

Curriculum Vitae

Vasubandhu Misra

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General Information

University address: Earth, Ocean & Atmospheric Sci & Center for Ocean-Atmospheric
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Professional Preparation

- 1997 Doctor of Philosophy, Florida State University. Major: Meteorology.
- 1995 Master of Science, Florida State University. Major: Meteorology.
- 1991 B. E., Karnataka Regional Engineering College, Mangalore
University, India. Major: Civil Engineering. Not Applicable.

Postdegree Education and Training

- 1999–2000 Center for Ocean-Land-Atmosphere Studies.
- 1997–1999 Department of Atmospheric and Oceanic Sciences, McGill University,
Canada.

Professional Experience

- 2008–present Assistant Professor, Earth, Ocean & Atmospheric Sci, Florida State
University.
- 2008–2009 Assistant Professor (OPS), Meteorology, Florida State University.

2001–2008 Research Scientist, Center for Ocean-Land-Atmosphere Studies,
Institute of Global Environment and Society. Responsible for
conducting climate modeling research in tropical Meteorology.

Honors, Awards, and Prizes

Ralph E. Powe Junior Faculty Enhancement Award, Oak Ridge Association of
Universities (2010). (\$10,000).
Selected Early Career Scientist for the Junior Faculty Forum, National Center for
Atmospheric Research (2009).

Current Membership in Professional Organizations

American Geophysical Union
American Meteorological Society

Teaching

I weigh my teaching responsibilities equally with my research priorities. I joined this profession solely because I strongly feel that research and teaching are complimentary to each other. I endeavor to motivate students in their research with the practical application of their completed work.

Courses Taught

Tropical Meteorology I (MET5533)
Physical Climatology (MET2101)
Tropical Meteorology II (MET5534)

New Course Development

Physical Climatology (2010)
Tropical Meteorology II (2009)
Tropical Meteorology I (2009)

Curriculum Development

Physical climatology: This is an introductory course to understand the components of the earth's climate system and underlying principles of climate variability (2010)
Tropical Meteorology II: This dwells on the meso and synoptic scale variations of the atmosphere at tropical latitudes. The students are given extensive introduction to atmospheric convection (a characteristic feature of the tropical latitudes),

tropical boundary layer and a lengthy discussion on hurricanes and the African easterly waves (2009)

Tropical Meteorology I: dwells on large-scale tropical variations of weather and climate. It gives a holistic perspective on tropical variations with extensive discussions on coupled ocean-land-atmosphere interactions. The students are exposed to relevant theoretical, observational and modeling studies (2009)

Doctoral Committee Chair

Kozar, Michael (beginning in Fall 2011), doctoral candidate. (2015).
Nag, Bappaditya (beginning in Fall 2011), doctoral candidate. (2015).

Doctoral Committee Co-Chair

Michael, J. -P., doctoral student. (2013). *Initializing coupled ocean-atmosphere models for ENSO prediction.*

Doctoral Committee Member

Ryglicki, David R, graduate. (2011).
Nowell, Holly K, doctoral candidate.
Wang, Hui, doctoral candidate.
You, Yalei , doctoral candidate.
Annane, Bachir , doctoral student.
Weihs, Rachel R, doctoral student.

Master's Committee Chair

Frumkin, Adam J, graduate. (2011). *Predictability of dry season reforecasts over the tropical South American region.*

Pantina, Peter, graduate. (2011). *Characterizing the variability of the Indian Monsoon: Changes in evaporative sources for summertime rainfall events.*

Selman, Christopher, student. (2011). *Impact of irrigation on the southeast US climate.*

Stroman, Ashley C, student. (2011). *The rendition of the Atlantic Warm Pool in Reanalyses.*

Master's Committee Co-Chair

Michael, J. -P., graduate. (2010). *ENSO fidelity in two coupled models*.

Moeller, Lauren E, student. (2011). *Low frequency variations of the sea breeze in Florida*.

Master's Committee Member

Strazzo, Sarah Elizabeth, graduate. (2011).

Taylor, Zackary B, graduate. (2011).

May, Jackie C, graduate. (2010).

Hernandez, K., student.

Moore, Katherine Elizabeth, student.

Thompson, Aarolyn , student. (2011).

Zelinsky, David A, student. (2011).

Ma, Yuan, student. (2011).

Research and Original Creative Work

My research primarily resides in tropical climate variations. I am fundamentally a climate modeler interested to simulate, predict, and understand the slowly varying climate variations in the tropics. I am also interested to build new interfaces with other disciplines.

