

Biographical Sketch (CV)

Dr. Xiao-Hai Yan, PI

Mary A. S. Lighthipe Chair Professor of Oceanography

Director of UD Center for Remote Sensing

University of Delaware, College of Earth, Ocean and Environment

Newark, Delaware 19716, U.S.A.

Phone: (302) 831-3694, Fax: (302) 831-1199, E-mail: xiaohai@udel.edu

Homepage: <http://www.ceoe.udel.edu/our-people/profiles/xiaohai>, Citizenship: U.S.A.

(a) Professional Preparation

B.S., Ocean Sciences, Tongji University, Shanghai, China, 1977

Ph.D., Satellite and Physical Oceanography, State University of New York, Stony Brook, NY, 1989

Post Doc., Scripps Institution of Oceanography, University of California, San Diego, CA, 1989

(b) Appointments

Academic Appointments

Assistant Professor, University of Delaware, 1990-1993

Associate Professor, University of Delaware, 1993-1995

Professor, University of Delaware, 1995-2004

Mary A. S. Lighthipe Chair Professor, University of Delaware, 2004-Present

Other Professional Appointments

Director, Center for Remote Sensing, University of Delaware, 2002-Present

Associate Director, NASA-Delaware Space Grant Program, 2005-Present

Co-Director, Center for Remote Sensing, University of Delaware, 1990-2001

(c) Products (* indicating corresponding author, selected from total of over 240 papers)

(i) Five publications most closely related to the proposed project

Hua Su, Linjin Huang & **Yan, X-H.***, 2018. "Retrieving ocean subsurface temperature using a satellite - based geographically weighted regression model" *J. of Geophys. Res - Oceans*.

DOI:10.1002/2018JC014246, 20.

Yan, X-H.*, T. Boyer, K. Trenberth, T. Karl, S-P. Xie, V. Nieves, K-K. Tung, and D. Roemmich, 2016. The global warming hiatus: Slowdown or redistribution? *Earth's Future*, doi:10.1002/2016ef000417.

Li, F., Y.-H. Jo, and **X.-H. Yan***, 2015: Climate signals in the mid to high latitude North Atlantic from altimeter observations, *J. Climate*, DOI: 10.1175/JCLI-D-12-00670.1.

Zhang, W. and **Yan, X-H.***, 2014: Lateral Heat Exchange after the Labrador Sea Deep Convection. *J. Physical Oceanography*, 44 (12): Pages 2991-3007

Yan, X.-H.*, Y.-H. Jo and W. T. Liu, 2006, A new study of the Mediterranean Outflow, air-sea interactions and Meddies using multi-sensor data, *J. of Physical Oceanogr.* 36(4), 691-710.

(ii) Five other significant publications

Liao, Enhui., **Yan, X.-H.***, Yuwu. Jiang*, and A. Kidwell, 2018, "New findings on the route of heat transport between the Indo-Pacific and Southern Ocean." *Climate Dynamics*: 1-7.

<https://doi.org/10.1007/s00382-018-4436-4>

Yan, X.-H.*, J. Pan, Y.-H. Jo, M.-X. He, W. Liu and L. Jiang, 2004, The Role of Winds on Estimation of Ocean Heat Storage Anomaly using Satellite Data, *J. Geophys. Res.* 109(C3):C03041 10.1029/2003JC002202

Yan, X.-H.*, Q. Zheng, Y. He, C. Ho and W.T. Liu, 1998, Centroid rotation of the western Pacific warm pool for the recent three El Nino events, *J. Physical Oceanogr.*, 27(5):837-846.

Yan, X.-H.*, P. Niiler, S. Nadiga, R. Stewart, and D. Cayan, 1995, Heat storage in the North Pacific: 1976-1989, *Journal of Geophysical Research*, in 100(C4):6899-6926.

Yan, X.-H.*, C.-R. Ho, Q. Zheng and V. Klemas, 1992, Temperature and size variabilities of the western Pacific warm pool, *Science*, 258(5088):1643- 1645.

(d) Synergistic Activities

1. Courses developed and taught:

Satellite Oceanography; Ocean&Atmosphere Remote Sensing; Principle of Applied Ocean Sciences; Oceanography Seminar; Remote Sensing Seminar, Special Problems in Oceanography, etc. 1990-2018

2. Education outreach:

Seminars and lectures to Coast Day, Space Day activities; Volunteer tutor at A. I. DuPont High School and Independence Middle School, DE, 1995-2017

3. Honors:

NASA Graduate Student Research Fellowship Award, NASA – 1988, 1989

National Presidential Faculty Fellow (PFF) Award, NSF - 1994

NASA Center for Excellence Award, NASA, 1997

"Science Spectrum Trailblazer" named by Science Spectrum Magazine, 2005-2012

4. Editorships:

Editor Board, *Nature Scientific Report*, 2016-Present

Editor Board, *Journal of Oceanic and Coastal Sea Research*, 2002-Present

Editor, *International Journal of Oceanography*, 2008-2017

Guest Editor, *Remote Sensing*, Special Issues "Observing the Ocean's Interior from Satellite Remote Sensing", 2012

Editor Board Member, *Remote Sensing*, 2013-2017

5. Science Teams/Panels:

US AMOC Science Team Member, 2009-2017

US CLIVAR SSC/POS Panel Member, 2012-2016

US CLIVAR/AGU Global Warming "Hiatus" Panel Chair, 2016