

Jui-Lin (Frank) Li, Ph.D.
Visiting Professor at Atmospheric Science, NTU
JIFRESSE at UCLA, Project Scientist

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

Dr. Jui-Lin (Frank) Li is a Visiting Professor in the Department of Atmospheric Sciences at the National Taiwan University. His principal research interests include regional mesoscale modeling and global atmosphere–ocean–land–cryosphere system modeling, as well as climate dynamics and climate projection, with particular emphasis on hydrometeor–radiation interactions. Recent publications by Li et al. (see the publication list below) have demonstrated that the radiative effects of precipitating ice (snow) are excluded in many conventional global climate models (GCMs), including those participating in CMIP5 and CMIP6. Dr. Li and his team have identified systematic biases in cloud ice, total cloud fraction, and surface radiative forcing, as well as their impacts on air–sea interactions, land processes, and sea-ice simulations in CMIP5 and CMIP6 climate models.

AWARDS AND HONORS

2021: JPL Voyager Award; (recognition of accomplishments to Earth Science Division, JPL)
2021: NASA award ROSES20 MAP (2021-2025)
2016: JPL Discover award; (outstanding scientist in the year; Earth Science Division)
2012: IPCC Team Award; (outstanding scientist in the year; Earth Science Division)
2012: NASA award ROSES12 CCST; ROSES12 NDOA
2009: JPL Mariner Award; (outstanding scientist in the year; Earth Science Division)
2009: “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

PROFESSIONAL EXPERIENCES

3/1/26-current National Taiwan University, Atmospheric Science, Visiting Professor
9/13/12–current JIFRESSE at UCLA, Project Scientist
2006-2025 JPL/CalTech, Research Scientist
2004-2006: Senior Scientific programmer, JPL/NASA
2000-2004: Senior Scientific programmer, DAO/GMAO/GSFC/NASA
1994-2000: PostDoc at UCLA (Supervisor: A. Arakawa)

Publications

LIST OF PUBLICATIONS

Year-2026:

1. **Li, J.-L.F.**, Wei-Liang Lee, Kuan-Man Xu, J. H. Jiang, Yi-Hui Wan, Yu-Cian Tsai, S-P Ho, Qing Yue, Graeme Stephens, Jia-Yuh Yu, Huiwen Chuang (2026): Evaluation of upper tropospheric geopotential height anomalies over the tropical and subtropical oceans in CMIP6 models using GNSS radio occultation, **GRL**, submitted, [10.1088/2515-7620/adc976](https://doi.org/10.1088/2515-7620/adc976)
2. **Li, J.-L. F.**, Lee, W.-L., Xu, K.-M., Jiang, J. H., Wang, Y.-H., Tsai, Y.-C., et al. (2026). Attributing upper-tropospheric warm biases in CMIP6 models to ice cloud-radiation interaction deficiencies over tropical oceans. *Geophysical Research Letters*, 53, e2025GL120130. <https://doi.org/10.1029/2025GL120130>
3. **Li, J.-L. F.**, Pei Chun Hsu, Y.-C Liang, Shu-peng Ben Ho, Arctic Sea Ice Decline, Ocean Circulation Changes, and Mid-Latitude Extreme Weather (2026): Mechanisms, Evidence, and Uncertainties, *Journal of Taiwan Vacuum Society*.
4. **Li, J.-L. F.**, Wei-Liang Lee, Kuan-Man Xu, Yu-Cian Tsai, Yi-Hui Wang, Jia-Yuh Yu, J-P Chen, J. H. Jiang, Huiwen Chuang, S.-P. Ho, Influence of Frozen Hydrometeor–Radiation Interactions on Moisture Biases in CMIP6 Models over the Tropical and Subtropical Pacific, *ERL*, **Submitted**.

Year-2025:

1. **Li, J.-L.F.**, K.-M. Xu, W.-L. Lee, J.H. Jiang, G. Stephens, J.-Y. Yu, G.V. Cesana, and M. Kelley, 2025: Evaluation of upper tropospheric geopotential height anomalies over the tropical and subtropical oceans in CMIP6 models using GNSS radio occultation observations. *Environ. Res. Commun.*, 7, no. 4, 045017, doi:10.1088/2515-7620/adc976.

