

Program for "International Joint Workshop on Slow Earthquakes 2021"(ver. 2 updated on Sep. 13)

Start End

Day 0 Sept. 13 (JST)

12:30 14:30 Pre-event

Day 1 Sept. 14 (JST)

Presenter name

Title

Chair: Hitoshi Hirose						
	9:00	9:05	5	Opening Remarks	Kazushige Obara	
O-01	9:05	9:20	15		Luis Antonio Dominguez	Characterization of the slip rate variation between two closely space asperities in the Mexican Subduction zone: The 2012 M 7.5 Ometepec Earthquake and the 2018 M 7.2 Pinotepa Nacional Earthquake
O-02	9:20	9:35	15		Vladimir Kostoglodov	Crustal Slow Strike Slip Events on the La Venta-Chacalapa Fault System in Southern Mexico
O-03	9:35	9:50	15		Victor M. Cruz-Atienza	Cascading interaction between silent and devastating earthquakes in Mexico
O-04	9:50	10:05	15		Francisco PASTEN-ARAYA	Seismic and Aseismic Slip Behavior Along-Dip the Copiapó Ridge Subducted in North-Central Chile
O-05	10:05	10:20	15		Rogelio Torres	Tidal influence in spectral ratios and their relation with the tremors observed at the Chile Triple Junction
	10:20	10:35	15	Discussion		

10:35 10:50 15 Break

Chair: Hitoshi Hirose						
O-06	10:50	11:05	15		Raymundo Plata-Martinez	Source properties of shallow tremors, at the Guerrero Seismic Gap
O-07	11:05	11:20	15		Shukei OHYANAGI	Frequent synchronization of shallow tectonic tremor and earthquake activities near the Japan Trench
O-08	11:20	11:35	15		Takuya Maeda	Characteristics of secondary slip fronts detected from deep low-frequency tremor
O-09	11:35	11:50	15		Naoya CHUJO	The moment release rate of short-term slow slip events in the northern Kii Peninsula from 2002 to 2020 based on NIED Hi-net tilt data
	11:50	12:05	15	Discussion		

12:05 13:30 85 Break

Chair: Kazushige Obara						
O-10	13:30	13:45	15		Takeru MATSUDA	Oscillator decomposition of time series data
O-11	13:45	14:00	15		Yu-Siang WU	Tectonic Tremor Detection Framework Design Based on One-class Classification
O-12	14:00	14:15	15		Hao-Yu, Chiu	Efficient Classification for Tectonic Tremors in Different Regions— Case Studies in Shikoku, Japan and Taiwan
O-13	14:15	14:30	15		Kate Huihsuan Chen	Earthquake swarms and repeating earthquakes in Taiwan
O-14	14:30	14:45	15		Evgeny A. Podolskiy	Continuous glacial tremor and slip revealed by ocean-bottom and surface seismometers
O-15	14:45	15:00	15		Daya Shanker	Sequence of March 28, 1999 Chamoli earthquake of Garhwal Himalaya: Tectonic and hazard implications
	15:00	15:15	15	Discussion		

15:15 15:30 15 Break

15:30 17:30 120 Online poster (1)

19:00 Social party, etc.

Start End

Day 2 Sept. 15 (JST)

Chair: Kimihiro Mochizuki						
O-16	9:00	9:15	15		John C Weber	Can slow-slip strike-slip explain geodetic-paleoseismic mismatch in the Trinidad-Tobago transform plate boundary?
O-17	9:15	9:30	15		Rie Nakata	Towards understanding a primary control on shallow earthquakes in Hyuga-Nada from geophysical imaging, drilling and monitoring
O-18	9:30	9:45	15		Ryuta ARAI	Correlation between physical properties of the plate interface and distribution of slow earthquakes in the Hyuga-nada subduction zone
O-19	9:45	10:00	15		Hiroshi ICHIHARA	Electrical resistivity distribution in the slow and regular earthquake zones in the Hyuga-nada area
	10:00	10:15	15	Discussion		

10:15 10:30 15 Break

Chair: Kohtaro Ujiie						
O-20	10:30	10:45	15		Kimihiro Mochizuki	Distribution of slow and repeating earthquakes as revealed by ocean bottom seismological observations and its relationship to the subduction structure in the northern part of the Hikurangi subduction margin
O-21	10:45	11:00	15		Ryota Takagi	Ambient noise tomography in the Japan Trench using S-net records
O-22	11:00	11:15	15		Takashi TONEGAWA	Temporal variation of seismic structure in the shallow Nankai subduction zone: Implication for the relationship between fluid migration and slow earthquakes
O-23	11:15	11:30	15		Fahrudin	Tectonic tremors controlled by the shear zone thickness and strike-slip fault in Nankai Trough, Japan
O-24	11:30	11:45	15		Yoshitaka Hashimoto	Spatial relationship between alignment of VLFE, Decollement Geometry, stress and fluid pressure in shallow Nankai Trough
	11:45	12:00	15	Discussion		