Publications

Refereed Journal Articles

Chan, S., & Misra, V. (2011). Dynamic downscaling of the North American monsoon with the ECPC-NCEP regional spectral model from NCEP CFS global model-varied representation. *Journal of Climate*, 24, 653-673. Retrieved from <http://coaps.fsu.edu/~vmisra/nam.pdf>

Chan, S., Misra, V., & Smith, H. (2011). A modeling study of the interaction between the Atlantic warm pool, Tropical Atlantic Easterlies, and the Lesser Antilles. *Journal of Geophysical Research (Atmospheres)*, doi:10.1029/2010JD01, 1-x. Retrieved from <http://coaps.fsu.edu/~vmisra/antilles.pdf>

Marengo, J. A., Liebmann, B., Grimm, A., Misra, V., Dias, P. S., Cavalcanti, I. F. A., Carvalho, L. M. V., Berbery, E. H., Ambrizzi, T., Vera, C. S., Saulo, A. C., Nogues-Paegle, J., Zipser, E., Seth, A., & Alves, L. M. (2011). New developments on the functioning, characteristics, and variability of the South American Monsoon System. *International Journal of Climatology*, doi:10.1002/joc.2254, 1-x. Retrieved from <http://coaps.fsu.edu/~vmisra/reviewsam.pdf>

- Misra, V., Moeller, L., Stefanova, S., Chan, S., O'Brien, J. J., Smith III, T. J., & Plant, N. (2011). The influence of the Atlantic Warm Pool on the Panhandle Florida Sea Breeze. *Journal of Geophysical Research (Atmospheres)*, doi:10.1029/2010JD01, 1-x.
- Stefanova, L., Misra, V., O'Brien, J. J., Chassignet, E., & Hameed, S. (2011). Multi-model seasonal climate hindcast skill and predictability for the southeast United States. *Climate Dynamics*, DOI 10.1007/s00382-, 1-x. Retrieved from <http://coaps.fsu.edu/~vmisra/seus-skill.pdf>
- Chan, S., & Misra, V. (2010). A diagnosis of the 1979-2005 Extreme Rainfall Events in the southeast US with Isentropic Moisture Tracing. *Monthly Weather Review*, 138, 1172-1185. Retrieved from <http://coaps.fsu.edu/~vmisra/mwr-schan.pdf>
- Krishnamurthy, V., & Misra, V. (2010). Daily Atmospheric Variability in the South American Monsoon System. *Climate Dynamics*, doi:10.007/s00382-01, 1-x. Retrieved from <http://coaps.fsu.edu/~vmisra/daily.pdf>
- Krishnamurthy, V., & Misra, V. (2010). Observed ENSO teleconnections with the South American System. *Atmospheric Science Letters*, 11, 7-12. Retrieved from <http://coaps.fsu.edu/~vmisra/ar1.pdf>
- Misra, V. (2010). Interaction of interannual and diurnal variations over equatorial Africa. *Journal of Geophysical Research*, 115, 1-x. Retrieved from <http://coaps.fsu.edu/~vmisra/zaire.pdf>
- Wei, J., Dirmeyer, P. A., Guo, Z., Zhang, L., & Misra, V. (2010). How much do different land models matter for climate simulation: results from an atmospheric model coupled to three different land models. *Journal of Climate*, 23, 3135-3145. Retrieved from <http://coaps.fsu.edu/~vmisra/wei2010.pdf>
- Misra, V. (2009). The Amplification of the ENSO Forcing over Northern Tropical South America. *Journal of Hydrometeorology*, 16, 1561-1568. Retrieved from <http://coaps.fsu.edu/~vmisra/saamp.pdf>
- Misra, V. (2009). Harvesting Model Uncertainty in the Simulation of the Interannual Variability. *Journal of Geophysical Research (Atmospheres)*, 114, 1-11. Retrieved from <http://coaps.fsu.edu/~vmisra/harvest.pdf>
- Misra, V., & Chan, S. (2009). Seasonal predictability of the Atlantic Warm Pool in the NCEP CFS. *Geophysical Research Letters*, 36, 1-x. Retrieved from http://coaps.fsu.edu/~vmisra/awp_pred.pdf

