

Joint workshop on slow earthquakes in ERI (September 17-18, 2013)

Revision

ERI workshop program "Study on occurrence mechanism of slow earthquakes: Toward resolving the relationship between slow earthquakes and megathrust huge earthquakes based on unification of results from observation, experiments, theoretical studies, and modelling" supported by joint usage/research center of Japanese universities

J-DESC feasibility study "Investigation of slow slip in support of IODP drilling on the Hikurangi subduction margin, New Zealand"

スロー地震合同研究集会

東大地震研共同利用研究集会「スロー地震の発生メカニズムを探る: 観測、実験、理論、モデル化から得られる情報の統合と巨大地震との関連性の解明を目指して」

J-DESCフィジビリティ研究「ニュージーランド・ヒクランギ沈み込み帯のスロースリップ域掘削計画に向けたスロー地震のモニタリング研究」

Date September 17 (Tue.) - 18 (Wed.), 2013

Place Seminar Room, 3rd floor, 1st Building, Earthquake Research Institute, University of Tokyo

日程 2013年9月17日(火)~18日(水)

場所 東京大学地震研究所1号館 セミナー室

Program (2013/09/16 version)

	Start	Speaker	
17-Sep.			
	Chair	Hitoshi Hirose 廣瀬仁	
	9:25	Hitoshi Hirose 廣瀬仁	Opening Remarks 趣旨説明
A1	9:30	Satoshi Itaba 板場智史	Relationship with the plate convergence rate and average slip rate at the transition zone estimated from short-term SSEs 短期的SSEから推定した平均すべり速度とプレート収束速度との関係
A3	9:50	Noriko Tsumura 津村紀子	Seismic attenuation structure in and around the Tokai slow slip region, central Japan 東海スロースリップ領域周辺の地震波減衰構造
A5	10:10	Kazuki Horino 堀野一樹	Scaling relationships of deep low-frequency tremors in southwest Japan 西南日本における深部低周波微動のスケーリング関係
A6	10:30	Satoshi Annoura 案浦理	m-value of deep low-frequency tremor in the western part of Shikoku, southwest Japan 四国西部の深部低周波微動のm値の解析
A7	10:50	Makoto Okubo 大久保慎人	LFE Hypocenter determination by 3D- MTMC shooting method 3D- MTMC shooting methodによる深部低周波微動の震源決定
Coffee Break	11:10		
	Chair	Sadaomi Suzuki 鈴木貞臣	
A8	11:20	Masahiro Miyazaki 宮崎真大	Estimating depth of the triggered tremor beneath the Yatsushiro Sea, central Kyushu, Japan by using S-P time 熊本県八代海で発生した誘発微動のS-P時刻を用いた深さ推定
A10	11:40	Naoki Suda 須田直樹	Automatic detection of deep very low-frequency earthquakes in southwest Japan 深部超低周波地震の自動検出

A11	12:00	Mamoru Nakamura 中村衛	Very low frequency earthquakes in the Ryukyu Trench 琉球海溝における浅部超低周波地震活動
A12	12:20	Kensuke Suzuki 鈴木健介	Seismicity and pressure changes observed at DONET stations around the same time DONET内で同時期に観測された地震活動変化と圧力変動
Lunch Break	12:40		
Chair		Yoshihiro Ito	
	13:50	Kazushige Obara	Opening Remarks
B1	13:55	Kazushige Obara	Activity style of nonvolcanic tremor episode
B2	14:25	Sadaomi Suzuki	P- and S-wave detection of the low frequency earthquakes (LFE) using 3-D array. Its application to hypocenter determination
B3	14:55	Aaron G. Wech	Cascadia episodic silence and slip
Coffee Break	15:25		
Chair		Aaron Wech	
B4	15:40	John Vidale	Two rare flavors of subduction earthquakes: DLPs in the stagnant mantle wedge and regular quakes triggered by slow slip
B5	16:10	Naofumi Aso	Tectonic, Volcanic, and Semi-Volcanic Deep Low-Frequency Earthquakes
B6	16:40	Kevin Chao	Various Tectonic Tremor Generation Environments in Japan
B7	17:10	Heidi Houston	ETS and tidal stressing: Fault weakening during ETS
	18:00	Social Party 懇談会	at Mukogaoka Faculty House
18-Sep.			
Chair		Kazushige Obara	
B8	9:00	Hitoshi Hirose	A comparison of the source processes of four Boso Peninsula slow slip events
B9	9:30	Yoshihiro Ito	Acceleration of slow earthquake toward to the 2011 Tohoku- Oki earthquake
B10	10:00	Laura Wallace	Major along-strike variations in slow slip behavior at the Hikurangi subduction interface, New Zealand: implications for controls on the spectrum of fault slip behavior
Coffee Break	10:30		
B11	10:45	Takuya Nishimura	Slow slip events in a subduction zone along a northern rim of the Philippine Sea plate observed by GNSS
B12	11:15	Tim Melbourne	Geodetic constraints on the moment budget of Cascadia slow slip
Lunch Break	11:45		
Chair		Laura Wallace	
B13	13:00	Aitaro Kato	Geometrical control of subducting plate interface on slow slip and tremor zones, illustrated by dense seismic arrays in the western Shikoku, Japan
B14	13:30	Atsushi Saiga	Anisotropic structures of oceanic slab and mantle wedge in a deep low-frequency tremor zone beneath the Kii peninsula, SW Japan
B15	14:00	Stuart Henrys	Seismic reflection images of subduction interface down- stepping and splay fault branching from the central Hikurangi margin : implications for slow slip behaviour and fluid flow channelling

	Chair	Aitaro Kato	
B16	14:30	Yingfeng Ji	Three-dimensional Numerical Simulations of Temperature, Fluid Flow and Heat Flow associated with Subduction of the Philippine Sea plate beneath Southwest Japan
B17	15:00	Ryosuke Ando	Roles of Brittle-Ductile Fault Heterogeneity on Dynamics of Slow Earthquakes
B18	15:30	Teruo Yamashita	Modeling of slow earthquakes: thermo-poro-mechanical and -chemical effects
Coffee Break	16:00		
	Chair	Ryosuke Ando	
B19	16:15	Hiroyuki Noda	Similarities between observed pre-seismic behaviors involving slow slip and rate-state earthquake sequence models accounting for a hierarchical asperity concept
B20	16:45	Yajing Liu	Numerical modeling on the source parameter scaling relations and synthetic surface deformation of episodic slow slip events in subduction zones
B21	17:15	Bunichiro Shibazaki	Modeling slow slip events along various subduction zones
	17:45	Yoshihiro Ito	Closing Remarks