

# Curriculum Vitae

**YOKOTA Yusuke, Ph. D**

Email: [yyokota\[at\]iis.u-tokyo.ac.jp](mailto:yyokota[at]iis.u-tokyo.ac.jp)



**Mar. 2013**                    **Ph. D in Department of Earth and Planetary Science, University of Tokyo**

**Apr. 2013~Dec. 2018** **Hydrographic and Oceanographic Department, Japan Coast Guard**

**Jan. 2019~**                    **Lecturer, Institute of Industrial Science, University of Tokyo**

**(Graduate School of Frontier Sciences, University of Tokyo)**

**Apr. 2021~**                    **Associate Professor, Institute of Industrial Science, University of Tokyo**

## ( 1 ) Refereed paper

1. Yoshizumi Y ... JASA
2. Yokota Y ... JASA
3. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y, Nagae K (2024): Representation and interpretation about underwater sound speed gradient field in the GNSS-A observation, submitted to GJI
4. Watanabe S, Ishikawa T, Nakamura Y, Yokota Y (2023): Full-Bayes GNSS-A solution for precise seafloor positioning with single uniform sound speed gradient layer assumption, J. Geod., accepted on Aug 13, 2023, <https://doi.org/10.1007/s00190-023-01774-6>
5. Tanaka HKM, Gallo G, Gluyas J, Kamoshida O, Presti DL, Shimizu T, Steigerwald S, Takano K, Yang Y, Yokota Y (2023): First navigation with wireless muometric navigation system (MuWNS) in indoor and underground environments, iScience, 107000. <https://doi.org/10.1016/j.isci.2023.107000>
6. Yokota Y, Kaneda M, Hashimoto T, Yamaura S, Kouno K, Hirakawa Y (2023): Experimental verification of seafloor crustal deformation observations by UAV-based GNSS-A, Scientific Reports, <https://doi.org/10.1038/s41598-023-31214-6>
7. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y (2022): Temporal change of km-scale underwater sound speed structure and GNSS-A positioning accuracy, Earth Space Sci, 9, <https://doi.org/10.1029/2022EA002224>
8. Sumiyoshi M, Nagasawa R, Ogawa H, Yoshizawa M, Akiyama Y, Nagano K, Hashimoto T, Horinouchi R, Horiuchi K, Saito K, Kawakami T, Yoshida Z, Yokota Y (2022): Multibeam-echosounder accuracy verification experimental method and initial results, J. Mar. Acoustics Soc. Japan 49(4), 127-137. <https://doi.org/10.3135/jmasj.49.127>
9. Tanaka HKM, Gluyas J, Holma M, Joutsenvaara J, Kuusiniemi P, Leone G, Presti DL, Matsushima J, Oláh L, Steigerwald S, Thompson LF, Usoskin I, Poluianov S, Varga D, Yokota Y (2022): Atmospheric Muography for Imaging and Monitoring Tropic Cyclones, Scientific Reports, 12:16710. <https://doi.org/10.1038/s41598-022-20039-4>
10. Yokota Y, Kojima S (2022): Development and field verification experiment of UAV that can automatically observe underwater condition data by XCTD/XBT, Journal of the Japan Society for Marine Surveys and

Technology 33, 1-2, 1-7. [https://doi.org/10.11306/jsmst.33.1-2\\_3](https://doi.org/10.11306/jsmst.33.1-2_3)