- Misra, V., Chan, S., & Chassignet, E. (2009). Air-Sea Interactions over the Atlantic Warm Pool. *Geophysical Research Letters*, *36*, 1-x. Retrieved from <http://coaps.fsu.edu/~vmisra/awp.pdf>
- Misra, V., & Dirmeyer, P. (2009). Air, Sea and Land interactions of the US Hydroclimate. *Journal of Hydrometeorology*, *10*, 353-373. Retrieved from <http://coaps.fsu.edu/~vmisra/aol-us.pdf>
- Misra, V., & Marx, L. (2009). The coupled seasonal hindcasts of the South American Monsoon. *International Journal of Climatology*, *29*, 1101-1115. Retrieved from <http://coaps.fsu.edu/~vmisra/ijoc.pdf>
- Brunke, M., Zeng, X., Misra, V., & Beljaars, A. (2008). Integration of a prognostic sea surface skin temperature scheme into weather and climate models. *Journal of Geophysical Research (Atmospheres)*, *D21117*, 1-15. Retrieved from <http://coaps.fsu.edu/~vmisra/brunke.pdf>
- Misra, V. (2008). Coupled Interactions of the Monsoons. *Geophysical Research Letters*, *35*, 1-7. Retrieved from <http://www.coaps.fsu.edu/~vmisra/gmonsoons.pdf>
- Misra, V. (2008). Coupled Air, Sea, and Land Interactions of the South American Monsoon. *Journal of Climate*, *21*, 6389-6403. Retrieved from <http://coaps.fsu.edu/~vmisra/aol-sam.pdf>
- Misra, V., Marx, L., Fennessy, M., Kirtman, B. P., & KinterIII, J. L. (2008). A Comparison of Climate Prediction and Simulation over Tropical Pacific. *Journal of Climate*, *21*, 3601-3611. Retrieved from <http://www.coaps.fsu.edu/~vmisra/cmip.pdf>
- Misra, V., Marx, L., Zeng, X., & Brunke, M. (2008). The Equatorial Pacific Cold Tongue Bias in a Coupled Climate Model. *Journal of climate*, *21*, 5852-5869. Retrieved from <http://www.coaps.fsu.edu/~vmisra/coupint.pdf>
- Misra, V. (2007). A Sensitivity Study of the Coupled Simulation of the Northeast Brazil Rainfall Variability. *Journal of Geophysical Research (Atmospheres)*, *112*, 1-16. Retrieved from http://www.coaps.fsu.edu/~vmisra/nor_cola3.2_jgr.pdf
- Misra, V. (2007). Addressing the Issue of Systematic Errors in a Regional Climate Model. *Journal of Climate*, *20*, 801-818. Retrieved from <http://www.coaps.fsu.edu/~vmisra/addressing.pdf>
- Misra, V. (2007). The manifestation of remote response over equatorial Pacific in a climate model. *Journal of Geophysical Research (Atmospheres)*, *112*, 1-17. Retrieved from <http://www.coaps.fsu.edu/~vmisra/manifestation.pdf>

- Misra, V., Marx, L., KinterIII, J. L., Kirtman, B. P., Guo, Z., Min, D., Fennessey, M., Dirmeyer, P. A., Kallumal, R., & Straus, D. M. (2007). Validating and Understanding ENSO simulation in Two Coupled Models. *Tellus*, 58A, 292-308. Retrieved from <http://www.coaps.fsu.edu/~vmisra/validating.pdf>
- Misra, V., & Zhang, Y. (2007). The Fidelity of the NCEP CFS Seasonal Hindcasts over Nordeste. *Monthly Weather Review*, 135, 618-627. Retrieved from http://www.coaps.fsu.edu/~vmisra/nor_col3.2_jgr.pdf
- Misra, V. (2006). Understanding the predictability of seasonal precipitation over Northeast Brazil. *Tellus*, 58A, 307-319. Retrieved from <http://www.coaps.fsu.edu/~vmisra/tellus.pdf>
- Misra, V. (2005). On the simulation of the intraseasonal variance of the South American summer Monsoon. *Monthly Weather Review*, 133, 663-676. Retrieved from http://www.coaps.fsu.edu/~vmisra/intraseas_jp.pdf
- Misra, V. (2004). An Evaluation of the Predictability of the Austral Summer Seasonal Precipitation over South America. *Journal of Climate*, 17, 1161-1175. Retrieved from http://www.coaps.fsu.edu/~vmisra/southamerica-predictability_jp.pdf
- Misra, V. (2004). The teleconnection between western Indian and western Pacific Oceans. *Monthly Weather Review*, 132, 445-455. Retrieved from http://www.coaps.fsu.edu/~vmisra/westpacific_jp.pdf
- Misra, V., & Kanamitsu, M. (2004). Anomaly Nesting: A methodology to downscale seasonal climate simulations from an AGCM. *Journal of Climate*, 17, 3249-3262. Retrieved from <http://www.coaps.fsu.edu/~vmisra/anomalynesting.pdf>
- Rajendran, K., Krishnamurti, T. N., Misra, V., & Tao, W. -K. (2004). An empirical cumulus parameterization scheme based on TRMM latent heating profiles. *Meteorological Society of Japan*, 82, 989-1006. Retrieved from http://www.coaps.fsu.edu/~vmisra/cumulus_jp.pdf
- Misra, V. (2003). The influence of Pacific SST on the precipitation over southern Africa diagnosed from an AGCM. *Journal of Climate*, 16, 2408-2418. Retrieved from <http://www.coaps.fsu.edu/~vmisra/africa.pdf>
- Misra, V., Dirmeyer, P. A., & Kirtman, B. P. (2003). Dynamical downscaling of seasonal simulations over South America. *Journal of climate*, 16, 103-117. Retrieved from http://www.coaps.fsu.edu/~vmisra/dynamic_downscale.pdf
- Misra, V., Dirmeyer, P. A., & Kirtman, B. P. (2002). A comparison of two land surface schemes in regional climate simulations over South America. *Journal of*

