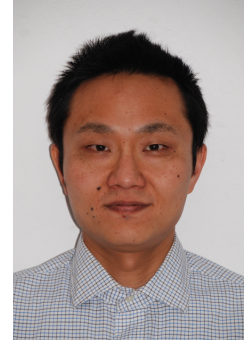


# Takamasa Tsubouchi

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## Personal detail

Date of birth: 23<sup>rd</sup> August 1979  
Nationality: Japanese

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## Professional Experience

### Geophysical Institute, University of Bergen, Bergen, Norway

**August 2017 – July 2020**, postdoctoral researcher under the Bergens forskningsstiftelse project, Overturning in the Nordic Seas (OVENS)

Mentor: Dr. Kjetil Våge

- Horizontal and vertical ocean circulation in the Nordic Seas
- Water mass transformation in the Nordic Seas

### Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany

**July 2015 – June 2017**, EU Marie Skłodowska-Curie research fellow, ARCGATE: Maximizing the potential of Arctic Ocean Gateway array

Mentor: Prof. Dr. Ursula Schauer

- The Arctic Ocean volume, heat and FW transports during 2004-2010

### National Oceanography Centre, Southampton, Southampton, UK

**October 2011 – March 2015**, postdoctoral researcher under the Natural Environment Research Council (NERC) consortium project, The Environment of the Arctic: Climate, Ocean and Sea Ice (TEA- COSI)

Line managers: Prof. Sheldon Bacon and Prof. Alberto Naveira Garabato

- Annual cycle of the Arctic boundary heat and FW transports during 2005-2006
- Export of the nutrients, isotope oxygen and DIC from the Arctic Ocean during summer 2005

**April 2008 - September 2011**, postdoctoral researcher under the NERC Arctic-IPY consortium project, Arctic Synoptic Basin-wide Observations (ASBO)

Line managers: Prof. Sheldon Bacon and Prof. Alberto Naveira Garabato

- Quasi-synoptic Arctic boundary heat and FW transports during summer 2005

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## Academic Background

### Department of Geophysics, Graduate School of Science, Tohoku University, Sendai, JAPAN

**PhD: April 2005 - March 2008**

- PhD thesis: Comparison Study of Subtropical Mode Waters in the World Ocean
- Main supervisor: Prof. Toshio Suga

**MSc: April 2003 to March 2005**

- MSc thesis: The Study of South Pacific Subtropical Mode Water -Using the High Resolution XBT line data between New Zealand and Fiji.
- Main supervisor: Prof. Toshio Suga

### Department of Geophysics, Faculty of Science, Tohoku University, Sendai, JAPAN

**B.S.: April 1999 to March 2003**

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## Awards and recognition

- EU Marie Skłodowska-Curie fellowship in 2015
- AGU spotlight research for Torres-Valdes et al. [2016]
- AGU spotlight research for Torres-Valdes et al. [2013]

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## Peer reviewed publications

- 2018: T. Tsubouchi, S. Bacon, A. Naveira-Garabato, Y. Aksenov, A. Beszczynska-Möller, E. Hansen, L. de Steur, B. Curry, C. Lee: The Arctic Ocean seasonal cycles of heat and freshwater fluxes: observation-based inverse estimates, *J. Phys. Oceanogr.* doi:10.1175/JPO-D-17-0239.1 (4 citations).
- 2017: M. Pietschnig, M. Mayer, T. Tsubouchi, A. Storto, S. Stichelberger, L. Haimberger: Volume and temperature transports through the main Arctic Gateways: A comparative study between an ocean reanalysis and mooring-derived data, *Ocean Sci. Discuss.*, doi:10.5194/os-2017-98. (1 citation)
- 2016: T. Tsubouchi, T. Suga, K. Hanawa: Comparison study of Subtropical mode waters in the world ocean, *Frontiers in Marine Science*, **3**:270. doi:10.3389/fmars.2016.00270 (2 citations).
- 2016: S. Torres-Valdes, T. Tsubouchi, E. Davey, I. Yashayaev, S. Bacon: Relevance of dissolved organic nutrients for the Arctic Ocean nutrient budget, *Geophys. Res. Lett.* doi:10.1002/2016GL069245 (7 citations). *AGU research spotlight paper*.
- 2014: T. Tsubouchi: Assembling the Arctic Ocean boundary monitoring array, *Data Science Journal*, **13**, 72-78p (0 citation).
- 2014: G. MacGilchrist, A. Naveira-Garabato, T. Tsubouchi, S. Bacon, S. Torres-Valdes, K. Azetsu-Scott: Arctic Ocean carbon sink, *Deep Sea Res.*, **86**, doi:10.1016/j.dsr.2014.01.002 (30 citations).
- 2013: S. Torres-Valdes, T. Tsubouchi, S. Bacon, A. Naveira-Garabato, R. Sanders, F. McLaughlin, B. Petrie, G. Kattner, K. Azetsu-Scott, T. Whitledge: Export of nutrients from the Arctic Ocean, *J. Geophys. Res.*, **118**, doi:10.1002/jgrc.20063 (50 citations). *\*AGU research spotlight paper*.
- 2012: T. Tsubouchi, S. Bacon, A. Naveira-Garabato, Y. Aksenov, S. Laxon, E. Fahrbach, A. Beszczynska-Möller, E. Hansen, C. Lee, R. Ingvaldsen (2012): The Arctic Ocean in summer: a quasi-synoptic inverse estimate of boundary fluxes and water mass transformation, *J. Geophys. Res.*, **117**, doi:10.1029/2011JC007174 (62 citations).
- 2012: M. Palmer, D. Gomis, M. Flexas, G. Jorda, L. Jullion, T. Tsubouchi, A. Naveira-Garabato: Water mass pathways and transports over the South Scotia Ridge west of 50W, *Deep Sea Res.*, **59**, 8-24 (28 citations).
- 2010: T. Tsubouchi, T. Suga, K. Hanawa: Indian Ocean Subtropical Mode Water: its water characteristics and spatial distribution, *Ocean Science*, **6**, 41-50 (13 citations).
- 2007: T. Tsubouchi, T. Suga, K. Hanawa: Three types of South Pacific Sub-tropical Mode Water: The relation to the large-scale circulation of the south Pacific subtropical gyre and their temporal variability, *J. Phys. Oceanogr.*, **37**, 2478-2490 (15 citations).

### **Sea going experiences**

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- KB2018614, Icelandic Sea, R/V Kristine Bonnevie, 25 May to 14 June 2018 for 3 weeks.
- PS100, Fram Strait, R/V Polarstern, 17 July to 3 September 2016 for 7 weeks.
- JR239, JR235, JR236, Weddell Sea, RRS James Clark Ross, Antarctic Deep Water Rates of Export (ANDREX) recovery, March to April 2010, for 6 weeks.
- KH-05-4, Shatzky Rize, R/V Hakuho-maru, November to December 2005, for 6 weeks.
- SY-03-11, South of Japan, R/V Soyo-maru, January 2004, for 10 days.
- KH-03-1, 165W line, R/V Hakuho-maru, May to June 2003, for 6 weeks.

### **Membership**

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American Geophysical Union, Challenger Society for Marine Science, The Oceanographic Society of Japan

### **Peer-review activity for journal and funding agencies**

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J. Phys. Oceanogr., J. Geophys. Res., Deep-Sea Res., J. Oceanogr., Ocean Dynamics, Ocean Science Discussion, Ocean Science

### **Languages**

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Japanese (native), English (CEFR C1), German (CEFR B1), Norwegian (CEFR A1).