



京都大学防災研究所
Disaster Prevention Research Institute
Kyoto University

一般研究集会

2024WS-01

時空間スケールを跨いだ Slow-to-Fast 現象の包括的理解を目指して Toward a Comprehensive Understanding of Slow-to-Fast Phenomena Across Space-Time Scales

令和 7 年 3 月

March, 2025

研究代表者 澤山 和貴

Coordinator Kazuki Sawayama

一般研究集会（課題番号：2024WS-01）

集会名： 時空間スケールを跨いだ Slow-to-Fast 現象の包括的理解を目指して
主催者名： ※共催の場合
研究代表者： 澤山和貴
所属機関名： 京都大学理学研究科
所内担当者名： 伊藤喜宏
開催日： 令和 6 年 9 月 17 日 ～ 19 日
開催場所： 別府国際コンベンションセンター
参加者数： 210 名（所外 202 名、所内 8 名）

研究及び教育への波及効果について

今年 1 月に発生した能登半島地震や、将来の発生が予測される南海トラフ巨大地震の本震と周囲で発生する Slow 地震との関連性に関する研究成果について、最新の知見を共有することができた。特に、国内外の観測・調査・実験・技術開発・理論・モデリングについて、地震学・測地学・地質学・物理学分野など、幅広くかつ学際的な視点で議論を行うことができた。研究集会は英語で行われ、大学院生・若手研究者・外国出身の若手研究者からも積極的な発言が得られた。若手研究者らの多くは、令和 3 年 10 月より採択された学術変革領域研究(A)「Slow-to-Fast 地震学」に分担者・研究協力者として参加しており、研究者間の交流促進について本研究集会と関連イベントが大きく貢献した。

研究集会報告

(1) 目的

将来の南海トラフ巨大地震等の発生を見据え、Slow 地震と Fast 地震（海溝型巨大地震との関係を含む）について最先端の研究成果を共有し、今後の関連研究の方向性や、研究成果の減災への活用について議論し、共通理解を深めることを目的とする。ダイバーシティ推進や次世代育成も意識して多種多様なアプローチ・分野・世代・国から参加者を集め、地震学・測地学・地質学・物理学・情報科学横断する研究分野の有機的連携を見据えた議論を行う。

(2) 成果のまとめ

Slow 地震は 21 世紀初頭に発見された現象であり、過去 20 年間にわたり活発に研究されてきた。さらに近年では、東北地方太平洋沖地震等の巨大地震を契機に、海溝型巨大地震発生メカニズムと Slow 地震の関連性が明らかになりつつある。本研究集会では、科研費学術変革領域研究（A）「Slow-to-Fast 地震学」の参画者及び国内外の幅広い分野の研究者が集い、世界各地の最新の観測事例や様々なアプローチによる研究成果について情報交換を行った。海溝型巨大地震と Slow 地震との関係性に関する議論の高度化、巨大地震災害の軽減のための研究成果の活用への議論、今後の課題の抽出などがなされた。特に、上記研究プロジェクトの後継プロジェクトを見据え、今後どのように若手の研究活動を促進方策について様々な世代間での意見交換が積極的になされた。今回の集会をもとに、世界をリードする国際的な地震研究コミュニティの発展が期待される。

(3) プログラム
別添参照

(4) 研究成果の公表

研究集会の概要やアブストラクトについては、以下のサイトから参照・ダウンロード可能となっている。

日本語 <https://sites.google.com/view/slow2fast-earthquake-workshop/japanese>

英語 <https://sites.google.com/view/slow2fast-earthquake-workshop/english>

International Joint Workshop on Slow-to-Fast Earthquakes 2024

General Information for on-site participants

Open hours

International Conference Room, B-CON Plaza, will be open at 8:50 daily. Registration desk opens at the same time.

Venue

B-CON Plaza, Beppu city, Oita prefecture, Japan

Official website: <https://www.b-conplaza.jp/en/>

Access: <https://sites.google.com/view/slow2fast-earthquake-workshop/2024/access>

Language

The official conference language is English. No simultaneous interpretation will be provided.