11. Tanaka HKM, Aichi M, Balogh SJ, Bozza C, Coniglione R, Gluyas J, Hayashi N, Holma M, Joutsenvaara J, Kamoshida O, Kato Y, Kin T, Kuusiniemi P, Leone G, Presti GL, Matsushima J, Miyamoto H, Mori H, Nomura Y, Okamoto N, Oláh L, Steigerwald S, Shimazoe K, Sumiya K, Takahashi H, Thompson LF, Tokunaga T, Yokota Y, Paling S, Varga D (2022): Periodic sea-level oscillation in Tokyo Bay detected with the Tokyo-Bay seafloor hyper-kilometric submarine deep detector (TS-HKMSDD), *Scientific Reports* 12:6097. <https://doi.org/10.1038/s41598-022-10078-2>
12. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y (2021): Crustal deformation detection capability of the GNSS-A seafloor geodetic observation array (SGO-A), provided by Japan Coast Guard, *Progress in Earth and Planetary Science* 8, 63, <https://doi.org/10.1186/s40645-021-00453-4>
13. Yokota Y, Matsuda T (2021): Underwater communication using UAV to realize high-speed AUV deployment. *Remote Sensing* 13, 4173. <https://doi.org/10.3390/rs13204173>
14. Tanaka HKM, Aichi M, Bozza C, Coniglione R, Gluyas J, Hayashi N, Holma M, Kamoshida O, Kato Y, Kin T, Kuusiniemi P, Leone G, Lo Presti D, Matsushima J, Miyamoto H, Mori H, Nomura Y, Olah L, Steigerwald S, Shimazoe K, Sumiya K, Takahashi, H, Thompson LF, Yokota Y, Paling S, Satoh M, Varga D (2021): First Results of Undersea Muography with the Tokyo-Bay Seafloor Hyper-Kilometric Submarine Deep Detector. *Scientific Reports* 11:19485. <https://doi.org/10.1038/s41598-021-98559-8>
15. Watanabe S, Ishikawa T, Nakamura Y, Yokota Y (2021): Co- and postseismic slip behaviors extracted from decadal seafloor geodesy after the 2011 Tohoku-oki earthquake. *Earth Planets Space* 73, 162. <https://doi.org/10.1186/s40623-021-01487-0>
16. Yokota Y (2021): Detection of Interplate Coupling Condition and Shallow Slow Slip Events along the Nankai Trough Subduction Zone by Sensitive GNSS-A Seafloor Geodetic Observation, *Journal of the Geodesy Society of Japan*, 67, 1-17, <https://doi.org/10.11366/sokuchi.67.1>
17. Fujita M, Matsumoto Y, Sato M, Ishikawa T, Watanabe S, Yokota Y (2021): Establishment of regular GNSS-A seafloor geodetic observation technique and its contribution to seismology, *Zisin*, 74, 55-65, <https://doi.org/10.4294/zisin.2020-18>
18. Nakamura Y, Yokota Y, Ishikawa T, Watanabe S (2021): Optimal transponder array and survey line configurations for GNSS-A observation evaluated by numerical simulation, *Frontiers in Earth Science*, <https://doi.org/10.3389/feart.2021.600993>
19. Watanabe S, Ishikawa T, Yokota Y, Nakamura Y (2020): GARPOS: Analysis software for the GNSS-A seafloor positioning with simultaneous estimation of sound speed structure, *Frontiers in Earth Science*, <https://doi.org/10.3389/feart.2020.597532>
20. Yokota Y, Ishikawa T (2020): Advanced GNSS-A analysis strategy and oceanographic application for subseafloor slow slip detection, *J. Mar. Acoustics Soc. Japan*, 47(4), 151-157
21. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y (2020): Kilometer-scale sound speed structure that affects GNSS-A observation: Case study off the Kii channel, *Frontiers in Earth Science*, <https://doi.org/10.3389/feart.2020.00331>
22. Ishikawa T, Yokota Y, Watanabe S, Nakamura Y (2020): History of on-board equipment improvement for GNSS-A observation with focus on observation frequency, *Frontiers in Earth Science*,

