

Curriculum Vitae

(ver. April/01/2025)

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Education

B.S.E, Faculty of Education, Utsunomiya University (04/92-03/96)
M.ed., Graduate school of Education, Utsunomiya University (04/96-03/98)
Ph. D., Graduate school of Science, Tohoku University (03/98-02/03)

Professional Experience

Research Associate, Tohoku University (Researcher of Japanese Antarctic Research Expedition) (10/00-03/02)
Technical Staff, National Research Institute for Earth Science and Disaster Prevention, (03/03-03/06)
Research Fellow, National Research Institute for Earth Science and Disaster Prevention, (04/06-03/07)
Assistant Professor, Graduate School of Science, Tohoku University (04/07-08/13)
Associate Professor, Disaster Prevention Research Institute, Kyoto University (03/25-present)
Professor, Disaster Prevention Research Institute, Kyoto University (04/25-present)

Invited Researcher, National Research Institute for Earth Science and Disaster Prevention (07/2007-03/2019)
Visiting Senior Scientist, Japan Agency for Marine-Earth Science and Technology (04/2015-03/2016)
Invited Lecturer, Faculty of Education, Utsunomiya University (10/2007-03/2010)
Invited Lecturer, Faculty of Life and Environmental Science, University of Yamanashi (2015, 2017, 2019)
Invited Lecturer, Faculty of Science, University of the Ryukyus (2015)
Visiting Research Scientist, Lamont-Doherty Earth Observatory of Columbia University (08/2018-07/2019)

Memberships

The Seismological Society of Japan
The Geological Society of Japan
The Geodetical Society of Japan
Seismological Society of America
American Geophysical Union

Major Background;

Earthquake seismology

Awards:

The 2014 Editors' Citation for Excellence in Refereeing - Geophysical Research Letters, March 13, 2015

The 2015 Editors' Citation for Excellence in Refereeing - Geophysical Research Letters, April 19, 2016

GRANTS

A. Japan Society for the Promotion Science

1. Grant-in-Aid for Scientific Research (A) , Co-PI, Multi-scale types of slow earthquakes based on ocean-bottom geodetic and seismological observation (PI : Hiromi Fujimoto), 2008—2012, 3500k JPY (Project total 37,200k JPY)
2. Grant-in-Aid for Scientific Research on Innovative Areas, Co-PI, Comprehensive modelling of pre- and co-seismic processes (PI : Satoshi Ide), 2009-2013, 4955k JPY (Project total 97,100k JPY)
4. Grant-in-Aid for Early-Career Scientists (B), PI, Seismic heterogeneous structures based on auto-correlation analysis of ambient noise on ocean-bottom seismometer records, 2010-2012, 3,300k JPY (Project total 3,300k JPY)
5. Grant-in-Aid for Scientific Research (A) , PI, Slow slip to the trench ?, 2014-2018, 26,130k JPY (Project total 31,200k JPY)
6. Grant-in-Aid for Specially Promoted Research, Co-PI, Uncover processes of slips-to-the-trench, their past and present (PI : Ryota Hino) , 2014-2018, 3,000k JPY (Project total 428,100k JPY)
7. Grant-in-Aid for Scientific Research on Innovative Areas, Co-PI, Clarification of strength and stress of the inland crust(PI : Toru Matsuzawa), 2014-2018, 102,010k JPY (Project total 216,600k JPY)
8. Birateral Programs, PI, A comparative study on slow earthquakes between Japan and Mexico, 2014-2015, 4,555k JPY (Project total 4,555k JPY)
9. Grant-in-Aid for Early-Career Scientists (S), Co-PI, Head and Tail of massive earthquakes: Mechanism arresting growth of interpolate earthquakes, 2019-2023, 5,100k JPY(tentative), (Project total 154,900k JPY)
10. Grant-in-Aid for Transformative Research Areas (A) (Core), Co-PI, Science of Slow to Fast Earthquakes (PI : Satoshi Ide) , 2021-2025, 250k JPY(tentative) (Project total 71,800k JPY)
11. Grant-in-Aid for Transformative Research Areas (A), PI, Slow-to-fast earthquakes through comparison across global subduction zones, 2021-2025, 36,578k JPY(tentative) (Project total 114,700k JPY)

