Abridged Curriculum Vitae for Dr. W. Timothy Liu

Education

- B.S., Summa Cum Laude, in Physics, Ohio University, Athens (1971)
- M.S. in Atmospheric Sciences, Univ. of Washington, Seattle (1974)
- PH. D. in Atmospheric Sciences, Univ. of Washington, Seattle (1978)

Jobs

- Principal Investigator in satellite oceanography since 1979
- Senior Research Scientist since 1993 (equivalent to full professor at major universities)
- Team Leader of Air-sea Interaction and Climate Team 1989-2005
- Project Scientist for 3 NASA Flight Projects 1992-2006
- NASA Ocean Vector Science Team Leader 2006-2008

Selected Honors and Awards

- Senior member of IEEE (top 8% of membership) 2013
- Distinguish Visiting Professor, U.S. Naval Postgraduate Scholl, 2012-present
- Fellow of American Geophysical Union 2011
- Verner E. Suomi Award, American Meteorological Society 2010
- Fellow of American Association for the Advancement of Science 2007
- Fellow of American Meteorological Society 2000
- Space System Award, American Institute of Aeronautics and Astronautics 2006
- Science Advisor, Hong Kong Observatory 2003-present
- Distinguished Science Award, Pan Oceanic Remote Sensing Association 2002
- NASA Exceptional Achievement Medal 1998
- NASA Medal for Exceptional Scientific Achievement 1990
- Honorary Guest Professorship at China Ocean University 1996

Current Professional Services

American Meteorological Society Ocean Research Award Committee
Group for High Resolution Sea Surface Temperature Science Team
ISPRS Commission VII, Chairman of Work Group on Ocean
JAXA GCOM-W Science Team
ISRO Oceansat-2 Science Team
ESA-EUMETSAT ASCAT Science Advisory Group
Interagency Atlantic Meridional Overturning Current Science Team
Pan-Oceanic Remote Sensing Conference Association, Executive Committee
United Kingdom Natural Environment Research Council-Centres of Excellence Steering Committee
Science Advisory Panel of SCIVO (INTECH)

Flux and Data related Activities

Joint Science Committee Task Force on Air-Sea Fluxes, 1993-1997. Co-chair
WCRP Surface Radiation Budget Science Working Group, 1989-1996
International WOCE Working Group on In Situ Measurement for Surface Fluxes, 1989-1990.
TOGA COARE Science Working Group, 1989-1992. Chairman of Air-Sea Fluxes Subgroup.
NASA Wetnet, 1988-1995.
Interagency Sea Surface Temperature Archiving Science Working Group, 1988-89.
WOCE Advisory Group for Model-based Air-sea Flux Estimates, 1988-1995.
JSC/CCCO Working Group on Air-Sea Fluxes, 1987-93.
WOCE/TOGA Working Group on Data Management 1985-1988.
WOCE Working Group on Atmosphere-ocean Exchanges, 1984-1988.
NASA Ocean Energy Fluxes Science Working Group 1984.

PUBLICATIONS

W. Timothy Liu has 303 publications, of which 166 (marked by *) are refereed journal articles and reviewed book chapters.

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*302 Wang, Y.-H. and W. T. Liu, 2015: Observational evidence of frontal-scale atmospheric response to Kuroshio Extension variability. J. Climate, in press

*301 M. Rodell, H.K. Beaudoing, T.S. L'Ecuyer, W.S. Olson, J.S. Famiglietti, P.R. Houser[6] R. Adler, M.G. Bosilovich, C.A. Clayson, D. Chambers, E. Clark, E.J. Fetzer[5], X. Gao, G. Gu, K. Hilburn, G.J. Huffman, D.P. Lettenmaier, W.T. Liu, F.R. Robertson, C.A. Schlosser, J. Sheffield, and E.F. Wood, 2015: The Observed State of the Water Cycle in the Early 21st Century. J. Climate, in press

300 Liu, W.T., W. Tang, and X. Xie, 2015: Measuring surface stress in tropical cyclones with scatterometer. Presented at Intergovernment Hurricane Conference in Jacksonville, March 2015. http://airsea.jpl.nasa.gov/publication/paper/Liu-IHC2015-Stress.pdf

299 Liu, W.T., and X. Xie, 2015: The classic problem of Indian Monsoon-what AMSR-2 can reveal. Presented at GCOM-W Principle Investigator Meeting, 1/14/2015, Tokyo http://airsea.jpl.nasa.gov/publication/paper/Liu-Xie-gcom2015.pdf

*298Liu, W.T., 2015: Surface wind and stress. Encyclopedia of Atmospheric Science (Second Edition),Gerald R. North, John Pyle and Fuqing Zhang (ed.), Elsevier, 138-144.

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*296 Li, F., Y.-H., Yan, X.-H., Liu, W. T., 2014. Climate signals in the mid to high latitude North Atlantic from altimeter observations. J. Climate, doi: e-view http://dx.doi.org/10.1175/JCLI-D-12-00670.1

295 Liu, W.T., and X. Xie, 2014: Ocean-atmosphere Coupling Over Mid-latitude Ocean Fronts Observed from Space. Key-note presentation. Proc. Eumetsat Conf., Geneva. 9pp. http://airsea.jpl.nasa.gov/publication/paper/Liu-Xie-Eumetsat.proc-2014.pdf

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*293 Liu, W.T., W. Tang, R. Pinker, X. Niu, 2014: Solar warming of south central Pacific. Int. J. Remote Sensing, DOI: 10.1080/01431161.2014.926426.

*292 Tang, W., W. T. Liu, B. Stiles and A. Fore, 2014, Detection of diurnal cycle of ocean surface wind from space-based observations, *International Journal of Remote Sensing*, DOI: 10.1080/01431161.2014.926413

*291 Liu, W.T., and X. Xie, 2014: Sea surface wind/stress vector.,Encyclopedia of Remote Sensing. E. Njoku (ed.), Springer-Verlag Berlin Heidelberg, 759-767. DOI: 10.1007/SpringerReference_327232.

*290 Liu, W.T. and X. Xie, 2014: Ocean-atmosphere water flux and evaporation, Encyclopedia of Remote Sensing. E. Njoku (ed.), Springer-Verlag Berlin, Heidelberg, 480-489. DOI: 10.1007/SpringerReference_327186.

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*287 Li, F., Y.-H. Jo, W.T.Liu, and X.-H. Yan: A dipole pattern of sea surface height anomaly in the North Atlantic:1990-2000s, Geophys. Res. Lett., 39, L15604, doi10.1029.2012GL052556.

*286 Liu, W. T., X. Xie, and K. B. Katsaros, 2012: Observation of oceanic origin of Sahel precipitation from space, Remote Sensing of Environment, 123, 593-599.

*285 Liu, W.T. and X. Xie, 2012: Offshore strong wind for electric power generation. "Wind Energy Conversion System: Technology and Trend", Chapter 15, 367-383, S.M. Muyeen (ed.), Springer Verlag, London.

284 Tang, W. and W.T. Liu: Relating ocean surface wind and rain. Proceeding of AMS

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

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