Badges

The participant's name badge will be provided at the registration desk. All participants are requested to wear the badge throughout the workshop.

Social party fee (advance registration only)

Beverage fee (3,000 JPY) will be collected on Sep.17 at the payment counter near the registration desk.

Wi-Fi

Wi-Fi is available at the venue.

Pre-WS field trip (advance registration only)

Meet at: 8:00, Sep. 16th (Mon.), at the bus terminal near JR Beppu Station

Breakup: after 15:00 at JR Beppu station

Post-WS field trip (advance registration only)

Meet at: 9:00, Sep. 20th (Fri.), at the bus terminal near JR Beppu Station

Breakup: 1) after 13:30 at JR Nobeoka Station, 2) after 16:00 at Oita Airport (by buss), 3) after 16:00 at JR Beppu Station (by car)

Event for Early-Career Researchers (advance registration only)

Time/Date: 16:00, Sep. 16, 2024

Venue: Reception Hall, B-Con Plaza 2F

Notice: Bring your poster if you wish to discuss your study. Information for the early career social dinner will be announced for those who signed up.

Mobile phone policy

Using mobile phones during the session is prohibited. Please turn it off or set it to silent mode.

Photography

Photographing/recording sessions are strictly prohibited.

Notice: Please note that the organizer will be taking photos in the venue for use in the

International Joint Workshop on Slow-to-Fast Earthquakes 2024

conference report /website/other medias.

Group photos will be taken after the oral session of Day 1 (around 12:25, Sep. 17).

Lost and found

Contact the registration desk in case of personal belongings being lost or found. Belongings not picked up during the workshop will be handed over to the venue.

Refreshments

Coffee/tea will be served during the breaks daily. Bringing your food and drink (=anything that has not been served at the venue or purchased from the vending machine in the building) is prohibited.

Meal

Meals will not be served during the workshop.

Restaurant maps around the venue and Beppu tourist brochures will be available at the venue.

Baggage

In case you need your baggage to be stored on Day 3 (Sep. 19), please contact the registration desk.

Smoking

No smoking is allowed on the premises.

Presentation Guideline

*Please contact sfeq-office-group@g.ecc.u-tokyo.ac.jp for inquiries on the presentation.

For oral presenters

Screen aspect ratio: 16:9 is preferred.

The presentation duration is 45 minutes including a 10-minute discussion for the keynote speakers and 15 minutes including a 3-minute discussion for other speakers. Bell rings at 30, 35, and 45 minutes for keynote speakers and 10, 12, and 15 minutes for 15-minute speakers. Presenters will use their own PCs for presentation. The connector type is HDMI. Presenters should check the connection and compatibility with the video projector in the session room during the break before their presentation.

For poster presenters

Poster board size: W900mm, H2100mm (A0 841*1189mm is preferred).

All the posters should be PORTRAIT style.

It is recommended that posters include a portrait photo of the presenter (Not mandatory).

The poster layout map and pins will be supplied.

The recommended core time for each presentation is Day 1 (14:30-15:30) for the posters with odd numbers (P001, P003, ...) and Day 2 (14:30-15:30) for the posters with even numbers (P002, P004, ...).

Form with "I will be here at ____" will be available at the venue. Please fill it out and attach

International Joint Workshop on Slow-to-Fast Earthquakes 2024

it to your poster to indicate your core time.

Posters are to be posted on the assigned boards by lunchtime of Day 1 (Sep. 17) and removed by 16:00 on Day 3 (Sep. 19). Posters remaining on the boards after 16:00 of Sep. 19 will be disposed by LOC.

Organizers

“Science of Slow-to-Fast Earthquakes”

Grant-in Aid for Transformative Research Area, MEXT, Japan.