Year-2024:

1. **Li, J-L F.**, Li-Chiao Wang, Yu-Cian Tsai, Yu-Sung Huang, Wei-Liang Lee, Jonathan H. Jiang, Ou Wang, Jia-Yuh Y^u, Graeme Stephens, Tzu-Yun Liu, Exploring the Relationship Between Upper Ocean States and the Falling Ice Radiative Effects using ECCO Product and Global Climate Models, *Environ. Research Communication*, **Vol 6, Number 12**. DOI 10.1088/2515-7620/ad9c1d.
2. **Li, J.-L. F.**, Xu, K.-M., Jiang, J. H., Lee, W.-L., Yu, J.-Y., Chern, J.-d., et al. (2024). Investigating the “too bright” issue pertaining to non-PBL clouds over the South Pacific trade-wind region in CMIP6 global climate models. *Geophysical Research Letters*, 51, e2024GL112006. <https://doi.org/10.1029/2024GL112006>.
3. Jesse Kisembe, **J-L F. Li**, Yixin Wen, Wei-Liang Lee, Weikang Qian, Zhi Li, and Jonathan H. Jiang, **2024**, Assessing the Impacts of Falling Ice Radiative Effects on the Seasonal Variation of Land Surface Properties, *Journal of Geophysical Research: Atmospheres*, 129, e2024JD040991. <https://doi.org/10.1029/2024JD040991>.

Year-2023:

1. **Li, J.-L. F.**, Wei-Liang Lee, Kuan-man Xu, et al. Radiatively Active Hydrometeors Frequencies from CloudSat-CALIPSO Data for Evaluating Cloud Fraction in Global

Climate Models. *Journal of Geophysical Research: Atmospheres*,
DOI: 10.1029/2023JD038511

2. **Li, J.-L. F.**, Xu, K.-M., Lee, W.-L., Jiang, J. H., Tsai, Y.-C., Yu, J.-Y., et al. (2023). Warm clouds biases in CMIP6 models linked to indirect effects of falling ice-radiation interactions over the tropical and subtropical Pacific. *Geophysical Research Letters*, 50, e2023GL104990. <https://doi.org/10.1029/2023GL104990>
3. **Li, J.-L. F.**, Xu, K.-M., Tsai, Y.-C., Lee, W.-L., Jiang, J. H., Yu, J.-Y., et al. (2023). Evaluation of radiatively active frozen hydrometeors mass in CMIP6 global climate models using CloudSat-CALIPSO observations. *Journal of Geophysical Research: Atmospheres*, 128, e2023JD039200. <https://doi.org/10.1029/2023JD039200>
4. Yu-Cian Tsai, **J.-L. F. Li**, Kuan-Man Xu, Wei-Liang Lee, J. H. Jiang, Eric Fetzer, Jia-Yuh Yu., (2023), Possible linkage of sea surface height anomaly, surface wind stress and sea surface temperature with the falling ice radiative effects under a gradual warming scenario, *Environ. Res. Commun.* **5** 085004 **DOI** 10.1088/2515-7620/acee4c.
5. Lin Yu-Shen, Li-Chiao Wang, **J-L F. Li**, (2023) Effects of equatorial ocean current bias on simulated El Niño pattern in CMIP6 models" to *Geophysical Research Letters*, <https://doi.org/10.1029/2023GL102890>.
6. **Li, J.-L. F.**, Gregory V Cesana, Kuan-Man Xu, Mark Richardson, Hanii Takahashi, J. Jiang, (2023), Comparisons of Simulated Radiation, Surface Wind Stress and SST Fields over Tropical Pacific by the GISS CMIP6 Versions of Global Climate Models with Observations, *Environ. Res. Commun.* **5** 015005. **DOI** 10.1088/2515-7620/aca9ab.

Year-2022:

1. **Li, J-L F.**, Yu-Cian Tsai, Kuan-Man Xu, Wei-Liang Lee, Jonathan H. Jiang, Jia-Yuh Yu, Eric J. Fetzer, Graeme Stephens, (2022), Inferring the Linkage of Sea Surface Height Anomalies, Surface Wind Stress and Sea Surface Temperature with the Falling Ice Radiative Effects Using Satellite Data and Global Climate Models, *Environ. Res. Commun.* <https://doi.org/10.1088/2515-7620/aca3fe>.
2. **Li, J.-L. F.**, Kuan-Man Xu, Wei-Liang Lee, J H Jiang, Yu-Cian Tsai, Eric Fetzer, Graeme Stephens, Yi-Hui Wang and Jia-Yuh Yu, (2022), Comparing Surface Wind Stress and Sea Surface Temperature Biases over the Tropical and Subtropical Oceans in Subsets of CMIP6 Models Categorized by Frozen Hydrometeors-Radiation Interactions, *Environ. Res. Commun.*, <https://doi.org/10.1088/2515-7620/ac70ac>.
3. **Li, J.-L. F.**, co-authors, (2022), Exploring Radiation Biases over the Tropical and Subtropical Oceans Based on Treatments of Frozen Hydrometeor Radiative Properties in CMIP6 Models, *JGR*, <https://doi.org/10.1029/2021JD035976>
4. Zhi Li, Guoqiang Tang, Pierre Kirstetter, Shang Gao, **J.-L.F. Li**, Yixin Wen, Yang Hong, Evaluation of GPM IMERG and its constellations in extreme events over the conterminous united states, *Journal of Hydrology*, Volume 606, 2022, 127357, ISSN 0022-1694, <https://doi.org/10.1016/j.jhydrol.2021.127357>.
5. **Li, J.-L. F.**, and co-authors, (2022), Observational Evaluation of Global Climate Model Simulations of Arctic Sea Ice Pertaining to the Radiative Effects of Frozen Hydrometeors, *Environ. Res. Commun.* Volume 4, Number 2, **4** 025008.

Year-2021:

1. Wang, Li-Chiao, **J.-L. F. Li**, Kuan-Man Xu, Lan Thi Dao, Wei-Liang Lee, J. H. Jiang, Eric Fetzer, Yi-Hui Wang, Jia-Yuh Yu, Chao-An Chen, 2021: The Potential Influence of Falling Ice Radiative Effects on Central-Pacific El Niño Variability under Progressive Global Warming, *ERL*, Vol. 16, 12, **16** 124062. DOI:10.1088/1748-9326/ac3d56,
2. **Li, J.-L. F.**, K.-M. Xu, Wei-Liang Lee, J. H. Jiang, Eric Fetzer, Graeme Stephens, Jia-Yuh Yu, and Yi-Hui Wang, 2021: Changes of south-central Pacific large-scale environment associated with hydrometeors-radiation-circulation interactions in a coupled GCM. *J. Geophys. Res.*, DOI:10.1029/2021JD034973.
3. **Li, J.-L.**, F., K.-M. Xu, W.-L. Lee, J. H. Jiang, E. Fetzer, J.-Y. Yu, Y.-H. Wang, G. Stephens and L.-C. Wang, 2021: Linking global land surface temperature projections to radiative effects of hydrometeors under a global warming scenario. *Environ. Res. Lett.*, 16, 084044. <https://doi.org/10.1088/1748-9326/ac153c>.
4. **Li, J.-L. F.**, K.-M. Xu, M. Richardson, J. H. Jiang, G. Stephens, W.-L. Lee, Y.-H. Wang, E. Fetzer, J.-Y. Yu, and F.-J. Wang, 2021: Improved ice content, radiation, precipitation and low-level circulation over the Tropical Pacific Ocean from ECMWF ERA-Interim to ERA5. *Environ. Res. Comm.*, <https://doi.org/10.1088/2515-7620/ac1bfe>.
5. **Li, Jui-Lin F.**, Kuan-Man Xu, Wei-Liang Lee, Jonathan Jiang, Yi-Hui Wang, Eric Fetzer, Jia-Yuh Yu, and Li-Chiao Wang, 2021: Comparisons of radiation-circulation coupling over the tropical and subtropical ocean between AMIP6 and CMIP6, TAO, DOI: [10.3319/TAO.2020.09.17.01](https://doi.org/10.3319/TAO.2020.09.17.01).
6. **Li, Jui-Lin**; Wei-Liang Lee; Kuan-Man Xu; Jonathan Jiang; Eric Fetzer; Chao-An Chen; P.-C. Hsu; H-H Hsu; Jia-Yuh Yu; Yi-Hui Wang, 2021, Impacts of Falling Ice Radiative Effects on Projections of Southern Ocean Sea Ice Change under Global Warming, TAO, DOI: 10.3319/TAO.2020.10.15.01.

