

**PROFESSOR JIN-YI YU, Ph.D.**

Department of Earth System Science  
University of California, Irvine

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**EDUCATION**

Ph.D., 1993, Department of Atmospheric Sciences, University of Washington.

B.S., 1984, Department of Atmospheric Sciences, National Taiwan University.

**EMPLOYMENT**

2002 - present: Assistant Professor, Associate Professor, Full Professor, UC Irvine

1993 - 2002: Postdoc, Assistant Researcher, Associate Researcher, UC Los Angeles

**AWARD**

- 2006-2007: Outstanding Contributions Award to Undergraduate Education, School of Physical Science, University of California-Irvine.

**SOCIETY AND COMMITTEE SERVICE**

- Vice Chair, Department of Earth System Science, UC Irvine, 2006 - 2007.
- Member, US CLIVAR Working Group on ENSO Diversity, 2011- present.
- Panelist, DOE proposal review panels, 2009, 2010.
- Panelist, NOAA proposal review panel, 2013.
- Member, Cicerone Fellowship Committee, UC Irvine, 2010.
- Chair, Chinese-American Oceanic and Atmospheric Association-Southern California, 2009 - 2010.
- Invited Visiting Scientist, Germany National Research Center for Information Technologies, Germany, 1998.
- Proposal Reviewer, for National Science Foundation, NASA, Department of Energy, National Oceanic and Atmospheric Administration (NOAA) programs, and Hong Kong Research Grants Council.
- Expert Reviewer for the *IPCC (Intergovernmental Panel on Climate Change) Fourth Assessment Report, Climate Change*, 2005.

**EDITORIAL SERVICE**

- Editorial Board Member, *Journal of Systems Analysis Modelling Simulation*, Gordon and Breach Science Publisher, 2001-2003.
- Guest Editor, *Journal of System Analysis Modeling Simulation*, Special Issue on “*Environmental Modeling and Simulation*”, Volume 42, Number 2, 2002.
- Co-Editor, *Environmental Modeling and Simulation* (ISBN: 1-56555-181-8), Ed. Achim Sydow and Jin- Yi Yu, published by The Society For Computer Simulation International, 2000, 146pp.
- Co-Editor, *1999 International Conference on Mission Earth* (ISBN: 1-56555-162-1), published by The Society For Computer Simulation International, 1999, 122pp.
- Co-Editor, *1998 Conference on Mission Earth: Modeling and Simulation of the Earth System* (ISBN: 1-56555-139-7), published by The Society For Computer Simulation International, 1989, 116pp.
- Journal Article Reviewer, for *Nature*, *Journal of Atmospheric Sciences*, *Journal of Climate*, *Monthly Weather Review*, *Journal of Atmospheric Sciences*, *Geophysical Research Letters*, *Journal of Geophysical Research-Atmosphere*, *Journal of Geophysical Research-Ocean*, *Climate Dynamics*, *Hydrological Science Journal*, *International Journal of Climatology*, *Terrestrial Atmospheric and Oceanic Sciences*, *Advances in Atmospheric Sciences*, *Atmospheric Research*, *Global and Planetary Change*, *Annales Geophysicae*, *Theoretical and Applied Climatology*, *Meteorology and Atmospheric Physics*, *Progress in Oceanography*, *Asia-Pacific Journal of Atmospheric Sciences*, *Water Resources*

Research, Chinese Journal of Oceanology and Limnology, Dynamics of Atmospheres and Oceans, Environmental Research Letter, Ocean Dynamics, Journal of Ocean University of China.

### **SCIENTIFIC MEETING ORGANISED**

- 2015 Session Co-Chair, “Monitoring, Understanding and Forecasting of the 2014/15 and 2015 El Niño and the Record warming of the North Pacific Ocean”, AGU Annual Fall Meeting, San Francisco, California.
- 2015 Session Co-Chair, “Toward a better understanding of moist process feedbacks and their role in the climate system”, AGU Annual Fall Meeting, San Francisco, California.
- 2015 Session Co-Chair, “Climate Variability and Predictability”, International Geographic Union (IGU) Regional Conference, Moscow, Russia.
- 2014 Session Co-Chair, “Toward a better understanding of moist process feedbacks and their role in the climate system”, AGU Annual Fall Meeting, San Francisco, California.
- 2014 Session Co-Chair, “Advances in Data Assimilation and Forecast Systems for ocean-atmosphere variability”, AOGS 11th Annual Meeting, Sapporo, Japan.
- 2013 Session Co-Chair, “Grand challenges in moist process feedback in the climate system”, AGU Annual Fall Meeting, San Francisco, California.
- 2012 Session Co-Chair, “El Niño in a Changing Climate System: Observations, Theory, and Modeling”, AOGS – AGU (WPGM) Joint Assembly, Singapore.
- 2010 Session Chair, “El Niño: Recent Advances in Theory, Impact, Prediction, and Modeling”, AGU Western Pacific Geophysics Meeting, Taipei, Taiwan.
- 2010 Session Co-Chair, “Atmosphere-Land Interaction”, AGU Western Pacific Geophysics Meeting, Taipei, Taiwan.
- 2010 Session Co-Chair, “Climate Monitoring and Prediction”, COAA 5th International Conference on Atmosphere-Ocean Interaction, Taipei, Taiwan.
- 2009 Program Chair, COAA-SC Summer Workshop, California Institute of Technology, Pasadena, California.
- 2008 Program Chair, COAA-SC Summer Workshop, Irvine, California.
- 2008 Session Co-Chair, “ENSO and Global Change: Past, Present, and Future”, AGU Annual Fall Meeting, San Francisco, California.
- 2004 Session Chair, International Conference on Tropical Weather and Climate, Guangzhou, China.
- 2004 Session Chair, UCI Undergraduate Research Symposium, Session of Physical Science.
- 2000 Program Chair, International Conference on Environmental Modeling and Simulation, San Diego, California.
- 1999 Program Chair, The International Conference on Mission Earth, San Francisco, California.
- 1998 Program Chair, The 1998 Conference on Mission Earth: Modeling and Simulation of the Earth System, San Diego, California.

### **MENTORING**

#### **Visiting Scientist Sponsored**

- Lei Wang, Associate Professor, South China Sea Institute of Oceanography, to begin on March 2016.
- Tao Gao, Laboratory Director, Inner Mongolia Meteorological Institute of China, August 2014-January 2015
- Soon-Il An, Professor, Yosei University of Korea, July 2011-August 2012.
- Huang-Hsung Hsu, Professor, National Taiwan University, 2001.

#### **Postdoc and Researcher Advisee**

- Kewei Lyu, to begin on January 2016
- Houk Paek, 04/2013-now

- Jian Ma, 12/2013-11/2014, (now Eastern Scholar Chair Professor, Shanghai Ocean University, China).
- Seon-Tae Kim, 10/2009 – 08/2012 (now Research Fellow, APEC Climate Center, Korea).
- Shu-Ping Weng, 2001-2002, (now Associate Professor, National Taiwan Normal University).

#### **Graduate Student Advisee**

- Shih-Wei Fang, Earth System Science, 09/2015-now.
- Yu-Chiao Liang, Earth System Science, 09/2013-now.
- Yuhao Zou, Earth System Science, 09/2010-03/2015 (now Senior Analyst at Discovery Financial, LLC).
- Chengcheng Qian, Marine Technology, Ocean University of China, 08/2013-09/2014.
- Pei-Ken Kao, Visiting Graduate Student from National Taiwan University, 2012-2013.
- Hsun-Ying Kao, Ph.D., Earth System Science, 2005-2009, (now researcher at Earth & Space Research).
- Fengpeng Sun, Ph.D., Earth System Science, 2003-2008, (now Assistant Researcher at UCLA).
- Ying Teng, M.S., Atmospheric and Oceanic Sciences (UCLA), 2000-2001.
- Wei-Liang Lee, Ph.D., Atmospheric and Oceanic Sciences (UCLA), 2001-2002.

