

Curriculum Vitae

Vasubandhu Misra

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General Information

University address: Earth, Ocean & Atmospheric Sci & Center for Ocean-Atmospheric Prediction Studies
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Web site: <http://www.coaps.fsu.edu/misra/people.php>

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.

Nondegree Education and Training

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

Professional Experience

- 2018–present Professor, Earth, Ocean and Atmospheric Science, Florida State University.
- 2012–2018 Associate Professor, Department of Earth, Ocean and Atmospheric Science,
Florida State University, Florida State University.

- 2008–2012 Assistant Professor, Earth, Ocean & Atmospheric Science, Florida State University, 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.

Language Proficiency

English - fluent in speaking, reading, and writing.
Hindi - native in speaking; advanced in reading and writing.
Kannada - fluent in speaking; rudimentary in reading and writing.
Tamil - intermediate in speaking; none in reading and writing.

Areas of Expertise

Climate Variability. [Monsoons, ENSO, Southeastern US].
Numerical modeling. [Air-sea interaction, land-atmosphere interaction, convection].
Tropical cyclones.

Honors, Awards, and Prizes

PROVOST travel award, Florida State University (2019). (\$1,500).
Distinguished Lecturer Award, The Southeastern Coastal Center for Agricultural Health and Safety (2018). (\$1,200).
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

Courses Taught

Directed Individual Study (MET5905)
Honors Work (MET4900)
Regional Hydroclimatology (MET5117)
Advanced Atmosphere Physics I (MET5425)
Atmospheric Physics I (MET4420)
Central American MSD (MET6906)
Tropical Meteorology I (MET 5533)
Advanced Atmospheric Physics I (MET5425)
Atmospheric Physics I (MET4420)
Esat (MET6906)
Landfall Trop Cyclones N Amer (MET4945)
Taylor diagr for Trop Cyclone (MET4945)
Taylor diagr for Trop Cyclone (MET4945)
Cloud Schemes (MET6906)
Coupled Modeling (MET6906)
Monsoon Climate (MET5905)
RSM Modeling (MET6906)
Selected Topics in Meteorology (MET4159)
Cloud Formation (MET6906)
Doctoral Seminar (MET6930)
ISM (MET6906)
Master's Seminar (MET5930)
Regional Hydroclimatology (MET6155)
Ice/Liquid Water Cloud Process (MET6906)
Intraseasonal Monsoon (MET6906)
Directed Individual Study (MET5905)
Invstgtn of the Indian Monsoon (MET6906)
Observations of MSD in Central (MET6906)
Regional Spectral Modeling (MET6906)
Tropical Cyclone Predictions (MET4905)
Use EEMD for Onset/Demise MSD (MET6906)
Computing es in the RSM (MET6906)
Coupling Models of AM (MET6906)
CPC Observations of MSD (MET6906)
EEMD to Define MSD (MET6906)
Obsvd. Eval. & Pred. of ENSO (MET5906)
Onset & Demise Characterizatn (MET6906)
Supervised Research (MET6906)
TRMM Observations (MET6906)
Ekman Trans. in Indian Ocean (MET5905)
Investigation of AR Events (MET6906)
MERRA Reanalysis of MSD (MET6906)
Monsoon Onset Variability (MET5905)
Observations of MSD in Cen. Am (MET6906)
Using EEMD to Investigate MSD (MET6906)

Southeast Climate Variations (MET6155)
Directed Individual Study (MET6906)
Physical Climatology (MET2101)
Advanced Topics in Climatology (MET6155)
Tropical Meteorology II (MET5534)

New Course Development

Southeast Climate Variations and Change (2012)

Curriculum Development

Atmospheric Physics I: This is a course offered to senior undergraduate and first year graduate students. It dwells on understanding the laws of thermodynamics in the context of atmospheric processes (2015)

Southeast US Climate Variations and Change: This is a course offered at the senior undergraduate and at graduate level. Although parochial by title, it dwells on global climate variations and change and relates them to the local (southeast US) climate variations and change (2012)

Physical climatology: This is an introductory course offered at the Sophomore level of the undergraduate program to understand the components of the earth's climate system and underlying principles of climate variability (2010)

Tropical Meteorology II: This course offered at the graduate level 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: This course offered at the graduate level 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

Glazer, R. H., graduate. (2018). *Ice versus liquid water saturation in simulations of the Indian summer monsoon.*

Selman, C. M., graduate. (2015). *Simulating the impacts and sensitivity of the Southeastern United States Climatology to Irrigation.*

Kozar, M. E., graduate. (2015). *Analysis and prediction of integrated kinetic energy in Atlantic tropical cyclones.*

Michael, J. P., graduate. (2014). *On Initializing CGCMs for Seasonal Predictability of ENSO.*

Uehling, J. E., doctoral candidate.

Doctoral Committee Cochair

Das, S., graduate. (2020). *Understanding the evolution of tropical cyclones through the psi-chi framework*.

Doctoral Committee Member

Ahern, K. K., graduate. (2019).

Annane, B., graduate. (2019).

Ducker, J., graduate. (2019).

Hall, T., graduate. (2019).

Cowan, L., graduate. (2019).

Sun, J., graduate. (2017). *Dynamics-Guided Analysis of Tropical Waves*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_FALL2017_Sun_fsu_0071E_14169

Marchand, M. R., graduate. (2016). *Expanding the Utility of GOES-R with Improved Assimilation of Lightning and Infrared Satellite Observations*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_FA2016_Marchand_fsu_0071E_13523

Weihs, R. R., graduate. (2016). *Surface and Atmospheric Boundary Layer Responses to Diurnal Variations of Sea Surface Temperature in an NWP Model*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_2016SU_Weihs_fsu_0071E_13436

Heath, N. K., graduate. (2015). *WRF Nested Large-Eddy Simulations of Deep Convection during SEAC4RS*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_2015fall_Heath_fsu_0071E_12917

Nowell, H. K., graduate. (2015). *On the Single-Scattering Properties of Realistic Snowflakes: An Improved Aggregation Algorithm and Discrete Dipole Approximation Modeling*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9660

Truchelut, R. E. J., graduate. (2015). *Diagnosing Tropical Cyclone Risk Through the Development of a Landfall Index for the North Atlantic Basin*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9514

Wang, H., graduate. (2015). *Use of Multiple Satellite Total Ozone Observations within and Around Tropical Cyclones*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9481

Albers, C. M., graduate. (2014). *Numerical Simulations of NASA Research Instrumentation in Hurricane Environments*.

You, Y., graduate. (2013). *A New Over-Land Rainfall Retrieval Algorithm Using Satellite Microwave Observations*.

Ryglicki, D. R., graduate. (2011). *Evolution of Barotropically Unstable, High-Rossby Number Vortices in Shear*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-1960

Graham, K. A., doctoral candidate.

Joyner, V., doctoral candidate.

Shi, S., doctoral student.

Yang, F., doctoral student.