B. Other

12. Tokio Marine Kagami Memorial Foundation, PI, Stress Field inferred from focal mechanisms of microearthquakes beneath Japan Islands with highly dense seismic network in Japan., 2013-2017, 1,440k JPY
13. SATREPS(JST-JICA), PI, Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast for Disaster Mitigation, 2015-2021, 480,000k JPY.
14. aXis-JST, PI, Applications and demonstrations of Japanese ocean bottom observation system and culturally-tuned disaster education program, 2020-2021, 54,605k JPY

Peer-reviewed papers;

1. Chen, Y., **Y. Ito**, R. Plata-Martinez, L. A. Dominguez, S. Ohyanagi, E. S. Garcia, K. Flores, V. M. Cruz-Atienza, M. Shinohara, and Y. Yamashita (2025), New insight into slow earthquake activities from continuous ocean bottom seismometers at the Guerrero seismic gap, Mexico, *Geophysical Journal International*, <https://doi.org/10.1093/gji/ggaf057>.

2. An, L., B. Enescu, Z. Peng, M. Miyazawa, H. Gonzalez-Huizar and **Y. Ito** (2024), Dynamically triggered seismicity in Japan following the 2024 Mw7.5 Noto earthquake, *Earth, Planets and Space*, 76:181, <https://doi.org/10.1186/s40623-024-02127-z>.
3. Sawaki, Y., **Y. Ito**, E. S. M. Garcia, A. Miyakawa, and T. Shibutani (2024), Deep plutonic bodies over low-frequency earthquakes revealed from receiver-side Green's functions, *Tectonophysics*, 892, 230536, <https://doi.org/10.1016/j.tecto.2024.230536>
4. Woods, K., L. M. Wallace, C. A. Williams, I. J. Hamling, S. C. Webb, **Y. Ito**, N. Palmer, R. Hino, S. Suzuki, M. K. Savage, E. Warren-Smith, and K. Mochizuki (2024), Spatiotemporal Evolution of Slow Slip Events at the Offshore Hikurangi Subduction Zone in 2019 using GNSS, InSAR, and seafloor geodetic data, *J. Geophys. Res: Solid Earth*, 129, e2024JB029068. <https://doi.org/10.1029/2024JB029068>.
5. Mukherjee, P., **Y. Ito**, K. Borah, A.P. Mpuang, E.S. Garcia, R. Plata-Martinez (2024), Along-Strike Forearc and Subducted Upper Slab Structure beneath North Chile: Slow Slip Implications, *Journal of South American Earth Sciences*, 148, 105064, <https://doi.org/10.1016/j.jsames.2024.105064>.
6. An, L., F. Grigoli, B. Enescu, M. Buttinelli, M. Anselmi, I. Molinari, and **Y. Ito** (2024), Offshore Fault Geometry Revealed from Earthquake Locations Using New State-of-Art Techniques: The Case of the 2022 Adriatic Sea Earthquake Sequence, *Seismological Research Letters*, <https://doi.org/10.1785/0220230264>.
7. Muramoto, T., **Y. Ito**, A. Miyakawa, and N. Furuichi (2024), Viscoelasticity modeling of clay minerals by dynamic viscoelasticity measurement and its implications for earthquake faulting, *Tectonophysics*, 872, 230208, <https://doi.org/10.1016/j.tecto.2024.230208>.
