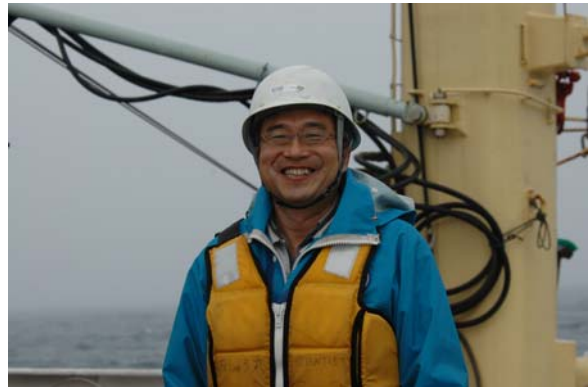


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### **Personal Information:**

Born: January 4, 1960, Tokyo, Japan

### **Education:**

B.S. (Geophysics), The University of Tokyo, 1982

M.S. (Physical Oceanography), The University of Tokyo, 1984

D.Sc. (Physical Oceanography), The University of Tokyo, 1992

### **Professional Experience:**

Technical Officer, Japan Fisheries Agency, 1984-1985

Researcher, Tohoku Regional Fisheries Research Laboratory, Japan Fisheries Agency,  
1985-1995

Visiting Scientist, Massachusetts Institute of Technology, Boston, 1989-1990

Senior Researcher, Tohoku National Fisheries Research Institute, Japan Fisheries Agency,  
1995

Associate Professor, Graduate School of Earth Environmental Science, Hokkaido University,  
1995-1997

Associate Professor, Graduate School of Science, The University of Tokyo, 1997-2005

Professor, Ocean Research Institute, The University of Tokyo, 2005-2010

Professor, Atmosphere and Ocean Research Institute, The University of Tokyo, 2005-2010

### **Honors and Awards:**

The Hidaka Prize, The Oceanographic Society of Japan, 1997: I. Yasuda and G.R. Flierl, 1995: Two dimensional asymmetric vortex merger: Contour dynamics experiment., *J. Oceanogr.*, 51, 145-170

Article Prize, Fisheries Oceanographic Society of Japan, 2009: H. Nishikawa and I. Yasuda, 2008: Variation of Japanese sardine (*Sardinops melanostictus*) mortality in relation to the winter mixed layer in the Kuroshio Extension. *Fish. Oceanogr.* 17(5), 411-420.

Article Prize, Fisheries Oceanographic Society of Japan, 2010: Itoh, S., I. Yasuda, H. Nishikawa, H. Sasaki and Y. Sasai (2009), Transport and environmental temperature variability of eggs and larvae of the Japanese anchovy (*Engraulis japonicus*) and Japanese sardine (*Sardinops melanostictus*) in the western North Pacific estimated via numerical particle tracking experiments. *Fish. Oceanogr.*, 18(2), 118-133.

The Society Prize, The Oceanographic Society of Japan, 2011: Studies on North Pacific Intermediate Water

### **Professional Service:**

Member, Board of Directors, The Oceanographic Society of Japan, 2001-2003; 2007-

Member of the Council, The Oceanographic Society of Japan, 2001-

Member, Board of Directors, Japanese Society of Fisheries Oceanography, 2003-2006

Committee Member of PICES (North Pacific Marine Science Organization) POC (Physical Oceanography and Climate) 2001-; co-chair of POC, 2006-

Editor, *Journal of Oceanography*, 2001-2011

Editorial Board, *Fisheries Oceanography*, 2005-

Scientific Committee Member for evaluation of Japan Fisheries Research Agency, 2002-2006

Committee Member for evaluation of Hydrographic and Oceanographic Department of Japan Coast Guard, 2004-2005

Committee Member, Hidaka Prize of the Oceanographic Society of Japan, 2004-2005; 2006-2007

Committee Member, Society Prizes of Japanese Society of Fisheries Oceanography,

2005-2006 (Chair in 2006)

