa Geophysical Observatory Muroto Geophysical Observatory Observatories and facilities	Nokogiriyama： http://eoc.eri.u-tokyo.ac.jp/GOP/ngy.html (only Japanese) Wakayama： http://www.eri.u-tokyo.ac.jp/WSO/index.html (only Japanese) Fujigawa： http://www.eri.u-tokyo.ac.jp/fujigawa/indexJ.html (only Japanese) Muroto： http://eoc.eri.u-tokyo.ac.jp/GOP/Mrt/indexM.html (only Japanese)	○Head of Center for Geophysical Observation and Instrumentation	Must contact with the responsible person prior to the application	Any time, as needed.
2017-F1-02 Yatsugatake Geo-electromagnetic Observatory		○OGAWA Tsutomu	Must contact with the responsible person prior to the application	Any time, as needed.
2017-F1-03 Asama Volcano Observatory Komoro observatory of Seismology and Volcanology Izu-Oshima Volcano Observatory Kirishima Volcano Observatory		○Head of Center for Geophysical Observation and Instrumentation	Must contact with the responsible person prior to the application	Any time, as needed.

(observation equipment)

Joint Usage Code and Name of facility/equipment	Information of Equipment	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2017-F2-01 Nation-wide earthquake data transfer by satellite communication system	http://eoc.eri.u-tokyo.ac.jp/eisei_system/riyou/data_jushin_riyou.htm (only Japanese)	○SAKAI Shinichi	設置，設定，維持は利用者で行うことが条件であるが，事前に担当教員と打ち合わせること．別途，データ受信に関する利用申請が必要.	Any time, as needed.
2017-F2-02 Temporal seismic data acquisition systems (incl. data transfer units, seismometers and recording units)	http://eoc.eri.u-tokyo.ac.jp/eisei_system/riyou/vsat_riyou.htm (only Japanese) http://eoc.eri.u-tokyo.ac.jp/eisei_system/riyou/chijo_souti.htm (only Japanese)	○SAKAI Shinichi, IWASAKI Takaya	Must contact with the responsible person prior to the application. Not always available for period of specific research projects.	Any time, as needed.
2017-F2-03※ GPS observation equipments: 27 sets	JAVAD GPS receiver: SIGMA-G2T JAVAD GPS antenna: GrAnt-G3T	○KATO Teruyuki	Contact to the responsible person before application is required. Joint usage is subject to forced termination due to any urgent occasions	Any time, as needed.
2017-F2-04 Broadband-MT instruments	Metronix 1) Main unit: ADU07 8 sets ADU07e 11 sets 2) Induction coils MFS06: 24 coils MFS07: 4 coils MFS06e: 12 coils MFS07e: 21 coils Phoenix 1) induction coils MTC50 3 coils Basically, 5 component data (2-component E-field and 3-component H-field) can be measured. Sample frequency is 2^n Hz up to 524 kHz. In addition, we have some other items necessary to the MT survey, such as, various batteries and electrodes.	○UYESHIMA Makoto	Must contact with the responsible person prior to the application. Please recognize that we cannot let you use the instruments if we have some field campaigns. If you are benefitted with this service, please do not fail to acknowledge the ERI's Joint Usages in your presentations, reports or papers.	Any time, as needed.

Joint Usage Code and Name of facility/equipment	Information of Equipment	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2017-F2-05 Network-MT voltage difference measurement system	SES93: 8 channel 20 bit voltage difference acquisition systems developed by ADOSYSTEMS. We have about 20 instruments. Sampling interval is 0.1, 1 or 10 s. SESNET93: Data transfer units.	○UYESHIMA Makoto	Must contact with the responsible person prior to the application. Please recognize that we cannot let you use the instruments if we have some field campaigns. If you are benefitted with this service, please do not fail to acknowledge the ERI's Joint Usages in your presentations, reports or papers.	Any time, as needed.
2017-F2-06※ Marine heat flow measurement system	The system consists of a data logger, probes, temperature sensors, weight, and an acoustic pinger. Heat flow is measured by penetrating a probe equipped with multiple temperature sensors into seafloor sediment. An instrument for thermal conductivity measurement on sediment samples (Quick Thermal Conductivity Meter, Kyoto Electronics Manufacturing Co., Ltd.) is also available.	○YAMANO Makoto	Users must have an experience in marine heat flow measurement, unless they conduct cooperative research with the Earthquake Research Institute.	Any time, as needed.
2017-F2-07 Portable broadband seismic observation system (1)	Broadband seismometers: CMG3T,STS2 Recorders: REKTEK130 40 sets	○KAWAKATSU Hitoshi	Data have to become open in public at the data center of OHRC, ERI after 2-3 years of moratorium period. For the system availability, consult with the contact person.	Any time, as needed.
2017-F2-08※ Portable broadband seismic observation system (2)	Broadband seismometers (Nanometrics Inc., Canada) Trillium 120PA Number of equipment: 14	○OIKAWA Jun	Must contact with the responsible person prior to the application.	Any time, as needed.
2017-F2-09※ Absolute gravimeter	FG5 gravimeter with 1-2 microgal accuracy manufactured by microg-Lacoste corp., U.S.A.	○OKUBO Shuhei	Must contact with the responsible person prior to the application.	Any time, as needed.
2017-F2-10※ Lacoste & Romberg Land gravimeter	Spring gravimeter with 10 microgal accuracy manufactured by microg-Lacoste corp., U.S.A.	○OKUBO Shuhei	Operational instruction should be understood.	Any time, as needed.