Year-2020:

7. **Li, Jui-Lin F** Xu, Kuan-Man; Richardson, Mark; Lee, Wei-Liang; Jiang, Jonathan; Yu, Jia-Yuh; Wang, Yi-Hui; Fetzer, Eric; Wang, Li-Chiao; Stephens, Graeme; Liang, Hsin-Chien, 2020, Annual and Seasonal Mean Tropical and Subtropical Precipitation Bias in CMIP5 and CMIP6 Models, Oct 2020, *Environ. Res. Lett.* **15** 124068, DOI: [10.1088/1748-9326/abc7dd](https://doi.org/10.1088/1748-9326/abc7dd)
8. **Li, Jui-Lin F.**, Wei-Liang Lee, Kuan-Man Xu, Jonathan Jiang, Eric Fetzer, Chao-An Chen, Yi-Hui Wang, Jia-Yuh Yu, Pei-Chun Hsu, and Huang-Hsiung Hsu, 2020: The Role of Falling Ice Radiative Effects on Climate Projections over Arctic under Global Warming, TAO, DOI: [10.3319/TAO..2020.04.29.01](https://doi.org/10.3319/TAO..2020.04.29.01)
9. **Li, J.-L. F.**, K-M Xu, J. H. Jiang, Wei-Liang Lee, Li-Chiao Wang, Jia-Yuh Yu, Graeme Stephens, Eric Fetzer, Yi-Hui Wang, 2020: An Overview of CMIP5 and CMIP6 Simulated Cloud Ice, Radiation Fields, Surface Wind Stress, Sea Surface Temperatures and Precipitation over Tropical and Subtropical Oceans, *J. Geophys. Res.*, <https://doi.org/10.1029/2020JD032848>.
10. Chen, Yi-Chun; **Li, Jui-Lin F.**; Lee, Wei-Liang; Diner, David; Garay, Michael; Jiang, Jonathan; Wang, Yi-Hui; Yu, Jia-Yuh; Kalashnikova, Olga, Evaluation of sea salt

aerosols in climate systems: global climate modeling and observation-based analyses, Feb 2020, ERL, <https://iopscience.iop.org/article/10.1088/1748-9326/ab751c>

Year-2019

11. **Li, J.-L. F.**, Richardson, M., Lee, W.-L., Hong, Y., Jiang, J., Fetzer, E., Stephens, G., Wang, Y.-H., Yu, J.-Y., and Liu, Y., **2019**, Potential faster Arctic sea ice retreat triggered by snowflakes' greenhouse effect, The Cryosphere Discuss., <https://doi.org/10.5194/tc-13-969-2019>.
12. Graeme L Stephens, Mathew Christensen, Timothy Andrews, James Haywood, Florent F. Malavelle, Kentaro Suzuki, Mathew Lebsock and **Jui-Lin F. Li**, 2019, Cloud Physics from Space, QJRMS, <https://doi.org/10.1002/qj.3589>.
13. Lee, W.-L., **Jui-Lin Frank Li**, K-M Xu, E Suhas, J.H. Jiang, Y-H Wang, Graeme Stephens, Eric Fetzer, Jia-Yuh Yu, 2019, Relating Precipitating Ice Radiative Effects to Surface Energy Balance and Temperature Biases over the Tibetan Plateau in Winter, JGR, DOI: [10.1029/2018JD030204](https://doi.org/10.1029/2018JD030204)
14. Fadnavis, Suvarna, Rolf Müller, Gayatri Kalita, Matthew Rowlinson, Alexandru Rap, **Jui-Lin Frank Li**, Blaž Gasparini, and Anton Laakso, 2019, The impact of recent changes in Asian anthropogenic emissions of SO₂ on sulfate loading in the upper troposphere and lower stratosphere and the associated radiative changes, Atmos. Chem. Phys., 19, 9989–10008, 2019, <https://doi.org/10.5194/acp-19-9989-2019>.
15. Lee, Wei-Liang, Kuo-Nan Liou, Chia-chi Wang, Yu Gu, Huang-Hsiung Hsu, **Jui-Lin F. Li**, Impact of 3-D Radiation-Topography Interactions on Surface Temperature and Energy Budget over the Tibetan Plateau in Winter, 2019, JGR-atmos, <https://doi.org/10.1029/2018JD029592>.
16. Gregory Cesana; Duane E Waliser; Tristan S L'Ecuyer; Xianan Jiang; **J.-L. F Li**, (2019), The Vertical Structure of Radiative Heating Rates: A Multimodel Evaluation Using A-Train Satellite Observations, Journal of Climate, <https://doi.org/10.1175/JCLI-D-17-0136.1>