#### **Ph.D. committee member**

- Sungduk Yu, Earth System Science, UCI (in progress).
- Hrishikesh Arvind Chandanpurkar, Earth System Science, UCI (in progress).
- Pei-Yuan Hsieh, Earth System Science, UCI (in progress).
- Hongyin Yang, Earth System Science, UCI (in progress).
- Ashley Payne, Earth System Science, UCI (in progress).
- Colene Haffke (defense on 2/20/2015), Earth System Science, UCI.
- Hamed Ashouri (defense on 12/1/2014), Civil and Environmental Engineering, UCI.
- Staryl McCabe-Glynn (defense on 9/17/2014), Earth System Science, UCI.
- Yi-Hui Wang (defense on 5/20/2013), Earth System Science, UCI.
- Wei Mei (defense on 11/19/2012), Earth System Science, UCI.
- Mike Tosca (02/27/2012), Earth System Science, UCI.
- Minhui Lo (defense on 5/21/2010), Earth System Science, UCI.
- Wei-Liang Lee (defense on 02/29/2008), Atmospheric and Oceanic Sciences, UCLA.
- Gi-Hyeon Park (defense on 08/11/2006), Civil & Environmental Engineering, UCI.
- John Abatzoglou (defense on 07/14/2006), Earth System Science, UCI.
- Ingo Richter (defense on 03/07/2005), Atmospheric and Oceanic Sciences, UCLA.
- Chia-Chi Wang (defense on 12/09/2004), Earth System Science, UCI.

#### **Ph.D. candidate committee member**

- Andrea Thorstensen (12/5/2013), Civil and Environmental Engineering, UCI.
- Hrishikesh Arvind Chandanpurkar (6/7/2013), Earth System Science, UCI.
- Ashley Payne (9/7/2012), Earth System Science, UCI.
- Ali Mehran (9/7/2012), Civil and Environmental Engineering, UCI.
- Scott Sellars (5/30/2012), Civil and Environmental Engineering, UCI.
- Hao Liu (3/14/2012), Civil and Environmental Engineering, UCI.
- Hongyin Yang (3/2/2012), Earth System Science, UCI.
- Colene Haffke (9/6/2011), Earth System Science, UCI.
- Alys Thomas (5/9/2011), Earth System Science, UCI.
- Jung Choi (3/22/2010), Atmospheric Sciences, Yonsei University, Korea.
- Hamed Ashouri (12/3/2010), Civil and Environmental Engineering, UCI.
- Staryl McCabe-Glynn (11/23/2010), Earth System Science, UCI.
- Pei-Yuan Hsieh (07/23/2010), Earth System Science, UCI.
- Yi-Hui Wang (11/25/2009), Earth System Science, UCI.
- Wenjun Deng (08/27/2009), Physics, UCI.
- Wei Mei (05/29/2009), Earth System Science, UCI.
- Mike Tosca (02/26/2009), Earth System Science, UCI.

- Wei Chu (03/07/2008), Civil and Environmental science, UCI.
- Minhui Lo (06/06/2007), Earth System Science, UCI.
- Leas Necas (02/10/2006), Physics, UCI.
- Leah Ray Necas (07/28/2005), Earth System Science, UCI.
- Wei-Liang Lee (09/23/2004), Atmospheric and Oceanic Sciences, UCLA.
- Kristie Franz (09/10/2004), Civil & Environmental Engineering, UCI.
- Gi-hyeon Park (09/08/2004), Civil & Environmental Engineering, UCI.
- Yun Huang (03/17/2004), Computer Science, UCI.
- John Abatzoglou (03/15/2004), Earth System Science, UCI.
- Ingo Richter (03/09/2004), Atmospheric and Oceanic Sciences, UCLA.

### **Undergraduate Student Advisee**

- Andy K. Li, Earth System Science, UCI, 2015 winter, spring.
- William Tseng, Earth System Science, UCI, 2014 fall, winter, 2015 spring, summer.
- Daniel Yeo, Earth System Science, UCI, 2014 fall, winter, 2015 spring.
- Catherine N. Liu, Earth System Science, UCI, 2014 winter, spring.
- Jane Liu, Earth System Science, UCI, 2013 winter.
- Chuchun Chen, Atmospheric Sciences, National Taiwan University, 2014 summer.
- Chin-Chieh Chou, Atmospheric Sciences, National Taiwan University, 2014 summer.
- Alice Kim, Earth System Science, UCI, 2012 winter.
- Nancy Phu, Earth System Science, UCI, 2011 fall.
- Natasha Sekhon, Earth System Science, 2010 fall, winter, 2011 spring.
- Alexis Kim, Earth System Science, UCI, 2010 fall, winter, 2011 spring.
- Kevin Yuan, Earth System Science, UCI, 2010 spring.
- Matthew See, Earth System Science, UCI, 2010 winter.
- David Woo, Earth System Science, UCI, 2009 summer.
- Shu-Hao Yu, Computer Science, National Taiwan University, 2009 summer.
- Matt Janiga, Valparaiso University, NSF-funded UCI-REU Program, 2006 summer.
- Adam Brody, Earth System Science, undergraduate research, 2006 winter.
- Travor Martinez, Earth System Science, UCI-funded UROP Program, 2003-2004.

### **PUBLICATIONS**

- (2015) Fei, Z., W. Zhang, **J.-Y. Yu**, and Q.-L. Chen, 2015: A Possible Bias of Simulating the Post-2000 Changing ENSO, *Science Bulletin*, **60**, 1850-1857.
- (2015) Wey, H-W, M-H Lo, S-Y Lee, **J-Y Yu**, and H-H Hsu: Potential impacts of wintertime soil-moisture anomalies from agricultural irrigation at low latitudes on regional and global climates, *Geophysical Research Letters*, DOI: 10.1002/2015GL065883.
- (2015) **Yu, J-Y**, H. Paek, E. S. Saltzman, and T. Lee: The early-1990s change in ENSO-PSA-SAM relationships and its impact on Southern Hemisphere climate, *Journal of Climate* (Special Collection on Tropical-Polar Connections), DOI: 10.1175/JCLI-D-15-0335.1.
- (2015) Yu, B., X. Zhang, H. Lin, and **J-Y Yu**: Comparison of wintertime North American climate impacts associated with multiple ENSO indices, *Atmosphere-Ocean*, DOI:10.1080/07055900.2015.1079697.
- (2015) Liang, Y-C, **J-Y Yu\***, M-H Lo, and C. Wang: The Changing Influence of El Niño on the Great Plains Low-Level Jet, *Atmospheric Science Letters*, DOI: 10.1002/asl.590. (\*corresponding author)
- (2015) Paek, H., **J.-Y., Yu**, J.-W. Hwu, M.-M. Lu, and T. Gao: A Source of AGCM Bias in Simulating the Western Pacific Subtropical High: Different Sensitivities to the Two Types of ENSO, *Monthly Weather Review*, **143**, 2348-2362.
- (2015) Capotondi, A., A. T. Wittenberg, M. Newman, E. Di Lorenzo, **J.-Y. Yu**, P. Braconnot, J. Cole, B. Dewitte, B. Giese, E. Guilyardi, F.-F. Jin, K. Karnauskas, B. Kirtman, T. Lee, N. Schneider, Y. Xue,