Secretariat at Earthquake Research Institute, the University of Tokyo

1-1-1 Yayoi, Bunkyo-ku, Tokyo, JAPAN 113-0032

Email: sfeq-post-group@g.ecc.u-tokyo.ac.jp

Co-organized by:

Workshop "Toward a Comprehensive Understanding of Slow-to-Fast Phenomena Across Space-Time Scales" supported by ERI Joint Usage/Research Center Program

Workshop "Toward a Comprehensive Understanding of Slow-to-Fast Phenomena Across Space-Time Scales" supported by DPRI Joint Usage/Research Center Program

Workshops in the past

2023, Ito International Research Center, Hongo Campus, the University of Tokyo, Tokyo, Japan

2022, Nara Kasugano International Forum I-RA-KA, Nara, Nara, Japan

2021, online

2020, online

2019, Sakura Hall, Tohoku University, Sendai, Miyagi, Japan

2018, Across Fukuoka, Fukuoka, Japan

2017, Hotel Mystays Matsuyama, Ehime, Japan

2016, Earthquake Research Institute, the University of Tokyo, Tokyo, Japan

2015, Graduate School of Environmental Studies, Nagoya University, Nagoya, Japan

2014, Uji campus, Kyoto University, Uji, Kyoto, Japan

2013, ERI, University of Tokyo, Tokyo, Japan

2012, ERI, University of Tokyo, Tokyo, Japan

Time Schedule (Overview)				
Day 1 (17 Sep.)				
Registration	9:00	~	9:30	Lobby and Cloak, 2F
Opening Session /General Instructions	9:30	~	9:35	International Conference Room, 3F
1st session (O01~O03) Theme Noto earthquake	9:35	~	10:50	International Conference Room, 3F
Break(coffee)	10:50		11:10	
2nd session (O04~O06) Theme Noto earthquake	11:10	~	12:25	International Conference Room, 3F
Group photo/Lunch	12:25	~	14:00	
Poster / Coffee	14:00	~	16:00	Reception Hall, 2F
3rd session (O07~O12) Theme General	16:00	~	17:30	International Conference Room, 3F
General Discussion	17:30	~	18:00	International Conference Room, 3F
Social Party	18:00	~	20:00	Reception Hall, 2F
Day 2 (18 Sep.)				
1st session (O13~O15) Theme Induced or controlled earthquakes	9:30	~	10:45	International Conference Room, 3F
Break(coffee)	10:45	~	11:05	
2nd session (O16~O20) Theme Induced or controlled earthquakes	11:05	~	12:20	International Conference Room, 3F
Breakout Session	12:20	~	13:00	International Conference Room, 3F
Lunch	13:00	~	14:00	
Poster / Coffee	14:00	~	16:00	Reception Hall, 2F
3rd session (O21~O26) Theme General	16:00	~	17:30	International Conference Room, 3F
Breakout Summary	17:30	~	18:00	International Conference Room, 3F
Close	18:00			
Day 3 (19 Sep.)				
1st session (O27~O29) Theme Fault rheology of plate boundary	9:30	~	10:45	International Conference Room, 3F
Break(coffee)	10:45	~	11:05	
2nd session (O30~O32) Theme Fault rheology of plate boundary	11:05	~	12:20	International Conference Room, 3F
Closing Session	12:20	~	12:30	International Conference Room, 3F
Lunch	12:30	~	13:45	
Business Meeting (in Japanese)	13:45	~	15:30	International Conference Room, 3F

Themes in the table are described in short.

Noto earthquake: The 2024 M7.6 Noto earthquake and seismic swarm

Fault rheology of plate boundary: Fault rheology of plate boundary at laboratory, outcrop, and geophysical exploration scales

Induced or controlled earthquakes: Induced or controlled earthquakes, –What determines the initiation of slow and fast earthquakes? –