12:00 13:30 90 Break

13:30 15:30 120 Online poster (2)

15:30 15:45 15 Break

Chair: Kohtaro Ujiie, Kimihiro Mochizuki						
O-25	15:45	16:00	15		Madison FRANK	Lithological heterogeneity and fluid flow related to seamount subduction: an exhumed example from Amami-Oshima Island
O-26	16:00	16:15	15		Naoki NISHIYAMA	Spatial changes in inclusion band spacing as an indicator of temporal changes in slow slip and tremor recurrence intervals
O-27	16:15	16:30	15		Kohtaro Ujiie	Underplating of metapelite and metabasite at source depths of ETS
O-28	16:30	16:45	15		Asuka YAMAGUCHI	Geological factors affecting broad spectrum of fault behavior in subduction zones
	16:45	17:00	15	Discussion		

Start End

Day 3 Sept. 16 (JST)

9:00 11:00 120 Online poster (3)

11:00 11:10 10 Break

Chair: Yutaka Sumino						
O-29	11:10	11:25	15		Satoshi IDE	Broadband Slow Earthquakes
O-30	11:25	11:40	15		Naofumi ASO	Diffusional Process of Stationary Deep Long-Period Events
O-31	11:40	11:55	15		Tomoaki NISHIKAWA	Development of an ETAS model that explicitly incorporates the triggering effect of slow slip events on seismicity
O-32	11:55	12:10	15		Takanori MATSUZAWA	Numerical simulation of slow slip events along the Nankai and Hyuganada region revisited from recent studies of long-term slow slip events
	12:10	12:25	15	Discussion		

12:25 13:40 75 Break

Chair: Takahiro Hatano						
O-33	13:40	13:55	15		Ritsuya Shibata	Dependency of a priori information for radiation-corrected empirical Green's function in waveform inversion
O-34	13:55	14:10	15		Rongjiang Tang	A Future Scenario Earthquake: Dynamic Rupture simulation on Wenchuan-Maoxian Fault
O-35	14:10	14:25	15		Takehito SUZUKI	Systematic treatment for the slip-front-propagation velocity with general friction laws and its implications for ordinary and slow earthquakes
O-36	14:25	14:40	15		Kota FUKUDA	Modeling slow earthquakes by competing time scale of rupture propagation, stress loading and strength healing.
O-37	14:40	14:55	15		Yutaka Sumino	Analog experiment related to and inspired by slow earthquakes using viscoelastic fluids
	14:55	15:10	15	Discussion		

15:10 15:15 5 Closing Remarks Satoshi Ide

プロジェクトとりまとめ						
S-01	15:30	15:40	10	とりまとめ: A01		
S-02	15:40	15:50	10	とりまとめ: A02		
S-03	15:50	16:00	10	とりまとめ: B01		
S-04	16:00	16:10	10	とりまとめ: B02		
S-05	16:10	16:20	10	とりまとめ: C01		
S-06	16:20	16:30	10	とりまとめ: C02		
S-07	16:30	16:50	20	とりまとめ: 総括		