**Chief Scientist in the Research Cruise:**

March 1988, R/V Wakataka-maru; Off Sanriku area

May 1992, R/V Wakataka-maru, Kuroshio Extension regions

January-March 2006, R/V Hakuho-Maru (KH-06-1); Kuroshio Extension regions

May 2007, R/V Tansei-Maru (KT-07-9); Off Boso area, Kuroshio Extension

May 2008, R/V Tansei-Maru (KT-08-7); Off Boso area, Kuroshio Extension

Aug-Spt 2009, R/V Hakuho-Maru (KH-09-4); Aleutian and Bering Sea

Feb-Mar 2011, R/V Hakuho-Maru (KH-11-3); Kuroshio and Kuroshio Extension

**D.Sc. Student Supervision:**

1. Katsurou Katsumata, 2001, *Parameterization of tide-topography interaction at straits and application to water exchange between the Sea of Okhotsk and the North Pacific*, Present position: Senior Researcher, Japan Agency for Marine-Earth Science and Technology.
2. Hiromichi Ueno, 2003, *Distribution and formation of the meso-thermal structure (temperature inversions) in the North Pacific subarctic region*, Present position: Assistant Professor, Hokkaido University.
3. Hiroaki Tatebe, 2003, *Numerical studies on the Oyashio southward intrusion and associated cross-gyre transport*, Present position: Researcher, Japan Agency for Marine-Earth Science and Technology.
4. Shinya Kouketsu, 2004, *Frontal waves and salinity minimum formation along the Kuroshio Extension*, Present position: Researcher, Japan Agency for Marine-Earth Science and Technology.
5. Emiri Takeuchi, 2006, *Studies on the wintertime shoaling of oceanic surface mixed layer*, Present position: Insurance Accountant assistant, Ace-Insurance Company, Japan
6. Masachika Masujima, 2007, *Formation and Distribution of North Pacific Intermediate Water in the Subarctic Frontal Zone*, Present position: Researcher at Fisheries Research Agency, Japan
7. Satoshi Osafune, 2009, *Water-mass variability in the subarctic North Pacific in relation to*

*18.6-year period nodal tidal cycle.* Present position: Post-doctoral Researcher, Atmosphere and Ocean Research Institute, The University of Tokyo.

8. Haruka Nishikawa 2010, *Studies on the environmental impacts on long -term variation in abundance of Japanese sardine (Sardinops melanostictus)* Present position: Post-doctoral Researcher, Japan Agency for Marine-Earth Science and Technology.

### **Refreed Articles**

- 1) I. Yasuda, J.-H. Yoon and N. Suginoara, 1985: Dynamics of the Kuroshio Large Meander.-Barotropic Model-, J. Oceanogra. Soc. Jpn, 48, 259-273
- 2) J.-H. Yoon and I. Yasuda, 1987: Dynamics of the Kuroshio Large Meander : Two-layer model, J. Phys. Oceanogr., 17, 66-81
- 3) I. Yasuda, K. Okuda and M. Hirai, 1992: Evolution of a Kuroshio Warm-Core Ring.- Variability of the Hydrographic Structure, Deep-Sea Res., 39(Suppl.), S131-S161
- 4) J.-I. Yano and I. Yasuda, 1992: Note on the isolated vortices over the topographic- $\beta$ , J. Oceanogr., 48, 231-237
- 5) 高杉知,安田一郎, 1993:岩手県沿岸域における親潮水と津軽暖流水とで形成される親潮前線の 100m 深指標水温,水産海洋研究,57,333-344
- 6) I. Yasuda and Y. Watanabe, 1994: On the relationship between the Oyashio front and saury fishing grounds in the north-western Pacific,Fish. Oceanogr.,3, 172-181
- 7) 高杉知,安田一郎, 1994:岩手県沿岸域及び東北近海域における親潮水の変動,水産海洋研究,58,253-259
- 8) I. Yasuda and G.R. Flierl, 1995: Two dimensional asymmetric vortex merger: Contour dynamics experiment., J. Oceanogr., 51, 145-170
- 9) I. Yasuda, 1995: Geostrophic vortex merger and streamer development in the ocean with special reference to the merger of Kuroshio warm-core rings, J. Phys. Oceanogr., 25, 979-996
- 10) I. Yasuda and D. Kitagawa, 1996: Locations of early fishing grounds of saury in the North-western Pacific, Fish. Oceanogr.,5, 63-69
- 11) I. Yasuda, K. Okuda and Y. Shimizu, 1996: Distribution and modification of the North Pacific Intermediate Water in the Kuroshio-Oyashio Interfrontal zone., J. Phys. Oceanogr., 26,