Day 1 (17 Sep.)				
Registration	9:00	9:30	0:30	
Opening Session/ General Instructions	9:30	9:35	0:05	
Theme: Noto earthquake		Chair	Yoshiyuki Tanaka / Asuka Yamaguchi	
O01	9:35	10:20	0:45	Aitaro Kato (Univ. of Tokyo)A long-persisting seismic swarm and the subsequent nucleation of the 2024 M7.6 Noto earthquake
O02	10:20	10:35	0:15	Chengxin Jiang (The Australian National Univ.)Seismic anisotropic structures beneath the Noto Peninsula from ambient noise tomography: implication for crustal fluid migration
O03	10:35	10:50	0:15	Akane Yamamoto (Nihon Univ.)Spatio-temporal variation of pore Cuid pressure from focal mechanism solutions around seismogenic zone of 2024 Noto Peninsula Earthquake, Japan
Break(coffee)	10:50	11:10	0:20	
Theme: Noto earthquake		Chair	Aitaro Kato / Takane Hori	
O04	11:10	11:55	0:45	Cristiano Collettini (Univ. di Roma La Sapienza)On-fault vs. distributed seismicity: the role of rock and fault rheology
O05	11:55	12:10	0:15	Asuka Yamaguchi (Univ. of Tokyo)Seafloor earthquake faults formed by the 2024 Noto earthquake
O06	12:10	12:25	0:15	Qingyu Wang (Univ. Grenoble Alpes)Untangling the environmental and tectonic drivers of the Noto earthquake swarm
Photo / Lunch	12:25	14:00	1:35	
Poster Core Time	14:00	16:00	2:00	
Theme: General		Chair	Diana Mindaleva / So Ozawa	
O07	16:00	16:15	0:15	Edward Vinis (Tohoku Univ.)Fluid pressure oscillation created by temporary fracture sealing with silica using flow-through experiments
O08	16:15	16:30	0:15	Paul Caesar Flores (JAMSTEC/Yokohama National Univ.)Wedge deformation from multi-seamount subduction and lithological variability possibly control shallow slow earthquake activity in Nankai Trough off Muroto
O09	16:30	16:45	0:15	Ryoichiro Agata (JAMSTEC)Rapid hypocenter determination tool for the Nankai Trough subduction zone based on fast travel time calculation using physics-informed neural networks
O10	16:45	17:00	0:15	Tomoaki Nishikawa (Kyoto Univ.)Earthquake Swarm Detection in the Middle America Subduction Zone: Implications for the Relationship between Seismicity and Slow Slip Events
O11	17:00	17:15	0:15	Alexandre Schubnel (ENS Paris / Univ. of Tokyo)Perspectives on seasonal seismicity: from the laboratory to Nepal
O12	17:15	17:30	0:15	Satoshi Ide (Univ. of Tokyo)Initial and Total Rupture Processes of Earthquakes: Re-considering P-wave First Motions
General Discussion	17:30	18:00	0:30	