<https://doi.org/10.3389/feart.2020.00150>

23. Watanabe S, Yokota Y, Ishikawa T (2020): Stability test to validate the GNSS-A seafloor positioning with kinematic precise point positioning, *Journal of the Geodesy Society of Japan*, 66, 1-7, <https://doi.org/10.11366/sokuchi.66.1>
24. Yokota Y, Ishikawa T (2020): Shallow slow slip events along the Nankai Trough detected by GNSS-A, *Science Advances* 6, eaay5786, <https://doi.org/10.1126/sciadv.aay5786>
25. Yokota Y, Ishikawa T (2019): Gradient field of undersea sound speed structure extracted from the GNSS-A oceanography: GNSS-A as a sensor for detecting sound speed gradient, *SN Applied Sciences* 1:693, <https://doi.org/10.1007/s42452-019-0699-6>
26. Yokota Y (2019): Quantitative interpretation of the ability of the GNSS-A to monitor underwater structure, *J. Mar. Acoustics Soc. Japan* 46, 3, 116-129. <https://doi.org/10.3135/jmasj.46.116>
27. Yokota Y, Ishikawa T, Watanabe S (2019): Gradient field of undersea sound speed structure extracted from the GNSS-A oceanography, *Marine Geophysical Research* 40, 493-504, <https://doi.org/10.1007/s11001-018-9362-7>
28. Ishikawa T, Yokota Y (2018): Seafloor movement at subduction zone around Japan during 2013 to 2016 observed by GNSS-A seafloor geodetic observation, *Journal of Disaster Research* 13(3), 511-517, <https://doi.org/10.20965/jdr.2018.p0511>
29. Yokota Y, Ishikawa T, Watanabe S (2018): Seafloor crustal deformation data along the subduction zones around Japan obtained by GNSS-A observations, *Scientific Data* 5:180182, <https://doi.org/10.1038/sdata.2018.182>
30. Nishimura T, Yokota Y, Tadokoro K, Ochi T (2018): Strain partitioning and interplate coupling along the northern margin of the Philippine Sea plate, estimated from Global Navigation Satellite System and Global Positioning System-Acoustic data, *Geosphere* 14(2), 535-551, <https://doi.org/10.1130/GES01529.1>
31. Yokota Y, Sato M, Fukura H, Fujita M, Sengoku A (2018): SLR observation at the Shimosato Hydrographic Observatory, *Journal of the Geodesy Society of Japan* 63(2), 111-116, <http://doi.org/10.11366/sokuchi.63.111>
32. Otsubo T, Yokota Y (2018): Satellite Laser Ranging as one of global geodetic techniques: Current status and future prospective, *Journal of the Geodesy Society of Japan* 63(2), 75-79, <http://doi.org/10.11366/sokuchi.63.75>
33. Yokota Y (2017): Results and interpretation of seafloor geodetic observation along the Nankai Trough until 2015, *Journal of the Japan Society for Marine Surveys and Technology* 29, 21-24
34. Yokota Y (2017): Megathrust source region along the Nankai Trough --from recent achievements obtained by the GPS-A seafloor geodetic observation, *Journal of the Marine Acoustics Society of Japan* 44, 56-60
35. Yokota Y, Ishikawa T, Watanabe S, Tashiro T, Asada A (2016): Seafloor geodetic constraints on interplate coupling of the Nankai Trough megathrust zone, *Nature* 534, 374-377, <https://doi.org/10.1038/nature17632>
36. Watanabe S, Ishikawa T, Yokota Y (2015): Non-volcanic crustal movements of the northernmost Philippine Sea plate detected by the GPS-acoustic seafloor positioning, *Earth, Planets and Space* 67 (1), 184, <https://doi.org/10.1186/s40623-015-0352-6>