- Geophysical Research (Atmospheres)*, 107, 48-1 48-9. Retrieved from http://www.coaps.fsu.edu/~vmisra/twolandsurface_jp.pdf
- Misra, V., Dirmeyer, P. A., Kirtman, B. P., Juang, H. -M., & Kanamitsu, M. (2002). Regional Simulation of Interannual Variability over South America. *Journal of Geophysical Research (Atmospheres)*, 107, 3-1 3-16. Retrieved from http://www.coaps.fsu.edu/~vmisra/simulationofSA_jp.pdf
- Misra, V., & Yau, M. K. (2001). An ensemble strategy for high-resolution regional model forecasts. *Meteorology and Atmospheric Physics*, 78, 61-74.
- Misra, V., Yau, M. K., & Badrinath, N. (2000). Atmospheric water species budget study in mesoscale simulations of lee cyclones over Mackenzie River Basin. *Tellus*, 52A, 150-161. Retrieved from http://www.coaps.fsu.edu/~vmisra/mackenzie_jp.pdf
- Krishnamurti, T. N., Sinha, M. C., Misra, V., & Sharma, O. P. (1997). Tropical-middle latitude interactions viewed via wave energy flux in the frequency domain. *Dynamics of Atmospheres and Oceans*, 27, 383-412. Retrieved from <http://www.coaps.fsu.edu/~vmisra/Tropical-middle.pdf>
- Krishnamurti, T. N., Han, S.K., & Misra, V. (1995). Predictions of Dry and Wet spell of the Australian Monsoon. *International Journal of Climatology*, 15, 753-771. Retrieved from http://www.coaps.fsu.edu/~vmisra/aus_monsoon.pdf

Invited Book Chapters

- Krishnamurti, T. N., Misra, V., Bhaskar, J., & Tewari, M. (1995). Recent Research Contributions on the South Asian Monsoon. In R. A. Pielke Jr., & R. A. Pielke Sr. (Eds.), *Hazards and Disasters* (pp. 270-310). Routledge, London. Retrieved from <http://coaps.fsu.edu/~vmisra/recent-southasia.pdf>

Presentations

Invited Keynote and Plenary Presentations at Conferences

- Misra, V. (presented 2011, May). *Scenarios for Planning*. Plenary presentation at Climate Information for Managing Risks, Orlando, FL: UF/SECC/FCI. (International)