Doctoral Committee University Representative

- Coale, A. L., graduate. (2021). *Portholes into a new world: the contributions of marine studios, Florida to American popular and scientific understanding of marine life.*
- McGilligan, C. G. D., graduate. (2021). *North.*
- Beebe, K. L., graduate. (2020).
- Saha, B. C., graduate. (2017). *Modeling of Complex Behaviors of Submarine Debris Flows.*
Retrieved from http://purl.flvc.org/fsu/fd/FSU_2017SP_Saha_fsu_0071E_13595

Master's Committee Chair

- Uehling, J. E., graduate. (2019).
- Cotcamp, B. E., graduate. (2016). *A review and historical perspective of 2015 El Nino.*
- Noska, R. G., graduate. (2016). *Characterizing the onset and the demise of the Indian Monsoon.*
- Stroman, A. C., graduate. (2011). *Rendition of the Atlantic Warm Pool in Reanalyses.* Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-1535
- Frumkin, A. J., graduate. (2011). *Predictability of Dry Season Reforecasts over the Tropical South American Region.* Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4394
- Pantina, P., graduate. (2011). *Characterizing the Variability of the Indian Monsoon: Changes in Evaporative Sources for Summertime Rainfall Events.* Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-2296
- Sherrod, T., student.
- Narotsky, C., student. *Predictability of the Peninsular Florida Wet Season.*

Master's Committee Cochair

- Moeller, L. E., graduate. (2011). *Low-Frequency Variations of the Sea Breeze in Florida.*
Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-2367

Master's Committee Member

- Wright, E. E., graduate. (2019). *Characterizing buoy wind speed error in extreme conditions through a comparison with scatterometers and ERA5 Reanalysis.*
- Li, J., graduate. (2019). *Classification of Rain Clouds Based on the Relationship between Microwave Emission and Scattering Signals.* Retrieved from http://purl.flvc.org/fsu/fd/2019_Spring_Li_fsu_0071N_15013
- Roman-Stork, H. L., graduate. (2018). *Analysis of the 10–20-Day Intraseasonal Oscillation in the Indian Ocean Using Surface Winds from Composite Satellite Data.* Retrieved from http://purl.flvc.org/fsu/fd/2018_Su_RomanStork_fsu_0071N_14803
- Chaney, K. M., graduate. (2017). *Case-based Evaluation of a Physical Initialization Technique*

for Assimilating Rainfall Radar in NWP.

- Swearingen, A. D., graduate. (2017). *Evaluation of a Bispectral Fog Detection Technique with a Low Earth Orbiting Satellite for Fog Events in Florida*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_SUMMER2017_Swearingen_fsu_0071N_14009
- McKenzie, T. B., graduate. (2017). *Climatology of Tropical Cyclone Size in the Western North Pacific Using an Alternative Metric*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_2017SP_McKenzie_fsu_0071N_13754
- Snyder, M., graduate. (2017). *Predictability and Dynamics of the Genoa Low: Case Study and Operational Considerations*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_2017SP_Snyder_fsu_0071N_13906
- Allison, T. D., graduate. (2016). *WRF Simulations of Water Vapor Content for TC Ingrid (September 2013)*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_FA2016_Allison_fsu_0071N_13632
- Hartman, A. T., graduate. (2016). *Tracking and Analysis of Mesoscale Convective Systems over Central Equatorial Africa*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_FA2016_Hartman_fsu_0071N_13642
- King, S. E., graduate. (2016). *Examination of Boreal Summer Sahel Rainfall Variability in the Context of the Tropical Easterly Jet*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_FA2016_King_fsu_0071N_13651
- Ducker, J., graduate. (2016). *Ozone Deposition Degrades Water Use Efficiency Across Multiple Ecosystems*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_2016SP_Ducker_fsu_0071N_13195
- Bielli, J. A., graduate. (2015).
- Smoleroff, K. J. E., graduate. (2015). *Examining Interannual Variability of the Short Rains for Different Categories of Wet and Dry Years*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_2015fall_Smoleroff_fsu_0071N_12811
- Trombetta, N. C., graduate. (2015).
- Glazer, R. H., graduate. (2014). *Influence of Mesoscale Sea Surface Temperature Gradients on Tropical Cyclones*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9177
- Ren, Y., graduate. (2014).
- Sun, J., graduate. (2014). *Spatiotemporal Inhomogeneity of Mixed Rossby-Gravity Waves*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9255
- Hall, T., graduate. (2014). *Transport of Ship Emissions in the Strait of Malacca Using a High-Resolution WRF Simulation and Low-Resolution GDAS Data Coupled with Hysplit*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9000
- Lahr, A. D., graduate. (2014). *Improving Forecasts of First Cloud-to-Ground Lightning Flashes Using Relationships Between Reflectivity and in-Cloud Flashes*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9023
- Austin, T. L., graduate. (2012). *Validation of TRMM 3B43 over Equatorial Africa*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4699
- Helms, C. N., graduate. (2012). *Evolution of Dropsonde-Derived Kinematic and Thermodynamic Structures in Developing and Non-Developing Atlantic Tropical Convective Systems*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4907
- Johnson, B. D., graduate. (2012).
- Moore, K. E., graduate. (2012). *Comparison Between Satellite Observed and Dropsonde*

Simulated Surface Sensitive Microwave Channel Observations within and Around Hurricane Ivan.

Weihs, R. R., graduate. (2012).

Thompson, A. R., graduate. (2011).

Zelinsky, D. A., graduate. (2011).

Strazzo, S. E., graduate. (2011).

Taylor, Z. B., graduate. (2011).

May, J. C., graduate. (2010).

Bachelor's Committee Chair

Buchanan, S., graduate. (2017). *A proxy integrated kinetic energy for tropical cyclones in the North Atlantic.*

Carsten, J., graduate. (2017). *A comparative study of the integrated kinetic energy of the Tropical cyclones in the northeast Pacific and the north Atlantic basins.*

Laurencin, C., graduate. (2017). *Characterizing the Variations of the motion of the North Atlantic Tropical Cyclones.*

Parker, B., student. *Validation of IMERG rainfall to monitor onset and demise of the rainy season over Peninsular Florida.*

Bachelor's Committee Member

Stow, J., graduate. (2020). *Analyzing hurricane rainband gaps to aid in new satellite proposal.*

Confer, K., graduate. (2019). *Improving the GEOS-Chem Model to better predict ozone concentration in the Arctic.*

Zuromski, L., graduate. (2015).

Brasseur, H., student. *Interactions between the Asian summer monsoon and middle latitudes: An observational study.*

Supervision of Student Research Not Related to Thesis or Dissertation

Dixit, S. (May 2021–present).

Dixit, S. (May 2021–present).

Heda, S. (Nov 2019–Feb 2020).

Nigussie, H. (Jul 2017–Dec 2019).

Patel, P. (Jun–Aug 2011).

Hernandez, J. (Jun–Aug 2010).

Moragas, D. (Jun–Aug 2010).

Moomau, G. (Jun–Aug 2006).

Zhang, Y. (Jun–Aug 2005).

Research and Original Creative Work

Publications

Invited Journal Articles

1. Mende, M., & Misra, V. (2020). Time to flatten the curves on COVID-19 and climate change. Marketing can help. *J. Public Policy and Marketing*, 1-3. doi:10.1177/0743915620930695