Day 2 (18 Sep.)				
Theme: Induced or controlled earthquakes		Chair	Takanori Matsuzawa / Saeko Kita	
O13	9:30	10:15	0:45	Hanae Saishu (AIST)Timescales of vein formation and earthquake recurrence around seismogenic zones, SW Japan
O14	10:15	10:30	0:15	So Ozawa (Univ. of Tokyo)Fault-valve instability: a mechanism for slow slip events
O15	10:30	10:45	0:15	Ahmed Elbanna (Univ. of Illinois)The Earthquake Virtual Machine: Modeling Co-evolution of Fault Zone Rheology and Seismicity Across Scales☒
Break(coffee)	10:45	11:05	0:20	
Theme: Induced or controlled earthquakes		Chair	Takanori Matsuzawa / Saeko Kita	
O16	11:05	11:20	0:15	Yoshihiro Kaneko (Kyoto Univ.)Potential links between foreshocks, slow slip, and short-term earthquake predictability revealed by meter-scale laboratory earthquakes, numerical simulations, and machine learning
O17	11:20	11:35	0:15	Meng Li (Utrecht Univ.)Earthquake nucleation location and slip behavior altered by stochastic normal stress heterogeneity
O18	11:35	11:50	0:15	Chengrui Chang (Univ. of Tokyo)Slow-to-fast Transition and Shear Localization in Accelerating Creep of Clayey Soil
O19	11:50	12:05	0:15	Zhu-Yuan Lin (Osaka Univ.)Stick-slip Motion in Confined Model Smectite Clay
O20	12:05	12:20	0:15	Giacomo Pozzi (NIGV)From nucleation to propagation: filming the complexity of experimental slow slip in clay fault rocks
Breakout Session	12:20	13:00	0:40	
Lunch	13:00	14:00	1:00	
Poster Core Time	14:00	16:00	2:00	
Theme: General		Chair	Lina Yamaya / Yutaro Okada	
O21	16:00	16:15	0:15	Eiichiro Araki (JAMSTEC)Rapid Rayleigh scattered wave frequency analysis in distributed optical fiber sensing for broadband geophysical observation
O22	16:15	16:30	0:15	Yuto Yoshizumi (Univ. of Tokyo)Evaluating the observation performance of the seaplane-type UAV based system in GNSS-A
O23	16:30	16:45	0:15	Elizabeth Sherrill (Indiana Univ.)The Role of Viscoelastic Earthquake Cycles on Interseismic Coupling
O24	16:45	17:00	0:15	Tatsuhiko Saito (NIED)Long-term slow slip events and historical earthquakes modeled by mechanically coupled patches along the Nankai subduction zone
O25	17:00	17:15	0:15	Saeko Kita (Building Research Institute)Effect of two M6.6 intraslab earthquakes on occurrence of the next long-term slow slip event beneath Bungo channel
O26	17:15	17:30	0:15	Yajing Liu (McGill Univ.)Fluid pressure oscillation constrained using Bayesian data assimilation in a northern Cascadia subduction zone slow slip event model
Breakout Summary	17:30	18:00	0:30	
Close	18:00			

Day 3 (19 Sep.)				
Theme: Fault rheology of plate boundary		Chair	Makoto Otsubo / Yoshihiro Ito	
O27	9:30	10:15	0:45	Melodie French (Rice Univ.)Strength profiles of subduction megathrusts and implications for mode of slip
O28	10:15	10:30	0:15	Kurama Okubo (NIED)Dynamic rupture modeling of non-self-similar seismic events generated by a controlled gouge patch
O29	10:30	10:45	0:15	Jaime Araya Vargas (Univ. of Atacama)The electrical resistivity environment of deep slow slip events in the megathrust of northern Chile
Break(coffee)	10:45	11:05	0:20	
Theme: Fault rheology of plate boundary		Chair	Hanaya Okuda / Yusuke Shimura	
O30	11:05	11:50	0:45	Ryuta Arai (JAMSTEC)Habitat of shallow slow earthquakes: Recent seismic imaging studies from Nankai and Hikurangi subduction zones
O31	11:50	12:05	0:15	Kelin Wang (Geological Survey of Canada / Univ. of Victoria)Fast and slow earthquakes associated with serpentinized mantle wedge
O32	12:05	12:20	0:15	Makoto Otsubo (AIST)Role of folds that develop near plate boundaries as inelastic deformation
Closing Session	12:20	12:30	0:10	
Lunch	12:30	13:45	1:15	
Business Meeting	13:45	15:30	2:15 (in Japanese)	

- ※ 45-min talks: Keynote speakers
- ※ The timetable is color-coded according to theme.
- The 2024 M7.6 Noto earthquake and seismic swarm
- Fault rheology of plate boundary at laboratory, outcrop, and geophysical exploration scales
- General
- Induced or controlled earthquakes: Induced or controlled earthquakes, –What determines the initiation of slow and fast earthquakes? –