8. Ruan, Y., **Y. Ito**, and Y. Sawaki (2023), Anisotropic Velocity Structure Beneath Shikoku, Japan: Insights From Receiver Function and Shear Wave Splitting Analyses, *J. Geophys. Res: Solid Earth*, 128, e2023JB027178, <https://doi.org/10.1029/2023JB027178>.
9. Muramoto, T., **Y. Ito**, A. Miyakawa, and N. Furuichi (2023), Strain and Stress Accumulation in Viscoelastic Splay Fault and Subducting Oceanic Crust, *Geophys. Res. Lett.*, 50(11), doi:10.1029/2023GL103496.
10. Inazu, D., **Y. Ito**, R. Hino and W. Tanikawa (2023), Abrupt water temperature increases near seafloor during the 2011 Tohoku earthquake, *Progress in Earth and Planetary Science*, 10:24, doi:10.1186/s40645-023-00556-0.
11. Farazi, A.H., Md. S. Hossain, **Y. Ito**, J. Piña-Flores, A.S.M. M. Kamal, Md. Z. Rahman (2023), Shear wave velocity estimation in the Bengal Basin, Bangladesh by HVSR analysis: implications for engineering bedrock depth, *Journal of Applied Geophysics*, 211, doi:10.1016/j.jappgeo.2023.104967.
12. Farazi, A.H., **Y. Ito**, E. S. M. Garcia, A. M. Lontsi, F. J. Sánchez-Sesma, A. Jaramillo, S. Ohyanagi R. Hino and M. Shinohara (2023), Shear-wave velocity structure at the Fukushima forearc region based on H/V analysis of ambient noise recordings by ocean bottom seismometers, *Geophysical Journal International*, 233, 1801–1820, doi:10.1093/gji/ggad028.
13. Woods, K., S. C. Webb, L. M. Wallace, **Y. Ito**, C. Collins, N. Palmer, R. Hino, M. K. Savage, D. M. Saffer, E. E. Davis, D. H. N. Barker, Using seafloor geodesy to detect vertical deformation at the Hikurangi subduction zone: Insights from self-calibrating pressure sensors and ocean general circulation models, *Journal of Geophysical Research: Solid Earth*, 127, e2022JB023989, doi:10.1029/2022JB023989
14. Sawaki, Y., Y. Yamashita, S. Ohyanagi, E. S. M. Garcia, A. Ito, H. Sugioka, T. Takahashi, M. Shinohara, and **Y. Ito** (2022), Seafloor depth controls seismograph orientation uncertainty, *Geophysical Journal International*, doi:10.1093/gji/ggac397.
15. Iwasaki, Y., K. Mochizuki, M. Ishise, E. Todd, S. Schwartz, H. Zai, M. Savage, S. Henrys, A. Sheehan, **Y. Ito**, L. Wallace, S. Webb, T. Yamada, and M. Shinohara (2022), Continuous tremor activity with stable polarization direction following the 2014 large slow slip event in the Hikurangi subduction margin offshore New Zealand, *Journal of Geophysical Research: Solid Earth*, doi:10.1029/2021JB022161.
16. Plata-Martinez, R., S. Ide, M. Shinohara, E. S. Garcia, N. Mizuno, L. A. Dominguez, T. Taira, Y. Yamashita, A. Toh, T. Yamada, J. Real, A. Husker, V. M. Cruz-Atienza and **Y. Ito** (2021),