Nonrefereed Presentations at Conferences

- Misra, V., A. Frumkin, and S.DiNapoli. (presented 2011, June). *A potential feedback of the Amazonian rainfall variability on the Intra-Americas Seas*. Poster presentation at 16th Annual CESM workshop, Breckenridge, Colorado: NCAR. (National)
- Misra, V., J. -P. Michael, R. Boyles, E. Chassignet, M. Griffin, & J. J. O'Brien. (presented 2011, May). *Anthropogenic influence on climate over the Southeast United States*. Presentation at Climate information for managing risks, Orlando, FL: UF/SECC/FCI. (International)
- Michael, J. -P., Misra, V., & Chassignet, E. P. (presented 2010, November). *ENSO simulation in two coupled coupled models*. Poster presentation at New strategies for evaluating ENSO processes in climate models, Paris, France: WCRP. (International)
- Stefanova, L., & Misra, V. (presented 2010, November). *Summer seasonal prediction skill over the southeast US*. Presentation at Fall SECC meeting, Rosentiel School of Marine Sciences, University of Miami: SECC. (Regional)
- Frumkin, A., & Misra, V. (presented 2010, October). *Predictability and fidelity of dry season downscaled reforecasts over the tropical South American region*. Poster presentation at NOAA 35th Climate diagnostics and prediction workshop, Raleigh, North Carolina: NOAA. (National)
- Misra, V. (presented 2010, October). *Seasonal predictability of the Atlantic Warm Pool in the NCEP CFS*. Presentation at NOAA 35th Climate Diagnostics and Prediction Workshop, Raleigh, North Carolina: NOAA. (National)
- Moeller, L., & Misra, V. (presented 2010, October). *Sea breeze variations in Florida*. Presentation at NOAA 35th Climate diagnostics and prediction workshop, Raleigh, North Carolina: NOAA. (National)
- Pantina, P., & Misra, V. (presented 2010, October). *Tracing the evaporative sources of the dry and wet spells of the Indian Monsoon*. Poster presentation at NOAA 35th Climate diagnostics and prediction workshop, Raleigh, North Carolina: NOAA. (National)
- Stefanova, L., Misra, V., Chan, S., Griffin, M., O'Brien, J. J., & SmithIII, T. J. (presented 2010, October). *Atmospheric regional reanalysis of the Southeast US*. Poster presentation at NOAA 35th Climate diagnostics and prediction workshop, Raleigh, North Carolina: NOAA. (National)
- Stroman, A., & Misra, V. (presented 2010, October). *Rendition of the Atlantic warm pool in the reanalyses*. Poster presentation at NOAA 35th Climate diagnostics and prediction workshop, Raleigh, North Carolina: NOAA. (National)

- Stefanova, L., Misra, V., Chan, S., Griffin, M., O'Brien, J. J., & Smith III, T. J. (presented 2010, May). *Atmospheric regional reanalysis of the Southeast US*. Poster presentation at Spring planning meeting of SECC, Raleigh, North Carolina: SECC. (Regional)
- Chan, S., & Misra, V. (presented 2010, January). *Southeast US extreme precipitation events footprint in interannual variability*. Poster presentation at 90th AMS General Annual Meeting, Atlanta, GA: AMS. (National)
- Misra, V. (presented 2009, November). *Does climate change impact Oyster population in the Apalachicola Bay?* Presentation at 3rd Annual workshop on aquatic resources, Alexandria, Egypt: NSF. (International)
- Misra, V. (presented 2009, July). *Harvesting model uncertainty for the simulation of interannual variations*. Poster presentation at Advanced Study Program Junior Faculty Forum, Boulder, Colorado: NCAR. (International)
- Misra, V. (presented 2007, October). *The Equatorial Cold Tongue Bias in a Coupled Climate Model*. Presentation at NOAA 32nd Climate Diagnostics and Prediction Workshop, Tallahassee, FL: NOAA. (National)
- Misra, V. (presented 2007, July). *Multi-scale interactions of the South American Monsoon*. Poster presentation at Celebrating the Monsoons, Bengaluru, India: Indian Institute of Science. (International)
- Misra, V. (presented 2007, February). *A comparison of climate prediction and simulation over tropical Pacific*. Poster presentation at 3rd WGNE workshop on systematic errors in climate and NWP models, San Francisco: WGNE. (International)
- Misra, V. (presented 2006, April). *Dynamic downscaling of the South American Seasonal Climate*. Poster presentation at 8th International Conference on Southern Hemisphere Meteorology and Oceanography, Foz do Iguacu, Brazil: American Meteorological Society. (International)
- Misra, V. (presented 2006, April). *The fidelity of NCEP-CFS seasonal hindcasts over Nordeste*. Poster presentation at 8th International Conference on Southern Hemisphere Meteorology and Oceanography, Foz do Iguacu, Brazil: American Meteorological Society. (International)
- Misra, V. (presented 2005, October). *A Journey to "ENSO" Simulation at COLA*. Presentation at 30th Annual climate diagnostics workshop, State College, State College, PA: NOAA. (Local)
- Misra, V. (presented 2005, October). *The fidelity of NCEP-CFS seasonal hindcasts over Nordeste*. Poster presentation at 30th Annual climate diagnostics workshop, State College, State College, PA: Penn State University. (National)