Poster		
(P001~P153)		
P001	Jamal DOSKI	Transition from Slow to Fast Deformation Dynamics in Earthquakes: A Case Study of Kurdistan, Northern Iraq
P002	Yihe HUANG	Seismic observation of heterogeneous fault structures surrounding deep interplate earthquakes in Kanto, Japan
P003	Weifan LU	Feature of cascading rupture frequently observed in Northern California
P004	Louise MAUBANT	When a Slow Slip Event Plays with the Seismicity: The Case of the 2021-2023 Manawatu-Kapiti Events and Their Impact on New Zealand's Seismic Hazard
P005	Tsuyoshi ISHIKAWA	Fluid-rock interactions around the thermally controlled base of the subduction seismogenic zone: Geochemical evidence from the Makimine mélange
P006	Yuji ITOH	Slip-tremor interaction at the very beginning of Episodic Tremor and Slip in Cascadia
P007	Ayako TSUCHIYAMA	The evolution of seismic behavior in the Bucaramanga earthquake nest, Colombia
P008	Caroline MOUCHON	Toward building a continuous catalog of low-frequency earthquakes in the northern Cascadia subduction zone
P009	Keisuke ARIYOSHI	Early Detection of Shallow Slow Slip Events by using pore pressure gauges along the Nankai Trough
P010	Zeyan ZHAO	Periodic seismicity modulations reveal important roles of pore fluid behaviors in controlling fast and slow earthquakes
P011	Raymundo PLATA-MARTINEZ	Focal mechanisms and energy release of shallow tremors in the Guerrero seismic gap, Mexico
P012	Masaru NAKANO	DAS observations around Kikai caldera using seafloor cables
P013	Yuta MITSUI	Stable estimation of the Gutenberg–Richter b-values by the b-positive method: a case study of aftershock zones
P014	Yuto KANO	Seismic source spectral properties of dynamic ruptures with self-similar, self-healing slip pulses
P015	Takashi TONEGAWA	Retrieval of persistent S reflections from the megasplay fault beneath C0010
P016	Roos VERWIJS	How Subducted Seamounts Alter the Earthquake Cycle: Nucleation and Arrest
P017	Ryoko NAKATA	Triggering of large fast earthquakes by slow slip or afterslip using multiscale circular patch model in quasi-dynamic numerical simulation of earthquake generation cycle
P018	Yusuke KAKIUCHI	Monitoring Seismic Velocity Changes in the Accretionary Prism of Nankai Subduction Zone using Ambient Noise Autocorrelation
P019	Ryosuke ANDO	Dynamic Rupture Simulation Illuminates Effects of Non-planar Fault Geometry on the M7.6, 2024 Noto Peninsula, Japan, Earthquake
P020	Reiju NORISUGI	Multi-scale Rate- and Roughness-Dependent Friction Realizes a Variety of Seismic-Aseismic Transitions
P021	Amy WOODWARD	Local earthquake analysis at the northern Hikurangi margin with a high-density seismic network
P022	Yiming MA	Enhanced Detection of Short-Term Slow Slip Events in Southwest Japan Using Change-Point Analysis on GNSS Data
P023	Yusuke YOKOTA	Detection of shallow SSEs in the Nankai Trough by SGO-A until 2024
P024	Makoto NAOI	Retraining of Neural Phase Picker based on JMA unified seismic catalog
P025	Jesse KEARSE	Strong asymmetry in near-fault ground velocity during an oblique strike-slip earthquake revealed by waveform particle motions and dynamic rupture simulations
P026	Yanhan CHEN	New insight into slow earthquake activities from continuous ocean bottom seismometers at the Guerrero Seismic Gap, Mexico
P027	Manato AKISHIBA	Lithium and strontium isotope systematics in hot spring water of southwest Japan: Difference between forearc and volcanic arc
P028	Hiroyuki NODA	Simulation of thermoelastic instability and sample-size dependency of dynamic weakening in laboratory friction experiments
P029	Seiya YANO	Tectonic Tremor Detection by Combining Envelope Cross-Correlation Method and Machine Learning
P030	Yutaro OKADA	Investigation on short-term slow slip events in the northeast Japan subduction zones using decadal GNSS data
P031	Zahra ZANDVAKILI	Origin of deep-derived in Matsushiro earthquake swarm area based on Li and Sr isotopic data
P032	Yasuo YABE	PROTEA -Drilling project to probe the heart of an earthquake and life in the deep subsurface-
P033	Ryosuke DOKE	Crustal deformation around Izu collision zone, Japan, inferred from GNSS and InSAR time series analysis
P034	Jessica ALLEN	Statistical insights regarding the relationship between seismicity and slow slip events in the Hikurangi Subduction Zone
P035	Hanaya OKUDA	Influence of silica diagenesis on frictional behavior: possible controlling factor for seismic activities in the Japan Trench
P036	Jingyi SUN	Single-station multi-phase detection and hypocenter inversion using polarization analysis
P037	Dawei GAO	Towards robust identification of repeating earthquakes
P038	Ji ZHANG	Utilizing Distributed Acoustic Sensing (DAS) for Submarine Fault Analysis in the Marmara Sea
P039	Luhong LU	Numerical Modeling of Slow Slip and Earthquake Interaction on the Costa Rica Subduction Fault
P040	Shih-Han HSIAO	Advanced Seismic Hazard Evaluation via Crustal Deformation Reevaluation: Hengchun Fault Analysis in Southern Taiwan
P041	Hironobu FUJISAWA	Existing Probability of Triple Junctions Based on Plate Motion Angles
P042	Kanto KATO	Modeling Subdaily Occurrence of Slow Slip Events in Western Shikoku
P043	Syed Idros BIN ABDUL RAHMAN	Love Wave Detection and FK Analysis of Distributed Acoustic Sensing Data (DAS) from the Sakurajima Network
P044	Yohei HAMADA	Formation Process and Physical Property Distribution of the Upper Prism in the Japan Trench
P045	Rintaro ENOMOTO	Kinematic Rupture Modeling Unveils Multi-Fault Segments and Multi- Rupture Episodes during the 2024 Mw 7.5 Noto Peninsula Earthquake
P046	Kaito SHIMOMURA	Swarm-ness Analysis of Low-Frequency Earthquakes in Western Shikoku Using Modified ETAS Model
P047	Akira WATANABE	The Characteristics of Deep Low-Frequency Tremor Generation Zone Based on Three-dimensional deep electrical resistivity structure beneath the Kii Peninsula, Southwestern Japan
P048	Riko ARAI	Automatic detection of inflection points in high-rate GNSS Data: Numerical experiments and a case study of slow slip events around the Boso Peninsula
P049	Mari HAMAHASHI	Fluvial Sedimentary Response to Late Quaternary Climate and Tectonics at the Himalayan Frontal Thrust, Central Nepal
P050	Rezkia Dewi ANDAJANI	Stress Accumulation within Aso Caldera after Kumamoto Earthquake: Insight from Earthquake Distribution