Refereed Journal Articles

1. Misra, V., & Bhardwaj, A.^(p) (in press). Estimating the thermodynamic and dynamic contributions to hydroclimatic change over Peninsular Florida. *J. Hydrometeorology*, 32 pages.
2. Karmakar, N.^(p), Boos, R. W., & Misra, V. (in press). Influence of intraseasonal variability on the development of monsoon depressions. *Geophysical Research Letters*.
3. Misra, V., Irani, T., Staal, L., Morris, K., Asefa, T., Martinez, C., & Wendy, G. (in press). The Florida Water and Climate Alliance (FloridaWCA): Developing a stakeholder-scientist partnership to create actionable science in climate adaptation and water resource management. *Bull. Amer. Soc.*, 44 pages.
4. Uehling, J.^(m), & Misra, V. (2020). Characterizing the seasonal cycle of the Northern Australian Rainy Season. *J. Climate*, 33, 8957-8973.
5. Shi, S.^(m), & Misra, V. (2020). The role of extreme rain events in Peninsular Florida's seasonal hydroclimate variations. *J. Hydrology*, 589. doi:https://doi.org/10.1016/j.jhydrol.2020.125182
6. Kim, D., Lee, Sang-Ki, Lopez, H., Foltz, G., Misra, V., & Kumar, A. (2020). One the role of Pacific-Atlantic SST contrast and associated Caribbean Sea convection in August-October U.S. Regional rainfall variability. *Geophysical Research Letters*. doi:https://

doi.org/10.1029/2020GL087736

7. Misra, V., & Bhardwaj, A.^(p) (2020). The impact of varying seasonal lengths of the rainy season of India on its teleconnections with tropical SSTs. *Atmospheric Science Letters*, *e959*, 1 to x. doi:<https://doi.org/10.1002/asl.959>
8. Karmakar, N.^(p), & Misra, V. (2020). Differences in northward propagation of convection over the Arabian Sea and Bay of Bengal during boreal summer. *Geophys. Res. (Atmospheres)*, *125*, e2019JD031648. doi:<https://doi.org/10.1029/2019JD031648>
9. Karmakar, N.^(p), & Misra, V. (2020). The fidelity of a regional coupled model in capturing the relationship between intraseasonal variability and the onset/demise of the Indian summer monsoon. *Clim. Dyn.*, *54*, 4693-4710.
10. Misra, V., & Bhardwaj, A.^(p) (2020). Understanding the Seasonal variations of Peninsular Florida. *Clim. Dyn.*, *54*, 1873-1885.
11. Bowden, J., Terando, A., Misra, V., Wootten, A., Bhardwaj, A.^(p), Boyles, R., Gould, W., Collazo, J., & Spero, T. (2019). High-resolution dynamically downscaled rainfall and temperature projections for ecological life zones within Puerto Rico and for the US Virgin Islands. *Int. J. Climatol.* doi:10.1002/JOC.6810
12. Sarvesh, D., & Misra, V. (2019). Understanding the Interannual Variations of the Zonal Mean Indian Summer Monsoon Seasonal Rainfall. *Clim. Dyn.*, *53*, 5547-5559.
13. Bhardwaj, A.^(p), & Misra, V. (2019). Monitoring the Indian summer monsoon evolution at the granularity of the Indian Meteorological Sub-divisions using remotely sensed rainfall products. *Remote Sensing*, *11*, 8. doi:10.3390/rs11091080
14. Karmakar, N.^(p), & Misra, V. (2019). The relation of intraseasonal variations with onset and demise of the Indian summer monsoon. *J. Geophys. Res. (Atmospheres)*, *124*, 2483-2506. doi:<https://doi.org/10.1029/2018JD029642>
15. Misra, V., Mishra, A.^(p), & Bhardwaj, A. (2019). A coupled ocean-atmosphere downscaled climate projection for the Peninsular Florida Region. *J. Mar. Sys.*, *194*, 25-40. doi:<https://doi.org/10.1016/j.jmarsys.2019.02.010>
16. Misra, V., & Bhardwaj, A.^(p) (2019). Defining the Northeast Winter Monsoon of India. *Mon. Wea. Rev.*, *147*, 791-806.
17. Bhardwaj, A.^(p), & Misra, V. (2019). The role of air-sea coupling in the downscaled

hydroclimate projection over Peninsular Florida. *Clim. Dyn*, 31. doi:10.1007/s00382-019-04669-s

18. Misra, V., Mishra, A., Bhardwaj, A.^(p), Viswanathan, K., & Schmutz, D. (2018). The potential role of land cover on secular changes of the hydroclimate of Peninsular Florida. *Nature Publishing Journal Climate and Atmospheric Science*, 1-6. doi:10.1038/s41612-018-0016-x
19. Misra, V., Mishra, A., & Bhardwaj, A.^(p) (2018). The simulation of the intraseasonal variations of the Indian summer monsoon in a regional coupled ocean-atmosphere model. *J. Climate*, 31, 3167-3185. doi:https://doi.org/10.1175/JCLI-D-17-0434.1
20. Buchanan, S.^(u), Misra, V., & Bhardwaj, A.^(p) (2018). Integrated Kinetic Energy of Atlantic Tropical Cyclones in a Global Ocean Surface Wind Analysis. *Atmospheric Research*, 1-11. doi:https://doi.org/10.1002/joc.5450
21. Misra, V., Bhardwaj, A.^(p), & Mishra, A. (2017). Local onset and demise of the Indian summer monsoon. *Clim. Dyn*, 24. doi:10.1007/s00382-017-3924-2
22. Misra, V., Bhardwaj, A.^(p), & Mishra, A. (2017). Characterizing the rainy season of Florida. *Clim. Dyn*, 20. doi:10.1007/S00382-017-4005-2.
23. Bhardwaj, A.^(p), Misra, V., Mishra, A., Wootten, A., Bowden, J., Boyles, R., & Terando, A. (2017). Downscaling Future Climate Change Projections over Puerto Rico using a Non-Hydrostatic Atmospheric Model. *Climatic Change*, 20 pages. doi:10.1175/JCLI-D-17-0434.1
24. Laurencin, C. N.^(u), & Misra, V. (2017). Characterizing the variations of the motion of the North Atlantic Tropical Cyclones. *Meteor. and Atmos. Phys*, 22. doi:10.1007/s00703-017-0566-1
25. Miller, A. J.^(x), Collins, M.^(x), Gualdi, S.^(x), Jensen, T. G.^(x), Misra, V., Pezzi, L. P.^(x), Pierce, D. W.^(x), Putrasahan, D.^(x), Seo, H.^(x), & Tseng, Y. -H.^(x) (2017). Coupled ocean-atmosphere modeling and predictions. *Journal of Marine Research*, 75, 1-41.
26. Misra, V., Mishra, A., & Bhardwaj, A.^(p) (2017). High resolution regional coupled ocean-atmosphere simulation of the Indian summer monsoon. *International J. Climatology*, 35. doi:10.1002/joc.5034
27. Glazer, R.^(d), & Misra, V. (2017). Ice versus liquid water saturation in simulations of the

Indian summer monsoon. *Clim. Dyn*, 1-15. doi:10.1007/s00382-018-4116-4

28. Misra, V., Bhardwaj, A.^(p), & Noska, R.^(m) (2017). Understanding the variations of the length and the seasonal rainfall anomalies of the Indian summer monsoon. *Journal of Climate*, 30, 1753-1763.
29. Noska, R.^(m), & Misra, V. (2016). Characterizing the onset and demise of the Indian Summer Monsoon. *Geophys. Res. Lett*, 22. doi:doi:10.1002/2016GL068409.
30. Kozar, M.^(d), & Misra, V. (2016). Hindcasts of Integrated Kinetic Energy: A Neural Network Prediction Scheme. *Mon. Wea. Rev*, 31. doi:http://dx.doi.org/10.1175/MWR-D-16-0030
31. Misra, V., & Mishra, A. (2016). The oceanic influence on the rainy season of Peninsular Florida. *Geophysical Research (Atmospheres)*, 40. doi:doi:10.1002/2016JD024824
32. Selman, C.^(d), & Misra, V. (2016). The sensitivity of Southeastern United States Climate to Varying Irrigation Vigor. *J. Geophys. Res. (Atmospheres)*, 40. doi:doi:10.1002/2016JD025002.
33. Misra, V., Groenen, D.^(d), Bharadwaj, A.^(p), & Mishra, A. (2016). The warm pool variability of the tropical northeast Pacific. *International Journal of Climatology*, 28. doi:10.1002/joc.4658
34. Misra, V., Mishra, A., & Li, H. (2015). The sensitivity of the regional coupled ocean-atmosphere simulations over the Intra-Americas Seas to the prescribed bathymetry. *Dynamics of Atmospheres and Oceans*, 54. doi:http://dx.doi.org/10.1016/j.dynatmoce.20
35. Selman, C.^(d), & Misra, V. (2015). The impact of an extreme case of irrigation on the Southeastern United States Climate. *Climate Dynamics*, 40. doi:doi:10.1007/s00382-016-3144-1,
36. Misra, V., & Bastola, S.^(p) (2015). Reconciling droughts and land falling tropical cyclones in the Southeastern United States. *Climate Dynamics*, 22. doi:doi:10.1007/s00382-015-2645-7
37. Bastola, S., & Misra, V. (2015). Seasonal hydrological and nutrient loading forecasts for watersheds over the Southeastern United States. *Environmental Modeling and Software*, 73, 90-102. doi:10.106/j.envsoft.2015.08.005
38. Selman, C.^(d), & Misra, V. (2015). Simulating Diurnal Variations Over the Southeastern