- 12) I. Yasuda, 1997: The origin of the North Pacific Intermediate Water, *J. Geophys. Res.*, 102(C1), 893-909
- 13) I. Yasuda and G.R. Flierl, 1997: Two dimensional asymmetric vortex merger: merger dynamics and critical merger distance, *Dyn. Atmos. Oceans*, 26, 159-181
- 14) T. Ono, I. Yasuda, H. Narita and S. Tsunogai, 1998: Chemical alternation of waters in the Kuroshio-Oyashio interfrontal zone. *J. Oceanogr.*, 54, 681-694.
- 15) I. Yasuda, H. Sugisaki, Y. Watanabe, S. Minobe and Y. Oozeki, 1999: Interdecadal variations in Japanese sardine and ocean/climate. *Fish. Oceanogr.*, 8, 18-24.
- 16) M. Noto and I. Yasuda, 1999: Population decline of the Japanese sardine with relation to the sea-surface temperature in the Kuroshio Extension. *Can. J. Fish. Aqua. Sci.*, 56, 973-983.
- 17) K. Katsumata and I. Yasuda, 1999: Water exchange between the Okhotsk Sea and the North Pacific Ocean estimated by simple models. *PICES Scientific Report: Okhotsk Sea and adjacent areas.*, No. 12.
- 18) Y. You, N. Suginoara, M. Fukasawa, I. Yasuda, I. Kaneko, H. Yoritaka and M. Kawamiya, 2000: Roles of the Okhotsk Sea and Gulf of Alaska in forming the North Pacific Intermediate Water. *J. Geophys. Res.*, 105(C2), 3253-3280.
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- 20) H. Ueno and I. Yasuda, 2000: Distribution and formation of the mesothermal structures (temperature inversions) in the North Pacific Subarctic Regions. *J. Geophys. Res.*, 105 (C7), 16885-16898.
- 21) I. Yasuda, T. Tozuka, M. Noto and S. Kouketsu 2000: Heat balance and regime shifts of the mixed layer in the Kuroshio Extension. *Progress in Oceanogr.*, 47, 257-278.
- 22) K. Katsumata, I. Yasuda, and Y. Kawasaki, 2001, Direct current measurements in Krusensterna Strait in summer. *Geophys. Res. Letters*, 28, 319-322.
- 23) K. Okuda, I. Yasuda, Y. Hiroe and Y. Shimizu, 2001, Structure of subsurface intrusion of the Oyashio water into the Kuroshio Extension and formation process of the North Pacific