- S.-W. Yeh: Understanding ENSO diversity, *Bulletin of the American Meteorological Society*, **96**, 921-938.
- (2015) **Yu, J.-Y.**, Xin Wang, Song Yang, and Houk Paek, 2015: The Changing El Niño Southern Oscillation, Book Chapter in *Climate Extremes: Patterns and Mechanisms*, Wang, S.-Y., Jin-Ho Yoon, Chris Funk, and R. R. Gillies (Ed.), AGU Monograph, Accepted.
  - (2015) **Yu, J.-Y.** and H. Paek: Precursors of ENSO beyond the tropical Pacific, *US CLIVAR Variations*, Winter 2015 Issue, **13**, No. 1, 15-20. **(Invited Article; reviewed by the editor)**
  - (2015) **Yu, J.-Y.**, P-K Kao, H Paek, H-H Hsu, C-W Hung, M-M Lu, S-I An: Linking Emergence of the Central-Pacific El Niño to the Atlantic Multi-decadal Oscillation, *Journal of Climate*, **28**, No. 2, 651-662, doi: 10.1175/JCLI-D-14-00347.1.
  - (2015) Wang, C., C. Deser, **J.-Y. Yu**, P. DiNezio, and A. Clement: El Niño and Southern Oscillation (ENSO): A Review, A Chapter for Springer Book: *Coral Reefs of the Eastern Pacific*, In Press.
  - (2015) Lin, C.-Y., **J.-Y. Yu**, and H.-H. Hsu: CMIP5 model simulations of the Pacific meridional mode and its connection to the two types of ENSO, *International journal of climatology*, DOI: 10.1002/joc.4130.
  - (2014) Sheffield, J., A. Barrett, D. Barrie, S. J. Camargo, E. K. M. Chang, B. Colle, D. N. Fernando, R. Fu, K. L. Geil, Q. Hu, X. Jiang, N. Johnson, K. B. Karnauskas, S. T. Kim, J. Kinter, S. Kumar, B. Langenbrunner, K. Lombardo, L. N. Long, E. Maloney, A. Mariotti, J. E. Meyerson, K. C. Mo, J. D. Neelin, S. Nigam, Z. Pan, T. Ren, A. Ruiz-Barradas, R. Seager, Y. L. Serra, A. Seth, D.-Z. Sun, J. M. Thibeault, J. C. Stroeve, C. Wang, S.-P. Xie, Z. Yang, L. Yin, **J.-Y. Yu**, T. Zhang, and M. Zhao: Regional climate processes and projections for North America: CMIP3/CMIP5 differences, attribution and outstanding issues. *NOAA Technical Report OAR CPO-2*, 47 pp. **(Peer reviewed)**
  - (2014) Qian, C., **J.-Y. Yu\***, G. Chen, 2014: Decadal Summer Drought Frequency in China: The increasing influence of the Atlantic Multi-decadal Oscillation, *Environmental Research Letters*, **9**, No. 12. (01 December 2014), 124004, doi:10.1088/1748-9326/9/12/124004. (\*corresponding author)
  - (2014) Zheng, Fei, X.-H. Fang, J.-Y. Yu, and J. Zhu: Asymmetry of the Bjerknes Positive Feedback between the Two Types of El Niño, *Geophysical Research Letters*, **41**, 7651-7657, doi:10.1002/2014GL062125.
  - (2014) Ma, T. and **J.-Y. Yu**: Paradox in South Asian summer monsoon circulation change: Lower tropospheric strengthening and upper tropospheric weakening, *Geophysical Research Letters*, DOI: 10.1002/2014GL059891.
  - (2014) Ma, T. and **J.-Y. Yu**: Linking centennial surface warming patterns in the equatorial Pacific to the relative strengths of the Walker and Hadley circulations, *Journal of Atmospheric Sciences*, **71**, 3454-3464, DOI: 10.1175/JAS-D-14-0028.1.
  - (2014) Qu, T. and **J.-Y. Yu**: Sea Surface Salinity Indices of El Niño Detected by Aquarius and Argo, *Journal of Oceanography*, **70**, 367-375, DOI 10.1007/s10872-014-0238-4.
  - (2014) Zou, Y., **J.-Y. Yu\***, T. Lee, M.-M. Lu, S. T. Kim: CMIP5 Model Simulations of the Impacts of the Two Types of El Niño on US Winter Temperature, *Journal of Geophysical Research*, DOI: 10.1002/2013JD021064. (\*corresponding author)
  - (2014) Liang, Y.-C., M.-H. Lo, and **J.-Y. Yu**: Asymmetric Responses of Land Hydroclimatology to Two Types of El Niño in the Mississippi River Basin, *Geophysical Research Letters*, DOI: 10.1002/2013GL058828.
  - (2014) Kim, S. T., W. Cai, F.-F. Jin, and **J.-Y. Yu**: ENSO Stability in Coupled Climate Models and its Association with Mean State, *Climate Dynamics*, doi: 10.1007/s00382-013-1833-6.
  - (2013) **Yu, J.-Y.** and B. S. Giese: ENSO diversity in observations, U.S. *CLIVAR Variations*, **Vol. 11**, No. 2, 1-5. **(Invited Article; reviewed by the editor)**
  - (2013) de Linage, C., H. Kim, J. Famiglietti and **J.-Y. Yu**: Impact of Pacific and Atlantic sea surface temperatures on interannual and decadal variations of GRACE land water storage in Tropical South America, *Journal of Geophysical Research*, **118**, 10,811-10,829, doi: 10.1002/jgrd.50820..
  - (2013) Capotondi, A., B Kirtman, A Wittenberg, M Newman, N Schneider, Y Xue, B Giese, P

- Braconnot, J Cole, B Dewitte, E Guilyardi, F-F Jin, T Lee, K Karnauskas, S-W Yeh, **J.-Y. Yu**: U.S. CLIVAR ENSO Diversity Workshop Report, U.S. CLIVAR: Climate Variability and Predictability, Report No. 2013-1, 23pp.
- (2013) Sheffield, J. and co-authors (**J.-Y. Yu**): North American Climate in CMIP5 Experiments. Part II: Evaluation of 20th Century Intra-Seasonal to Decadal Variability, *Journal of Climate*, **23**, 9247-9290.
  - (2013) **Yu, J.-Y.** and Y. Zou: The Enhanced Drying Effect of Central-Pacific El Niño on US Winter, *Environmental Research Letters*, **8**, doi:10.1088/1748-9326/8/1/014019.
  - (2013) Choi, J., S.-I. An, S.-W. Yeh, and **J.-Y. Yu**: ENSO-like and ENSO-induced Tropical Pacific Decadal Variability in CGCMs, *Journal of Climate*, **26**, 1485-1501. DOI: 10.1175/JCLI-D-12-00118.1.
  - (2013) **Yu., J.-Y.** and S. T. Kim: Identifying the Types of Major El Niño Events since 1870, *International Journal of Climatology*, **33**, 2105-2112. DOI: 10.1002/joc.3575.
  - (2012) **Yu., J.-Y.**, Y. Zou, S. T. Kim, and T. Lee: The Changing Impact of El Niño on US Winter Temperatures, *Geophysical Research Letters*, doi:10.1029/2012GL052483.
  - (2012) Kim, S. T. and **J.-Y. Yu\***: The Two Types of ENSO in CMIP5 Models, *Geophysical Research Letters*, **39**, L11704, doi:10.1029/2012GL052006. (\*corresponding author)
  - (2012) Kim, S. T., **J.-Y. Yu\***, A. Kumar, and H. Wang: Examination of the Two Types of ENSO in the NCEP CFS Model and Its Extratropical Associations, *Monthly Weather Review*, **140**, 1908-1923. (\*corresponding author)
  - (2012) Kim, S. T., **J.-Y. Yu**, and M.-M. Lu: Distinct Behaviors of Pacific and Indian Ocean Warm Pool Properties on Seasonal and Interannual Timescales, *Journal of Geophysical Research*, **117**, D05128, doi:10.1029/2011JD016557.
  - (2012) **Yu, J.-Y.**, M.-M. Lu, and S. T. Kim: A change in the relationship between tropical central Pacific SST variability and the extratropical atmosphere around 1990, *Environmental Research Letters*, **7**, doi:10.1088/1748-9326/7/3/034025.
  - (2011) **Yu, J.-Y.** and S. T. Kim: “Reversed spatial asymmetries between El Niño and La Niña and their linkage to decadal ENSO modulation in CMIP3 Models”, *Journal of Climate*, **24**, 5423-5434.
  - (2011) **Yu, J.-Y.** and S. T. Kim: Relationships between Extratropical Sea Level Pressure Variations and the Central-Pacific and Eastern-Pacific Types of ENSO. *Journal of Climate*, **24**, 708-720.
  - (2011) **Yu, J.-Y.**, H.-Y. Kao, T. Lee, and S. T. Kim: Subsurface Ocean Temperature Indices for Central-Pacific and Eastern-Pacific Types of El Niño and La Niña Events. *Theoretical and Applied Climatology*, **103**, 337-344, DOI: 10.1007/s00704-010-0307-6.
  - (2010) **Yu, J.-Y.**, Kao, H.-Y., and T. Lee: Subtropics-Related Interannual Sea Surface Temperature Variability in the Equatorial Central Pacific. *Journal of Climate*, **23**, 2869-2884.
  - (2010) **Yu, J.-Y.** and S. T. Kim: Identification of Central-Pacific and Eastern-Pacific Types of ENSO in CMIP3 Models, *Geophysical Research Letters*, L15705, doi:10.1029/2010GL044082.
  - (2010) **Yu, J.-Y.** and S. T. Kim, 2010: Three Evolution Patterns of Central-Pacific El Niño. *Geophysical Research Letters*, **37**, L08706, doi:10.1029/2010GL042810.
  - (2010) Weng, S.-P. and **J.-Y. Yu**: A CGCM study on the northward propagation of tropical intraseasonal oscillation over the Asian summer monsoon regions. *Journal of Terrestrial, Atmospheric and Oceanic Sciences*, **21**, 299-312.
  - (2010) Weng, S.-P. and **J.-Y. Yu**: Impacts of Pacific and Indian Ocean Coupling on Wintertime Tropical Intraseasonal Oscillation: A Basin-Coupling CGCM Study. *International Journal of Climatology*, **30**, 359-371.
  - (2009) **Yu, J.-Y.**, F. Sun, and H.-Y. Kao: Contributions of Indian Ocean and Monsoon Biases to the Excessive Biennial ENSO in CCSM3. *Journal of Climate*, **22**, 1850-1858
  - (2009) Kao, H.-Y. and **J.-Y. Yu**: Contrasting Eastern-Pacific and Central-Pacific types of ENSO, *Journal of Climate*, **22**, 615-632.
  - (2009) Sun, F. and **J.-Y. Yu**: A 10-15year Modulation Cycle of ENSO Intensity. *Journal of Climate*, **22**, 1718-1735.

