February, 23. 2017

Daisuke Hotta

Scientific Officer
Numerical Prediction Division
Japan Meteorological Agency

Address: 1-3-4 Otemachi, Chiyoda-ku,
Tokyo, 100-8122, Japan
E-mail: hotta.daisuke@met.kishou.go.jp
Phone: +81-(0)3-3212-8341 ext. 3321
Fax: +81-(0)3-3284-0180

Education

2014 Ph.D. Applied Mathematics, Statistics and Scientific Computation
University of Maryland, College Park, MD, USA
Advisor: Eugenia Kalnay
Dissertation: "Proactive Quality Control based on Ensemble Forecast Sensitivity to Observations"

2013 M.S. Applied Mathematics, Statistics and Scientific Computation
University of Maryland, College Park, MD, USA
Advisor: Eugenia Kalnay
Thesis: "Semi-implicit modification to Lorenz *N*-cycle and its application to an Atmospheric General Circulation Model"

2006 M.S. Earth and Planetary Science
University of Tokyo, Tokyo, Japan
Advisor: Hisashi Nakamura
Thesis: "On the significance of sensible heat supply from the ocean in the maintenance of mean baroclinicity along storm tracks"

2004 B.S. Earth and Planetary Physics
University of Tokyo, Tokyo, Japan

Professional Experience

2014-present Scientific Officer
Numerical Prediction Division, Japan Meteorological Agency, Tokyo, Japan

2008-2011 Scientific Officer
Numerical Prediction Division, Japan Meteorological Agency, Tokyo, Japan

2006-2008 Technical Officer
Administration Division, Japan Meteorological Agency, Tokyo, Japan

Honors and Awards

2011-2014 Japanese Government Long-term Overseas Fellowship

Invited Presentations

April, 2013: 4th WGNE Workshop on Systematic Errors in Weather and Climate Models, MetOffice Headquarters, Exeter, UK (invited)

July, 2010: THORPEX Predictability and Dynamical Processes Working Group and WGNE Workshop ("Diagnosis of Model Errors"), ETH, Zurich, Zurich, Switzerland (invited only)

Key Publications

(Peer-reviewed journal article)

Hotta, D. and H. Nakamura, 2011: On the significance of sensible heat supply from the ocean in the maintenance of mean baroclinicity along storm tracks, *J. Climate*, **24** (13), 3377-3401. journal website

Hotta,D., E. Kalnay and P. Ullrich, 2016: A semi-implicit modification to the Lorenz N-Cycle scheme and its application for integration of meteorological equations, *Mon. Wea. Rev.*, **144(6)**, 2215-2233. journal website

(Other publications)

Hotta, D., E. Kalnay, Y. Ota and G.-Y. Lien, 2014: Proactive Quality Control in Data Assimilation, *JCSDA Quart. News Lett.*, **47**, 4-7. link to the article