37. Yokota Y, Ishikawa T, Sato M, Watanabe S, Saito H, Ujihara N, Matsumoto Y, Toyama S, Fujita M, Yabuki T, Mochizuki M, Asada A (2015): Heterogeneous interplate coupling along the Nankai Trough, Japan, detected by GPS-acoustic seafloor geodetic observation, *Progress in Earth and Planetary Science* 2:10, <https://doi.org/10.1186/s40645-015-0040-y>
38. Ishibe T, Satake K, Sakai S, Shimazaki K, Tsuruoka H, Yokota Y, Nakagawa S, Hirata N (2015): Correlation between Coulomb stress imparted by the 2011 Tohoku-Oki earthquake and seismicity rate change in Kanto, Japan, *Geophysical Journal International* 201 (1), 112-134, <https://doi.org/10.1093/gji/ggv001>
39. Yokota Y, Koketsu K (2015): A very long-term transient event preceding the 2011 Tohoku earthquake, *Nature Communications* 6, 5934, <https://doi.org/10.1038/ncomms6934>
40. Watanabe S, Sato M, Fujita M, Ishikawa T, Yokota Y, Ujihara N, Asada A (2014): Evidence of viscoelastic deformation following the 2011 Tohoku-Oki earthquake revealed from seafloor geodetic observation, *Geophysical Research Letters* 41 (16), 5789-5796, <https://doi.org/10.1002/2014GL061134>
41. Zhen W, Guo-jie M, Yokota Y, Xiao-ning S (2013): Inversion of 1-Hz GPS waveform data for rupture process of the 2011 great northeast Japan earthquake, *Earthquake* 3, 3.
42. Yokota Y, Kawazoe Y, Yun S, Oki S, Aoki Y, Koketsu K (2012): Joint inversion of teleseismic and InSAR datasets for the rupture process of the 2010 Yushu, China, earthquake, *Earth, Planets and Space* 64 (11), 1047-1051, <https://doi.org/10.5047/eps.2012.04.008>
43. Yokota Y, Koketsu K, Fujii Y, Satake K, Sakai S, Shinohara M, Kanazawa T (2011): Joint inversion of strong motion, teleseismic, geodetic, and tsunami datasets for the rupture process of the 2011 Tohoku earthquake, *Geophysical Research Letters* 38 (7), <https://doi.org/10.1029/2011GL050098>
44. Koketsu K, Yokota Y, Nishimura T, Yagi Y, Miyazaki S, Satake K, Fujii Y, Miyake H, Sakai S, Yamanaka Y, Okada T (2011): A unified source model for the 2011 Tohoku earthquake, *Earth and Planetary Science Letters* 310 (3-4), 480-487, <https://doi.org/10.1016/j.epsl.2011.09.009>
45. Yokota Y, Koketsu K, Hikima K, Miyazaki S (2009): Ability of 1-Hz GPS data to infer the source process of a medium-sized earthquake: The case of the 2008 Iwate-Miyagi Nairiku, Japan, earthquake, *Geophysical Research Letters* 36 (12), <https://doi.org/10.1029/2009GL037799>

## (2) Data repository

1. Watanabe S, Ishikawa T, Nakamura Y, Yokota Y (2021): GNSS-A data obtained at the sites along the Japan Trench before the 2011 Tohoku-oki earthquake (Version 1.0.0), Zenodo, <http://doi.org/10.5281/zenodo.4528990>
2. Watanabe S, Ishikawa T, Nakamura Y, Yokota Y (2021): GNSS-A data obtained at the sites along the Japan Trench from March 2011 to June 2020, Zenodo, <http://doi.org/10.5281/zenodo.4529008>
3. Watanabe S, Ishikawa T, Yokota Y, Nakamura Y (2020): GNSS-A data obtained at the sites "TOS2" and "MYGI" in 2011-2019, Zenodo, <https://doi.org/10.5281/zenodo.3993912>
4. GNSS-A seafloor geodesy group, Yokota Y, Ishikawa T (2020): Cross-section underwater sound speed observation data off the Kii Channel on November 23, 2018, PANGAEA, <https://doi.org/10.1594/PANGAEA.915138>

5. Yokota Y, Ishikawa T, Watanabe S (2018): Original data of seafloor crustal deformation along the subduction zones around Japanese Islands, PANGAEA, <https://doi.org/10.1594/PANGAEA.885139>

### ( 3 ) Software

1. Watanabe S, Ishikawa T, Nakamura Y, Yokota Y (2022): GARPOS-MCMC: MCMC-based analysis tool for GNSS-Acoustic seafloor positioning, Zenodo, <http://doi.org/10.5281/zenodo.6825238>
2. Watanabe S, Ishikawa T, Nakamura Y, Yokota Y (2022): GARPOS: Analysis tool for GNSS-Acoustic seafloor positioning, Zenodo, <https://doi.org/10.5281/zenodo.6414642>
3. Watanabe S, Ishikawa T, Yokota Y, Nakamura Y (2020): GARPOS v0.1.0: Analysis tool for GNSS-Acoustic seafloor positioning, Zenodo, <https://doi.org/10.5281/zenodo.3992688>
4. Watanabe S, Yokota Y, Nakamura Y, Yabuki T (2020): YM1992: Geodetic data inversion tool, Zenodo, <https://doi.org/10.5281/zenodo.3984875>

