

Jui-Lin (Frank) Li, Ph.D.
Project Scientist, JIFRESSE at UCLA

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 Research Scientist in Earth Science Division at JPL, and a Project Scientist in the JIFRESSE at UCLA. His principal research interests lie in regional meso-scale model and global atmosphere-ocean-land-cryosphere modeling, as well as in climate dynamics and climate projection, with emphasis on the hydrometeors-radiation interactions. Recent several publications from Li et al. (see publication lists bellowed) have reported that the radiative effect of precipitating ice (snow) is excluded in most of the conventional global climate models (GCMs) including CMIP5/CMIP6. Dr. Li and his team identified biases in cloud ice, total cloud fraction, and surface radiative forcing in CMIP5 and CMIP6 on air-sea interactions, land, sea ice simulated in CMIP5 and CMIP6 GCMs.

PROFESSIONAL EXPERIENCES

2006-present **Research Scientist JPL/CalTech**
2010-present **Project Scientist/JIFRESSE at UCLA**
2004-2006: Senior Scientific programmer, JPL/NASA
2000-2004: Senior Scientific programmer, DAO/GMAO/GSFC/NASA
1994-2000: PostDoc at UCLA (Supervisor: A. Arakawa)

AWARDS AND HONORS

2021: JPL Voyager Award; (recognition of accomplishments to Earth Science Division, JPL)
2021: NASA award ROSES20 MAP
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

Publications

LIST OF PUBLICATIONS

Year-2022:

1. **Li, J.-L. F.**, and co-authors, (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>.

2. **Li, J.-L. F.**, Kuan-Man Xu, Wei-Liang Lee, J. H. Jiang¹, Yu-Cian Tsai⁵, Eric Fetzer¹, Graeme Stephens, Yi-Hui Wang, Jia-Yuh Yu, (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>
3. **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.
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>.

Year-2021:

5. **Li, J.-L. F.**, W.-L. Lee, K.-M. Xu, J. H. Jiang, E. Fetzer, C.-A. Chen, P.-C. Hsu, H.-H. Hsu, J.-Y. Yu, and Y.-H. Wang, 2021b: Impacts of falling ice radiative effects on projections of Southern Ocean sea ice change under global warming. *Terr. Atmos. Ocean. Sci.*, 32, 113-131. doi: 10.3319/TAO.2020.10.15.01
6. **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>.
7. **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>.
8. **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.
9. 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,

Year-2020:

10. **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)
11. **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, 2020, 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.

12. **Li, Jui-Lin F.**, Kuan-Man Xu, Wei-Liang Lee, Jonathan Jiang, Yi-Hui Wang, Eric Fetzer, Jia-Yuh Yu, and Li-Chiao Wang, 2020: 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).
13. **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)
14. **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>.
15. 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

16. **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>.
17. Graeme L Stephens, Mathew Christensen, Timothy Andrews, James Haywood, Florent F. Malavelle, Kentaroh Suzuki, Mathew Lebsock and **Jui-Lin F. Li**, 2019, Cloud Physics from Space, *QJRMS*, <https://doi.org/10.1002/qj.3589>.
18. 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)
19. 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>.
20. 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>.
21. Gregory Cesana; Duane E Waliser; Tristan S L'Ecuyer; Xianan Jiang; **J.-L. F Li**, (2019), How Clouds Affect The Vertical Structure Of Radiative Heating Rates: A Multi-Model Evaluation Using A-Train Satellite Observations, *Journal of Climate*, <https://doi.org/10.1175/JCLI-D-17-0136.1>

Year-2018

22. **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.
23. **Li, J.-L. F.**, E. Suhas, Wei-Liang Lee , Mark Richardson, Yi-Hui Wang, Jia-Yuh Yu, Tong Lee1, 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.
24. 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>.
25. 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>.
26. 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.
27. 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

28. **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.
29. 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).
30. 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

31. **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.
32. **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.
33. **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.

34. **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.
35. **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>.
36. 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.
37. 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

38. 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.
39. **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.
40. 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.
41. 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.
42. 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.
43. 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

44. 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.
45. **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.
46. **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.

47. **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

48. **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**.
49. 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*.
50. 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**.
51. 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**.
52. 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>**.
53. 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