- **(2008) Yu, J.-Y.:** Understanding El Niño Southern Oscillation and its interactions with the Indian Ocean and monsoon. Book chapter in *Recent Progress in Atmospheric Sciences with Applications to the Asia-Pacific Region*, Liou, K N and Chou, M D (Ed.), World Scientific Publishing, Singapore, 3-22.
- **(2007) Yu, J.-Y. and Matthew A. Janiga:** Changes in the In-Phase Relationship Between the Indian and Subsequent Australian Summer Monsoons During the Past Five Decades. *Annales Geophysicae*, **25**, 1929-1933.
- **(2007) Yu, J.-Y. and H.-Y. Kao:** Decadal Changes of ENSO Persistence Barrier in SST and Ocean Heat Content Indices: 1958-2001. *Journal of Geophysical Research*, **112**, D13106, doi:10.1029/2006JD007654.
- **(2006) Sun, F and J.-Y. Yu:** Impacts of Central America gap winds on the SST annual cycle in the Eastern Pacific warm pool. *Geophysical Research Letters*, **33**, L06710, doi:10.1029/2005GL024700.
- **(2005) Yu, J.-Y.:** Enhancement of ENSO's persistence barrier by biennial variability in a coupled atmosphere-ocean general circulation model. *Geophysical Research Letters*, **32**, L13707, doi:10.1029/2005GL023406.
- **(2004) Yu, J.-Y. and K. M. Lau:** Contrasting Indian Ocean SST variability with and without ENSO influence: A coupled ocean-atmosphere model study. *Meteorology and Atmospheric Physics*, DOI: 10.1007/s00703-004-0094-7.
- **(2003) Yu, J.-Y., S.-P. Weng, and J. D. Farrara:** Ocean roles in the TBO transitions of the Indian-Australian monsoon system. *Journal of Climate*, **16**, 3072-3080.
- **(2003) Yu, J.-Y. and W. T. Liu:** A linear relationship between ENSO intensity and tropical instability wave activity in the eastern Pacific Ocean. *Geophysical Research Letters*, **30**(14), 1735, doi:10.1029/2003GL017176.
- **(2003) Farrara, J. D. and J.-Y. Yu:** Interannual variations in the North American monsoon and SST anomalies: A general circulation model study. *Journal of Climate*, **16**, 1703-1720.
- **(2003) Yu, J.-Y.:** Identifications and applications of coupled climate models. Invited article in *The Encyclopedia of Life Support Systems*, EOLSS Publisher, Oxford, UK. 15pp.
- **(2003) C. R. Mechoso, J. D. Neelin, and J.-Y. Yu:** Testing simple model of ENSO, *Journal of Atmospheric Sciences*, **60**, 305-318.
- **(2002) Yu, J.-Y., C. R. Mechoso, J. C. McWilliams, and A. Arakawa:** Impacts of the Indian Ocean on the ENSO cycle. *Geophysical Research Letters*, **29**, 461-464.
- **(2002) Davey, M. K., M. Huddleston, K.R. Sperber, S.B. Power, R.A. Colman, G. Flato, M. Kimoto, L. Terray, D. DeWitt, E. Roeckner, J. Oberhuber, R. Voss, U. Cubasch, T.R. Knutson, S. Manabe, B. Wang, L. Fairhead, H. Le Treut, A. Vintzileos, P. Delecluse, P. Braconnot, I. Yoshikawa, D. Chen, S.E. Zebiak, C. Gordon, C. Cooper, M. Latif, S. Yukimoto, A. Kitoh, F. Bryan, G.A. Meehl, W.M. Washington, M. Ji, T. Hogan, T. Li, J.-Y. Yu, C. R. Mechoso:** STOIC: A study of coupled GCM climatology and variability in tropical ocean regions. *Climate Dynamics*, **18**, 403-420.
- **(2001) Yu, J.-Y. and C.R. Mechoso:** A coupled atmosphere-ocean GCM study of the ENSO cycle. *Journal of Climate*, **14**, 2329-2350.
- **(2001) Latif, M. K. Sperber, A. Arblaster, P. Braccanot, D. Chen, A. Colman, U. Cubasch, M. Davey, P. Delecluse, D. De Witt, L. Fairhead, G. Flato, M. Ji, M. Kimoto, A. Kitoh, T. Knutson, H. Le Treut, S. Manabe, O. Marti, C. Mechoso, G. Meehl, J. Oberhuber, S. Power, E. Roeckner, L. Terray, A. Vintzileos, R. Vob, B. Wang, W. Washington, I. Yoshikawa, J.-Y. Yu, S. Zebiak:** ENSIP: The El Niño Simulation Intercomparison Project. *Climate Dynamics*, **18**, 255-276.
- **(2000) Yu, J.-Y., W. T. Liu, and C.R. Mechoso:** The SST anomaly dipole in the Northern Subtropical Pacific and its relationship with ENSO. *Geophysical Research Letters*, **27**, 1931-1934.
- **(2000) Yu, J.-Y.:** A general circulation model of the atmosphere using the full-Galerkin method. *Journal of Mathematics and Computers in Simulation*, **52**, 427-443.
- **(2000) Mechoso, C. R., J.-Y. Yu, and A. Arakawa:** A coupled GCM pilgrimage: From climate catastrophe to ENSO simulations. Book Chapter in *General Circulation Model Development: Past,*