- United States. *Geophysical Research (Atmospheres)*, 120, 19. doi:10.1002/2014JD02181
39. Di, T., Senthold, A., Martinez, C. J., Misra, V., Cammarano, D., & Ortiz, V. (2014). Does decadal climate variation influence Wheat and Maize production in the southeast USA. *Agricultural and Forest Meteorology*, 204, 9. doi:http://dx.doi.org/10.1016/j.agrformet.2014.05.011
 40. Li, H.^(p), Kanamitsu, M., Hong, S. -Y., Yoshimura, K., Cayan, D. R., Misra, V., & Sun, L. (2014). Projected Climate Change Scenario over California by a Regional Ocean–Atmosphere Coupled Model System. *Climatic Change*, 122(4), 25. doi:10.1007/s10584-013-1025-8.
 41. Bastola, S.^(p), Misra, V., & Li, H. (2014). Seasonal hydrological forecasts for watersheds over the Southeastern United States for boreal summer and fall seasons. *Earth Interactions*, 17(25), 38. doi:10.1175/2013EI000519.1
 42. Kozar, M.^(d), & Misra, V. (2014). Statistical Prediction of Integrated Kinetic Energy in North Atlantic Tropical Cyclones. *Monthly Weather Review*, 142, 4646-4657. doi:10.1175/MWR-D-14-00117.1
 43. Misra, V., Li, H.^(p), & Kozar, M.^(d) (2014). The precursors in the Intra-Americas Seas to seaseasonal climate variations over North America. *Geophysical Research Letters*, 119, 15. doi:10.1002/2014JC009911
 44. Misra, V., & Haiqin, L.^(p) (2014). The seasonal climate predictability of the Atlantic Warm Pool and its Teleconnections. *Geophys. Res. Lett.*, doi:10.1002/2013GL058740, 6.
 45. Nag, B.^(d), Misra, V., & Bastola, S.^(p) (2014). Validating ENSO teleconnections on Southeastern United States Winter Hydrology. *Earth Interactions*, 18, 22. doi:EI-D-14-0007.1
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Invited Books

1. Misra, V. (2020). *Regionalizing global climate variations: A study of the Southeastern US Regional Climate*. Elsevier.
2. Krishnamurti, T. N., Stefanova, L., & Misra, V. (2012). *An Introductory Course in Tropical Meteorology*. Springer Verlag.

Edited Books

1. Chassignet, E., Jones, J. W., Misra, V., & Obeysekera, J. (Eds.). (2017). *Florida's Climate: Changes, Variations and Impacts*. Florida Climate Institute. Retrieved from <https://floridacclimateinstitute.org/resources/florida-climate-book>
2. Misra, V. (Ed.). (2013). *Muti-disciplinary assessment of the Southeastern US climate*. Regional Environmental Change, Springer.

Invited Book Chapters

1. Kirtman, B., Misra, V., Burgman, R. J., & Infanti, J. M. (2017). Florida Climate Variability and Prediction. In Chassignet, E., J. W. Jones, V. Misra, and J. Obeysekera (Ed.), *Florida's Climate: Change, Variations and Impacts* (pp. 511-532). Florida Climate Institute. Retrieved from <https://doi.org/10.17125/fci2017.ch17>
2. Kirtman, B. P., Misra, V., Swamy, A., & Palko, D. (2017). Future Climate Change Scenarios for Florida. In Chassignet, E., J. W. Jones, V. Misra, and J. Obeysekera (Ed.), *Florida's Climate: Change, Variations and Impacts* (pp. 533-555). Florida Climate Institute. Retrieved from <https://doi.org/10.17125/fci2017.ch18>
3. Misra, V., Selman, C., Waite, A. J., Bastola, S., & Mishra, A. (2017). Terrestrial and Ocean Climate of the 20th Century. In Chassignet, E., J. W. Jones, V. Misra, and J. Obeysekera (Ed.), *Florida's Climate: Change, Variations and Impacts* (pp. 485-509). Florida Climate Institute. Retrieved from <https://doi.org/10.17125/fci2017.ch16>
4. 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>

Refereed Book Chapters

1. Kozar, M.^(d), & Misra, V. (2019). Integrated Kinetic Energy in North Atlantic Tropical Cyclones: Climatology, Analysis, and Seasonal Applications. In Jennifer Collins, & Kevin Walsh (Eds.), *Hurricane Risk, Vol. I*. Springer. Retrieved from https://doi.org/10.1007/978-3-030-02402-4_3

Invited Encyclopedia Entries

1. Misra, V. (2016). Coupled GCM's. In David S. G. Thomas and Andrew Goudie (Ed.), *The Dictionary of Physical Geography* (3rd ed.). Wiley.

2. Misra, V. (2016). Downscaling. In David S. G. Thomas and Andrew Goudie (Ed.), *The Dictionary of Physical Geography* (3rd ed.). Wiley.
3. Misra, V. (2016). Ensemble Climate Modeling. In David S. G. Thomas and Andrew Goudie (Ed.), *The Dictionary of Physical Geography* (3rd ed.). Wiley.
4. Misra, V. (2016). Hindcasting. In David S. G. Thomas and Andrew Goudie (Ed.), *The Dictionary of Physical Geography* (3rd ed.). Wiley.

Refereed Encyclopedia Entries

1. Misra, V. (2014). Ocean-Atmosphere Interaction. In Y. Q. Wang (Ed.), *Encyclopedia of Natural Hazards*. Taylor and Francis.

Invited Reviews

1. Misra, V. (2013). Modeling Uncertainty in the Earth Sciences. *Bulletin of American Meteorological Society*, 3.

Refereed Reports

1. Misra, V., Wang, C., Serra, Y., Poveda, G., Fernandez, E. R., & Patterson, M. (2016). *Observing and modeling climate variability in the Intra-Americas Seas and Impacts on the Continental Americas and the Caribbean* (doi:10.5065/D6H41PSX). US CLIVAR. Retrieved from <http://opensky.ucar.edu/islandora/object/usclivar:43>
2. Wooten, A., Smith, K., Boyles, R., Terando, A., Stefanova, L., Misra, V., Smith, T., Blodgett, D., & Semazzi, F. (2014). *Downscaled climate projections for the Southeast United States—Evaluation and use for ecological applications* (U.S. Geological Survey Open-File Report 2014–1190). <http://dx.doi.org/10.3133/ofr20141190>.

