

【Appendix D】 FY2027 List of Earthquake and Other Earth Science Data and Research Materials

Please also refer the our database page (<https://www.eri.u-tokyo.ac.jp/en/publication/>)

Joint Usage Code and Name of Data/ Research Materials	Contact person (○Responsible person)	Conditions of Use and Related URL	Application periods
2027-D-01 WWSSN Seismogram microfiche	○Head of Committee for old seismograms and mareograms	Advance appointment required. Inquire about paper supplies. https://www.eri.u-tokyo.ac.jp/wwssn/filmlist.html	Any time, as needed.
2027-D-02 Historical seismograms	○Head of Committee for old seismograms and mareograms	Use microfiche archives. Original records can be used with ERI staff. https://www.eri.u-tokyo.ac.jp/susu/ (Japanese version only)	Any time, as needed.
2027-D-03 Seismological Bulletin, Selected newspaper articles, Foreign seismological reports	○Head of Committee for old seismograms and mareograms	Cameras must be provided by users. Built-in lighting and photography stands are available for use. Photography may be restricted based on the condition of materials. Bulletins: https://www.eri.u-tokyo.ac.jp/record-J/index.html Foreign seismological reports: https://www.eri.u-tokyo.ac.jp/record-W/index.html	Any time, as needed.
2027-D-04 Earthquake data of Research Center for Geophysical Observation and Instrumentation	○Head of Research Center for Geophysical Observation and Instrumentation	Data should be used under the treatment of earthquake data of Japanese universities.	—
2027-D-05 Nation-wide earthquake data transfer by satellite communication system and other facilities	○Head of Research Center for Geophysical Observation and Instrumentation	Application required under the treatment on earthquake data transfer by satellite communication system. http://eoc.eri.u-tokyo.ac.jp/eisei_system/riyou/data_jushin_riyou.htm (Japanese version only)	—
2027-D-06 Japan University Network Earthquake Catalog(JUNEC)	○Head of the Research Center for Monitoring Japan Arc	Hypocenter data can be accessed through anonymous ftp. ftp://ftp.eri.u-tokyo.ac.jp/pub/data/junec/ Arrival time data can be provided by CD, according to rule among the universities.	Any time, as needed.
2027-D-07 Observation data of Asama, Izu-Oshima, Kirishima, and Fuji volcanoes	○Head of Volcano Research Center	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-D-08 Broadband Seismic Waveform Data	○Head of Ocean Hemisphere Research Center	none. http://ohpdm.eri.u-tokyo.ac.jp/dataset/permanent/seismological/index.html	Any time, as needed.
2027-D-09 New J-array seismogram data	○Head of the Research Center for Monitoring Japan Arc	Can be used through website. http://jarray.eri.u-tokyo.ac.jp/	Any time, as needed.

Joint Usage Code and Name of Data/ Research Materials	Contact person (○Responsible person)	Conditions of Use and Related URL	Application periods
2027-D-10 Earthquake data in Nikko region, Northern Kanto, Japan, in 1993	○Head of Research Center for Geophysical Observation and Instrumentation	Treatment of data usage by participants of the 1993 Nikko seismic observation.	—
2027-D-11 Strong motion observation database (mainly Suruga bay, Izu peninsula, and Ashigara valley)	○Takashi Furumura	https://smsd.eri.u-tokyo.ac.jp/smad/	Any time, as needed.
2027-D-12 Copies of old historical documents and interpretation	○Yasuyuki Kano	No limitation. Copies and interpretation of a part of special database for historical materials of ERI library: https://www.eri.u-tokyo.ac.jp/tokubetsu/ (In Japanese only)	Any time, as needed.
2027-D-13 Goelectromagnetic Observation Database	○Yoshiya Usui, Takao Koyama	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-D-14 Provisional data at Yatsugatake geo-electromagnetic observatory	○Tsutomu Ogawa	Those who wish to use the data should contact the contact person at the ERI for arrangement and submit an application.	Any time, as needed.
2027-D-16 Aerial photographs of Japan	○ERI Library	Number of holding sheets: 44,999 This collection is for research purposes only: active fault research, seismology, volcanology, tectonics, etc. Please have a request at the service counter of ERI library. https://www.eri.u-tokyo.ac.jp/toshu/materials-e/collections.html	Any time, as needed.
2027-D-17 Digital images of tsunami waveforms	○Head of Committee for old seismograms and mareograms	System of digital images of tsunami waveforms. https://www.eri.u-tokyo.ac.jp/tsunamidb/ (In Japanese only)	Any time, as needed.
2027-D-18 Superconducting Gravimeter Data	○Yuichi Imanishi	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-D-19 Special Project for Earthquake Disaster Mitigation in the Tokyo Metropolitan Area Data(2008-2011)	○Head of Research Center for Geophysical Observation and Instrumentation	Must contact with the responsible person prior to the application. https://www.eri.u-tokyo.ac.jp/shuto/index.html (In Japanese only)	Any time, as needed.
2027-D-20 Special Project for Reducing Vulnerability for Urban Mega Earthquake Disasters Data(2012-2016)	○Head of Research Center for Geophysical Observation and Instrumentation	Must contact with the responsible person prior to the application. https://www.eri.u-tokyo.ac.jp/project/toshi/ (In Japanese only)	Any time, as needed.
2027-D-21 Digital data of damage from old earthquakes	○Yasuyuki Kano	Digital dataset of earthquake damage and its location for the 1923 Kanto earthquake etc. Please contact the responsible person prior to application.	Any time, as needed.