### ( 4 ) Non-refereed Review

1. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y, Nagae K (2023): GNSS-A 観測の 2023 年までの観測結果と誤差に関する研究, 海洋音響学会誌 44, YY-YY
2. Watanabe S, Ishikawa T, Nakamura Y, Yokota Y (2022): Development of seafloor crustal deformation analysis software "GARPOS" for collectively estimating sound velocity structure and seafloor station position, and detection and interpretation of postseismic deformation using seafloor crustal deformation results for 10 years after the 2011 Tohoku-oki earthquake, Quarterly Journal: THE SUIRO (HYDROGRAPHY) 203, Oct 2022
3. Sumiyoshi M, Hyakudome T, Yokota Y (2021): AUV Bathymetric Survey Data, Developing Standardization, Quality Control, Sea Technology, 62, 12, 15-17, <https://isc-pagepro.mydigitalpublication.com/publication/?i=731814>
4. Yokota Y (2020): How to know slow slip events and anticipate future large earthquakes, The Science Breaker, ISSN-2571-9262, <https://doi.org/10.25250/thescbr.brk405>
5. Yokota Y (2020): Relationship between the slow slip event and the megathrust earthquake below the seafloor – The Nankai Trough subduction zone monitored by the GNSS-A, academist Journal <https://academist-cf.com/journal/?p=12691>
6. Yokota Y, Ishikawa T, Watanabe S (2020): Slow slip events and nano-scale ocean structure detected by GNSS-A, Ultrasonic Technology 32(1), 23-27
7. Research Outreach, issue 111, Yokota Y (2019): New technology for earthquake prediction (2019.12.18)
8. Otsubo T, Miyahara B, Kurihara S, Wakasugi T, Abe S, Miyazaki T, Toyama K, Yokota Y, Aoyama Y (2018): Organizing GGOS days 2018, Journal of the Geodesy Society of Japan 64, 56-57, <http://doi.org/10.11366/sokuchi.64.56>
9. Yokota Y (2017): Current status of GPS-A seafloor geodetic observation technique, The Journal of Survey, July 2017
10. Yokota Y, Watanabe S (2017): Estimation of coupling distribution on the plate boundary along the Nankai Trough megathrust zone, Quarterly Journal: THE SUIRO (HYDROGRAPHY) 182, July 2017

11. Yokota Y (2017): Seafloor geodetic monitoring for the megathrust source region, Report of the coordinating committee for earthquake prediction 97
12. Newton 36 (9), Akatani H, *advised by* Ide S, Kodaira S, Tsuji T, Hirono T, Hori T, Yokota Y (2016): Front line of megathrust earthquake research 4

## ( 5 ) International conference paper

1. Yokota Y, Kaneda M, Hashimoto T, Yamaura S, Kouno K, Hirakawa Y (2023): Engineering issues of UAV-based GNSS-A observation technology, OCEANS2023, XXXX, [https://doi.org/10.1109/OCEANS\\_](https://doi.org/10.1109/OCEANS_)
2. Nakamura Y, Ishikawa T, Watanabe S, Nagae K, Yokota Y (2023): Subseafloor tectonic phenomena along the Japan Trench and the Nankai Trough revealed from recent GNSS-A observation at Japan Coast Guard's SGO-A sites, UT23, 2079
3. Zhao S, Yokota Y, Wang Z, Xue S (2023): Investigation on GNSS-A precise point positioning based on adaptively robust filter considering the horizontal heterogeneity of sound speed structure, UT23, 2015
4. Sumiyoshi M, Hyakudome T, Yokota Y, Nagasawa R, Nakatani T, Nagahashi K, Aso T (2023): Developments of standardization and quality control for AUV bathymetric data through sea trials of "AUV-NEXT", UT23, 2101
5. Nakamura Y, Watanabe S, Yokota Y, Suzuki A, Ueshiba H, Seo N (2022): Shimosato co-location of the SLR and GNSS, IAG Symposia, [https://doi.org/10.1007/1345\\_2022\\_156](https://doi.org/10.1007/1345_2022_156)
6. Yokota Y, Ishikawa T, Watanabe S (2018): Analytical approach for the precise GNSS-A geodetic observation: Extraction of ocean disturbance effect, OCEANS'18 MTS/IEEE Kobe / Techno-Ocean 2018, 171107-001, <https://doi.org/10.1109/OCEANSKOB.2018.8559190>
7. Koketsu K, Yokota Y, Ghasemi H, Hikima K, Miyake H, Wang Z (2009): Source process and ground motions of the 2008 Wenchuan earthquake, Proceedings of international conference on earthquake engineering – The first anniversary of Wenchuan earthquake, 615-620