- Intermediate Water. *J. Oceanogr.*, 57, 121-140.
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- 27) Tatebe, and I. Yasuda, 2001, Seasonal axis migration of the upstream Kuroshio Extension associated with standing oscillations. *J. Geophys. Res.*, 106(C8), 16685-16692.
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- 29) H. Ueno and I. Yasuda, 2001, Warm and saline water transport to the North Pacific Subarctic region: WOCE and SAGE data analysis. *Journal of Geophysical Research* 106(C10), 22131-22141.
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- 35) I. Yasuda, 2003: Hydrographic structure and variability of the Kuroshio-Oyashio Transition Area. *Journal of Oceanography*, 59, 389-402.
- 36) T. Ono, K. Sasaki and I. Yasuda, 2003: Re-estimation of annual anthropogenic carbon input from Oyashio into North Pacific Intermediate Water. *Journal of Oceanography*, 59, 883-891.
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- 39) E. Takeuchi and I. Yasuda, 2003, Wintertime shoaling of oceanic surface mixed layer. *Geophysical Research Letters*, 30(22),art-no.-2152,NOV21,2003
- 40) I. Yasuda, 2004: North Pacific Intermediate Water: Progress in SAGE and related projects. *Journal of Oceanography*, 60(2), 385-396.
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- 49) S. Kouketsu, I. Yasuda and Y. Hiroe, 2005: Observation of frontal waves and associated salinity minimum formation along the Kuroshio Extension. *J. Geophys. Res.* 110, C08011, doi:10.1029/2004JC002862
- 50) H. Tatebe and I. Yasuda, 2005: Numerical experiments on the seasonal variation of the Oyashio southward intrusion. *J. Phys. Oceanogr.* 35, 2309-2326.
- 51) H. Ueno and I. Yasuda, 2005: Temperature inversions in the North Pacific subarctic region. *J. Phys. Oceanogr.* 35, 2444-2456.
- 52) H. Tokinaga, Y. Tanimoto, M. Nonaka, B. Taguchi, T. Fukamachi, S.-P. Xie, H. Nakamura, T. Watanabe and I. Yasuda (2006): Atmospheric sounding over the winter Kuroshio Extension: Effect of surface stability on atmospheric boundary layer structure. *Geophys. Res. Letters*, 33, L04703, doi:10.1029/2005GL025102.
- 53) I. Yasuda, S. Osafune and H. Tatebe, 2006: Possible explanation linking 18.6-year period nodal tidal cycle with bi-decadal variations of ocean and climate in the North Pacific. *Geophys. Res. Letters*, 33, L08606, doi:10.1029/2005GL025237.
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- and associated salinity minimum formation along the Kuroshio Extension. *J. Phys. Oceanogr.*, 37, 644-656.
- 56) I. Yasuda and T. Watanabe, 2007: Chlorophyll a variation in the Kuroshio Extension revealed with a mixed layer tracking float: implication on long-term change of Pacific saury. *Fish. Oceanogr.*, 16(5), 482-488.
- 57) H. Hasumi, I. Yasuda and H. Tatebe, M. Kimoto 2008: Pacific bidecadal variability regulated by tidal mixing around the Kuril Islands. *Geophysical Research Letters*, 35, L14601, doi:10.1029/2008GL034406,2008
- 58) H. Nishikawa and I. Yasuda, 2008: Variation of Japanese sardine (*Sardinops melanostictus*) mortality in relation to the winter mixed layer in the Kuroshio Extension. *Fish. Oceanogr.* 17(5), 411-420.
- 59) S. Kouketsu and I. Yasuda, 2008: Unstable frontal waves along the Kuroshio Extension with low-potential vorticity intermediate Oyashio water. *J. Phys. Oceanogr.* 38, 2308-2321. DOI:10.1175/2008JPO3814.1
- 60) I. Yasuda, I. (2009), The 18.6-year period moon-tidal cycle in Pacific Decadal Oscillation reconstructed from tree-rings in western North America, *Geophys. Res. Lett.*, 36, L05605, doi:10.1029/2008GL036880.
- 61) Itoh, S., I. Yasuda, H. Nishikawa, H. Sasaki and Y. Sasai (2009), Transport and environmental temperature variability of eggs and larvae of the Japanese anchovy (*Engraulis japonicus*) and Japanese sardine (*Sardinops melanostictus*) in the western North Pacific estimated via numerical particle tracking experiments. *Fish. Oceanogr.*, 18(2), 118-133.
- 62) K. Tadokoro, T. Ono, I. Yasuda, S. Osafune, A. Shiimoto and H. Sugisaki, 2009: Possible mechanisms of decadal scale variations in PO<sub>4</sub> concentration in the Oyashio and Kuroshio-Oyashio Transition waters, western North Pacific. *GEOPHYSICAL RESEARCH LETTERS* Volume: 36 *Geophys. Res. Letters* 36,L08606, doi:10.1029/2009GL037327, 2009
- 63) M. Masujima and I. Yasuda, 2009: Distribution and modification of North Pacific Intermediate Water around the Subarctic frontal zone east of 150E. *J. Phys. Oceanogr.*,39, 1462-1474.
- 64) YUGO SHIMIZU, KAZUTAKA TAKAHASHI, SHIN-ICHI ITO, SHIGEHO KAKEHI,

- HIROAKI TATEBE, ICHIRO YASUDA, AKIRA KUSAKA, TOMOHARU NAKAYAMA, Transport of subarctic large copepods from the Oyashio area to the mixed water region by Oyashio intrusions. *Fish. Oceanogr.* 18(5), 312-327, 2009
- 65) S. Osafune, and I. Yasuda, 2010: Bidecadal variability in the Bering Sea and the relation with 18.6 year period nodal tidal cycle. *J. Geophys. Res.*, 115, DOI: 10.1029/2008JC005110.
- 66) H. Tatebe, I. Yasuda, H. Saito and Y. Shimizu, 2010: Horizontal transport of the calanoid copepod *Neocalanus* in the North Pacific: The influences of the current system and the life history. *Deep-Sea Res. I*, 57, 409-419.
- 67) K. Katsumata and I. Yasuda, 2010, Estimate of non-tidal exchange transport between the Sea of Okhotsk and the North Pacific. *J. Oceanogr.*, 66, 489-504.
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