【Appendix F】

FY2027 List of Facilities, Observation Equipment, and Laboratory Equipment

(Facilities)

Joint Usage Code and Name of Facility/Equipment	Information of Facility	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2027-F1-01 Seismic Observation Facilities	Aburatsubo Geophysical Observatory Nokogiriyama Geophysical Observatory Wakayama Seismological Observatory Hiroshima Seismological Observatory Shin-etsu Seismological Observatory Fujigawa Geophysical Observatory Muroto Geophysical Observatory Other observatories and facilities	○Head of Research Center for Geophysical Observation and Instrumentation		—
2027-F1-02 Yatsugatake Geo-electromagnetic Observatory		○Tsutomu Ogawa	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-F1-03 Asama Volcano Observatory Komoro observatory of Seismology and Volcanology Izu-Oshima Volcano Observatory Kirishima Volcano Observatory		○Head of Research Center for Geophysical Observation and Instrumentation		—

(Observation Equipment)

Joint Usage Code and Name of Facility/Equipment	Information of Equipment	Contact person (○Responsible person)	Conditions of Use and Remarks	Application periods
2027-F2-01 Data receiver system by satellite communication for a nation-wide seismic telemetry network.	http://eoc.eri.u-tokyo.ac.jp/eisei_system/riyou/data_jushin_riyou.htm (In Japanese version only)	○Eiji Kurashimo	Must contact with the responsible person prior to the application. It is a rule that the users install it and maintain it by themselves. Another application about data use is needed.	Any time, as needed.
2027-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 (In Japanese version only) http://eoc.eri.u-tokyo.ac.jp/eisei_system/riyou/chijo_souti.htm (In Japanese version only)	○Eiji Kurashimo	Must contact with the responsible person prior to the application. Not always available for period of specific research projects.	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
2027-F2-04 Broadband-MT instruments	1) Main unit: <i>Metronix</i> ADU07e 22 sets ADU08e 2 sets <i>NT System Design</i> ELOGMT 7 sets ELOG1K 17 sets 2) Induction coils: <i>Metronix</i> MFS06 21 coils MFS07 4 coils MFS06e 22 coils MFS07e 45 coils MFS12e 3 coils <i>Phoenix</i> MTC50 3 coils Basically, 5 component data (2-component E-field and 3-component H-field) can be measured. Sample frequency of ADU07e 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.	○Yoshiya Usui, Takao Koyama	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.	Any time, as needed.
2027-F2-06※ <u>Marine heat flow measurement system</u>	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.	○Masanao Shinohara	Users must have an experience in marine heat flow measurement, unless they conduct cooperative research with the Earthquake Research Institute.	Any time, as needed.
2027-F2-07 Portable broadband seismic observation system(1)	Broadband seismometers: 29 sets CMG3T,STS2 Recorders: REFTEK130	○Takehi Isse, Akiko Takeo	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.
2027-F2-08※ <u>Portable broadband seismic observation system (2)</u>	Broadband seismometers 14 sets (Nanometrics Inc., Canada) Trillium 120PA Number of equipment: 14	○Yohei Yukutake	Must contact with the responsible person prior to the application.	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
2027-F2-09※ <u>Absolute gravimeter</u>	FG5 gravimeter with 1-2 2 sets microgal accuracy manufactured by microg-Lacoste corp., U.S.A.	○Yuichi Imanishi	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-F2-10※ <u>Lacoste & Romberg gravimeter</u>	Spring gravimeter with 10 2 sets microgal accuracy manufactured by microg-Lacoste corp., U.S.A.	○Yuichi Imanishi	Operational instruction should be understood.	Any time, as needed.
2027-F2-11※ Potable strong motion observation system	Potable strong motion observation system(Revision of SMAR-6A3P) equipment with amplifier 14 units (JEP-6A3P sensors with C651V/G) (Akashi Corporation) equipment without amplifier 5 units (JEP-6A3P sensors with 10V/G) (Akashi Corporation) logger LS-7000XT 10 units (Hakusan Corporation)	○Takashi Furumura	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-F2-12 Volcanic gas observation system	Volcanic gas observation 1 set system	○Masaaki Morita	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-F2-13 Ultra-long period MT instruments	Ukraine Systems with fluxgate sensors LEMI-417 6 sets 3 magnetic and 4 electric field components with 1 s sampling Tierra Technica systems with fluxgate sensors U43 12 sets U36MD 3 sets UY44 1 sets U43: 3 magnetic and 2 electric field components with 1s sampling U36MD: 3 magnetic and 2 electric field components with 1s sampling UY44: 3 magnetic field and 2 tilt components with 1s sampling	○Yoshiya Usui, Takao Koyama, Hisayoshi Shimizu	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.	Any time, as needed.