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- (2000) Mechoso, C. R., J. D. Farrara, L.A. Drummond, J. Spahr and J.-Y. Yu, 2000: An atmosphere-ocean model: Code optimization and application to El Niño. Book Chapter in *Development and Application of Computer Techniques to Environmental Studies VIII*. D. A. Gabriel Ibarra-Berastegi, C. A. Brebbia and P. Zanetti, Eds, WIT Press, 544pp.
- (1999) Yu, J.-Y., and C.R. Mechoso: Links between annual variations of Peruvian stratocumulus clouds and of SSTs in the eastern equatorial Pacific. *Journal of Climate*, 12, 3305-3318.
- (1999) Yu, J.-Y., and C.R. Mechoso: A discussion on the errors in the surface heat fluxes simulated by a coupled GCM. *Journal of Climate*, 12, 416-426.
- (1997) Yu, J.-Y., C. R. Mechoso, J. D. Farrara, Y.-J. Kim, J.-L. Li, M. Köhler, and A. Arakawa: Recent development of the UCLA coupled atmosphere-ocean GCM. *Research Activities in Atmospheric and Oceanic Modelling*. A. Staniforth, ed., WMO/TD-No. 792, 9.24-9.25.
- (1997) Yu, J.-Y., and C. R. Mechoso: Impact of cloud radiative effects on the simulation of Tropical Pacific. *Research Activities in Atmospheric and Oceanic Modelling*. A. Staniforth, ed., WMO/TD-No. 792, 7.81-7.82.
- (1995) Yu, J.-Y., and D.L. Hartmann: Orographic influences on the distribution and generation of atmospheric variability in a GCM. *J. Atmos. Sci.*, **52**, 2428-2443.
- (1993) Yu, J.-Y., and D.L. Hartmann: Zonal flow vacillation and eddy forcing in a simple GCM of the atmosphere. *J. Atmos. Sci.*, **50**, 3244-3259.

#### INVITED SEMINARS AND PRESENTATIONS

- (2015) (invited) "The Early-1990s Climate Shift in the Pacific", *2015 Weather and Climate Diagnostic Workshop*, Taipei, Taiwan. September 15-17, 2015.
- (2015) (invited) "Central-Pacific El Niño and the Early-1990s Climate Shift", *International Geographical Union (IGU) Regional Conference*, Moscow, Russia. August 16-21, 2015.
- (2015) (invited) "The Changing El Niño and Its Impacts on Western Pacific Extreme Weather", *2015 International Workshop on Typhoon and Flood (IWTF) - APEC Experience Sharing on Hazardous Weather Events and Risk Management*, Taipei, Taiwan. May 27-29, 2015.
- (2015) (invited) "Central Pacific El Niño and Early-1990s Climate Shift", Department of Atmospheric and Oceanic Sciences, University of Wisconsin-Madison, Madison, Wisconsin, March 2.
- (2014) (invited) "El Niño since the Early-1990s Climate Shift in the Pacific", in the session of *ENSO, its precursor, and their change under global warming*, *AGU Annual Fall Meeting*, San Francisco, California. December 15-19.
- (2014) (Invited Lecturer) "El Niño-Southern Oscillation and Its Teleconnection", Invited lecture in the *Workshop and School on Tropical ocean and Air-Sea Interaction*, organized by South China Sea Institute of Oceanography, Chinese Academy of Sciences, Guangzhou, China, November 10-21.
- (2014) (Invited Lecturer) "Understanding Madden-Julian Oscillation", Invited lecture in the *Workshop and School on Tropical ocean and Air-Sea Interaction*, organized by South China Sea Institute of Oceanography, Chinese Academy of Sciences, Guangzhou, China, November 10-21.
- (2014) (invited) "Linking the Emergence of Central-Pacific El Niño to the Phase Change of the Atlantic Multi-decadal Oscillation", in the session of *Dynamics of ENSO and Tropical Climate Variability*, *AOGS 11th Annual Meeting*, Sapporo, Japan. July 28-August 1.
- (2014) (invited) "Linking Emergence of the Central-Pacific El Niño to the Atlantic Multi-decadal Oscillation", *National Taiwan University*, Taipei, Taiwan. June 11.
- (2014) (invited) "Central-Pacific El Niño, Pacific Subtropical highs, and Decadal Droughts in China", *National Taiwan Normal University*, Taipei, Taiwan. June 9.
- (2014) (invited) "Relationships between Subtropical Highs and the Two Types of El Niño in the CWB AGCM", *Central Weather Bureau*, Taipei, Taiwan. June 9.
- (2013) (invited) "The Central-Pacific El Niño: Its Generation Mechanism and Interactions with the

- Asian Monsoon”, *Asian Monsoon Years (2007-2012) Open Science Conference (AMY-OSC)*, Zhuhai, China. October 26-27.
- **(2013) (Invited)** "CMIP5 Models and ENSO Diversity", Department of Atmospheric Sciences, University of Sun Yat-Sen University, Guangzhou, China, October 24, 2013.
  - **(2013) (Invited)** "The Central-Pacific El Niño: Dynamics, Impacts, and Causes of Its Recent Increase in Frequency", Department of Atmospheric Sciences, University of Sun Yat-Sen University, Guangzhou, China, October 24, 2013.
  - **(2013) (Invited)** "The Central-Pacific El Niño: Dynamics, Impacts, and Causes of Its Recent Increase in Frequency", by South China Sea Institute of Oceanography, Guangzhou, China, October 23, 2013.
  - **(2013) (Invited)**: "Central Pacific El Niño: Dynamics and Climate Impacts", *CLIVAR International Symposium on Boundary Current Dynamics*, Lijian, China. July 8-10.
  - **(2013) (Invited)**: "Extratropical Forcing and the Emergence of Central-Pacific El Niño in Recent Decades", *The 10th Asian Oceania Geosciences Annual Meeting*, Brisbane, Australia. June 24-28.
  - **(2013) (Invited)**: "Central-Pacific El Niño: Dynamics, Climate Impacts, and the Cause of Its Recent Emergence", *Workshop on the two-types of the El Niño: the aspect, coupling process, formation mechanism, and climate effects*, Nanjing, China. June 14-15.
  - **(2013) (Invited)**: "Central-Pacific El Niño: Dynamics, Climate Impacts, and the Cause of Its Recent Emergence" Institute of Atmospheric Physics, Chinese Academy of Science, Beijing, China. June 14.
  - **(2013) (Invited)**: "Central-Pacific El Niño: Dynamics, Climate Impacts, and the Cause of Its Recent Emergence", International Center for Climate and Environmental Sciences, Beijing, China. June 9.
  - **(2013) (Invited)**: "Changing Impact of El Niño on US Climate: Observation and CMIP5 Simulations", *The Second CCLI-CS Workshop on Climate System Modeling*, Taipei, Taiwan, April 1-3, 2013.
  - **(2013) (Invited)**: "North Pacific Subtropical High: An Overview ", *Central Weather Bureau*, Taipei, Taiwan, March 28, 2013.
  - **(2013) (Invited)**: "A Journey from Traditional El Niño to the New Type of Central-Pacific El Niño: A Historical Overview ", Fisheries Research Institute of Taiwan, Keelung, Taiwan, March 27, 2013.
  - **(2013) (Invited)**: "Central-Pacific El Niño: Dynamics, Climate Impacts, and the Cause of Its Recent Emergence", *The Twenty-Sixth Pacific Climate Workshop*, Pacific Grove, California. March 3-6.
  - **(2013)** Yu, J.-Y., "Central-Pacific El Niño: Dynamics, climate impacts, and the cause of its recent emergence", *ENSO Diversity Workshop*, Boulder, CO, February 6-8, 2013.
  - **(2012) (Invited)** Yu, J.-Y., "Emergence of the Central-Pacific El Niño and Its Impacts on Climate Research", National Sun-Yat-Sen University, Kaoshiung, Taiwan, December 7, 2012.
  - **(2012) (Invited)** Yu, J.-Y., "The Emerging Central-Pacific El Niño", The 2012 Summer Workshop on ENSO, Honolulu, Hawaii, June 20-22.
  - **(2012) (Invited)** Yu, J.-Y., "Identification of the Two Types of ENSO", US CLIVAR - ENSO Diversity Working Group Teleconference, May 16.
  - **(2012) (Invited)** Yu, J.-Y., "The Two Types of ENSO in CMIP5 Models and Their Different Impacts on North America Winter Temperature", NOAA MAPP Program Webminar Series, NOAA, May 2.
  - **(2012) (Invited)** Yu, J.-Y., "The Emerging Central-Pacific El Niño", The 2012 Summer Workshop on ENSO, Honolulu, Hawaii, June 20-22, 2012.
  - **(2012) (Invited)** Yu, J.-Y., "Identification of the Two Types of ENSO", US CLIVAR - ENSO Diversity Working Group Teleconference, May 16, 2012.
  - **(2012) (Invited)** Yu, J.-Y., "The Two Types of ENSO in CMIP5 Models and Their Different Impacts on North America Winter Temperature", NOAA MAPP Program Webminar Series, NOAA, May 2, 2012.
  - **(2012) (Invited)** Yu, J.-Y., National Central University, "Central-Pacific El Niño: Dynamics, Impacts, and Modeling," Chung-Li, Taiwan, March 22, 2012.
  - **(2012) (Invited)** Yu, J.-Y., National Taiwan University, "Central-Pacific El Niño: Dynamics, Impacts, and Modeling," Taipei, Taiwan, March 21, 2012.
  - **(2012) (Invited)** Yu, J.-Y., Central Weather Bureau of Taiwan, "Impacts of the two types of ENSO on

