

Curriculum Vitae

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Name: Masaki N. NISHINO

Job title: Technical staff in BepiColombo Project

Date of birth: 27/Nov/1974

Nationality: Japanese

Languages: Japanese, English, Cantonese

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Interests

- (1) Optimization of scientific operations planning in BepiColombo mission
- (2) Plasma interaction with small heavenly bodies
- (3) Extreme behaviors of magnetospheres under extreme conditions

Educational background

B.C. The University of Tokyo

M.C. The University of Tokyo

D.C. The University of Tokyo

Ph.D. 2007, Dept of Earth and Planetary Science, The University of Tokyo

Professional experience

2007-2008

Researcher at The University of Tokyo

2008-Oct. 2010

Project researcher at JAXA, engaged in SELENE project

Oct, 2010-

Technical staff at JAXA, engaged in BepiColombo project

Reviewing

Annales Geophysicae, Earth Planets and Space, Geophysical Research Letters,
Icarus, Journal of Geophysical Research, Space Science Reviews

List of Publications

(as the first author)

- Masaki N. Nishino, Xiao-Dong Wang, Masaki Fujimoto, Hideo Tsunakawa,
Yoshifumi Saito, Shoichiro Yokota, Wei Bian, Chun-Lai Li, Hideo Tsunakawa,

Masaki Matsushima, Hidetoshi Shibuya, Hisayoshi Shimizu, Futoshi Takahashi, Toshio Terasawa (2011), Anomalous deformation of the Earth's bow shock in the lunar wake: Joint measurement by Chang'E-1 and SELENE, Planet. Space Sci., 10.1016/j.pss.2011.01.002.

- Masaki N. Nishino, Hiroshi Hasegawa, Masaki Fujimoto, Yoshifumi Saito, Toshifumi Mukai, Iannis Dandouras, Henri Reme, Alessandro Retino, Rumi Nakamura, Elizabeth Lucek, Steven J. Schwartz (2011), A case study of Kelvin-Helmholtz vortices on both flanks of the Earth's magnetotail, Planet. Space. Sci., doi:10.1016/j.pss.2010.03.011.
- Nishino, M. N., M. Fujimoto, Y. Saito, S. Yokota, Y. Kasahara, Y. Omura, Y. Goto, K. Hashimoto, A. Kumamoto, T. Ono, H. Tsunakawa, M. Matsushima, F. Takahashi, H. Shibuya, H. Shimizu and T. Terasawa (2010), Effect of the solar wind proton entry into the deepest lunar wake, Geophys. Res. Lett., 37, L12106, doi:10.1029/2010GL043948.
- Nishino, M. N., M. Fujimoto, K. Maezawa, Y. Saito, S. Yokota, K. Asamura, T. Tanaka, H. Tsunakawa, M. Matsushima, F. Takahashi, T. Terasawa, H. Shibuya, and H. Shimizu (2009), Solar-wind proton access deep into the near-Moon wake, Geophys. Res. Lett., 36, L16103, doi:10.1029/2009GL039444.
- Nishino, M. N., K. Maezawa, M. Fujimoto, Y. Saito, S. Yokota, K. Asamura, T. Tanaka, H. Tsunakawa, M. Matsushima, F. Takahashi, T. Terasawa, H. Shibuya, and H. Shimizu (2009), Pairwise energy gain-loss feature of solar wind protons in the near-Moon wake, Geophys. Res. Lett., 36, L12108, doi:10.1029/2009GL039049.
- Nishino, M. N., M. Fujimoto, T.-D. Phan, T. Mukai, Y. Saito, M. M. Kuznetsova, and L. Rastaetter (2008), Anomalous flow deflection at the low Alfvén Mach number bow shock, Phys. Rev. Lett., 101, 065003, doi:10.1103/PhysRevLett.101.065003.
- Nishino, M. N., M. Fujimoto, G. Ueno, K. Maezawa, T. Mukai, and Y. Saito (2007), Geotail observations of two-component protons in the midnight plasma sheet, Ann. Geophys., 25, 2229-2245.
- Nishino, M. N., M. Fujimoto, G. Ueno, T. Mukai, and Y. Saito (2007), Origin of temperature anisotropies in the cold plasma sheet: Geotail observations around the Kelvin-Helmholtz vortices, Ann. Geophys., 25, 2069-2086.
- Nishino, M. N., M. Fujimoto, T. Terasawa, G. Ueno, K. Maezawa, T. Mukai, and Y. Saito (2007), Temperature anisotropies of electrons and two-component protons in the dusk plasma sheet, Ann. Geophys., 25, 1417-1432.