Year-2018

17. **Li, J.-L.F.**, Seungwon Lee, Hsi-Yen Ma, G. Stephens, and Bin Guan, (2018), Assessment of the Cloud Liquid Water from Climate Models and Reanalyses using Satellite Observations, Terrestrial Atmospheric and Oceanic Sciences, TAO, DOI: [10.3319/TAO.2018.07.04.01](https://doi.org/10.3319/TAO.2018.07.04.01).
18. **Li, J.-L. F.**, E. Suhas, Wei-Liang Lee, Mark Richardson, Yi-Hui Wang, Jia-Yuh Yu, Tong Lee, Eric Fetzer, Graeme Stephens (2018), The Impacts of Bias in Cloud-Radiation-Dynamics Interactions on Central-Pacific El Nino Simulations in Contemporary GCMs, ESS, DOI: [10.1002/2017EA000304](https://doi.org/10.1002/2017EA000304).
19. Chen, Chao-An, **J.-L. F. Li**, Mark Richardson, Wei-Liang Lee, Eric Fetzer, G. Stephens, Huang-Hsiung Hsu, Yi-Hui Wang, Jia-Yuh Yu (2018), Falling snow radiative effects enhance the global warming response of the Tropical Pacific atmosphere, JGR-atmos. <https://doi.org/10.1029/2018JD028655>.
20. Min Deng, Gerald G. Mace, Zhien Wang, **J.-L. F. Li**, and Yali Luo, (2018), Partitioning Ice Water Content from Retrievals and Its Application in Model Comparison, JAS, <https://doi.org/10.1175/JAS-D-17-0017.1>.

21. Shen, B-W, coauthors and **J-L Li**, **2018**, On the Predictability of Short-term Climate Simulations of African Easterly Waves within a Global Mesoscale Model: A View with a Generalized Lorenz Model, DOI: 10.13140/RG.2.2.15995.36648.
22. Shen, B-W, coauthors and **J-L Li**, **2018**, Reveal the Role of Butterfly Effects and Multiscale Processes in Predictability using Advanced Concurrent Visualization and Multiscale Analysis (PEEMD) Methods.,DOI: 10.13140/RG.2.2.26908.18561.

Year-2017

23. **Li, J.-L. F.**, Y. Hong, Wei-Liang Lee , Mark Richardson, Yi-Hui Wang, Jia-Yuh Yu, Tong Lee1, Eric Fetzer, Yinghui Liu, Graeme Stephens (**2017**), Improved simulation of Antarctic sea ice due to the radiative effects of falling snow, Environmental Research Letters 12(8) · August 2017 DOI: 10.1088/1748-9326/aa7a17.
24. Fadnavis, S., Kalita, G., Kumar, K. R., Gasparini, B., and **Li, J.-L. F.**: Potential impact of carbonaceous aerosol on the upper troposphere and lower stratosphere (UTLS) and precipitation during Asian summer monsoon in a global model simulation, Atmos. Chem. Phys., 17, 11637-11654, <https://doi.org/10.5194/acp-17-11637-2017>, (**2017**).
25. B. Shen, S. Cheung, Y. Wu, **J. F. Li** and D. Kao, "Parallel Implementation of the Ensemble Empirical Mode Decomposition and Its Application for Earth Science Data Analysis," in *Computing in Science & Engineering*, vol. 19, no. 5, pp. 49-57, 2017. doi: 10.1109/MCSE.2017.3421555.