54. 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**.
55. 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**.
56. Stephens, G., **J-L F. Li**, M Wild, CA Clayson, N Loeb, S Kato, T L'Ecuyer, PW Stackhouse, T Andrews, The energy balance of the earth's climate system, *Nat Geosci* 5, 691-696.
57. Duane E. Waliser, Bin Guan, **Jui-Lin F. Li**, et al, (**2012**), Addendum to “Simulating cold season snowpack: Impacts of snow albedo and multi-layer snow physics”: Waliser, D., et al. (**2011**), *Climatic Change*, 109 (Suppl 1):S95–S117, **DOI 10.1007/s10584-011-0312-5**.
58. Kubar, Terence L., Duane E. Waliser, J.-L. Li, et al, **2012**: On the Annual Cycle, Variability, and Correlations of Oceanic Low-Topped Clouds with Large-Scale Circulation Using Aqua MODIS and ERA-Interim. *J. Climate*, **25**, 6152–6174. **doi: <http://dx.doi.org/10.1175/JCLI-D-11-00478.1>**
59. **Li, J.-L. F.**, D. E. Waliser, W.-T. Chen, B. Guan, T. Kubar, G. Stephens, H-Y Ma, D. Ming, L. Donner, C. Seman, and L. Horowitz, (**2012**), An observationally based evaluation of cloud ice water in CMIP3 and CMIP5 GCMs and contemporary reanalyses using contemporary satellite data, *J. Geophys. Res.*, **doi:10.1029/2012JD017640**.
60. Ma, H.-Y., M. Köhler, **J.-L. F. Li**, et al., (**2012**), Evaluation of an ice cloud parameterization based on a dynamical-microphysical lifetime concept using CloudSat observations and the ERA-Interim reanalysis, *J. Geophys. Res.*, 117, D05210, **doi:10.1029/2011JD016275**.
61. Song, Xiaoliang, Guang J. Zhang, **J.-L. F. Li**, **2012**: Evaluation of Microphysics

Parameterization for Convective Clouds in the NCAR Community Atmosphere Model CAM5. *J. Climate*, **25**, 8568–8590. doi: <http://dx.doi.org/10.1175/JCLI-D-11-00563.1>

Year-2011

62. Chen, W.-T., C. P. Woods, J.-L. F. Li, D. E. Waliser, J.-D. Chern, W.-K. Tao, J. H. Jiang, and A. M. Tompkins (2011), Partitioning CloudSat ice water content for comparison with upper tropospheric ice in global atmospheric models, *J. Geophys. Res.*, **116**, D19206, doi:[10.1029/2010JD015179](https://doi.org/10.1029/2010JD015179).
63. Lee, J., Worden, J., Noone, D., Bowman, K., Eldering, A., LeGrande, A., Li, J.-L. F., Schmidt, G., and Sodemann, H.: Relating tropical ocean clouds to moist processes using water vapor isotope measurements, *Atmos. Chem. Phys.*, **11**, 741-752, doi:10.5194/acp-11-741-2011, **2011**.
64. Kubar, Terence L., Duane E. Waliser, **J.-L. F. Li**, **2011**: Boundary Layer and Cloud Structure Controls on Tropical Low Cloud Cover Using A-Train Satellite Data and ECMWF Analyses, *J. Climate*, **24**, 194–215. doi: [10.1175/2010JCLI3702.1](https://doi.org/10.1175/2010JCLI3702.1).
65. **Li, J.-L. F.**, D. E. Waliser, and J. H. Jiang (2011), Correction to “Comparisons of satellites liquid water estimates to ECMWF and GMAO analyses, 20th century IPCC AR4 climate simulations, and GCM simulations”, *Geophys. Res. Lett.*, **38**, L24807, doi:[10.1029/2011GL049956](https://doi.org/10.1029/2011GL049956).
66. Teixeira, J, et al., and **J-L F. Li**, **2011**: Tropical and sub-tropical cloud transitions in weather and climate prediction models: the GCSS/WGNE Pacific Cross-section Intercomparison (GPCI), *J. Geophys. Res.*, doi: [10.1175/2011JCLI3672.1](https://doi.org/10.1175/2011JCLI3672.1).
67. Waliser, D. E., **J.-L. F. Li**, T. S. L'Ecuyer, and W.-T. Chen, **2011**: The impact of precipitating ice and snow on the radiation balance in global climate models, *Geophys. Res. Lett.*, **38**, L06802, doi:[10.1029/2010GL046478](https://doi.org/10.1029/2010GL046478).
68. Wang, C. C., H. L. Huang, **J.-L. F. Li**, T. M. Leou, and G. T. J. Chen, **2011**: An evaluation of the performance of the CWB NFS model for warm-season rainfall distribution and propagation over the East Asian continent, *Terr. Atmos. Ocean. Sci.*, **22**, 49-69, doi: [10.3319/TAO.2010.07.13.01\(A\)](https://doi.org/10.3319/TAO.2010.07.13.01(A))
69. H.-Y. Ma, C. R. Mechoso, Y. Xue, H. Xiao, C.-M. Wu, J.-L. Li, F. Sales, (2011), **Impact of land surface processes on the South American warm season climate**, *Climate Dynamics*, July 2011, Volume 37, Issue 1, pp 187-203
70. Jiang, X., D. E. Waliser, **J.-L. F. Li**, and C. P. Woods, **2011**: Vertical Cloud Water Structures of the Boreal Summer Intraseasonal Variability Based on CloudSat Observations and ERA-I, *Climate Dynamics*, DOI [10.1007/s00382-010-0853-8](https://doi.org/10.1007/s00382-010-0853-8).

Year-2010

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72. 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, *J. Geophys. Res.*, **115**, D12207, doi:[10.1029/2008JD011619](https://doi.org/10.1029/2008JD011619).
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Year-2009

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