Invited Newsletter Articles

1. Bourassa, M., & Misra, V. (2018, September). How Meteorologists Predict the Next Big Hurricane? *The Conversation*. Retrieved from <https://theconversation.com/how-meteorologists-predict-the-next-big-hurricane-102827>
2. Misra, V., & Wang, C. (2016, March). The Intra-Americas Seas: Vital to regional climate and extreme events. *Variations*, 14, 1-2.

3. Misra, V., & Powell, M. (2015, June). There are better ways to quantify how big and bad a hurricane is. *The Conversation, online*, 1-1. Retrieved from <https://theconversation.com/there-are-better-ways-to-quantify-how-big-and-bad-a-hurricane-is-40137>
4. Douglas, A. V., Enfield, D. B., & Misra, V. (2013, May). A review of recent research activities within the Intra-Americas Science Climate Processes Program (IASCLiP). *GEWEX*, 18, 2-4. Retrieved from <http://www.clivar.org/sites/default/files/Exchanges/Exchanges%2061.pdf>
5. Misra, V. (2013). NOAA Climate Prediction Task Force. *US CLIVAR Variations*, 11, 27-28.

Nonrefereed Journal Articles

1. Krishnamurti, T. N., Karmakar, N., Misra, V., Nag, B., Sahoo, D., Dubey, S., & Haddad, Z. (2018). The role of upper level diffluence in the Tropical Easterly Jet in the formation of the recent strongest Atlantic hurricanes. *EarthArXiv*, 1-13. Retrieved from <https://eartharxiv.org/7yafp/> doi:10.17605/OSF.IO/7YAFP

Nonrefereed Reports

1. Misra, V., Wang, C., Serra, Y., Poveda, G., Fernandez, E. R., & Patterson, M. (2016). *Observing and modeling climate variability in the Intra-America Seas and impacts on the continental Americas and the Caribbean*. US CLIVAR.

Presentations

Invited Papers at Conferences

- Misra, V. (presented 2012, November). *Florida Climate Institute Seasonal Hindcasts at 50km grid resolution*. Paper presented at Southeast Climate Consortium--Fall Meeting, SECC, Tifton, Georgia. (Regional)
- Misra, V. (presented 2012, August). *IASCLiP Modeling*. Paper presented at IASCLiP Appraisal, US CLIVAR, Washington DC. (National)
- Misra, V. (presented 2012, August). *Understanding climate change in the southeast US from (recent) past, present, and future, Ecology of the Everglades in the Context of Climate Change*. Paper presented at Webinar in Hydrology, South Florida Water Management District, Webinar. (Regional)

Misra, V. (presented 2012, June). *Reconciling the differing projections for the wet season over the southeastern US*. Paper presented at Landscape and Climate Science and Scenarios Workshop, Peninsula Florida Landscape Conservation Cooperative, St. Petersburg, Florida. (Regional)

Misra, V. (presented 2012, March). *Understanding climate change in the southeast US from (recent) past, present, and future, Hydrology of the Everglades in the Context of Climate Change*. Paper presented at USGS, CES, Sea Grant Sponsored Workshop, Florida Atlantic University-Davie Campus, Ft. Lauderdale. (State)

Invited Papers at Symposia

Misra, V. (presented 2018, November). Landfalling tropical cyclones-a time to reflect on the contradicting paradigms. In *Climate: Science and Society*. Symposium conducted at the meeting of Florida State University, Dirac Science Library, Florida State University. (Local)

Nonrefereed Papers at Conferences

Uehling, J.^(d), & Misra, V. (presented 2021, January). *Characterizing the seasonal cycle of the Northern Australian Rainy Season*. Paper presented at 101st AMS annual meeting, American Meteorological Society, Webinar, online. (National)

Karmakar, N.^(p), & Misra, V. (presented 2021, January). *Influence of intraseasonal variability on the development of monsoon lows into monsoon depressions over the South Asian region*. Paper presented at 101st AMS annual meeting, American Meteorological Society, Webinar, online. (National)

Bhardwaj, A.^(p), & Misra, V. (presented 2021, January). *Monitoring the Indian summer monsoon evolution at the granularity of the Indian Meteorological sub-divisions using remotely sensed rainfall products*. Paper presented at 101st AMS annual meeting, American Meteorological Society, Webinar, online. (National)

Misra, V. (presented 2021, January). *Simulation of the Intraseasonal Variations of the Indian Summer Monsoon in a Regional Climate Model*. Paper presented at 101st AMS annual meeting, American Meteorological Society, Webinar, online. (National)

Martinez, C., Asefa, T., Irani, T., Judge, J., Misra, V., Morris, K., & Staal, L. (presented 2019, December). *Using High-Resolution Forecasting of the Dry Season of Peninsular Florida to Improve Source-Water Allocation Decision Making*. Paper presented at AGU, AGU,

San Francisco. (International)

Das, S.^(d), & Misra, V. (presented 2019, January). *Assimilation of Wind Data Obtained during NASA CPEX (2017) Field Phase to Understand Organization of Convection*. Paper presented at AMS, AMS, Phoenix, Arizona. (National)

Das, S.^(d), & Misra, V. (presented 2018, December). *An Alternate Theory for the Diagnosis of Organization of Convection*. Paper presented at AGU annual conference, American Geophysical Union, Washington D. C. (International)

Karmakar, N., & Misra, V. (presented 2018, December). *Differences in the characteristics of northward propagation of convection on intraseasonal timescale over the two oceanic basins adjacent to India during summer monsoon*. Paper presented at AGU annual conference, American Geophysical Union, Washington D.C. (International)

Misra, V., Karmakar, N.^(p), Sahu, D., Dubey, S., & Ziad, H. (presented 2018, September). *The role of upper level diffluence in the Tropical Easterly Jet in the formation of the recent strongest Atlantic Hurricanes*. Paper presented at SPIE Asia-Pacific Remote Sensing, NASA, Honolulu, Hawaii. (International)

Laurencin, C.^(u), & Misra, V. (presented 2018, April). *Characterizing the variations of the motion of the North Atlantic Tropical Cyclones*. Paper presented at the meeting of American Meteorological Society. (International)

Misra, V., & Mishra, A.^(p) (presented 2015, December). *The challenge of simulating the regional climate over Florida*. Paper presented at AGU Fall meeting, AGU, San Francisco, California. (International)

Misra, V. (presented 2015, November). *Predicting integrated kinetic energy of Atlantic tropical cyclones*. Paper presented at Hurricane Forecast Improvement Project Monthly Teleconference, NOAA, Virtual. (National)

Misra, V., & Bastola, S.^(p) (presented 2015, October). *Reconciling droughts and landfalling tropical cyclones in the southeastern US*. Paper presented at 40th Climate Diagnostics and Prediction Workshop, NOAA, Denver, Colorado. (National)

Misra, V. (presented 2015, October). *What is happening to the wet season of Florida*. Paper presented at Southeast Climate Consortium Fall meeting, SECC, Athens, Georgia. (Regional)

Misra, V. (presented 2015, September). *The sensitivity of regional coupled ocean-atmosphere simulations over the Intra-Americas Seas to the Prescribed bathymetry*. Paper presented

at Observing and Modeling Climate Variability in the Intra-Americas Seas and Impacts on the Continental Americas and the Caribbean Virtual Workshop, US CLIVAR, Virtual. (International)

Misra, V. (presented 2013, November). *Putting Southeast US extreme forecasts in action*. Paper presented at RISA annual conference, NOAA, San Diego, California. (National)