Poster Presentation

P-01	Ryo OKUWAKI	Using dense seismic arrays to detect and locate VLFs in Japan
P-02	Koji TAMARIBUCHI	Shallow low frequency earthquake monitoring system based on envelope cross-correlation and amplitude
P-03	Shunsuke TAKEMURA	Activity characteristics of shallow very low frequency earthquakes southeast off the Kii Peninsula, along the Nankai Trough
P-04	Emily Warren-Smith	The PULSE Network: Understanding SSE Episodicity on the Hikurangi Subduction Zone
P-05	Natalia Poiata	Complexity of deep low-frequency earthquake activity in Shikoku, Japan, from automatic analysis of continuous seismic data
P-06	Kellen Azúa	Seismic and aseismic behavior during the post-seismic period of large earthquakes. Study of the 2010 Mw8.8 Maule Earthquake
P-07	Kazuaki OHTA	Comprehensive detection of shallow tremor activities in the Nankai subduction zone, Japan
P-08	Aitaro Kato	Rapid tremor migration revealed by a dense seismic array in the western Shikoku, Japan
P-09	Yusuke YAMASHITA	Ocean bottom seismological observation of shallow slow earthquakes off the east of Kikai Island, Nansei-Shoto (Ryukyu) Trench
P-10	Naoki UCHIDA	Global distribution fault creep from repeating earthquake data
P-11	Atikul Haque Farazi	EHVSR from Earthquake Coda for Investigating Deeper Subsurface: Application to the OBS data at the Off Fukushima Forearc Region, NE Japan
P-12	Youichi ASANO	Correlation on Seismicity of Regular and Very-low Frequency Earthquakes in and around the Hyuga-nada
P-13	Susumu Kawakubo	Early-postseismic low-frequency tremor activity after the 2003 Tokachi-oki earthquake (M 8.0) detected by offshore aftershock observation
P-14	Akiko Takeo	Possible chaotic behaviour of deep VLFs during long-term SSE in Nankai revealed by the comprehensive automatic detection of VLFs
P-15	Ryosuke AZUMA	Seismicity around the subducting seamount in the Japan and Kuril trench junction revealed from a broad-band OBS array and S-net observation
P-16	Miguel Saez	Revealing the Seismic Behaviour of the Southern Portion of the Liqueñe-Ofqui System Fault
P-17	Satoru BABA	Quantification of characteristics of temporal change in very low frequency earthquake activity around Japan
P-18	Yoshiyuki TANAKA	Gravity observations in the long-term slow slip areas
P-19	Hitoshi HIROSE	Slow slip events in the Bungo Channel and Hyuganada areas from 2018 to 2019 detected by a GNSS observation network
P-20	Yuichi Hiramatsu	Gravity data analysis to extract temporal gravity anomalies during the slow slip events in the Ryukyu Trench
P-21	Yohei Kinoshita	Progress of Slip distribution estimation on 2018 Boso SSE based on InSAR observations
P-22	Yusaku TANAKA	Simultaneous occurrences of slow crustal deformation and swarm activation in Noto peninsula
P-23	Satoshi ITABA	Detection of shallow SSE off the Kii Peninsula by onshore borehole strainmeter
P-24	Takeshi IINUMA	Spatio-temporal evolution of the shallow slow slip event along the Nankai-Trough during December 2020 to January 2021 based on seafloor and sub-seafloor geodetic observations
P-25	Yutaro OKADA	Systematic-detection of short-term slow slip events in the Alaska subduction zone
P-26	Takeshi Akuhara	Passive seismic observation at Kumano-nada toward high-resolution study of slow earthquakes
P-27	Makoto UYESHIMA	Introduction of a pilot Network-MT survey in the north island of New Zealand
P-28	Eiji KURASHIMO	Detailed seismic structure of the slow-earthquake source region beneath the western part of Shikoku, SW Japan, revealed by active seismic experiments
P-29	Yasunori SAWAKI	Ocean-depth dependence of correction precision for OBS misorientation, deployed at the Hyuga-nada region of the Nankai subduction zone
P-30	Atsushi Okamoto	Rupture of serpentinitized mantle wedge induced by self-promoting carbonation
P-31	Keishi Okazaki	Rheology of the fault zones with high fluid fractions at the brittle-plastic transition
P-32	Miki Takahashi	Spontaneous slip acceleration under a condition that control shear stress
P-33	Ken-ichi HIRAUCHI	Geologic evidence for fault-valve behavior in a mantle wedge-derived serpentinite shear zone and implications for episodic tremor and slip events
P-34	Yuta MITSUI	Spatiotemporal relations between intraplate seismicity and large long-term slow slip events along the Nankai Trough
P-35	Ta-Wei CHANG	Hypocenter Hotspots Illuminated by a New Cross-Correlation-Based Hypocenter and Centroid Relocation Method
P-36	Takane Hori	A mechanical model of regular and slow earthquakes
P-37	Akemi NODA	Energy-based scenarios for megathrust earthquakes in the Nankai trough subduction zone, southwest Japan
P-38	Futoshi Yamashita	Two end-member earthquake preparations illuminated by foreshock activity on a meter-scale laboratory fault
P-39	Ryosuke ANDO	Depth-dependent deep-slow earthquakes controlled by temperature dependence of brittle-ductile transitional rheology
P-40	Ryoichiro AGATA	A Bayesian multi-model inference for fault slip distribution: the effect of prior constraints in the estimation for long-term slow slip events beneath the Bungo Channel
P-41	Koki MASUDA	Attenuation effect on observed frequency characteristics of broadband slow earthquakes
P-42	Genki Oikawa	Diversity of focal mechanisms of volcanic deep low frequency earthquakes caused by the stress disturbance
P-43	Keisuke ARIYOSHI	Extension of aseismic slip propagation theory to slow earthquake migration
P-44	Tomoya MURAMOTO	Low-speed shear experiment on solid-liquid two-phase flow system: Hysteresis on acceleration process

P-45	Atsuko NAMIKI	A model experiment of fault slip with a rough fault plane
P-46	Satoshi TONAI	Effects of layer strength on deformation styles in sandbox Coulomb wedges
P-47	Tetsuo YAMAGUCHI	Oscillatory nucleation and tremor migration in laboratory earthquakes
P-48	Tatsuya Nishikubo	Pattern transition and extending fingers of brittle viscoelastic fluids under shear stress as the analog of the plate boundary
P-49	Rinya MIYAKAWA	Self-alignment of particles in viscoelastic fluid and particles under shear –analogue experiment for melange formation and spatial-temporal distribution of slow earthquakes
P-50	Kojiro Otoguro	Dynamics and pressure variation of fluid injection into a cell filled with swelling gel particles-effect of permeability variation
P-51	Anael Lemaitre	