- Misra, V. (presented 2005, July). *Addressing the issue of Systematic Errors in RSM*. Presentation at 6th Annual RSM workshop, Palisades, New York: International research institute for Climate and Society. (International)
- Misra, V. (presented 2005, January). *The seasonal climate variability in the version 3 of the Center for Ocean-Land-Atmosphere Studies (COLA) AGCM*. Poster presentation at 16th Conference on Climate Variability and Chang, San Diego, CA: American Meteorological Society. (National)
- Misra, V. (presented 2004, July). *Dynamic downscaling of seasonal simulations over South America*. Presentation at 4th International RSM conference, Los Alamos, New Mexico: Los Alamos National laboratory. (International)
- Misra, V. (presented 2004, June). *Anomaly Nesting: A methodology to downscale the South American summer monsoon from an AGCM*. Poster presentation at International CLIVAR conference, Baltimore, MD: World Climate Research Program. (International)
- Misra, V. (presented 2004, January). *COLA's research and prediction activity over Nordeste*. Presentation at VI International Workshop on Climate Prediction (and evaluation) for Nordeste (north part), Fortaleza, Brazil: Brazilian Meteorological Agency. (International)
- Misra, V. (presented 2003, October). *The teleconnection between western Indian and western Pacific Oceans, Scale interactions and variability of the monsoons*. Presentation at International Conference on Seasonal to Interannual Variability of the Indian Monsoon, Munnar, India: Center for Mathematical modeling and computer simulation. (International)
- Misra, V. (presented 2001, February). *Implication of high resolution climate modeling over South America*. Presentation at The Large-scale Biosphere-Atmosphere Experiment in Amazonia (LBA) open ecology meeting, Atlanta, GA: LBA. (International)
- Misra, V. (presented 2001, January). *Interannual Variability in the Regional Climate Simulation over South America*. Poster presentation at AMS symposium on Climate Variations, the Oceans and Societal Impacts, Albuquerque, New Mexico: American Meteorological Society. (National)
- Misra, V. (presented 2000, July). *Multi-seasonal Regional Climate Simulation over South America During Three Contrasting Years of the ENSO cycle*. Presentation at 2nd international RSM conference, Maui, Hawaii: Maui High performance computing center. (International)

- Misra, V. (presented 2000, June). *The Simulated Moisture Budget over South America During Three Contrasting Years of the ENSO cycle*. Presentation at First Scientific Conference of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia, Belem, Brazil: NASA. (International)
- Misra, V. (presented 2000, May). *High Resolution Moisture Budget over South America During Three Contrasting Years of the ENSO cycle*. Poster presentation at Spring meeting of American Geophysical Union, Washington D. C: AGU. (National)
- Misra, V. (presented 1999, July). *An Ensemble strategy for forecasts at meso-* scales using high resolution precipitation observations*. Presentation at 29th International Conference on Radar Meteorology, Montreal, Canada: American Meteorological Society. (International)
- Misra, V. (presented 1999, June). *Residue Free atmospheric water budget study over Mackenzie River Basin during the life history of lee cyclones*. Presentation at 33rd Annual Canadian Meteorological and Oceanographic Society (CMOS) Congress, Montreal, Canada: CMOS. (National)
- Misra, V. (presented 1998, October). *An ensemble strategy for high-resolution regional model forecasts*. Presentation at Tropical Rainfall Measuring Mission Workshop, Tallahassee, FL: NASA. (International)

Invited Lectures and Readings of Original Work

- Misra, V. (2011, May). *Land of flowers on a latitude of deserts: aiding conservation and management of Florida's biodiversity*. Delivered at Public Water Supply utilities Climate Impact Working Group, Orlando Utility Corporation. (State)
- Misra, V. (2011, April). *CLARReS10: A way to regional reanalysis*. Delivered at College of Marine Science, University of South Florida, St. Petersburg, FL. (Local)
- Misra, V. (2011, April). *Downscaling global models: Implications for South Florida*. Delivered at USGS, Florida Atlantic University, Boca Raton, FL. (State)
- Misra, V. (2010, December). *Potential impact of the Atlantic warm pool on the Caribbean climate*. Delivered at Water Resources Research Institute, University of Virgin Islands, St. Thomas, VI. (Local)
- Misra, V. (2010, November). *Review of climate variations in the southeast US*. Delivered at South East Climate Consortium, Rosenstiel school of Marine and Atmospheric Sciences, University of Miami, Miami. (Regional)