Joint Usage Code and Name of facility/equipment	Information of Equipment	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2017-F2-11※ Potable strong motion observation system	Potable strong motion observation system (Revision of SMAR-6A3P) 16 equipment with amplifier (16 JEP-6A3P　sensors with 1V/G) (Akashi Corporation) 5 equipment without amplifier (5 JEP-6A3P sensors with 10V/G) (Akashi Corporation) 10 logger LS-7000XT (Hakusan Corporation) 10 logger LS-7000 (Hakusan Corporation) ※A single set consists of an equipment and a logger. ※20 sets are available. ※Amplifier gain is a multiplication of 1, 20, 50, 100 and 0.1, 1, 10, 100.	○KOKETSU Kazuki	Must contact with the responsible person prior to the application. Need to acknowledge in the publications. Need to send a copy of the publication.	Any time, as needed.
2017-F2-12 Volcanic gas observation system		○OIKAWA Jun	Must contact with the responsible person prior to the application.	Any time, as needed.
2017-F2-13 Ultra-long period MT instruments	LEMI-417 fluxgate MT observation instruments. We have 6 instruments. 4 component E-fields and 3-component H-fields can be measured with 1s sampling.	○UYESHIMA Makoto, SHIMIZU Hisayoshi	Must contact with the responsible person prior to the application. Please recognize that we cannot let you use the instruments if we have some field campaigns. If you are benefitted with this service, please do not fail to acknowledge the ERI's Joint Usages in your presentations, reports or papers.	Any time, as needed.
2017-F2-14 High accuracy gyro-compass system	A SOKIA's GP1X manual gyro-compass system. Measurement accuracy is 20 angle-seconds.	○UYESHIMA Makoto, SHIMIZU Hisayoshi	Must contact with the responsible person prior to the application. If you are benefitted with this service, please do not fail to acknowledge the ERI's Joint Usages in your presentations, reports or papers.	Any time, as needed.

Joint Usage Code and Name of facility/equipment	Information of Equipment	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2017-F2-15※ 3D deep-sea current profiler system	NORTEK Aquadopp - 6000 m 1 system (http://www.nortek-as.com/en/products/CurrentMeter/Aquadopp6k) A current profiling system by combination of the Doppler current profiler (Aquadopp) and the Ti sphere transponder system of a self pop-up recovery, which enables 10 s interval observation of more than one-year-long by the external power supply. Use of the current profiler only is also available.	○SHIOBARA Hajime	Must contact with the responsible person prior to the application.	Any time, as needed.
2017-F2-16 High accuracy broad-band voltage difference measurement instruments	NT System Design's Elog1k. We can measure 2-component voltage differences at 1024Hz or 32 Hz with 24 bit accuracy. Very low power consumption (1.8W).	○UYESHIMA Makoto,	Must contact with the responsible person prior to the application. If you are benefitted with this service, please do not fail to acknowledge the ERI's Joint Usages in your presentations, reports or papers.	Any time, as needed.
2017-M-01 Specific equipment・Seismometers (1Hz, Lennarz electronic GmbH)	LE-3Dlite MkII 20 sets	○Center for Geophysical Observation and Instrumentation	Normal usage period (less than 2 months) Application required for longer usage in June.	Any time, as needed.
2017-M-02 Specific equipment・Broad-band seismometers	Trillium-120PA 6 sets	○Center for Geophysical Observation and Instrumentation	Normal usage period (less than 2 months) Application required for longer usage in June.	Any time, as needed.
2017-M-03 Specific equipment・Low electric power data recording units	HKS-9700a-0505 20 sets	○Center for Geophysical Observation and Instrumentation	Normal usage period (less than 2 months) Application required for longer usage in June.	Any time, as needed.
2017-M-04 Specific equipment・Centaur data recording units	6 sets	○Center for Geophysical Observation and Instrumentation	Normal usage period (less than 2 months) Application required for longer usage in June.	Any time, as needed.
2017-M-05 Specific equipment・Broad-band seismometers	TS17840/Trillium-120PA 9 sets	○Center for Geophysical Observation and Instrumentation	Normal usage period (less than 2 months) Application required for longer usage in June.	Any time, as needed.
2017-M-06 Specific equipment・Seismic/volcanic observation units	LF-1100R/LF-2100R 9 sets	○Center for Geophysical Observation and Instrumentation	Normal usage period (less than 2 months) Application required for longer usage in June.	Any time, as needed.