## ( 6 ) Keynote presentation

1. Yokota Y (Nov. 2020): GNSS-A seafloor geodetic observation and global geodesy around the Japan Islands, ILRS virtual station tour 2020

## ( 7 ) Invited presentation

1. Yokota Y, Kaneda M, Hashimoto T, Yamaura S, Kouno K, Hirakawa Y (May 22, 2023): Demonstration experiment of GNSS-A seafloor crustal deformation observation by UAV, JpGU2023, SSS12-01
2. Yokota Y (Apr. 21, 2023): A New Sea Surface Platform: Application of UAV to Seafloor Geodetic Observation, The 9th Forum of Undersea and Seafloor Engineering Zero
3. Yokota Y (Feb. 1, 2023): Research topics about marine acoustic engineering, 2022 Underwater equipment technology class such as ROV for harbor and marine civil engineering engineers
4. Yokota Y (Jan. 24, 2023): "UTEC UTokyo Meetup" (Supported by: The University of Tokyo, Division of University Corporate Relations and Division of External Relations)" [https://www.utec.co.jp/english/news/utec\\_news/utec-utokyo-meetup](https://www.utec.co.jp/english/news/utec_news/utec-utokyo-meetup)
5. Yokota Y (Jan 18, 2023): Development of UAV technology to realize high-frequency seafloor observation,

50th Joint Meeting UJNR Sea Bottom Surveys Panel, JT-7, Japan Coast Guard 4th building

6. Yokota Y (Dec. 20, 2022): Study status of data handling at GGOS, GGOS Japan, and the Geodetic Society of Japan, ROIS-DS-JOINT Joint workshop 2022
7. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y, Nagae K (Dec 12, 2022): Observation accuracy of GNSS-A seafloor geodetic observation array (SGO-A) in 2022, AGU fall meeting 2022, Chicago, G5A-03
8. Otsubo T, Miyahara B, Kurihara S, Yokota Y, Takagi Y, Nakamura Y, Takiguchi H, Aoyama Y, Matsuo K (Nov 14, 2022): Report from GGOS Japan, GGOS days 2022, Munich
9. Yokota Y (Oct. 3, 2022): Seafloor geodetic observation network SGO-A and next-generation sea-surface ocean information platform, Tokyo-city Univ Salon 2022
10. Yokota Y (Jan. 2022): Research topics about marine acoustic engineering, 2021 Underwater equipment technology class such as ROV for harbor and marine civil engineering engineers
11. Yokota Y (Jan. 2022): Application of UAV for ocean monitoring, Remo-sen Torano-ana Seminar (2022/01/11)
12. Yokota Y (Oct. 29, 2021): Underwater information and UAV sea-surface platform - Seafloor geodesy as an example -, The 8th LAIST-SJTU-Utokyo Joint Academic Symposium
13. Yokota Y (Jan. 2021): Research topics about marine acoustic engineering, 2019 Underwater equipment technology class such as ROV for harbor and marine civil engineering engineers
14. Yokota Y (Jan. 2021): Science and technology innovation study group
15. Otsubo T, Miyahara B, Kurihara S, Yokota Y (Nov. 2020): GGOS Japan: Accelerator of Global Space Geodesy, 2020 VLBI-con symposium, 7-1
16. Yokota Y, Otsubo T, Miyahara B, Ishikawa T, Watanabe S (Nov. 2020): Open data in the field of geodesy: Discussions in global geodesy and case studies in seafloor geodesy, 148th SGEPS Fall meeting, S001-09
17. Fujita M, Matsumoto Y, Sato M, Ishikawa T, Watanabe S, Yokota Y (Oct. 2020): Establishment of regular GNSS-A seafloor geodetic observation technique and its contribution to seismology, Fall meeting of the Seismological Society of Japan 2020, S20-06
18. Yokota Y (Oct. 2020): Detection of interplate coupling condition and shallow slow slip events along the Nankai Trough subduction zone by sensitive GNSS-A seafloor geodetic observation, 134th meeting of the Geodetic Society of Japan
19. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y (2020): Slow slip events and temporal changes of coupling condition on the shallow side of the Nankai Trough, JpGU-AGU meeting 2020, SCG58-11
20. Yokota Y, Ishikawa T, Watanabe S, Nakamura Y (2020): Development of GNSS-A in this decade and observation results along the Japan Trench, JpGU-AGU meeting 2020, SCG61-08
21. Yokota Y, Miyahara B, Otsubo M, Murayama Y, Munekane H, Ishikawa T (2020): Activities of WG on DOIs in GGOS and Data DOI WG in GGOS Japan, JpGU-AGU meeting 2020, SGD01-05
22. Yokota Y, Ishikawa T (Mar. 2020): Improvement of the GNSS-A observation technique to detect undersea slow slip events and its application to oceanography, The 28th Ocean Engineering Symposium 2020
23. Yokota Y (Jan. 2020): Activity about data DOI in the geodesy society, "Problems related to mutual use and integrated analysis of solid earth science data"