North America climate," Taipei, Taiwan, March 20, 2012.

- **(2011) (Invited)** Yu, J.-Y., "El Niño-Southern Oscillation: A Diagnostics of the Performance of the New Coupled Model", CCLiCS Workshop on Climate System Modeling, Taipei, Taiwan, November 17-18, 2011.
- **(2011) (Invited)** Yu, J.-Y., "The emergence of a new type of El Niño in recent decades", Department of Land, Air, and Water Resources, University of California, Davis, CA, October 18, 2011.
- **(2010) (invited)** Yu, J.-Y. and Seon Tae Kim, "Understanding and Modeling the Emerging Central-Pacific ENSO", Workshop on New strategies for evaluating ENSO processes in climate models, Paris, France, November 17-19, 2010.
- **(2010) (invited)** Yu, J.-Y. and Seon Tae Kim, "Understanding and Modeling the Emerging Central-Pacific ENSO", Workshop on New strategies for evaluating ENSO processes in climate models, Paris, France, November 17-19, 2010.
- **(2010) (Invited)** Yu, J.-Y., "Central-Pacific El Niño: Evolution, Generation, and Prediction", COAA 5th International Conference on Atmosphere-Ocean Interaction, Taipei, Taiwan, June 28-30, 2010.
- **(2010) (Invited)** Yu, J.-Y., "Transitions between Central-Pacific El Niño and Eastern-Pacific El Niño: Roles of thermocline and sea level pressure", National Taiwan Normal University, June 21, 2010.
- **(2009) (Invited)** Yu, J.-Y., National Central University, "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", Chung-Li, Taiwan, November 23, 2009.
- **(2009) (Invited)** Yu, J.-Y., Central Weather Bureau, "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", Taipei, Taiwan, November 19, 2009.
- **(2009) (Invited)** Yu, J.-Y., Yonsei University, "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", Seoul, Korea, November 17, 2009.
- **(2009) (Invited)** Yu, J.-Y., Seoul National University, "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", Seoul, Korea, November 16, 2009.
- **(2009) (Invited)** Yu, Jin-Yi: "A Two-Oscillator View of ENSO", Purdue University, September 10, 2009.
- **(2009) (Invited)** Yu, Jin-Yi: "Contrasting Central-Pacific and Eastern-Pacific Types of ENSO", California Institute of Technology, February 10, 2009.
- **(2008) (Invited)** Yu, Jin-Yi: "Verifying ENSO modulation mechanisms with IPCC/AR4 coupled models", National Taiwan University, November 27, 2008.
- **(2008) (Invited)** Yu, Jin-Yi: "Verifying ENSO modulation mechanisms with IPCC/AR4 coupled models", Central Weather Bureau, November 26, 2008.
- **(2008) (Invited)** Yu, Jin-Yi: "Verifying ENSO modulation mechanisms with IPCC/AR4 coupled models", National Central University, November 24, 2008.
- **(2007) (Invited)** Yu, Jin-Yi, "Contrasting Eastern-Pacific and Central-Pacific types of ENSO", Research Center for Environmental Changes, Taiwan, December 3, 2007
- **(2007) (Invited)** Yu, Jin-Yi, "Is ENSO one oscillator or two?", National Taiwan Normal University, 12/4/2007.
- **(2007) (Invited)** Yu, Jin-Yi, "ENSO-basic state interactions", National Central University, 12/5/2007.
- **(2007) (Invited)** Yu, Jin-Yi, "Why is the model ENSO too biennial?", Central Weather Bureau, 12/6/2007.
- **(2007) (Invited)** Yu, Jin-Yi, "A 10-15year modulation cycle of ENSO intensity", National Taiwan University, 12/6/2007.
- **(2006) (Invited)** Yu, J.-Y.: "Air-sea interactions over warm oceans", Presented at National Taiwan Normal University, Department of Earth Science, Taipei, Taiwan, May 11, 2006.
- **(2006) (Invited)** Yu, J.-Y.: "A centennial journey toward understanding and predicting the El Niño", Presented at National Taiwan Normal University, Department of Geography, Taipei, Taiwan, May 10, 2006.
- **(2005) (Invited)** Yu, J.-Y.: "Monsoon-ocean interactions during tropospheric biennial oscillation",

Scripps Institute of Oceanography, February 23, 2005, San Diego, California.

- **(2004) (Invited)** Yu, J.-Y.: “Monsoon-ocean interactions during TBO”, Central Weather Bureau, December 12, 2004, Taipei, Taiwan.
- **(2004) (Invited)** Yu, J.-Y.: “Roles of Indian Ocean in tropical climate variability”, National Central University, December 13, 2004, Chungli, Taiwan.
- **(2004) (Invited)** Yu, J.-Y.: “Multi-scale interactions among tropical instability wave, the ITCZ in the eastern Pacific Ocean”, Remote Sensing and radiation Symposium, December 17, 2004, Taipei, Taiwan.