Misra, V. (presented 2013, July). *The Track Integrated Kinetic Energy (TIKE) of Atlantic Tropical Cyclones*. Paper presented at Davos Atmosphere and Cryosphere Assembly, IUGG, Davos, Switzerland. (International)

Kozar, M.^(d), & Misra, V. (presented 2013, May). *Atlantic Warm Pool Climatology within Historical CMIP5 Runs*. Paper presented at SECC-Spring Meeting, SECC, Savannah, Georgia. (Regional)

Misra, V. (presented 2013, January). *Learning to tailor seasonal climate prediction to a stakeholder group in Florida*. Paper presented at RISA annual conference, NOAA, San Diego. (National)

DiNapoli, S., & Misra, V. (presented 2012, November). *FLARes1.0*. Paper presented at SECC Fall planning meeting, SECC, Tifton, Georgia. (Regional)

Misra, V. (presented 2012, November). *New sources of historical and projected climate data*. Paper presented at Southeast Climate Consortium Fall Planning Meeting, SECC, University of Georgia, Tifton. (Regional)

Misra, V. (presented 2012, October). *Florida Climate Institute-Florida State University Seasonal Hindcasts at 50km*. Paper presented at Climate Impacts working group meeting, Florida Water and Climate Alliance, Orlando Utility Corporation, Orlando. (State)

Misra, V. (presented 2012, July). *A perspective on reanalysis*. Paper presented at Department Seminar, Center for Atmospheric Sciences, Indian Institute of Technology, New Delhi, India, New Delhi. (Regional)

Nonrefereed Papers at Symposia

Misra, V., & Bhardwaj, A. (presented 2020, February). A coupled ocean-atmosphere downscaled climate projection for the Peninsular Florida region. In *UF Water Symposium*. Symposium conducted at the meeting of University of Florida, Gainesville, Florida. (State)

Bhardwaj, A., & Misra, V. (presented 2020, February). Understanding the seasonal variations of Peninsular Florida. In *UF Water Symposium*. Symposium conducted at the meeting of

University of Florida, Gainesville, Florida. (State)

Bhardwaj, A.^(p), & Misra, V. (presented 2018, October). Monitoring the Indian Summer Monsoon Evolution using TRMM/GPM. In *Precipitation Measuring Mission Science Team Meeting*. Symposium conducted at the meeting of NASA, Phoenix, Arizona. (National)

Misra, V., Bhardwaj, A.^(p), & Mishra, A.^(p) (presented 2017, November). Local onset and demise of the Indian summer monsoon. In Vincent Moron (Chair), *Sixth International Workshop on Monsoons*. Symposium conducted at the meeting of World Meteorological Organization. (International)

Misra, V., Mishra, A.^(p), & Bhardwaj, A.^(p) (presented 2017, November). The simulation of the intraseasonal variations of the Indian summer monsoon in a regional coupled ocean-atmosphere model. In D. Kim (Chair), *Sixth International Workshop on Monsoons*. Symposium conducted at the meeting of World Meteorological Organization. (International)

Bhardwaj, A.^(p), & Misra, V. (presented 2017, October). Onset and demise days of seasonal rain over peninsular Florida. In *Energy Water Food Nexus*. Symposium conducted at the meeting of Florida A & M University, Orlando. (International)

Invited Keynote and Plenary Presentations at Conferences

Misra, V. (presented 2018, April). *Hydroclimate variations of Peninsular Florida*. Keynote presentation at 2018 Rare Plant Task Force, Fairchild Tropical Botanic Garden, Bok Tower Gardens, and Jacksonville Zoo and Gardens, Jacksonville, Florida. (State)

Misra, V. (presented 2014, November). *Why is regional climate modeling critical for climate change projections?* Keynote presentation at International workshop on risk information on climate change, Japan Agency for Marine Earth Science and Technology, Yokohama, Japan. (International)

Misra, V. (presented 2012, March). *Understanding climate change in the southeast US: (recent) past, present and future*. Keynote presentation at Hydrology of the Everglades in the Context of Climate Change, USGS, Florida Sea Grant, Florida Atlantic University, Boca Raton, Florida. (Regional)

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

Invited Presentations at Conferences

Misra, V. (presented 2015, February). *Southeastern US climate variability and change*. Presentation at 11th Tri-State Row Crop Farmers Climate Meeting, University of Florida and Florida State University, Tallahassee. (Regional)

Invited Presentations at Symposia

Misra, V., & Bhardwaj, A. (presented 2018, April). Impact of urbanization and air-sea interactions on long-term changes to Florida's climate. In James Lange (Chair), *2018 Rare Plant Task Force*. Presentation at the meeting of Jacksonville Zoo and Gardens, Jacksonville, Florida. (State)

Misra, V. (presented 2018, February). Heat related illness in a changing climate and demography of Florida. In Glenn Morris (Chair), *Heat related illness State of the Science meeting*. Presentation at the meeting of The Southeastern Coastal Center for Agricultural Health and Safety, St. Petersburg, Florida. (Regional)

Misra, V. (presented 2014, November). The conundrums of droughts and landfalling tropical cyclones in the southeastern US. In Shelby Krantz (Chair), *International Symposium on Weather and Climate Extremes, Food Security and Biodiversity*. Presentation at the meeting of George Mason University, George Mason University. (International)

Nonrefereed Presentations at Conferences

Misra, V. (presented 2019, October). *A coupled ocean-atmosphere downscaled climate projection for the Peninsular Florida*. Presentation at Annual meeting of the Mexican Geophysical Union, Mexican Geophysical Union, Puerto Vallarta, Mexico. (International)

Laurencin, C.^(u), & Misra, V. (presented 2018, April). *Characterizing the variations of North Atlantic Tropical cyclone motion*. Poster presentation at 33rd conference on hurricanes and tropical meteorology, AMS, Ponte Vedra, Florida. (International)

Misra, V., & Mishra, A.^(p) (presented 2017, February). *Monsoon at 10km*. Presentation at India Monsoon Mission, 2nd PI conference, Ministry of Earth Science, India, Pune, India. (International)

Bowden, J. H., Wootten, A. M., Terando, A., Boyles, R. P., Misra, V., & Bhardwaj, A. (presented 2016, December). *Comparing mid-century climate change projections at convective resolving scales (2-km) for life zones within Puerto Rico*. Presentation at AGU Fall Meeting, AGU, San Francisco. (National)