P051	Yukinojo KOYAMA	Deformation mechanisms and stress along the plate interface at depths of deep slow earthquakes: the view from the Sanbagawa belt
P052	Maki KOMATSU	Spatio-temporal distribution of repeating earthquakes in the Noto peninsula earthquake swarm
P053	Ryo OKUWAKI	A source process of the 2024 Noto Peninsula earthquake estimated by PDTI: a multiplex rupture sequence driven by the preceding earthquake swarms and the segmented fault network
P054	Keisuke YOSHIDA	Rupture Initiation of the 2024 Mw7.5 Noto Peninsula, Japan, Earthquake that Occurred within a Complex Fault Network
P055	Keisuke YOSHIDA	Initial Rupture Momentum Diversify Final Size in Earthquake Cycles
P056	Junichi NAKAJIMA	An earthquake nest beneath Kanto: implications for a subducted seamount
P057	Shun-ichi WATANABE	Time series of the GNSS-A seafloor positioning at SGO-A sites applying the acoustic ambiguity reduction (AAR) method
P058	Sambuddha DHAR	Importance of transient rheology in forearc deformation of northeastern Japan in megathrust earthquake cycle
P059	Kazutoshi IMANISHI	Detection of annual-scale variations in interplate coupling by combining intraplate earthquakes and geodetic data: Application to the Tohoku-oki and Nankai
P060	Masayuki KANO	Data assimilation for fault slip monitoring and short-term prediction of the 2010 Bungo Channel slow slip event: A comparison of Markov chain Monte Carlo method and physics-informed neural networks
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