

Biographical Sketch for Shuichi Kodaira
Assistant Executive Director
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

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History of Employment

2015- Assistant Executive Director, JAMSTEC
2014- Director/Principal Scientist, R&D Center for Earthquake and Tsunami, JAMSTEC
2011-2014 Program director/Principal Scientist, IFREE, JAMSTEC
2011- Visiting professor, Yokohama National University
2009- Visiting professor, Tohoku University,
2007 – 2011 Principal Scientist, IFREE, JAMSTEC
2001 – 2007 Group leader, IFREE, JAMSTEC
1998 - 2001 Sub-group leader, IFREE, JAMSTEC
1996 -1998 Research Scientist, Deep Sea Research Dep., JAMSTEC
1993 -1995 Visiting researcher, University of Bergen
1992 -1996 Assistant Professor, Hokkaido University

Degrees:

Dr. Sci. 1992 Geophysics, Hokkaido University
M. Sci. 1990 Geophysics, Hokkaido University
B.A. 1988 Geophysics, Hokkaido University

Research Experience

1997- PI of many JAMSTEC seismic cruises
2012 Co-PI of JAPAN-German research cruise in the Japan Trench
2010 Co-PI of JAMSTEC and Geological Survey Canada Cascadia OBS cruise

Honors

1992 Norwegian Research Council visiting researcher fellowship
2014 Fellow, American Geophysical Union
2017 Best Paper Award, Japan Seismological Society
2017 Beno Gutenberg Lecture, American Geophysical Union

Invited talks in International conferences (selected)

AGU Spring Meeting, Joint Assembly, Acapulco, 2007
European Geosciences Union General Assembly, Vienna, 2008
AGU Fall Meeting, San Francisco, 2008
Goldschmidt Conference, Prague, 2011
AGU Fall Meeting, San Francisco, 2011 (two invited talks)
AGU Fall Meeting, San Francisco, 2012
AAAS Annual Meeting, Boston, 2013
IAHS-IAPSO-IASPEI Joint Assembly, Gothenburg, 2013
International Symposium on Deep Seismic Profiling of the Continents and their Margins,
Barcelona, 2014

AGU Fall Meeting, San Francisco, 2014
Goldschmidt Conference, Yokohama, 2015
AGU Fall Meeting, Gutenberg Lecture, New Orleans, 2017
AOGS, Honolulu, 2018 (assigned)
International Symposium on Deep Seismic Profiling of the Continents and their Margins,
Cracow, 2018 (assigned)

Service to the community

2018- AGU Seismology Section Committee for the Beno Gutenberg Lecture
2015-2016 AGU Seismology Section Fellows Committee
2013- Editorial board, Marine Geophysical Research
2012 Workshop convener, GeoPRISMS-Jamstec Ulatra-deep drilling into arc crust workshop
2011 Co-Chair Detailed Planning Group on IODP Rapid Response Drilling Following the Tohoku Earthquake
2008-2010 IODP New Science Plan Writing Committee
2007-2009 Theme editor, G-cubed

Selected Publications

Kodaira, S., Y. Nakamura, Y. Yamamoto, K. Obana, G. Fujie, T. No, Y. Kaiho, T. Sato & S. Miura (2017). Depth-varying structural characters in the rupture zone of the 2011 Tohoku-oki earthquake. *Geosphere*, DOI:doi.org/10.1130/GES01489.1

Ohira, A., **Kodaira, S.**, Nakamura, Y., Fujie, G., Arai, R., & Miura, S. (2017). Evidence for frozen melts in the mid-lithosphere detected from active-source seismic data. *Scientific reports*, 7(1), 15770.

Boston, B., G. F. Moore, Y. Nakamura, **S. Kodaira** (2017). Forearc slope deformation above the Japan Trench megathrust: Implications for subduction erosion. *Earth and Planetary Science Letters*, 462, 26-34.

Kodaira, S., Fujie, G., Yamashita, M., Sato, T., Takahashi, T., & Takahashi, N. (2014). Seismological evidence of mantle flow driving plate motions at a palaeo-spreading centre. *Nature Geoscience* 7, 371–375, doi:10.1038/ngeo2121.

Nakamura, Y., **S. Kodaira**, S. Miura, C. Regalla, N. Takahashi, (2013) High-resolution seismic imaging in the Japan Trench axis area off Miyagi, northeastern Japan, *Geophysical Research Letters*, 40, doi:10.1002/grl.50364

Fujie, G., **S. Kodaira**, M. Yamashita, T. Sato, T. Takahashi and N. Takahashi (2013), Systematic changes in the incoming plate structure at the Kuril trench, *Geophys. Res. Lett.*, published online: 16/Jan., 2013, DOI: 10.1029/2012GL054340

Kodaira, S., T. No, Y. Nakamura, T. Fujiwara, Y. Kaiho, S. Miura, N. Takahashi, Y. Kaneda, and A. Taira (2012), Coseismic fault rupture at the trench axis during the 2011 Tohoku-oki earthquake, *Nature Geoscience*, 5(9), 646-650, doi:10.1038/ngeo1547.

Kodaira, S., T. Fujiwara, N. Noguchi, and N. Takahashi (2011), Structural variation of the Bonin ridge revealed by modeling of seismic and gravity data, *Earth Planets and Space*, 63(9), 963-973, doi:10.5047/eps.2011.06.036.