Year-2016

26. **Li, J.-L. F.**, W.-L. Lee, D. Waliser, Y.-H. Wang, J.-Y. Yu, X. Jiang, T. L'Ecuyer, Y.-C. Chen, T. Kubar, E. Fetzer, et al. (**2016**), Considering the radiative effects of snow on tropical Pacific Ocean radiative heating profiles in contemporary GCMs using A-Train observations, *J. Geophys. Res. Atmos.*, 121, 1621–1636, doi:[10.1002/2015JD023587](https://doi.org/10.1002/2015JD023587).
27. **Li, J.-L. F.**, Wei-Liang Lee, Yi-Hui Wang, Mark Richardson, Jia-Yuh Yu, E. Suhas, Eric Fetzer, Min-Hui Lo, Qing Yue, (**2016**), Assessing the Radiative Impacts of Precipitating Clouds on Winter Surface Air Temperatures and Land Surface Properties in GCMs Using Observations, *J. Geophys. Res. Atmos.*, 121, 11,536–11,555, doi:[10.1002/2016JD025175](https://doi.org/10.1002/2016JD025175).
28. **Li, J.-L. F.**, Y.-H. Wang, T. Lee, D. Waliser, W.-L. Lee, J.-Y. Yu, Y.-C. Chen, E. Fetzer, and A. Hasson (**2016**), The impacts of precipitating cloud radiative effects on ocean surface evaporation, precipitation, and ocean salinity in coupled GCM simulations, *J. Geophys. Res. Atmos.*, 121, doi:10.1002/2016JD024911.
29. **Li, J.-L. F.**, W.-L. Lee, J.-Y. Yu, G. Hulley, E. Fetzer, Y.-C. Chen, and Y.-H. Wang (**2016**), The impacts of precipitating hydrometeors radiative effects on land surface temperature in contemporary GCMs using satellite observations, *J. Geophys. Res. Atmos.*, 120, doi:10.1002/2015JD023776.
30. **Li, J.-L. F.**, D. E. Waliser, G. Stephens, S. W. Lee, (**2016**), Characterizing and understanding cloud ice and radiation budgets in global climate models and reanalysis, *AMS monograph* Attribute to Late Professor Michio Yanai, DOI: <http://dx.doi.org/10.1175/AMSMONOGRAPHS-D-15-0007.1>.
31. Shen, B.-W., S. Cheung, **J.-L. F. Li**, and Y.-L. Wu, S. S. Shen, (**2016**): Multiscale Processes of Hurricane Sandy (2012) as Revealed by the Parallel Ensemble Empirical Mode Decomposition and Advanced Visualization Technology. *Advances in Adaptive Data Analysis*, Vol. 8, No. 2 (**2016**) 1650005 (22 pages). World Scientific Publishing Company. DOI: 10.1142/S2424922X16500054.
32. Hong, Yulan, Guosheng Liu, and **J.-L. F. Li**, (**2016**), Assessing the Radiative Effects of Global

Ice Clouds Based on CloudSat and CALIPSO Measurements,
DOI: <http://dx.doi.org/10.1175/JCLI-D-15-0799.1>.

Year-2015

33. Chern, J.-D., Tao, W.-K., Lang, S. E., Matsui, T., Li, **J.-L. F.**, Mohr, K. I., Skofronick-Jackson, G. M. and Peters-Lidard, C. D. (2015), Performance of the Goddard multiscale modeling framework with Goddard ice microphysical schemes. *J. Adv. Model. Earth Syst.*
doi:10.1002/2015MS000469.
34. **Li, J.-L. F.**, W.-L. Lee, Tong Lee, Eric Fetzer, Jia-Yuh Yu, (2016), The Impacts of Cloud Snow Radiative Effects on Pacific Oceans Surface Heat Fluxes, Surface Wind Stress, and Ocean Temperatures in Coupled GCM Simulations, *J. Geophys. Res. Atmos.*,
DOI: 10.1002/2014JD022538.
35. Cesana, G., D. E. Waliser, X. Jiang, and **J.-L. F. Li** (2015), Multi-model evaluation of cloud phase transition using satellite and reanalysis data, *J. Geophys. Res. Atmos.*, 120,
doi:10.1002/2014JD022932.
36. Shaoyue Qiu, Xiquan Dong, Baike Xi, **J.-L. F. Li**, (2015), Characterizing Arctic mixed-phase cloud structure and its relationship with humidity and temperature inversion using ARM NSA Observations, *JGR*, **DOI:** 10.1002/2014JD023022.
37. Stephens G., D. Obrien, P. J. Webster, P. Pilewski, S. Kato, **J.-L. F. Li**, 2015, The Albedo of Earth, *Reviews of Geophysics*, DOI: 10.1002/2014RG000449.
38. Wu, L-T and **J.-L.-F. Li** et al, (2015), An observationally-based evaluation of WRF regional climate simulations over the Central and Eastern Pacific, *JGR*, **DOI:** 10.1002/2015JD023561.