- Shallow slow earthquakes to decipher future catastrophic earthquakes in the Guerrero seismic gap, *Nature Communications*, 12, 3976, doi:10.1038/s41467-021-24210-9.
17. Tago, J., V.M. Cruz-Atienza, C. Villafuerte, T. Nishimura, V. Kostoglodov, J. Real, and **Y. Ito** (2021), Adjoint Slip Inversion under a Constrained Optimization Framework: Revisiting the 2006 Guerrero Slow Slip Even, *Geophys. J. Int.*, 226(2), 1187–1205, doi:10.1093/gji/ggab165.
 18. Cruz-Atienza, V.M., J. Tago, C. Villafuerte, M. Wei, R. Garza-Girón, L. A. Dominguez, V. Kostoglodov, T. Nishimura, S. I. Franco, J. Real, M. A. Santoyo, **Y. Ito**, and E. Kazachkina (2021), Short-term interaction between silent and devastating earthquakes in Mexico, *Nature Communications*, 12, doi:10.1038/s41467-021-22326-6
 19. Sawaki, Y., **Y. Ito**, K. Ohta, T. Shibutani, and T. Iwata (2021), Seismological structures on bimodal distribution of deep tectonic tremor, *Geophys. Res. Lett.*, 48(8), e2020GL092183, doi:10.1029/2020GL092183.
 20. Inoue, T., **Y. Ito**, L. M. Wallace, Y. Yoshikawa, D. Inazu, E. S. M. Garcia, T. Muramoto, S. C. Webb, K. Ohta, S. Suzuki, and R. Hino (2021), Water depth dependence of long-range correlation in nontidal variations in seafloor pressure, *Geophys. Res. Lett.*, 48(8), e2020GL092173, doi:10.1029/2020GL092173.
 21. Černý, J., M.T. Ramírez-Herrera, E.S. Garcia, and **Y. Ito** (2020), Seafloor morphology along the active margin in Guerrero, Mexico: Probable earthquake implications, *Journal of South American Earth Sciences*, 102, doi: <https://doi.org/10.1016/j.jsames.2020.102671>.
 22. Kawamura, K., A. Wada, M. Römer, M. Strasser, H. G. Fink, **Y. Ito**, and R. Hino (2020), Detailed seafloor observation on a deep-sea terrace along the Japan Trench after the 2011 Tohoku Earthquake, In: K.Sassa, K. Takara (eds.), *Understanding and Reducing Landslide Disaster Risk, Catastrophic Landslides*, Volume 1, Springer.
 23. **Ito, Y.**, S. C. Webb, Y. Kaneko, L. M. Wallace, and R. Hino (2020), Sea surface gravity waves excited by dynamic ground motions from large regional earthquakes, *Seis. Res. Lett.*, 94(4), 2268–2277, <https://doi.org/10.1785/0220190267>.