## OTHER SEMINARS AND PRESENTATIONS

- **(2015)** Yu, B. (Presenter), Zhang, X., Lin, H., and Yu, J.-Y., "Comparison of wintertime North American impacts associated with multiple ENSO indices", *International Geographical Union (IGU) Regional Conference*, Moscow, Russia. August 16-21, 2015.
- **(2015)** Yu, J.-Y., "The Pacific Climate Research Program at ESS," UC Irvine, *The ESS Presentation to the Delegation from China Meteorological Administration*, Irvine, CA, February 12, 2015.
- **(2014)** McCabe-Glynn, S. (Presenter), K. Johnson, Y. Zou, J. Welker, C. Strong, J. Rutz, J-Y Yu, K. Yoshimura, S. Sellars, and A. Payne, "Arctic and Tropical Influence on Extreme Precipitation Events, Atmospheric Rivers, and Associated Isotopic Values in the Western U.S.", *AGU Annual Fall Meeting*, San Francisco, California. December 15-19, 2014.
- **(2014)** Liang, Y-C (Presenter), J-Y Yu, and M-H Lo, "Distinct Impacts of the Two Types of El Niño on the Strength of Great Plains Low-Level Jet", *AGU Annual Fall Meeting*, San Francisco, California. December 15-19, 2014.
- Paek, Houk (Presenter) and J-Y Yu, " Linking the Western North Pacific Subtropical High and the two types of ENSO", *AGU Annual Fall Meeting*, San Francisco, California. December 15-19, 2014.
- **(2014)** Wey, H-W (Presenter), M-H Lo, S-Y Lee, and J-Y Yu, "Potential Impacts of Wintertime Agricultural Irrigation at Low Latitudes on Global Climate", *AGU Annual Fall Meeting*, San Francisco, California. December 15-19, 2014.
- **(2014)** Yu, J.-Y., "The Central Pacific El Niño: Its Dynamics, Impacts, and Recent Emergence", *Department of Meteorology, University of Reading*, Reading, United Kingdom, August 4, 2014.
- **(2014)** Chang, Y. (Presenter), C-T Chen, and J.-Y. Yu, "Simulated Impacts of Two Types of El Niño on the Tropical Cyclone Activity over Northwest Pacific", *The 31st Conference on Hurricanes and Tropical Meteorology*, San Diego, CA, March 30-April 4, 2014.
- **(2014)** Ashouri, H (Presenter), K-L Hsu, S. Sorooshian, J. Lee, M. G. Bosilovich, and J.-Y. Yu, "Evaluation of the Reanalyses Products in Detecting Extreme Precipitation Trends over United States", *The 28th Conference on Hydrology*, Atlanta, Georgia, February 1-6, 2014.
- **(2013)** Zou, Y. (Presenter) and J-Y Yu, "CMIP5 Simulations of US Winter Responses to El Niño Diversity", *AGU Annual Fall Meeting*, San Francisco, California. December 9-13, 2013.
- **(2013)** Yu, J-Y, J. Ma, P-K Kao, and H. Paek, "Linking Central-Pacific El Niño to Atlantic Multidecadal Oscillation and Centennial Warming Pattern in the 21st Century", *AGU Annual Fall Meeting*, San Francisco, California. December 9-13, 2013.
- **(2013)** Liang, Y-C (Presenter), M-H Lo, and J-Y Yu, "Asymmetric Responses of Land Water Storage to Two Types of ENSO over the Mississippi River Basin", *AGU Annual Fall Meeting*, San Francisco, California. December 9-13, 2013.
- **(2013)** Yu, J.-Y., "The changing El Niño and its interactions with Asia Monsoon", *International Conference on Southeast Asian Weather and Climate 2013*, Chiang Mai, Thailand, November 27-29, 2013.
- **(2013)** Kim, S. T. (Presenter), W. Cai, F. Jin, and J-Y Yu, " Intercomparison of ENSO Stability in the Coupled Models and its Association with Mean State", *The 10th Asian Oceania Geosciences Annual Meeting*, Brisbane, Australia. June 24-28.
- **(2013)** Yu, J.-Y., "Extratropical Forcing and the Emergence of Central-Pacific El Niño", *The 2013 Assembly of European Geosciences Union*, Vienna, Austria. April 7-12, 2013.

- **(2013)** Yu, J.-Y., "CMIP5 Simulations of the Impacts of the Two Types of ENSO on US Winter Climate", *Third CLIVAR Workshop on the Evaluation of ENSO Processes in Climate Models*, Hobart, Australia. January 21-23, 2013.
- **(2013)** Yu, J.-Y., "The Changing Impacts of El Niño on US Winter Climate", *The 25th Conference on Climate Variability and Change*, Austin, TX. January 6-10, 2013.
- **(2012)** Yu, J.-Y., "Extratropical Forcing and the Emergence of Central-Pacific El Niño in Recent Decades", *AGU Annual Fall Meeting*, San Francisco, California. December 3-7, 2012.
- **(2012)** Zou, Y. and J.-Y. Yu, "The Changing Impacts of El Niño on US Winter Climate", *AGU Annual Fall Meeting*, San Francisco, California. December 3-7, 2012.
- **(2012)** Yu, J.-Y., NTU International Science Conference on Climate Change, "Central-Pacific El Niño: Dynamics, Climate Impacts, and the Cause of Its Recent Emergence", Taipei, Taiwan. 17-21 September, 2012.
- **(2012)** Yu, J.-Y., "Central-Pacific El Niño: Dynamics, Climate Impacts, and the Cause of Its Recent Emergence", The 9th Cross-Strait Ocean Science Workshop, Fujian, China. August 31- September 3, 2012.
- **(2012)** Yu, J.-Y. , Zou, Y. , Kim, S. T., "Changing impacts of El Niño on North America Climate", AOGS-AGU (WPGM) Joint Assembly, Resorts World Sentosa, Singapore. August 13-17, 2012.
- **(2012)** Yu, J.-Y., "Modeling the Two Types of ENSO and Their Climate Impacts", The 4th International Workshop on Modeling the Ocean, Yokohama, Japan, May 21-24, 2012.
- **(2012)** Ashouri, H. (Presenter), Hsu, K., Sorooshian, S., and Yu, J.-Y., "Trend Analysis of Extreme Daily Precipitation over Contiguous United States using MERRA and NCEP NARR Products", The 4th WCRP International Conference on Reanalyses, Silver Spring, Maryland, May 7-11, 2012.
- **(2012)** Yu, J.-Y., Zou, Y., Kim, S. T., "The Two Types of ENSO in CMIP5 Models and Their Different Impacts on North America Climate", WCRP CMIP5 Analysis Workshop, Honolulu, Hawaii, March 5-9, 2012.
- **(2012)** Ashouri, H. (Presenter), Hsu, K., Sorooshian, S., and J.-Y. Yu, "Reconstruction of Daily Precipitation Data for Climate Trend Detection and Extreme Precipitation Analysis", The 24th Conference on Climate Variability and Change, American Meteorological Society, New Orleans, LA, January 6-10, 2012.
- **(2011)** Kim, S. T. and J.-Y. Yu, "CP ENSO in the NCEP CFS model: Extratropical SLP Forcing and Marine Stratus Clouds", AGU Fall Meeting, San Francisco, CA, December 5-9, 2011.
- **(2011)** Kim, H. and co-authors (J.-Y. Yu), "The Changing Nature of Amazon Drought", AGU Fall Meeting, San Francisco, CA, December 5-9, 2011.
- **(2011)** Yu, J.-Y., "Understanding and Modeling the Emerging Central-Pacific El Niño", WCRP Open Science Conference, Denver, Colorado, October 24-28, 2011.
- **(2011)** Yu, J.-Y. and S T kim, "Transition between Central-Pacific El Niño and Eastern-Pacific El Niño", 23rd Conference on Climate Variability and Change, Seattle, WA, January 23-27.
- **(2010)** Yu, J.-Y. and S T kim, "Central-Pacific El Niño: Generation, Evolution, and relation with the Eastern-Pacific El Niño", AGU Fall Meeting, December 13-17, 2010.
- **(2010)** Yu, J.-Y., "Central-Pacific El Niño: Evolution, Generation, and Prediction", Western Pacific Geophysics Meeting, Taipei, Taiwan, June 22-25, 2010.
- **(2010)** Yu, J.-Y., "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", *22nd Conference on Climate Variability and Change*, Atlanta, Georgia, January 16-21, 2010.
- **(2009)** Yu, J.-Y., University of California, Los Angeles, "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", Los Angeles, CA, November 6, 2009.
- **(2009)** Yu, J.-Y., University of California, Irvine, "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", Irvine, CA, November 4, 2009.
- **(2009)** Yu, J.-Y., Jet Propulsion Laboratory, "El Niño without Southern Oscillation: A New View of Tropical Pacific Warming", Pasadena, CA, November 4, 2009.