2027-F2-14 High accuracy gyro-compass system	A SOKIA's GP1X manual 1 system gyro-compass system. Measurement accuracy is 20 angle-seconds.	○Yoshiya Usui, Takao Koyama, Hisayoshi Shimizu	Must contact with the responsible person prior to the application.	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
2027-F2-16 Airborne survey equipment	DJI Matrice 400 1 set DJI Zenmuse H30T 1 system DJI Zenmuse L2 1 system DJI Zenmuse L3 1 system Gem Systems GSMP-35U 1 set for drone Matrice 400: https://enterprise.dji.com/matrice-400 Zenmuse H30T: https://enterprise.dji.com/zenmuse-h30-series/specs Zenmuse L2: https://enterprise.dji.com/zenmuse-l2 Zenmuse L3: https://enterprise.dji.com/zenmuse-l3 GSMP-35U: https://www.gemsys.ca/uav-magnetometers/ Supported aircraft: Zenmuse H30T: DJI M400, M350RTK, M300RTK with DJI RC Plus controller Zenmuse L2: DJI M400, M350RTK, M300RTK with DJI RC Plus controller Zenmuse L3: DJI M400 GSMP-35U: DJI M400, M350RTK, M300RTK	○Takao Koyama, Takao Ohminato	Must contact with the responsible person prior to the application.	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
2027-F3-01 Controlled Seismic source	Minivibrator T-15000 (IVI, Inc.) 1 unit	○Tatsuya Ishiyama	Users are required to have precise and detailed knowledges on how to use the controlled Seismic source.	Any time, as needed.
2027-F3-02 Computer system of the Research Center for Monitoring Japan Arc	https://eic-support.eri.u-tokyo.ac.jp/index-e.html 1 system	○Head of the Research Center for Monitoring Japan Arc	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.
2027-F3-03 Rock Fracture Apparatus with Data Acquisition System	https://www.eri.u-tokyo.ac.jp/gijyutsubu/jikken/ 1 system (In Japanese version only)	○Masao Nakatani	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-F3-05 XRF spectrometer	RIGAKU Wavelength dispersive-X-ray fluorescence spectrometer ZSX Primus II 1 system	○Fukashi Maeno	Must contact with the responsible person prior to the application.	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
2027-F3-06※ <u>Vibration testing system</u>	EMIC Corp. Vibration testing system 1 system F-1400BD/LAS15 Horizontal or vertical shaking table(1-axis)	○Akito Araya	Must contact with the responsible person prior to the application. Operate the equipment by yourself in principle.	Any time, as needed.
2027-F3-07※ <u>Laser source equipment</u>	NEOARK Corp. Frequency stabilized He-Ne laser 1 set Emission wavelength 633nm (red light)	○Akito Araya	Must contact with the responsible person prior to the application.	Any time, as needed.
2027-F3-08 National Seismogram Data System	National Seismogram Data System 8 system	○Head of the Research Center for Monitoring Japan Arc	System to use national seismogram data, jointly operated with Japanese universities. Consult with corresponding faculty.	Any time, as needed.
2027-F3-09 Karl Fischer moisture titrator (Coulometric titration)	Kyoto Electronics Manufacturing Co., Ltd. Karl Fischer moisture titrator (Coulometric titration) < MKC-610 > 1 set https://www.kyoto-kem.com/en/product-category/karl/ Evaporator for measurement of water in rocks < ADP-512 > 1 set https://www.kyoto-kem.com/en/product-category/option-karl/	○Kenji Mibe	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.
2027-F3-10 Laser diffraction particle-size analyzer(wet dispersion condition)	Sympatec HELOS/KF-RODOS-QUIXEL System 1 system	○Fukashi Maeno	All users are required to receive instruction from contact persons and to adjust schedule.	Any time, as needed.
2027-F3-11※ <u>Equipment set for thermometer calibration</u>	Fluke 1586A, 9142, 7103 etc. 1 set Thermostatic bath(-30 degC to 150 degC), thermistor scanner, and so on	○Masao Nakatani	Must contact with the responsible person prior to the application. Operate the equipment by yourself in principle.	Any time, as needed
2027-F3-12 Large-scale seismic waveform data analyzing system	It is the seismic waveform analysis system which stores nationwide seismic data. Users develop and execute their own codes for analyzing the data. The minimum tools are available. 1 system	○Shigeki Nakagawa	Must contact with the responsible person prior to the application. Also, all users were requested to finish the application for the Computer system of the Research Center for Monitoring Japan Arc (2026-F3-02). Data should be used under the treatment of earthquake data of Japanese universities.	Any time, as needed