(laboratory equipment)

Joint Usage Code and Name of facility/equipment	Information of Equipment	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2017-F3-01 Controlled Seismic source	http://www.eri.u-tokyo.ac.jp/wp-content/uploads/2015/08/2017-F3-01.pdf	○SATO Hiroshi, ISHIYAMA Tatsuya	Users are required to have precise and detailed knowledges on how to use the controlled Seismic source.	Any time, as needed.
2017-F3-02 Computer system of Earthquake and Volcano Information Center	http://wwweic.eri.u-tokyo.ac.jp/computer/manual/eic2015/index.php?English	○Head of Earthquake and Volcano Information Center	Limited to academic use and along with the purpose of ERI, according to the rule. Apply directly to ERI, if joint usage fund is not needed.	Any time, as needed.
2017-F3-03 Rock Fracture Apparatus with Data Acquisition System	http://www.eri.u-tokyo.ac.jp/gijyutsubu/jikken/ (only Japanese)	○YOSHIDAS hingo, NAKATANI Masao	Must contact with the responsible person prior to the application.	Any time, as needed.
2017-F3-05 XRF spectrometer	RIGAKU Wavelength dispersive-X-ray fluorescence spectrometer ZSX Primus II http://www.rigaku.com/en/products/xrf/primus2	○NAKADA Setsuya, YASUDA Atsushi	All users were requested to receive instruction beforehand upon contact to responsible persons. Consumables were users' pocket.	
2017-F3-06※ Vibration testing system	EMIC Corp. Vibration testing system F-1400BD/LAS15 Horizontal or vertical shaking table (1-axis)	○ARAYA Akito	Must contact with the responsible person prior to the application. Operate the equipment by yourself in principle.	Any time, as needed.
2017-F3-07※ Laser source equipment	NEOARK Corp. Frequency stabilized He-Ne laser Emission wavelength 633nm (red light)	○ARAYA Akito	Must contact with the responsible person prior to the application.	Any time, as needed.
2017-F3-08 National Seismogram Data System		○Head of Earthquake and Volcano Information Center	System to use national seismogram data, jointly operated with Japanese universities. Consult with corresponding faculty.	Any time, as needed.
2017-F3-09 Karl Fischer moisture titrator (Coulometric titration)	Kyoto Electronics Manufacturing Co., Ltd. Karl Fischer moisture titrator (Coulometric titration) ＜MKC-610＞ http://www.kyoto-kem.com/en/product-category/karl/ Evaporator for measurement of water in rocks ＜ADP-512＞ http://www.kyoto-kem.com/en/product-category/option-karl/	○NAKADA Setsuya, MIBE Kenji	All users must be trained before operating the machine. It is requested that all applicants discuss their projects with contact person before submitting the proposal. The chemicals for measurements have to be purchased by users.	Any time, as needed.
2017-F3-10 Laser diffraction particle-size analyzer (wet dispersion condition)	Sympatec HELOS/KF-RODOS-QUIXEL System http://www.sympatec.com/EN/LaserDiffraction/f-series/HELOS.html	○NAKADA Setsuya, MAENO Fukashi	All users are required to receive instruction from contact persons and to adjust schedule.	Any time, as needed.

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2017-F3-11※ Equipment set for thermometer calibration	Fluke 1586A, 9142, 7103 etc. Thermostatic bath (-30 degC to 150 degC), thermistor scanner, and so on	○NAKATANI Masao	Must contact with the responsible person prior to the application. Operate the equipment by your self in principle.	Any time, as needed

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