- (2009) Yu, J.-Y.: “Central-Pacific ENSO: Generation Mechanism and Inter-basin Interaction”, MOCA-09 (IAMAS-IAPSO-IACS 2009 Joint Assembly), Montreal, Canada, July 19-29, 2009.
- (2008) Yu, Jin-Yi: “A two-oscillator view of ENSO”, AGU Fall Meeting, December 15, 2008.
- (2007) Kao, H.-Y. and Jin-Yi Yu: “Contrasting Eastern-Pacific and Central-Pacific Types of ENSO”, Presented by Hsun-Ying Kao at the 2007 Graduate Climate Conference, Seattle, WA, Oct. 19-21, 2007.
- (2007) Yu, J.-Y., H.-Y. Kao, and F. Sun: “Using a Two-Oscillator View to Examine CGCM Deficiency in ENSO Simulations”, Presented at the 12th Annual CCSM Workshop Breckenridge, CO, June 19 - 21, 2007.
- (2007) Y. J.-Y., F. Sun, and H.-Y. Kao: “A Two-Oscillator View of Decadal ENSO Modulation”, Presented at The Seventh Workshop on Decadal Climate Variability, Kona, Hawaii, 30 April-3 May 2007.
- (2007) Yu, J.-Y., H.-Y. Kao, and F. Sun: “Using a Two-Oscillator View to Examine CGCM Deficiency in ENSO Simulations”, Presented at the WGNE/PCMDI Systematic Errors Workshop, San Francisco, California, February 12-16, 2007.
- (2006) Yu, J.-Y. and M. Janiga: “Role of the Pacific Ocean in the Decadal Change of the In-Phase Relationship between the Indian and Following Australian Summer Monsoon”, Presented at the 2006 AGU Fall Meeting, San Francisco, California, 11.15 December 2006.
- (2006) Weng, S.-P. and J.-Y. Yu: “MJO simulated by a CGCM: Sensitivity of mean state climate and basin-scale air-sea coupling”, Presented by Shu-Ping Weng at the Conference on Weather Analysis and Forecasting, Taipei, Taiwan, October 18-20, 2006.
- (2006) Janiga, M. and J.-Y. Yu: “Recent weakening of the in-phase relationship between the Indian and following Australian summer monsoon”, Presented by Matt Janiga at 2006 ESS REU Program, Irvine, California, August 27, 2006.
- (2006) Yu, J.-Y.: “Decoupled Indian Ocean with CCSM3”, Presented at the Tropical Biases Meeting, Breckenridge, Colorado, 23 July, 2005.
- (2006) Yu, J.-Y., F.-P. Sun, and W. Y. Liu: “Central America gap winds and eastern Pacific warm pool”, Presented at NASA Ocean Vector Wind Science Team (OVWST) Meeting, Salt Lake City, Utah, 5-7 July, 2006.
- (2005) Sun, F. and J.-Y. Yu: “Impacts of Central America gap winds on the SST annual cycle in the Eastern Pacific warm pool”, Presented at AGU Fall Meeting, San Francisco, California, December 5-9, 2005.
- (2005) Yu, J.-Y., “Atmosphere-ocean interactions over warm water”, Presented at University of California, Irvine, California, November 23, 2005.
- (2005) Yu, J.-Y., “Inter-basin interactions and biennial climate variability in the Indo-Pacific region”. Presented at The 30th Annual Climate Diagnostics & Prediction Workshop, College Park, Pennsylvania, October 24-28, 2005.
- (2005) Yu, J.-Y., “Impacts of Indian Ocean on ENSO simulation”, Presented at Tropical Biases Workshop, Beltsville, Maryland, September 8-9.
- (2004) Yu, J.-Y.: “A regional-coupling CGCM study of the roles of Indian ocean in tropical climate variability”, Presented at the Indian Ocean Modeling Workshop, November 29-December 3, 2004, Honolulu, Hawaii.
- (2004) Yu, J.-Y.: “A coupled atmosphere-ocean GCM study of monsoon-ocean interactions during tropospheric biennial oscillation”. Presented at the International Conference on Tropical Weather and Climate, November 7-12, 2004, Guangzhou, China.
- (2004) Yu, J.-Y., S.-P. Weng, and J. D. Farrara: “Ocean roles in the transitions between Indian and Australian monsoons”, Presented at the First International CLIVAR Science Conference, June 21-25, 2004, Baltimore, Maryland.
- (2003) Yu, J.-Y. and W. T. Liu: “Impacts of ENSO on tropical instability wave activity in the eastern Pacific Ocean”. Presented at NASA’s Ocean Vector Wind Science Team (OVWST) Meeting, 29 September-02 October 2003, Arcadia, California.

- (2003) Yu, J.-Y., S.-P. Weng, and J. D. Farrara: "Ocean roles in the biennial Asian and Australian monsoon tendency". Presented at *The 2003 General Assemblies of International Geodyse and Geophysics Union*, June 30 - July 11, 2003, Sapporo, Japan.
- (2003) Yu, J.-Y. and S.-P. Weng: "Roles of ocean in the biennial transitions between Indian and Australian monsoons". Presented at *The 14th Symposium on Global Change and Climate Variations*, 11-15 January 2003, Long Beach, California.
- (2002) Yu, J.-Y. and S.-P. Weng: "Roles of Indian and Pacific Oceans in the seasonal transitions between Indian and Australian monsoons". Presented at *The 27th Annual Climate Diagnostics and Prediction Workshop*, 21-25 October 2002, Fairfax, Virginia.
- (2002) Yu, J.-Y.: "Applications of coupled atmosphere-ocean general circulation model in climate research and prediction". Presented at the *Conference On Earth System Sciences*, 3-4 June 2002, National Central University, Taiwan.
- (2002) Yu, J.-Y. and W. K.-M. Lau: "The Indian Ocean dipole mode and its relationship with ENSO". Presented at the *11th Conference on Interaction of the Sea and Atmosphere*, 13-17 May 2002, La Jolla, California.
- (2002) Yu, J.-Y.: "Interactions between Pacific and Indian Oceans and their influences on decadal ENSO variability". Presented at University of California Irvine, 20 February 2002, Irvine, California.
- (2002) Yu, J.-Y.: "Interannual and decadal relationships between the Indian Ocean Zonal Mode and ENSO: A coupled GCM study". Presented at the *13th Symposium on Global Change Studies*, 13-17 January 2002, Orlando, Florida.
- (2002) Yu, J.-Y. and W. T. Liu: "Generation and air-sea coupling mechanisms of tropical instability waves". Presented at the *13th Symposium on Global Change Studies*, 13-17 January 2002, Orlando, Florida.
- (2001) Yu, J.-Y. and W. T. Liu: "The ocean-atmosphere coupling of TIWs and its seasonal and interannual variations". Presented at the *26th Annual Climate Diagnostics and Prediction Workshop*, 22-26 October 2001, La Jolla, California.
- (2001) Yu, J.-Y. and R. C. Malone: "A global high-resolution UCLA-POP coupled atmosphere-ocean GCM for assessing climate and variability in the ocean". Presented at the *Symposium on Climate Variability, the Ocean, and Social Impacts*, 14-18 January 2001, Albuquerque, New Mexico, 160-162.
- (2001) Yu, J.-Y. and W. T. Liu: "Seasonal-to-interannual modulations of tropical instability waves and the their coupling with the atmosphere". Presented at the *12th Symposium On Global Change and Climate Variations*, 14-18 January 2001, Albuquerque, New Mexico.
- (2001) Yu, J.-Y. and C. R. Mechoso: "A Indo-Pacific teleconnection pattern during ENSO". Presented at the *12th Symposium On Global Change and Climate Variations*, 14-18 January 2001, Albuquerque, New Mexico.
- (2000) Yu, J.-Y.: "Climate system modeling: Development, application, and challenge". Presented at the Ionospheric and Atmospheric Remote Sensing Group of Jet Propulsion Laboratory, 02 November 2000, Pasadena, California.
- (2000) Yu, J.-Y. and C. R. Mechoso: "Interaction between Indian and Pacific Oceans during ENSO". Presented at *The 25th Climate Diagnostic and Prediction Workshop*, 23-27 October 2000, Palisades, New York.
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