- Terando, A., Grade, S., Bowden, J., Khalyani, H., Wootten, A., Misra, V., Collazo, J., Gould, W. A., & Boyles, R. (presented 2016, December). *Structural uncertainty of downscaled climate model output in a difficult-to-resolve environment: data sparseness and parameterization error contribution to statistical and dynamical downscaling output in the U.S. Caribbean region*. Poster presentation at AGU Fall meeting, AGU, San Francisco. (National)
- Misra, V. (presented 2016, September). *Findings and recommendations from the IAS virtual workshop*. Presentation at Interagency Group Meeting, US CLIVAR. (National)
- Misra, V., Mishra, A.^(p), & Bhardwaj, A.^(p) (presented 2016, June). *The climate drivers of Florida's hydroclimate variations and change*. Presentation at 27th Annual Florida Lake Management Technical Symposium, Florida Lake Management Society, Daytona Beach. (State)
- Misra, V., Mishra, A.^(p), & Bhardwaj, A.^(p) (presented 2016, May). *Regional coupled ocean-atmosphere simulation of the Indian Monsoon*. *International Conference on Regional Climate*. Presentation at International conference on regional climate, CORDEX, Stockholm, Sweden. (International)
- Misra, V., & Kozar, M. (presented 2016, April). *A statistical prediction scheme for integrated kinetic energy of Atlantic TCs*. Presentation at 32nd Conference on hurricanes and tropical meteorology, AMS, San Juan, Puerto Rico. (National)
- Groenen, D., & Misra, V. (presented 2016, April). *Characterization of the rainy season of Mesoamerica*. Poster presentation at 32nd Conference on Hurricanes and Tropical Meteorology, AMS, San Juan, Puerto Rico. (National)
- Misra, V., & Bhardwaj, A. (presented 2016, February). *The changing wet season of Florida*. Presentation at 5th Water Symposium, University of Florida. (Regional)
- Mishra, A., & Misra, V. (presented 2016, February). *The influence of the neighboring oceans on Florida's climate*. Presentation at 5th Water symposium, University of Florida, Gainesville. (Regional)
- Mishra, A., & Misra, V. (presented 2016, February). *The role of high-resolution air-sea coupling on Indian monsoon*. Poster presentation at Ocean Sciences, AGU, New Orleans. (National)
- Bowden, J. H, A. M. Wootten, A. Terando, R.P. Boyles, V. Misra, and A. Bhardwaj. (presented 2016, January). *Comparing mid-century climate change projections at convective resolving scales (2-km) for life zones within Puerto Rico*. Poster presentation at AMS annual meeting, AMS, New Orleans. (National)

- Wootten, A. W., Bowden, J. H., Misra, V., Stefanova, L., & Boyles, R. P. (presented 2016, January). *How well do high resolution limited area models simulate sub-tropical precipitation? A comparison of high-resolution regional climate model output for Puerto Rico*. Presentation at AMS annual meeting, American Meteorological Society, New Orleans. (National)
- Misra, V., & Mishra, A. (presented 2015, December). *The Challenge of Simulating the Regional Climate over Florida*. Presentation at AGU annual meeting, American Geophysical Union. (National)
- Misra, V. (presented 2015, November). *Predicting Integrated Kinetic Energy of Atlantic Tropical Cyclones*. Presentation at Hurricane Forecast Improvement Project, NOAA, Virtual. (National)
- Misra, V., & Bhardwaj, A. (presented 2015, October). *What is happening to the wet season of Florida?* Poster presentation at Southeast Climate Consortium Fall Meeting-2015, Southeast Climate Consortium, Athens, Georgia. (Regional)
- Misra, V. (presented 2012, May). *Why models project to dry the summers of the southeast US in a future world?* Presentation at Modes of Variability in the Climate System, European Science Foundation, Innsbruck, Austria. (International)
- 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, NCAR, Breckenridge, Colorado. (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, UF/SECC/FCI, Orlando, FL. (International)
- Michael, J. -P.^(d), 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, WCRP, Paris, France. (International)
- Stefanova, L., & Misra, V. (presented 2010, November). *Summer seasonal prediction skill over the southeast US*. Presentation at Fall SECC meeting, SECC, Rosentiel School of Marine Sciences, University of Miami. (Regional)
- 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, NOAA, Raleigh, North Carolina. (National)
- Frumkin, A.^(d), & Misra, V. (presented 2010, October). *Predictability and fidelity of dry season*

dowscaled reforecasts over the tropical South American region. Poster presentation at NOAA 35th Climate diagnostics and prediction workshop, NOAA, Raleigh, North Carolina. (National)

Stroman, A.^(d), & Misra, V. (presented 2010, October). *Rendition of the Atlantic warm pool in the reanalyses.* Poster presentation at NOAA 35th Climate diagnostics and prediction workshop, NOAA, Raleigh, North Carolina. (National)

Moeller, L.^(d), & Misra, V. (presented 2010, October). *Sea breeze variations in Florida.* Presentation at NOAA 35th Climate diagnostics and prediction workshop, NOAA, Raleigh, North Carolina. (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, NOAA, Raleigh, North Carolina. (National)

Pantina, P.^(d), & 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, NOAA, Raleigh, North Carolina. (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, SECC, Raleigh, North Carolina. (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, AMS, Atlanta, GA. (National)

Misra, V. (presented 2009, November). *Does climate change impact Oyster population in the Apalachicola Bay?* Presentation at 3rd Annual workshop on aquatic resources, NSF, Alexandria, Egypt. (International)

Misra, V. (presented 2009, July). *Harvesting model uncertainty for the simulation of interannual variations.* Poster presentation at Advanced Study Program Junior Faculty Forum, NCAR, Boulder, Colorado. (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, NOAA, Tallahassee, FL. (National)

Misra, V. (presented 2007, July). *Multi-scale interactions of the South American Monsoon.* Poster presentation at Celebrating the Monsoons, Indian Institute of Science, Bengaluru, India. (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, WGNE, San Francisco. (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, American Meteorological Society, Foz do Iguacu, Brazil. (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, American Meteorological Society, Foz do Iguacu, Brazil. (International)
- Misra, V. (presented 2005, October). *A Journey to "ENSO" Simulation at COLA*. Presentation at 30th Annual climate diagnostics workshop, State College, NOAA, State College, PA. (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, Penn State University, State College, PA. (National)
- Misra, V. (presented 2005, July). *Addressing the issue of Systematic Errors in RSM*. Presentation at 6th Annual RSM workshop, International research institute for Climate and Society, Palisades, New York. (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 Change, American Meteorological Society, San Diego, CA. (National)
- Misra, V. (presented 2004, July). *Dynamic downscaling of seasonal simulations over South America*. Presentation at 4th International RSM conference, Los Alamos National laboratory, Los Alamos, New Mexico. (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, World Climate Research Program, Baltimore, MD. (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), Brazilian Meteorological Agency, Fortaleza, Brazil. (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, Center for Mathematical modeling and computer simulation, Munnar, India. (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, LBA, Atlanta, GA. (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, American Meteorological Society, Albuquerque, New Mexico. (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 High performance computing center, Maui, Hawaii. (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, NASA, Belem, Brazil. (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, AGU, Washington D. C. (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, American Meteorological Society, Montreal, Canada. (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, CMOS, Montreal, Canada. (National)

Misra, V. (presented 1998, October). *An ensemble strategy for high-resolution regional model forecasts*. Presentation at Tropical Rainfall Measuring Mission Workshop, NASA, Tallahassee, FL. (International)

Nonrefereed Presentations at Symposia

Misra, V. (presented 2020, July). COVID19 & CLIMATE: Tales of two variations. In Karen Schlatter (Chair), *Florida Water and Climate Alliance Webinar*. Presentation at the

meeting of Florida Water and Climate Alliance, Webinar, online. (Regional)

Misra, V., & Bhardwaj, A. ^(p) (presented 2020, February). A coupled ocean-atmosphere downscaled climate projection for the Peninsular Florida region. In Tirusew Asefa (Chair), *Water Symposium*. Presentation at the meeting of University of Florida, Gainesville, Florida. (State)

Nartosky, C. ^(m), & Misra, V. (presented 2020, February). The seasonal predictability of the anomalous rainy seasons of Florida. In *UF Water Symposium*. Poster presentation at the meeting of University of Florida, Gainesville, Florida. (State)

Bhardwaj, A. ^(p), & Misra, V. (presented 2020, February). Understanding the seasonal variations of Peninsular Florida. In Tirusew Asefa (Chair), *UF Water Symposium*. Poster presentation at the meeting of University of Florida, Gainesville, Florida. (State)

Misra, V. (presented 2019, May). The Unique climate variations of Florida and Challenges it poses. In Lisette Staal (Chair), *Florida Water and Climate Alliance Quarterly meeting*. Presentation at the meeting of Florida Water and Climate Alliance, Tampa. (National)