- (corrigendum) Nishino, M. N., M. Fujimoto, T. Terasawa, G. Ueno, K. Maezawa, T. Mukai, and Y. Saito (2007), Corrigendum to "Geotail observations of temperature anisotropy of the two-component protons in the dusk plasma sheet" published in *Ann. Geophys.*, 25, 769-777, 2007, *Ann. Geophys.*, 25, 1233-1233.
- Nishino, M. N., M. Fujimoto, T. Terasawa, G. Ueno, K. Maezawa, T. Mukai, and Y. Saito (2007), Geotail observations of temperature anisotropy of the two-component protons in the dusk plasma sheet, *Ann. Geophys.*, 25, 769-777.
- Nishino, M. N., T. Terasawa, and M. Hoshino (2005), Geotail observations of the cold plasma sheet on the duskside magnetotail, *Frontiers of Magnetospheric Plasma Physics, Celebrating 10 Years of Geotail Operation, COSPAR Colloquia Series Volume 16*, p.28-33.
- Nishino, M. N., T. Terasawa, and M. Fujimoto (2002), Observational Signatures of Plasma Transport across the Low-Latitude Boundary Layer, *Earth's Low-Latitude Boundary Layer, Geophysical Monograph 133*, 10.1029/133GM26.
- Nishino, M. N., T. Terasawa, and M. Hoshino (2002), Increase of the tail plasma content during the northward interplanetary magnetic field intervals: Case studies, *Journal of Geophysical Research*, 107(A9), 10.1029/2002JA009268.

(as a coauthor)

- Hashimoto, K., M. Hashitani, Y. Kasahara, Y. Omura, M. N. Nishino, Y. Saito, S. Yokota, T. Ono, H. Tsunakawa, H. Shibuya, M. Matsushima, H. Shimizu, and F. Takahashi (2010), Electrostatic solitary waves associated with magnetic anomalies and wake boundary of the Moon observed by KAGUYA, *Geophys. Res. Lett.*, 37, L19204, doi:10.1029/2010GL044529.
- Harada, Y., S. Machida, Y. Saito, S. Yokota, K. Asamura, M. N. Nishino, T. Tanaka, H. Tsunakawa, H. Shibuya, F. Takahashi, M. Matsushima, and H. Shimizu (2010), Interaction between terrestrial plasma sheet electrons and the lunar surface: SELENE (Kaguya) observations, *Geophys. Res. Lett.*, 37, L19202, doi:10.1029/2010GL044574.
- Tanaka, T., Y. Saito, S. Yokota, K. Asamura, M. N. Nishino, H. Tsunakawa, H. Shibuya, M. Matsushima, H. Shimizu, F. Takahashi, M. Fujimoto, T. Mukai, and T. Terasawa (2009), First in situ observation of the Moon-originating ions in the Earth's Magnetosphere by MAP-PACE on SELENE (KAGUYA), *Geophys. Res. Lett.*, 36, L22106, doi:10.1029/2009GL040682.
- Seki, Y., M. N. Nishino, M. Fujimoto, Y. Miyashita, K. Keika, H. Hasegawa, K. Okabe, Y. Kasaba, T. Terasawa, T. I. Yamamoto, I. Shinohara, Y. Saito, and T.

Mukai (2009), Observations of loss cone-shaped back streaming energetic protons upstream of the Earth's bow shock, *J. Geophys. Res.*, 114, A11, doi:10.1029/2009JA014136.

- Yokota, S., Y. Saito, K. Asamura, T. Tanaka, M. N. Nishino, H. Tsunakawa, H. Shibuya, M. Matsushima, H. Shimizu, F. Takahashi, M. Fujimoto, T. Mukai, and T. Terasawa (2009), First direct detection of ions originating from the Moon by MAP-PACE IMA onboard SELENE (KAGUYA), *Geophys. Res. Lett.*, 36, L11201, doi:10.1029/2009GL038185.
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- Kasahara, S., H. Hasegawa, K. Keika, Y. Miyashita, M. N. Nishino, T. Sotirelis, Y. Saito, and T. Mukai (2008), Escape of high-energy oxygen ions through magnetopause reconnection under northward IMF, *Ann. Geophys.*, 26, 3955-3966.
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