- Misra, V. (2010, June). *Modeling regional climate variability (Climate change and decadal variability)*. Delivered at UF IFAS extension, Center for Ocean-Atmospheric Prediction Studies, Tallahassee, FL. (Local)
- Misra, V. (2010, May). *In pursuit of the summertime predictability over the southeast US*. Delivered at South East Climate Consortium, Raleigh, North Carolina. (Regional)
- Misra, V. (2009, November). *Climate modeling in the 21st century: Integration of multi-disciplinary science*. Delivered at 3rd International conference of Aquatic Resources, Alexandria, Egypt. (International)
- Misra, V. (2009, June). *IASCLIP modeling and prediction*. Delivered at World Climate Research Program/CLIVAR/VAMOS, San Juan, Puerto Rico. (International)
- Misra, V. (2008, September). *Coupled interactions of the monsoons*. Delivered at NOAA-Climate Prediction Program for the Americas, Silver Spring, Maryland. (National)
- Misra, V. (2008, August). *Role of shallow inversion clouds as diagnosed in a coupled modeling framework*. Delivered at National Centers for Environmental Prediction, Camp Spring, MD. (Local)
- Misra, V. (2008, June). *Coupled Interactions of the Monsoons*. Delivered at Center for Ocean-Land-Atmosphere Studies, Calverton, Maryland. (Local)
- Misra, V. (2008, May). *A changing perspective of the Oceans from the Atmosphere*. Delivered at Naval Research Laboratory, Ocean Dynamics and Prediction, Stennis Space Research Center, Stennis, Mississippi. (Local)
- Misra, V. (2008, February). *Coupled Interactions of the Monsoons*. Delivered at Department of Marine, Earth, and Atmospheric Sciences, North Carolina State University, Raleigh, North Carolina. (Local)
- Misra, V. (2008, February). *Coupled Interactions of the Monsoons*. Delivered at Department of Meteorology, Florida State University, Tallahassee, FL. (Local)
- Misra, V. (2007, March). *ENSO-South American Monsoon Variability*. Delivered at Department of Geography, Ohio State University, Columbus, Ohio. (Local)
- Misra, V. (2005, November). *Addressing the issue of Systematic Errors in a regional climate model*. Delivered at Earth System Science Interdisciplinary Center, University of Maryland, College Park, MD. (Local)
- Misra, V. (2005, April). *Addressing the issue of Systematic Errors in a Regional Climate Model*. Delivered at Institute for Terrestrial and Planetary Atmospheres, Marine

- Sciences Research Center, State University of New York, Long Island, New York. (Local)
- Misra, V. (2005, April). *Addressing the issue of Systematic Errors in a Regional Climate Model*. Delivered at Climate Research Division, Scripps Institute of Oceanography, San Diego, CA. (Local)
- Misra, V. (2005, March). *Predictability of the Intraseasonal Variability of the South American Summer Monsoon*. Delivered at World Climate Research Program/CLIVAR/VAMOS, Mexico City, Mexico. (Local)
- Misra, V. (2005, February). *Development of COLA AGCM V3 for coupled climate integrations*. Delivered at Center for Ocean-Atmospheric Studies, Indian Institute of Science, Bengaluru, India. (Local)
- Misra, V. (2005, January). *Seasonal Prediction of the South American Monsoon*. Delivered at Indian Institute of Tropical Meteorology, Pune, India. (Local)
- Misra, V. (2004, May). *A paradigm for simulating the monsoons at seasonal to intra-seasonal scales*. Delivered at Interational Research Institute for Climate and Society, Columbia University, Palisades, New York. (Local)
- Misra, V. (1999, July). *Residue Free atmospheric water budget study over Mackenzie River Basin during the life history of lee cyclones*. Delivered at Center for Ocean-Land-Atmosphere Studies, Calverton, Maryland. (Local)
- Misra, V. (1999, February). *An ensemble strategy for high resolution regional model forecasts*. Delivered at Indian Institute of Technology, New Delhi, India. (Local)
- Misra, V. (1997, March). *A statistically based cumulus parameterization that makes use of heating and moistening profiles derived from observations*. Delivered at Department of Atmospheric and Oceanic Sciences, McGill University, Montreal, Canada. (Local)
- Misra, V. (1994). *Predictions of dry and wet spells of summer monsoons*. Delivered at National Center for Medium Range Weather Forecast, New Delhi, India. (Local)

Contracts and Grants

Contracts and Grants Funded

- Misra, V. (Aug 2012 - Feb 2012). *Lesser Antilles Specific Assessment of the IPCC AR5 Models for the Current Climate*. Funded by USGS-WRRI.

Misra, V. (May 2011 - Apr 2012). *Environmental Minute*. Funded by College of Arts and Sciences, FSU.

O'Brien, James J (PI), & Misra, V. (Sep 2010 - Aug 2011). *Regional Integrated Sciences and Assessments*. Funded by University of Florida.

Misra, V. (PI). (Jun 2010 - Nov 2011). *The Sensitivity of the Climate Variations of the SE US from land cover use and management*. Funded by Oak Ridge Associated Universit.

Misra, V. (May 2010 - Feb 2011). *Influence of the Atlantic warm pool on the Lesser Antilles*. Funded by USGS-WRRI.