24. Yokota Y (Dec. 2019): Research topics about marine acoustic engineering, 2019 Underwater equipment technology class such as ROV for harbor and marine civil engineering engineers
25. Yokota Y (Sep. 2019): Consideration regarding data DOI assignment at institutions, Geodetic data DOI study (1st)
26. Yokota Y, Ishikawa T (May. 2019): Geoscientific information on plate boundary conditions provided by the GNSS-A, JpGU meeting 2019, S-CC06
27. Yokota Y (Jan. 2019): Upgrading of seafloor geodetic observation technique for detecting slow slip events – GNSS-A & Kuroshio, JHOD research report meeting 2019
28. Yokota Y, Ishikawa T (Oct. 2018): GNSS-A seafloor geodetic data observed before 2018, The 12th Joint Meeting of the UJNR Panel on Earthquake Research
29. Yokota Y (Mar. 2018): Seafloor crustal deformation fields detected by the GNSS-A monitoring, Earthquake and Volcano Hazards Observation and Research Program, Symposium in 2018
30. Yokota Y (Jan. 2018): Phenomena detected by the GNSS-A technique and current stage of development, The 2nd research meeting on the earthquake and tsunami of the Nankai Trough and the Nansei-syotou Trench, 2017
31. Yokota Y, Ishikawa T, Watanabe S (May. 2017): Microscale ocean disturbance that affects the GPS-A seafloor geodesy, JpGU-AGU joint meeting 2017, M-IS24
32. Yokota Y, Ishikawa T (Mar. 2017): Seismological results and future works of the GPS-A seafloor geodesy, The 2017 Spring Meeting of the Acoustical Society of Japan, 2-9-8
33. Yokota Y (Nov. 2016): Seafloor geodetic monitoring for the megathrust source region, The coordinating committee for earthquake prediction, 213
34. Yokota Y (Nov. 2016): Error factor of seafloor geodetic observation and study of high accuracy method, The 3rd Symposium of the Marine Acoustics Society of Japan 2016
35. Yokota Y (Oct. 2016): Complicated subduction and coupling condition along the Nankai Trough, The 58th Forum of Undersea and Seafloor Engineering
36. Yokota Y (Oct. 2016): Results and interpretation of seafloor geodetic observation along the Nankai Trough until 2015, The Annual Meeting of the JSMST 2016
37. Yokota Y (Jun. 2016): Observation results of the latest seafloor geodetic observation by Japan Coast Guard, The 1st Symposium of the Marine Acoustics Society of Japan 2016
38. Yokota Y (Apr. 2015): Seafloor geodetic observation along the Nankai Trough, Seminar in Earthquake and Volcano Research Group, Disaster Prevention Research Institute, Kyoto University