※Detailed information posted at Earthquake Research Institute, joint usage page.

【Appendix M】 FY2027 List of Specific Equipments

If you wish to use the specific equipment listed in this appendix for more than 2 months, please apply for the call for proposal for long-term use of specific equipments, which is held around February–March approximately two years before the intended year of use. Applications for use of less than 2 months are accepted at any time as needed.

(Specific Equipments)

Joint Usage Code and Name of Equipment	Information of Equipment	Contact person (○ Responsible person)	Conditions of Use and Remarks	Application periods
2027-M-01 Compact digital recorder	HKS-9700a-0505 30 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-02 Seismometer(1Hz, 3-components, Lennartz electronic GmbH)	LE-3Dlite MkII 20 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-03 Seismometer(1Hz, 3-components, Lennartz electronic GmbH)	LE-3Dlite MkIII 10 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-04 Compact digital recorder(PELICAN)	LS-8800 52 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-05 Seismometer(1Hz, 3-components, Lennartz electronic GmbH)	LE-3Dlite MkIII 59 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-06 Compact digital recorder(Blue Box)	LS-8800 35 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-07 Seismometers(1Hz, 3-components, Lennartz electronic GmbH)	LE-3Dlite MkII 35 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-08 Seismometers(1Hz, 3-components, Lennartz electronic GmbH)	LE-3Dlite MkIII 10 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-09 Single channel digital recorder	LS-8200SD 174 sets	○Eiji Kurashimo		Any time, as needed.

Joint Usage Code and Name of Equipment	Information of Equipment	Contact person (○ Responsible person)	Conditions of Use and Remarks	Application periods
2027-M-10 Seismometer(4.5Hz, UD-component)	SG820 175 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-11 Geospace Seismic Recorder	GSX-3 50 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-12 Seismometer(4.5Hz, 3-components)	GS-11D-3C 50 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-13 Seismometer(1Hz, 3-components)	GS-1 3C SeisMonitor 2 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-14 Seismometer(1Hz, 3-components, Lennartz electronic GmbH)	LE-3Dlite MkII 54 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-15 Seismometer(1Hz, 3-components, Lennartz electronic GmbH)	LE-3Dlite MkIII 10 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-16 Nanometrics data recording units	Centaur digital recorder 6 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-17 Broad-band seismometer	Trillium-120PA 6 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-18 Broad-band seismometer	Trillium-120QA 15 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-19 Networked digitizer and logger (controller)	LF-1100R 9 sets	○Eiji Kurashimo		Any time, as needed.
2027-M-20 Networked digitizer and logger (digitizer)	LF-2100R 9 sets	○Eiji Kurashimo		Any time, as needed.