Peng Yu

Present Position

Graduate Research Assistant
Center for Ocean－Atmospheric Prediction Studies
Florida State University
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Education

Ph.D. program in Physical Oceanography, Florida State University
August 1999-present, Tallahassee, Florida

M.S. in Physical Oceanography, Ocean University of China
June 1999, Qingdao, China

B.S. in Oceanography, Ocean University of China
June 1996, Qingdao, China

Positions Held

Research Assistant, Center for Ocean-Atmospheric Studies, Florida State University
August 1999－present

Research Assistant, Department of Oceanography, Ocean University of China
August 1996－June 1999

Research Interests

- Data assimilation
- Numerical modeling of ocean circulations
- Costal Oceanography
- Data analysis of remote sensing product and *in-situ* measurements

Publications

Yu, P., S. L. Morey, and J. Zavala-Hidalgo (2004), New mapping method to observe propagating features, *Sea Technology, 45(5),* 20-24

Yu, P., S. L. Morey, and J. J. O'Brien (2004), Development of a reduced space adjoint data assimilation technique for numerical simulation of oceanic circulation, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 34, Edited by J. Cote, pp. 08.21-08.22, World Meteorological Organization, Geneva, Switzerland

Yu, P., J. Zavala-Hidalgo, and J. J. O'Brien (2003), A new mapping method for satellite altimeter data, in *Research Activities in Atmospheric and Ocean Modeling*, Report No.33, Edited by J. Cote, pp. 08.18-08.19, World Meteorological Organization, Geneva, Switzerland

Zavala-Hidalgo, J., **P. Yu**, S. L. Morey, M. A. Bourassa, and J. J. O'Brien (2003), A new interpolation method for high frequency forcing fields, in *Research Activities in Atmospheric and Ocean Modeling*, Report No. 33, Edited by J. Cote, pp. 03.21-03.22, World Meteorological Organization, Geneva, Switzerland

Yu, P., J. Zavala-Hidalgo, S. L. Morey, and J. J. O'Brien (2003), A new mapping method for propagating data, *Oceans 2003 Extended Abstract*

Zavala-Hidalgo, J., M. A. Bourassa, S. L. Morey, J. J. O'Brien, and **P. Yu** (2003), A new temporal interpolation method for high-frequency vector wind fields, *Oceans 2003 Extended Abstract*

Yu, P. (1999), Study of the empirical mode decomposition and Hilbert spectrum and its application, *M.S. Thesis*

Zhang, S., **P., Yu** (1999), Application of Walsh spectrum onto nonlinear stochastic processes, *Transactions of Oceanology and Limnology*, 1999(2), 1-5

Presentations

Yu, P., J. Zavala-Hidalgo, S. L. Morey, and J. J. O'Brien, A new mapping method for propagating data, *MTS/IEEE Oceans 2003*, San Diego, CA

Zavala-Hidalgo, J., M. A. Bourassa, S. L. Morey, J. J. O'Brien, and **P. Yu**, A new temporal interpolation method for high-frequency vector wind fields, *MTS/IEEE Oceans 2003*, San Diego, CA

Yu, P., J. Zavala-Hidalgo, S. L. Morey, and J. J. O'Brien, New grid method for Topex/Poseidon data applied to the Gulf of Mexico, *The Oceanography Society-Oceanology International Americas Ocean Conference*, 2003, New Orleans, LA

Professional Organizations

American Geophysical Union

Honors and awards

Outstanding graduate student Awards, Ocean University of China, China, 1996－1997

President Fellowships, Ocean University of China, China, 1993－1996

Tiantai Fellowship (in recognition of excellent academic achievement), University of Qingdao, China, 1995

He Chongben Fellowships (in recognition of especially accomplished oceanography student), University of Qingdao, China, 1994, 1995

Other Activities

2002 Summer School on Inverse Methods & Data Assimilation, Oregon State University, Corvallis, OR, July 22-Aug. 2, 2002

NCAR Colloquium on Data Assimilation, Boulder, National Center for Atmospheric Research, CO, July 7-July 18, 2003

Computer Experience

Strong knowledge: Numerical Programming with Fortran (including OpenMP and MPI), Matlab, Unix, Linux, Windows, Adobe software, etc.

Others: IDL, C programming, HTML, etc.

Field Experience

NOAA Ship *Ka'imimoana*, Pacific Ocean, May-June, 2001

OUQD Ship *Dong Fang Hong*, East China Sea Hydrographic Survey, 1997

OUQD Ship *Dong Fang Hong*, East China Sea Hydrographic Survey, 1993