Year-2014

39. Zhang, Chengzhu, Minghuai Wang, Hugh Morrison, Richard C. J. Somerville, Kai Zhang, Xiaohong Liu, **J.-L. F. Li**, (2014), Investigating Ice Nucleation in Cirrus Clouds with an Aerosol-enabled Multi-scale Modeling Framework *JAMES*, **DOI:** 10.1002/2014MS000343.
40. **Li, J.-L. F.**, W.-L. Lee, D. E. Waliser, Justin P. Stachnik, Eric Fetzer, Sun Won, Qing Yue, (2014), Characterizing Tropical Pacific Water Vapor and Radiative Biases in CMIP5 GCMs: Observationally-Based Analyses and A Snow and Radiation Interaction Sensitivity Experiment, *J. Geophys. Res. Atmos.*, **DOI:** 10.1002/2014JD021924.
41. **Li, J.-L. F.**, R. M. Forbes, D. E. Waliser, G. Stephens, S. W. Lee, (2014), Characterizing the impacts of precipitating snow hydrometeors in the radiation using the ECMWF IFS global model, *J. Geophys. Res. Atmos.*, 119, doi:10.1002/2014JD021450.
42. **Li, J.-L. F.**, W.-L. Lee, D. E. Waliser, J. David Neelin, Justin P. Stachnik, Tong Lee, 2014, Cloud-Precipitation-Radiation-Dynamics Interaction in Global Climate Models: A Snow and Radiation Interaction Sensitivity Experiment, *J. Geophys. Res. Atmos.*,
DOI: 10.1002/2013JD021038.

Year-2013

43. **Li, J.-L. F.**, D. E. Waliser, G. Stephens, S. Lee, T. L'Ecuyer, S. Kato, N. Loeb, and H.-Y. Ma (2013), Characterizing and understanding radiation budget biases in CMIP3/CMIP5 GCMs, contemporary GCM, and reanalysis, *J. Geophys. Res. Atmos.*, 118, doi:10.1002/jgrd.50378.
44. Shen, Bo-Wen, Samson Chueng, **J.-L. F. Li**, 2013, Analyzing Tropical Waves using the Parallel Ensemble Empirical Model Decomposition (PEEMD) Method: Preliminary Results with Hurricane Sandy (2012), *ESTO Showcase 2013*.
45. Shen, B.-W., M. DeMaria, **J.-L. F. Li**, and S. Cheung (2013), Genesis of Hurricane Sandy (2012) simulated with a global mesoscale model, *Geophys. Res. Lett.*, 40, 4944–4950,
doi:10.1002/grl.50934.

46. Guan, B., D. E. Waliser, J.-L. F. Li, and A. da Silva (2013), Evaluating the impact of orbital sampling on satellite-climate model comparisons, *J. Geophys. Res.*, doi:10.1029/2012JD018590.
47. Lee, Tong, Duane E. Waliser, J.-L. F. Li, and Michelle M. Gierach, (2013), Evaluation of CMIP3 and CMIP5 Wind Stress Climatology Using Satellite Measurements and Atmospheric Reanalysis Products, *Journal of Climate*, *J. Climate*, **26**, 5810–5826. doi: <http://dx.doi.org/10.1175/JCLI-D-12-00591.1>.
48. Xian-Nan Jiang, Eric D. Maloney, J.-L. F. Li, and Duane E. Waliser, (2013), Simulations of the Eastern North Pacific Intraseasonal Variability in CMIP5 GCMs, *Journal Climate*, **26**, 3489–3510. doi: <http://dx.doi.org/10.1175/JCLI-D-12-00526.1>.

Year-2012

49. Ao, C. O., D. E. Waliser, S. K. Chan, J.-L. F. Li, B. Tian, F. Xie, and A. J. Mannucci (2012), Planetary boundary layer heights from GPS radio occultation refractivity and humidity profiles, *J. Geophys. Res.*, **117**, D16117, doi:10.1029/2012JD017598.
50. Stephens, G., J-L F. Li, et al: An update on Earth's energy balance in light of the latest global observations, 2012, *Nature Geos.*, DOI:10.1038.
51. Stephens, G., J-L F. Li, M Wild, CA Clayson, N Loeb, S Kato, T L'Ecuyer, PW Stackhouse, T Andrews, (2012), An update on Earth's energy balance in light of the latest global observations, *Nat Geosci*, **5**, 691-696 (2012).
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