

Jui-Lin (Frank) Li, Ph.D. Scientist
Jet Propulsion Laboratory/Cal Tech, MS 183-601 , 4800 Oak Grove Drive, Pasadena, CA 91109
Phone: (o)818-393-5543; Email: jli@jpl.nasa.gov

EDUCATION

1994, Ph.D. , Atmospheric and Oceanic Sciences, University of Wisconsin-Madison
 1985, 1982, M.S. & B.S , Atmospheric Sciences, National Taiwan University, Taiwan

SCIENTIFIC EXPERTISE

Global climate modeling and model physical parameterizations, Model and data comparison

EMPLOYMENT

2006-present **Scientist, JPL/Caltech**
 2004-2006: Senior Scientific programmer, JPL/NASA, SkillStorm Inc.
 2000-2004: Senior Scientific programmer, NASA at GSFC, STG Inc.
 1994-2000: Research Associate, University of California, Los Angeles

AWARDS AND HONORS

2009: JPL Mariner Award; “cutting edge research” JPL Global Climate Change.
 2008: JPL Lump sum Award, **2008**;
 2007: Top-ten list of NASA Aura MLS Mission Research Awards;
 2006: JPL group award

PUBLICATIONS (2008 ~ present)

- **Year 2011 in Accepted or in press:**

Lee, Jeonghoon, J. Worden, D. Noone, J. Adkins, K. Bowman, A. Eldering, A. LeGrande, **Jui-Lin F. Li**, and G. Schmidt,
2011: Relating tropical ocean clouds to moist processes using water vapor isotope measurements, *Atmospheric Chemistry and Physics Discussions*, **accepted**.
Waliser, D, Jui-Lin F. Li, Tristan L'Ecuyer, **2010**: Radiative Impact of Precipitating Ice: An often ignored process in Global Climate Models, **submitted**.

- **Year 2010 in Accepted or in press:**

Chen, W.-T., A. Nenes, H. Liao, P. J. Adams, **J.-L. F. Li**, and J. H. Seinfeld, **2010**, Global Climate Response to Anthropogenic Aerosol Indirect Effects: Present Day and Year 2100, **JGR**, **in press**.
 Gettelman, A., and, **J.-L. F. Li**, **2010 et al**, Global Simulations of Ice nucleation and Ice 1 Supersaturation with an Improved Cloud Scheme in the Community Atmosphere Model, **JGR**, **accepted**.
 Jiang, X., D. E. Waliser, **J.-L. Li**, and C. P. Woods, **2010**: Vertical Cloud Water Structures of the Boreal Summer Intraseasonal Variability Based on CloudSat Observations. **Climate Dynamics**, **accepted**.
 Kubar, T. L., D. Waliser and **J-L F. Li**, **2010**: Boundary Layer and Cloud Structure Controls on Tropical Low Cloud Cover Using A-Train Satellite Data and ECMWF Analyses, **JGR**, **in press**.
 Ma, H. -Y, and, **J.-L. F. Li**, and F. De Sales, **2010**, Impact of land surface processes on the South American warm season climate, **accepted**.
 Wang, C-J, H-L Huang, **J-L F. Li**, T-M Leou, and T-J G. Chen, **2010**, An Evaluation on Skills of the CWB NFS Model in the Prediction of Warm-Season Rainfall over the East Asian Continent, **2010**, *Terres. Atmos. Oceanic Sciences (TAO)*, **accepted**.

- **2009:**

Couhert, A, T. Schneider, **J-L F Li**, **D. Waliser** and A.M. Tompkins, **2009**: The Maintenance of the Relative Humidity of the Subtropical Free Troposphere, *J. Climate*, DOI: 10.1175/2009JCLI2952.1.
 Jiang, X., **D.E. Waliser**, **J.-L. Li**, et al., **2009**, "Vertical Heating Structures Associated with the MJO as Characterized by TRMM Estimates, ECMWF Reanalyses and Forecasts: A Case Study during 1998-99 Winter", *J. Climate*, **22**, 6001-6022, doi:10.1175/2009JCLI3048.1.
Waliser, D.E., and **J.-L. Li** et al., **2009**, "Cloud ice: A climate model challenge with signs and expectations of progress," *J. Geophys. Res.* **114**, D00A21, doi:10.1029/2008JD010015.
 Woods, C.P., **D Waliser**, **J-L F. Li**, et al., **2009**, "Evaluating CloudSat Ice Water Retrievals Using a Cloud Resolving Model: Sensitivities to Frozen Particle Properties and Implications for Model-Data Comparisons", *JGR*, *J. Geophys. Res.*, doi:10.1029/2008JD009941, Oct 2008.
 Worden, J., Dylan B. A. Jones, 2 Jane Liu, 2 Mark Parrington, 2 Kevin Bowman, 1 Ivanka Stajner, 3 Reinhard Beer, 1 Jonathan Jiang, 1 Vale'rie Thouret, 4 Susan Kulawik, **Jui-Lin F. Li**, 1 Sunita Verma, 1 and Helen Worden 5., **2009**,

Observed Vertical Distribution of Tropospheric Ozone During the Asian Summertime Monsoon, *J. Geophys. Res.*, 114, D13304, doi:10.1029/2008JD010560.
Wu, D. L., and **J.-L. Li**, and **D. E. Waliser** et al., **2009**, Comparisons of Global Cloud Ice from MLS, CloudSat, and Correlative Data Sets, *J. Geophys. Res.*, doi:10.1029/2008JD009946.

- **2008:**

Li, J-L F, D. Waliser, et al., **2008**, Comparisons of Satellites Liquid Water Estimates to ECMWF and GMAO Analyses, 20th Century IPCC AR4 Climate Simulations, and GCM Simulations, *Geophys. Res. Lett.* Volume 35, doi 10.1029/2008GL035427.

Tao, Wei-Kuo, et al and **Jui-Lin Li**, et al., **2008**: A Multi-scale Modeling System: Developments, Applications and Critical Issues, *BAMS*, vol. 90, issue 4, p. 515.

Schwartz, M.J. et al., and **J.-L.F. Li**, et al. **2008**, "Validation of the Aura Microwave Limb Sounder Temperature and Geopotential Height Measurements," *J. Geophys. Res.* 113, D15S11, doi:10.1029/2007JD008783.

Woods, C., D. E. Waliser, **J.-L. F. Li**, et al. (**2008**), Evaluating CloudSat ice water content retrievals using a cloud resolving model: Sensitivities to frozen particle properties, *J. Geophys. Res.*, doi:10.1029/2008JD009941, Oct 2008.