Saeko Kita

EDUCATIO	<u>DN</u>		
2009	0/03 P	h. D.*	Geophysics, School of Science, Tohoku University, Japan
2006	5/03 N	I.S.*	Geophysics, School of Science, Tohoku University, Japan
2004	/03 B	.S.	Geology, Department of Science, Tohoku University, Japan
	*Advisors:	Prof. Akira	Hasegawa (professor emeritus) & Dr. Tomomi Okada

RESEARCH EXPERIENCE

Geophysics (Seismology): Seismo-tectonics of intraslab earthquakes, collision zone and slow slips

Current and future research interests and projects:

I hope to reveal interactive occurrence mechanisms of intraslab earthquake and slow slips in subduction zone. Comparison of observed parameters of natural earthquakes with those of lab earthquakes is one of fascinating methodologies to reach my goal of study. Interdisciplinary approach using knowledge of seismology and mineral physics also needs for my research aim.

Employment

2021/01 - 2021/11 Visiting Scholar, University of California, Berkeley

2018/10 - present Associate Professor (joint-appointment), National Graduate Institute for Policy Studies (GRIPS)

2018/04 - present Senior Research Scientist, Building Research Institute, National Research and Development Agency (BRI)

2017/04 - 2018/03 Assistant Professor, Hiroshima University

2016/01 - present Visiting Researcher, National Research Institute for Earth Science and Disaster Resilience, National Research and Development Agency (NIED)

2016/01 - 2017/03 Assistant Professor Special appointment, Hiroshima University

2013/01 - 2015/12 Research Fellow, National Research Institute for Earth Science and Disaster Resilience, National Research and Development Agency (NIED)

2009/04 - 2012/12 GCOE Research Fellow, Tohoku University

2006/04 - 2009/03 JSPS research fellow

GRANTS from JSPS (PI) https://nrid.nii.ac.jp/en/nrid/1000010543449/

2020/04 – 2023/03 Grant-in-Aid for Scientific Research (C) 20K04139, Advanced study of relationship between intraslab and slow earthquakes, \$3,900,000-

2019/04 – 2021/03 Grant-in-Aid for Scientific Research on Innovative Areas 19H04627-F02,

Relationship of intraslab earthquakes with slow earthquakes, ¥2,210,000-

2019/01 – 2024/03 Fund for the Promotion of Joint International Research (Fostering Joint International Research (A)) 18KK0392, Relationship between short-term slow slip event, intraslab earthquakes and stress change in the oceanic slab, ¥12,610,000-

2017/04 – 2020/03 Grant-in-Aid for Scientific Research (C) 17K05637, Spatial variation of Swave reflection efficiency on plate boundary associated with long-term slow slip events, $\frac{1}{4}$,420,000-**2013/04 – 2016/03** Grant-in-Aid for Young Scientists (B) 25800243, Detailed examination of the Arc-arc collision process and its relationship with deformation mechanism of the Pacific slab,

beneath the Hokkaido, ¥3,120,000-

2011/04 – 2013/03 Grant-in-Aid for Young Scientists (B) 23740329, Examination of the Arc-arc collision process and its relationship with deformation mechanism of the Pacific slab, beneath the Hokkaido, \$1,950,000-

2006/04 – 2009/03 Grant-in-Aid for JSPS Fellows 06J05246, Occurrence mechanisms for intraslab earthquakes, ¥2,800,000-

(Non-PI GRANTS)

2023/04 – 2028/03 Grant-in-Aid for Scientific Research (A), 23H00147, ¥3,000,000- (PI: Tomohiro Ohuchi)

2021/09 – 2026/03 Grant-in-Aid for Transformative Research Areas (A), 21H05200, Science of Slow-to-Fast Earthquakes, ¥250,000- (PI: Satoshi Ide)

2021/09 – 2026.03 Grant-in-Aid for Transformative Research Areas (A), 21H05202, Anatomy of Slow-to-Fast seismogenic zones, ¥2,750,000- (PI: Asuka Yamaguchi)

<u>Awards</u>

1) The Young Scientists' Prize, The Commendation for Science and Technology by the Minister

of Education, Culture, Sports, Science and Technology, 2018

2) Young Scientist Award, Sesimological Society of Japan, 2014

3) Kuroda Chika Prize, Graduate school of Science, Tohoku University, 2007

Publications for 4 years https://scholar.google.co.jp/citations?user=mpmRe0cAAAJ&hl=ja

• **Kita, S. et al. (2021)** Effects of episodic slow slip on seismicity and stress near a subduction-zone megathrust. Nature Communications 12:7253. https://doi.org/10.1038/s41467-021-27453-8

• Kita, S. (2019) Characteristics of relocated hypocenters of the 2018 M6.7 Hokkaido Eastern Iburi earthquake and its aftershocks with a three-dimensional seismic velocity structure. Earth, Planets and Space DOI: 10.1186/s40623-019-1100-0

• **Delbridge et al. (2024)** A weak subducting slab at intermediate depths below northeast Japan.Sci. Adv.10,eadh2106. DOI:10.1126/sciadv.adh2106