## **( 8 ) Honors & Awards**

1. Oct. 2023 31st Tsuboi Medal (group), The Geodetic Society of Japan
2. Mar. 2022 The 36th incentive award in hydrography
3. Nov. 2020 2020 The University of Tokyo Excellent Young Researcher
4. Oct. 2020 Technology development Award 2019 in the Seismological Society of Japan (Group)
5. Oct. 2020 28th Tsuboi Medal, The Geodetic Society of Japan
6. Sep. 2020 The 2020 Commendation from Japan Coast Guard Secretary
7. Mar. 2020 JAMSTEC Nakanishi Prize 2019



8. Nov. 2019 The Young Excellent Presentation Award in the 31st meeting of the Japan Society for Marine Surveys and Technology
9. May. 2019 The 2019 Excellent Paper Presentation Award of the Marine Acoustics Society of Japan
10. Oct. 2018 IEEE Oceanic Engineering Society Japan Chapter Young Researcher Award 2018
11. Jan. 2018 Shin-ichi Hirose Prize 2017 (Group)
12. May. 2017 The 2017 Commendation from Japan Coast Guard Secretary (Group)
13. Mar. 2017 The 31st incentive award in hydrography
14. May. 2016 The 2016 Excellent Paper Presentation Award of the Marine Acoustics Society of Japan
15. Mar. 2013 The 2012 Research Award (Doctoral course) of Department of Earth and Planetary Science, University of Tokyo
16. Nov. 2011 The 2011 Student Excellent Paper Presentation Award of the Seismological Society of Japan
17. Apr. 2010 DC1, Japan Society for the Promotion of Science Research Fellowship

## (9) Committee

1. GGOS WG Japan, Committee member (2015~2019)
2. GGOS Days 2018 LOC (2018)
3. GGOS Japan, Section president (2019~)
4. GGOS, Consortium (2019~)
5. GGOS, WG on DOIs (2019~)
6. IAG, Inter Commission Committees on Marine Research (2019~)
7. Geodetic Society of Japan, Councilor (2019~20, 22~)
8. Geodetic Society of Japan, General affairs committee (2018~)
9. Seismological Society of Japan, Planning committee (2020~)
10. Japan Society for Marine Surveys and Technology, Councilor (2019~)
11. Japan Society for Marine Surveys and Technology, Editorial board (2020~)
12. Japan Society for Marine Surveys and Technology, Editor-in-chief (2022~)
13. Marine Acoustics Society of Japan, Councilor (2017~)
14. Marine Acoustics Society of Japan, Planning and Steering Committee (2015~)
15. OTO'18, Program Committee (2017~2018)
16. Underwater engineering forum ZERO, Planning and Steering Committee (2019~)
17. International Symposium on Underwater Technology 2021 (UT21), Technical Committee (2019~2021)
18. Underwater Technology Symposium 2023 (UT23), Technical Committee (2022~2023)
19. The Engineering Academy of Japan, Ocean Terroir, Next ocean monitoring WG, Committee (2019~2020)
20. JpGU RDM Committee (2022~)
21. JpGU Open Science Committee (2020~)
22. JpGU, Councilor (2021~23)
23. Journal of Geodesy, Associate Editor (2021.10~)
24. Remote Sensing Topic Editor (2020.10~)

25. Earth Planets Space, Editor (2021.11~)
26. JAMSTEC Advisory Board Committee (2020~2021)

## ( 1 0 ) Outsourcing

1. Hitotsubashi University, Earth Science (2021~)
2. JICA Training of Chart creation technology, Geodesy, Statistics, Gravity (2019~)
3. Career Symposium, School of Science, Univ. Tokyo (2019.11)

## ( 1 1 ) Press Release

1. Slow slip in subseafloor region around Nankai Trough (2020.01.16)
2. New drone in ocean (2020.05.13)
3. Muography from onland to sea region (2021.03.19)
4. Drones show promise in speeding up communication with underwater robots for ocean surveys (2021.10.18)
5. Typhoon monitoring by muography <https://www.iis.u-tokyo.ac.jp/ja/news/4006/> (2022.10.11)
6. UAV seafloor monitoring <https://www.iis.u-tokyo.ac.jp/ja/news/4047/> (2022.11.18)