 24. Katakami, S., Y. Kaneko, **Y. Ito**, E. Araki (2020), Stress sensitivity of instantaneous dynamic triggering of shallow slow slip events, *Journal of Geophysical Research: Solid Earth*, 125, e2019JB019178, <https://doi.org/10.1029/2019JB019178>.
 25. Barnes, P. M., L. M. Wallace, D. M. Saffer, R. E. Bell, M. B. Underwood, A. Fagereng, F. Meneghini, H. M. Savage, H.S. Rabinowitz, J. K. Morgan, H. Kitajima, S. Kutterolf, Y. Hashimoto, C. H. Engelmann de Oliveira, A. Noda, M. P. Crundwell, C. L. Shepherd, A. D. Woodhouse, R. N. Harris, M. Wang, S. Henrys, D. H.N. Barker, K. E. Petronotis, S. M. Bourlange, M. B. Clennell, A. E. Cook, B. E. Dugan, J. Elger, P. M. Fulton, D. Gamboa, A. Greve, S. Han, A. Hüpers, M. J. Ikari, **Y. Ito**, G.Y. Kim, H. Koge, H. Lee, X. Li, M. Luo, P. R. Malie, G.F. Moore, J. J. Mountjoy, D. D. McNamara, M. Paganoni, E. J. Sreaton, U. Shankar, S. Shreedharan, E. A. Solomon, X. Wang, H-Y. Wu, I. A. Pecher, L. J. LeVay, and IODP Expedition 372 Scientists (2020), Slow slip source characterized by lithological and geometric heterogeneity, *Science Advances*, 6(13), eaay3314 doi: 10.1126/sciadv.aay3314.
 26. Shibazaki, B., L. M. Wallace, I. Hamling, Y. Kaneko, **Y. Ito**, T. Matsuzawa (2019), Three-dimensional modeling of spontaneous and triggered slow-slip events at the Hikurangi subduction zone, New Zealand, *J. Geo. Res.*, doi:10.1029/2019JB018190.
 27. Kaneko, Y., **Y. Ito**, B. Chow, L. M. Wallace, C. Tape, R. Grapenthin, E. D'Anastasio, S. Henrys, R. Hino (2019), Ultra-long Duration of Seismic Ground Motion Arising From a Thick, Low-Velocity Sedimentary Wedge, *J. Geo. Res.*, 124, doi:10.1029/2019JB017795.
 28. Ohta, K., **Y. Ito**, R. Hino, S. Ohyanagi, T. Matsuzawa, H. Shiobara, M. Shinohara (2019), Tremor and inferred slow slip associated with afterslip of the 2011 Tohoku earthquake, *Geophys. Res. Lett.*, 46, 4591–4598, doi:10.1029/2019GL0824268.
 29. Yarce, J., A. F. Sheehan, J. S. Nakai, S. Y. Schwartz, K. Mochizuki, M. K. Savage, L. M. Wallace, S. A. Henrys, S. C. Sebb, **Y. Ito**, R. E. Abererombie, B. Fry, H. Shaddox, E. K. Todd (2019), Seismicity at the northern Hikurangi Margin, New Zealand, and investigation of the potential spatial and temporal relationships with a shallow slow slip event, *J. Geo. Res.*, 124, doi:10.1029/2018JB017211.

