

CURRICULUM VITAE

Norihiko Sugimoto (Ph.D. in Science)

PERSONAL INFORMATION

Date of Birth: May 24, 1977

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EDUCATIONAL BACKGROUND

Ph.D. in Science, Department of Geophysics, Graduate School of Science, Kyoto University, 2005

M.A. in Science, Department of Geophysics, Graduate School of Science, Kyoto University, 2002

B.A. in Science, Department of Physics, Faculty of Science, Kyoto University, 2000

PROFESSIONAL EXPERIENCES

2008-present, Lecturer, Department of Physics, Keio University

2008-present, Visiting Researcher, Ocean Research Institute, The University of Tokyo

2005-2008, Postdoctoral Fellow, Graduate School of Engineering, Nagoya University

TEACHING ACTIVITIES

2007-2008, Docent, Faculty of Community Business, Aichi Toho University

2006-2008, Docent, Department of Physics, Daido Institute of Technology

2004-2005, Research Assistant, Graduate School of Science, Kyoto University

2003-2004, Teaching Assistant, Graduate School of Science, Kyoto University

SOCIETY MEMBERSHIPS

2008-present, Japan Society for Fluid Mechanics

2000-present, Meteorological Society of Japan

GRANTS

2007-present, Grant-in-Aid for the Global Environment Research Fund of the Ministry of the
Environment, Japan, "Assessment of climate models using self-organizing map"

2007-present, Grant-in-Aid for Young Scientist (B) from Japan Society for the Promotion of Sciences,
"Gravity wave radiation from jet stream"

July 25, 2008 (Date of CV)

LIST OF PUBLICATION

ARTICLES (with peer review)

- [1] Froude Number Dependence of Gravity Wave Radiation From Unsteady Rotational Flow in f -plane Shallow Water System, Norihiko Sugimoto, Keiichi Ishioka, and Shigeo Yoden, *Theoretical and Applied Mechanics Japan*, Vol. 54, (2005), p299-304.
- [2] Balance regimes for the stability of a jet in an f -plane shallow water system, Norihiko Sugimoto, Keiichi Ishioka, and Shigeo Yoden, *Fluid Dynamics Research*, Vol. 39, No. 5, (2007), p353-377.
- [3] Gravity wave radiation from unsteady rotational flow in an f -plane shallow water system, Norihiko Sugimoto, Keiichi Ishioka, and Shigeo Yoden, *Fluid Dynamics Research*, Vol. 39, No. 11-12, (2007), p731-754.
- [4] Source models of gravity waves in an f -plane shallow water system, Norihiko Sugimoto, Keiichi Ishioka, and Katsuya Ishii, *Proceedings of International Symposium on Frontiers of Computational Science 2005*, Yukio Kaneda, Hiroshi Kawamura, and Masaki Sasai (Eds.), Springer-Verlag, (2007), p221-225.
- [5] Parameter Sweep Experiments on Spontaneous Gravity Wave Radiation From Unsteady Rotational Flow in an F -plane Shallow Water System, Norihiko Sugimoto, Keiichi Ishioka, and Katsuya Ishii, *Journal of the Atmospheric Sciences*, Vol. 65, No. 1, (2008), p234-249.
- [6] 2D Numerical simulation of slow flow past circular cylinders, Norihiko Sugimoto, Hiroaki Hashiya, and Katsuya Ishii, *Theoretical and Applied Mechanics Japan*, Vol. 56, (2008), p273-283.
- [7] A First Attempt to Apply High Speed Spherical Self-organizing Map to Huge Climate Datasets, Norihiko Sugimoto and Kanta Tachibana, *SOLA (Science Online Letters on the Atmosphere)*, Vol. 4, (2008), p41-44.

ARTICLES TO BE APPEARED (with peer review)

- [8] High speed non-empirical tropical cyclone identification method in huge climatology data, Norihiko Sugimoto, Tuan Minh Pham, Kanta Tachibana, Tomohiro Yoshikawa, and Takeshi Furuhashi, *Proceedings of 1st International Summit on Hurricanes and Climate Change*, in press.
- [9] Application of high speed spherical self-organizing map to climate research, Norihiko Sugimoto, Kanta Tachibana, Hideo Shiogama, and Toru Nozawa, *Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on Advanced Intelligent Systems*, in press.
- [10] High speed method of detecting vortex without empirical conditions - Application to risk-assessment of tropical cyclone -, Norihiko Sugimoto, Tuan Minh Pham, Kanta Tachibana, Tomohiro Yoshikawa, and Takeshi Furuhashi, *Theoretical and Applied Mechanics Japan*, submitted.
- [11] Spontaneous Gravity Wave Radiation From Unsteady Jet Flows in a Shallow Water System on a Rotating Sphere, Norihiko Sugimoto and Katsuya Ishii, *Journal of the Atmospheric Sciences*, in preparation.

July 25, 2008 (Date of CV)