Misra, V. (PI), & Chassignet, Eric P. (Feb 2010 - Mar 2012). *A Land of Flowers on a Latitude of Deserts: Aiding conservation and management of Florida's biodiversity*. Funded by U. S. Geological Survey.

Misra, V. (PI). (Sep 2009 - Sep 2011). *Impact of Climate on Dinoflagellates and Ciguatera Fish*. Funded by University of Florida.

O'Brien, James J (PI), & Misra, V. (Aug 2009 - Jun 2012). *Decision Support System for Reducing Agricultural Risks*. Funded by National Inst of Food & Agriculture.

Misra, V. (PI). (Aug 2009 - Jul 2012). *The Experimental High Resolution Seasonal Climate and Hydrological prediction and predictability studies of the Pan-American and South-American Monsoons from intra-seasonal to seasonal scales*. Funded by National Oceanic and Atmospher.

Misra, V. (May 2009 - Aug 2009). *Multi-parameter estimation for predictability at seasonal to interannual time scales*. Funded by FSU-CRC.

Additional Research or Original Creative Work Not Reported Elsewhere

Misra, V. (2010). *The IASCLiP modeling plan*. IASCLiP.

Service

With the creation of the new department of the Earth, Ocean and Atmospheric Sciences in FSU, the department service category is critical and essential with the daunting prospect of developing this department from a fresh beginning. I am quite involved in the various committees of the department, including finding opportunities to advertise the department. I am also involved in various activities of committees at the regional, national and international level of my profession.

Florida State University

FSU Department Committees

Member, Computer Committee (EOAS) (2010–present).

Member, Graduate admissions and curriculum committee (for Meteorology program in EOAS) (2010–present).

Member, Computer committee (Dept. of Meteorology) (2009–2010).

FSU Institute or Center Committees

Member of the climate scenarios working group, State University System Climate change workshop (2011–present).

Co-chair, Florida Climate Institute, Steering committee (2010–present).

Member, Public Water Supply Utilities Climate Impact Working Group (2010–present).

Chair, AR5 task force, Florida Climate Institute (2010–present).

FSU Program Committees

Member, Program committee of the 8th Southern Hemisphere on Meteorology and Oceanography (2006).

The Profession

Guest Reviewer for Refereed Journals

Journal of Atmospheric Sciences (2005–present).

Mausam (2005–present).

Journal of Hydrometeorology (2005–present).

Journal of Applied Meteorology and Climatology (2004–present).

Climate Dynamics (2003–present).

Tellus (2000–present).

International Journal of Climatology (1999–present).

Journal of Climate (1999–present).

Geophysical Research (Atmospheres) (1997–present).

Monthly Weather Review (1997–present).

Geophysical Research (Oceans) (1997–present).

Journal of Meteorology and Atmospheric Physics (1997–present).

Reviewer or Panelist for Grant Applications

NSF

NOAA CPO

NOAA CPPA

Service to Professional Associations

Member, The working group is involved in preliminary discussions to bridge collaborations with University scientists and water utility and supply companies, Pubic Water Supply Utilities Climate Impact Working Group (2010–present).

International invitee, Material budget within coastal Egypt: current observations and future projections (2009).

Meteorological board member, University of California Davis-Lawrence Livermore National Laboratory, Point of Care Technologies (2009–present).

Executive committee member, Southeast Climate Consortium (2008–present).

Steering Committee member, Intra-Americas Study of CLimate Processes (IASCLiP) (2008–present).

Chair of Working group on modeling development and diagnostics, IASCLiP (2008–present).

Invited participant, Predictability of the intraseasonal variability of the South American summer monsoon, 8th VAMOS CLIVAR panel meeting (2007).

Member of the modeling and data assimilation group, Monsoon Experiment in South America (MESA) (2007–present).

Additional Service Not Reported Elsewhere

Misra, V. (2011). Directed Payal Patel (High school intern). Young Scholar Program.

Misra, V. (2011). Environmental Minute (radio show). <http://wfsu.org/environmental>.

Misra, V. (2010). Directed Joseph Hernandez (high school intern). Young scholar program.

Misra, V. (2010). Directed Danielle Moragas (high school intern). Young Scholar Program.

Misra, V. (2006). George Moomau. Blair magnet research program (Maryland).

Misra, V. (2005). Yuning Zhang (high school intern). Blair Magnet Research Program (Maryland).

Misra, V. (1999). Periodically review proposals for NSF and NOAA.

Misra, V. (1997). Periodically review journals. American Meteorological Society, American Geophysical Union, Royal Meteorological Society.