30. Muramoto, T., **Y. Ito**, D. Inazu, L. M. Wallace, R. Hino, S. Suzuki, S. C. Webb, S. Henrys(2019), Seafloor crustal deformation on ocean bottom pressure records with non-tidal variability corrections: application to Hikurangi margin, New Zealand, *Geophys. Res. Lett.*, 46, 303-310, doi:10.1029/2018GL080830.
31. Uemura, M, **Y. Ito**, K. Ohta, R. Hino, M. Shinohara(2018), Spatio-temporal changes in the seismic velocity induced by the 2011 Tohoku-Oki earthquake and slow slip event revealed from seismic interferometry, using Ocean Bottom Seismometer's records, *Progress in Earth and Planetary Science*, 5(87), doi:10.1186/s40645-018-0240-3.
32. Katakami, S., **Y. Ito**, K. Ohta, R. Hino, S. Suzuki, and M. Shinohara (2018), Spatiotemporal Variation of Tectonic Tremor Activity Before the Tohoku-Oki Earthquake, *J. Geophys. Res.*, 123, 9676-9688, doi:10.1029/2018JB016651.
33. Kubota, T, T. Saito, **Y. Ito**, Y. Kaneko, L. M. Wallace, S. Suzuki, R. Hino, and S. Henrys (2018), Using Tsunami Waves Reflected at the Coast to Improve Offshore Earthquake Source Parameters: Application to the 2016 Mw 7.1 Te Araroa Earthquake, New Zealand, *J. Geophys. Res.*, 123, 8767-8779, doi:0.1029/2018JB015832.
34. Todd, E.K., S.Y. Schwartz, K. Mochizuki, L. M. Wallace, A. F. Sheehan, S. C. Webb, C. A. Williams, J. Nakai, J. Yarce, B. Fry. S. Henrys, **Y. Ito** (2018), Earthquakes and Tremor Linked to Seamount Subduction During Shallow Slow Slip at the Hikurangi Margin, New Zealand, *J. Geophys. Res.*, 123, 6769-6783, doi:10.1029/2018JB016136.
35. Kano, M., N. Aso, T. Matsuzawa, S. Ide, S. Annoura, R. Arai, S. baba, M. Bostock, K. Chao, K. Heki, S. Itaba, **Y. Ito**, N. Kamaya, T. Maeda, J. Maury, M. Nakamura, T. Nishimura, K. Obana, K. Ohta, N. Poiata, B. Rousset, H. Sugioka, R. Takagi, T. Takahashi, A. Takeo, Y. Tu, N. Uchida, Y. Yamashita, and K. Obara (2018), Development of a Slow Earthquake Database, *Seis. Res. Let.*, 89, 4, 1566–1575, doi:10.1785/0220180021.
36. Azuma, R., R. Hino, Y. Ohta, **Y. Ito**, K. Mochizuki, K. Uehira, Y. Murai, T. Sato, T. Takanami, M. Shinohara, and T. Kanazawa (2018), Along-arc heterogeneity of the seismic structure around a large coseismic shallow slip area of the 2011 Tohoku-oki Earthquake: 2-D Vp structural estimation through an airgun-ocean bottom seismometer experiment in the Japan Trench subduction zone, *J. Geophys. Res.*, 123, doi:10.1029/2017JB015361.
37. Cruz-Atienza, V. M., **Y. Ito**, V. Kostoglodov, V. Hjörleifsdóttir, A. Iglesias, J. Tago, M. Calò, J. Real, A. Husker, S. Ide, T. Nishimura, M. Shinohara, C. Mortera-Gutierrez, S. García, and M. Kido (2018), A Seismogeodetic Amphibious Network in the Guerrero Seismic Gap, Mexico, *Seismo. Res. Lett.*, doi:10.1785/0220170173, 89, 4, 1435–1449, doi:10.1785/0220170173.
38. **Ito, Y.**(2018), Slow earthquakes and crustal activities in Nankai Trough, *Geotechnical Engineering Magazine* , 66, 54-60. (in Japanese)
39. Katakami, S., Y. Yamashita, H. Yakiyama, H. Shimizu, **Y. Ito**, and K. Ohta (2017), Tidal Response in Shallow tectonic tremors, *Geophys. Res. Lett.*, 44, 9699-9706, doi:10.1002/2017GL074060.
40. **Ito, Y.**, M. J. Ikari, K. Ujiie, and A. J. Kopf (2017), Coseismic slip propagation on the Tohoku plate boundary fault facilitated by slip-dependent weakening during slow fault slip, *Geophys. Res. Lett.*, 44, 8749–8756, doi:10.1002/2017GL074307.
41. Kubota, T., R. Hino, D. Inazu **Y. Ito**, T. Iinuma, Y. Ohta, S. Suzuki, and K. Suzuki (2016), Coseismic slip model of offshore moderate interplate earthquakes on March 9, 2011 in Tohoku using tsunami waveforms, *Earth, Planet. Sci. Lett.*, 458, 241-251, doi:10.1016/j.epsl.2016.10.047.
42. Muto, J., B. Shibazaki, T. Iinuma, **Y. Ito**, Y. Ohta, S. Miura, and Y. Nakai (2016), Heterogeneous rheology controlled postseismic deformation of the 2011 Tohoku-Oki earthquake, *Geophys. Res. Lett.*, 43, 4971-4978, doi:10.1002/2016GL068113.
43. Wallace, L., S. Webb, **Y. Ito**, K. Mochizuki, R. Hino, S. Henrys, S. Schwartz, and A. Sheehan (2016), Slow slip near the trench at the Hikurangi subduction zone, New Zealand, *Science*, 352, 701–704, doi:10.1126/science.aaf2349.
44. Harris, R., L. Wallace, S. Webb, **Y. Ito**, K. Mochizuki, H. Ichihara, S. Henrys, A. Tréhu, S. Schwartz, A. Sheehan, D. Saffer, and R. Lauer (2016), Investigations of shallow slow slip offshore of New Zealand, *Eos*, 97, doi:10.1029/2016EO048945.

