Norihiko Sugimoto

Associate Professor

Keio University, Hiyoshi 4-1-1, Kouhoku-ku, Yokohama, 223-8521, Japan

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Education:

2002-2005	D.Sc	Department of Geophysics, Kyoto University, Japan
2000-2002	M.Sc	Department of Geophysics, Kyoto University, Japan
1996-2000	B.Sc	Department of Physics, Kyoto University, Japan

Employment:

Apr. 2015- Present: **Associate Professor** at Keio University, Japan.

I study on geophysical fluid dynamics. I work on developing numerical model and data assimilation system for the Venus atmosphere to investigate general circulation and disturbances of the Venus atmosphere.

Apr. 2014- Mar. 2016: **Visiting Researcher** at Ecole Polytechnique, Laboratoire de Meteorologie Dynamique, France.

Apr. 2008- Mar. 2015: **Lecturer** at Keio University, Japan.

Apr. 2005- Mar. 2008: **COE Researcher** at Nagoya University, Japan.

Apr. 2004- Mar. 2005: **Researcher Assistant** (part-time basis) at Kyoto University, Japan.

Publication record and selected publications:

Overall 30 refereed publications (H-index 9), and more than 100 international and domestic conference contributions (oral presentations and posters) in the field of planetary sciences, geophysical fluid dynamics, and meteorology.

- **Impact of data assimilation on thermal tides in the case of Venus Express wind observation,** Norihiko Sugimoto, Toru Kouyama, and Masahiro Takagi, *Geophysical Research Letters*, Vol.46, (2019), p4573–4580.
- **Fully developed super-rotation driven by the mean meridional circulation in a Venus GCM,** Norihiko Sugimoto, Masahiro Takagi, and Yoshihisa Matsuda, *Geophysical Research Letters*, Vol.46, (2019), p1776–1784.
- **Planetary-scale streak structure reproduced in high-resolution simulations of the Venus atmosphere with a low-stability layer,** Hiroki Kashimura, Norihiko Sugimoto, Masahiro Takagi, Wataru Ohfuchi, Takeshi Enomoto, Kensuke Nakajima, Masaki Ishiwatari, Takao M. Sato, George L. Hashimoto, Takehiko Satoh, Yoshiyuki O. Takahashi, and Yoshi-Yuki Hayashi, *Nature Communications*, Vol. 10, (2019), 23, 11pp.
- **Development of an ensemble Kalman filter data assimilation system for the Venusian atmosphere,** Norihiko Sugimoto, Akira Yamazaki, Toru Kouyama, Hiroki Kashimura, Takeshi Enomoto, and Masahiro Takagi, *Scientific Reports*, Vol. 7, (2017), 9321, 9pp.
- **The puzzling Venusian polar atmospheric structure reproduced by a general circulation model,** Hiroki Ando, Norihiko Sugimoto, Masahiro Takagi, Hiroki Kashimura, Takeshi Imamura, and Yoshihisa Matsuda, *Nature Communications*, Vol. 7, (2016), 10398, 8pp.

25th, August, 2019 (Date of CV)