45. Kubota, T., R. Hino, D. Inazu, **Y. Ito**, and T. Iinuma (2015), Complicated rupture process of the M_w 7.0 intraslab strike-slip earthquake in the Tohoku region on 10 July 2011 revealed by near-field pressure records, *Geophys. Res. Lett.*, 42, 9733–9739, doi:10.1002/2015GL066101.
46. **Ito, Y.**, and M. J. Ikari (2015), Velocity- and slip-dependent weakening in simulated fault gouge: Implications for multi-mode fault slip, *Geophys. Res. Lett.*, doi:10.1002/2015GL065829.
47. Ikari, M. J., **Y. Ito**, K. Ujiie, and A. J. Kopf (2015), Spectrum of slip behaviour in Tohoku fault zone samples at plate tectonic slip rates, *Nature Geoscience*, doi:10.1038/ngeo2547.
48. Ghosh, A., E. Uesca-Pérez, E. Brodsky, and **Y. Ito** (2015), Very low frequency earthquakes (VLFs) in Cascadia migrate with tremor, *Geophys. Res. Lett.*, 42, 3228–3232. doi: 10.1002/2015GL063286.
49. **Ito, Y.**, R. Hiino, S. Suzuki, and Y. Kaneda (2015), Episodic tremor and slip near the Japan Trench prior to the 2011 Tohoku–Oki earthquake, *Geophys. Res. Lett.*, 42, 6, 1725–1731, doi:10.1002/2014GL062986.
50. Nakatani, Y. K. Mochizuki, M. Shinohara, T. Yamada, **Y. Ito**, Y. Murai, and T. Sato (2015), Changes in seismicity before and after the 2011 Tohoku earthquake around its southern limit revealed by dense ocean-bottom seismic array data, *Geophys. Res. Lett.*, 42: 1384–1389. doi:10.1002/2015GL063140.
51. Asano, Y., K. Obara, T. Matsuzawa, H. Hirose, and **Y. Ito** (2015), Possible shallow slow slip events in Hyuga-nada, Nankai subduction zone, inferred from migration of very low frequency earthquakes, *Geophys. Res. Lett.*, 42, doi:10.1002/2014GL062165.
52. Fujimoto, H., R. Hino, M. Kido, **Y. Ito**, Y. Ohta, T. Iinuma, Y. Osada, D. Inazu, S. Suzuki, K. Tachibana, T. Demachi, and S. Miura (2014), Study of the 2011 off the Pacific Coast of Tohoku Earthquake based on Sea floor and Terrestrial Geodetic Observation, *J. Geodetic Soc. Japan*, 60, 1–22.
53. Romano, F., E. Trasatti, S. Lorito, C. Piromallo, A. Piatanesi, **Y. Ito**, D. Zhao, K. Hirata, P. Lanucara and M. Cocco (2014), Structural control on the Tohoku earthquake rupture process investigated by 3D FEM, tsunami and geodetic data, *Scientific Reports*, doi:10.1038/srep05631.
54. **Ito, Y.**, and R. Hino (2013), Velocity reduction in an offshore region after the 2011 Tohoku-Oki earthquake, revealed from ocean-bottom seismic records, Proceedings of the 11th SEGJ International Symposium, 523–526, doi: 10.1190/segj112013-131.
55. Hino, R., **Y. Ito**, Y. Ohta, T. Iinuma, and D. Inazu (2013), Ocean bottom pressure records of the 2011 Tohoku-Oki earthquake, Proceedings of the 11th SEGJ International Symposium, 462–465, doi: 10.1190/segj112013-117.
56. Hino, R., D. Inazu, Y. Ohta, **Y. Ito**, S. Suzuki, T. Iinuma, Y. Osada, M. Kido, H. Fujimoto, Y. Kaneda (2013), Was the 2011 Tohoku-Oki earthquake preceded by aseismic preslip? Examination of seafloor vertical deformation data near the epicenter, *Mar. Geophys. Res.*, doi:10.1007/s11001-013-9208-2.
57. Arai, K., H. Naruse, R. Miura, K. Kawamura, R. Hino, **Y. Ito**, D. Inazu, M. Yokokawa, N. Izumi, M. Maruyama, T. Kasaya (2013), Tsunami-generated turbidity current of the 2011 Tohoku-Oki earthquake, *Geology*, 41, 1195–1198, doi:10.1130/G34777.1
58. Muto, J., B. Shibazaki, **Y. Ito**, T. Iinuma, M. Ohzono (2013), Two-dimensional viscosity structure of the northeastern Japan islands arc-trench system, *Geophys. Res. Lett.*, 40, 4604–4608, doi:10.1002/grl.50906.
59. Davis, E., M. Kinoshita, K. Becker, K. Wang, Y. Asano, **Y. Ito** (2013), Episodic deformation and inferred slow slip at the Nankai subduction zone during the first decade of CORK borehole pressure and VLF monitoring, *Earth Planet. Sci. Lett.*, 368, 110–118.
60. **Ito, Y.**, R. Hino, M. Kido, H. Fujimoto, Y. Osada, D. Inazu, Y. Ohta, T. Iinuma, M. Ohzono, S. Miura, M. Mishina, K. Suzuki, T. Tsuji, J. Ashi (2013), Episodic slow slip events in the Japan subduction zone before the 2011 Tohoku-Oki earthquake, *Tectonophysics*, 600, 14–26.
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