Misra, V., Bhardwaj, A., & Mishra, A. (presented 2017, May). Florida Monsoon? Implications for past reconstructions and future projections. In *FloridaWCA workshop*. Presentation at the meeting of Florida Water and Climate Alliance, Tampa, Florida. (State)

Misra, V. (presented 2012, August). Understanding climate change in the southeast US from (recent) past, present, and future. In Jayantha Obeysekera (Chair), *Climate Science for Ecologists*. Presentation at the meeting of Florida Atlantic University and USGS, Webinar. (State)

Invited Workshops

Misra, V. (2019, December). *State of Climate in Florida*. Workshop delivered at Florida Water and Climate Alliance, Orlando Utility Commission, Orlando, Florida. (State)

Misra, V. (2019, November). *Southeastern Coastal Center for Agricultural Health and Safety Webinar*. Workshop delivered at University of Florida, Webinar, online. (National)

Misra, V. (2019, September). *FloridaWCA Steering Committee Meeting*. Workshop delivered at FloridaWCA, University of Florida, Gainesville. (State)

Misra, V. (2019, July). *2nd CPEX Science Team Meeting*. Workshop delivered at Department of Atmospheric Science, University of Washington, University of Washington, Seattle. (National)

- Misra, V. (2019, July). *Onset of Indian Summer Monsoon: Theory and Prediction*. Workshop delivered at Divecha Center for Climate Change, Bengaluru, India. (International)
- Misra, V. (2019, April). *Development of Unified Rainfall Scenarios for Florida Workshop*. Workshop delivered at Florida International University Sea Level Solutions Center, Ft. Lauderdale. (State)
- Misra, V. (2018, May). *CPEX Science Team Meeting*. Workshop delivered at NASA, Salt Lake City, Utah. (National)
- Misra, V., & Bhardwaj, A. (2018, April). *Impact of urbanization and air-sea interactions on long-term changes to Florida's climate*. Workshop delivered at FloridaWCA, Tallahassee, Florida. (State)
- Misra, V. (2018, April). *Impact of Urbanization and Air-Sea Interactions on Long-Term Changes to Florida's Climate*. Workshop delivered at Florida Water and Climate Alliance, Tallahassee, Florida. (State)
- Misra, V., & Mishra, A. (2015, September). *The sensitivity of regional coupled ocean-atmosphere simulations over the Intra-Americas Seas to the Prescribed Bathymetry*. Workshop delivered at US CLIVAR, Virtual Workshop. (International)
- Misra, V., & Selman, C. (2014, November). *13th International Regional Spectral Model Workshop*. Workshop delivered at Japan agency for marine earth science and technology, Yokohama. (International)
- Misra, V. (2014, November). *Climate Research, Engagement and Tools*. Workshop delivered at Southeast Climate Consortium, Auburn University, Alabama. (Regional)
- Misra, V. (2014, April). *Climate Research: Overview and challenges in the Southeastern US*. Workshop delivered at Board on Atmospheric Sciences and Climate, National Academy of Science, Tallahassee. (Regional)
- Misra, V. (2014, April). *Florida Water and Climate Alliance*. Workshop delivered at University of Florida. (Regional)
- Misra, V. (2012, August). *Oscillation Monsoon in the Current and Future Climate*. Workshop delivered at International Center for Theoretical Physics, Trieste, Italy. (International)

Invited Lectures and Readings of Original Work

- Misra, V. (2019, March). *Local onset and demise of the Indian Summer Monsoon and its relation to intraseasonal oscillations*. Delivered at Indian Institute of Science, Indian Institute of

Science. (International)

- Misra, V., & Bhardwaj, A. (2018, May). *Climate Projection over Florida using a Regional Coupled Ocean-Atmosphere Model*. Delivered at Center for Ocean-Atmospheric Prediction Studies, Center for Ocean-Atmospheric Prediction Studies. (Local)
- Misra, V. (2018, March). *Climate variability and predictability, tropical meteorology, and Indian Monsoon*. Delivered at EOAS Thalassic Society, Graduate Symposium, LOV Building, Room 353. (Local)
- Misra, V. (2017, February). *Monsoon at 10km*. Delivered at Indian Institute of Science, Bangalore, India. (International)
- Misra, V. (2015, June). *A new modeling strategy for prediction of tropical cyclones*. National Center for Medium Range Weather Forecasting. Delivered at National Center for Medium Range Weather Forecasting. (International)
- Misra, V. (2014, August). *An alternative to intensity prediction of tropical cyclones*. Delivered at Center for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bengaluru, India. (International)
- Misra, V. (2014, May). *Getting to reliable climate projections for FWC applications*. Delivered at Florida Fish and Wild Life Commission. (Local)
- Misra, V. (2014, April). *Climate Science accomplishments in SECC*. Delivered at NOAA Climate Program Office. (National)
- Misra, V. (2014, January). *The Intra-American Seas (IAS): What about it?* Delivered at Dept. of Atmospheric Science, University of Illinois at Urbana Champagne. (Local)
- Misra, V. (2013, February). *From Stakeholder needs to cyberinfrastructure capitalization*. Delivered at Center for Atmospheric and Oceanic sciences, Indian Institute of Science, Bengaluru, India. (International)
- Misra, V. (2012, August). *IASCLiP Modeling*. Delivered at US CLIVAR. (National)
- Misra, V. (2012, August). *Understanding climate change in the southeast US from (recent) past, present and future*. Delivered at Florida Atlantic University, Webinar (Tallahassee, Florida). (State)
- Misra, V., & Michael, J. P. (2012, April). *Uncertainties in estimating observed temperature trends in the Southeast US*. Delivered at Southeast Climate Consortium, University of Alabama, Auburn. (Regional)
- 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 Meteorology, Florida State University, Tallahassee, FL. (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. (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 International 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)

Digital Projects

Nonrefereed Digital Projects

Misra, V. (Podcast contributor). (2019, May). *There is no Planet B* [Podcast]. FSU. Retrieved from https://urldefense.proofpoint.com/v2/url?u=http-3A__noplanetb.buzzsprout.com_275179_1053697-2Dclimate-2Dmodeling-2Dan-2Dskepticism&d=DwMFAG&c=HPMtquzZjKY31rtkyGRFnQ&r=Zn3ojI-3mNctwhKOSq7_ZA&m=JPXV_NI

Postdoctoral Supervision

C. B. Jayasankar (Mar 2021–present).

A. Bharadwaj (Apr 2015–Mar 2021).

Karmakar, N. (Feb 2018–Oct 2020).

Dubey, S. (Feb–Jul 2018).

Sahu, D. (Feb–Jun 2018).

Mishra, A. (Jan 2015–Jul 2017).

Li, H. (Jan 2012–Jan 2014).

Bastola, S. (Jan 2011–Oct 2013).

Stefanova, L. (Jan 2010–Dec 2011).

Chan, S. (Oct 2008–May 2010).

Reviews of My Research and Original Creative Work by Other Authors

Reviews Appearing in Journals

- Noska, R. and V. Misra. (2016). Defining the onset and end of the Indian summer monsoon. *Earth and Space Science News*, 97, 3. Retrieved from <https://doi.org/10.1029/2016EO054177>
- Hight, J. (2015). Stressed Water Utilities Begin to Grapple with Climate Change. *Climate Change Business Journal*, VIII, 1-5. Retrieved from <http://ebionline.org/ccbj-archives/3686-ccbj-v8n04-06>
- Barrett, J. R. (2014). Under the weather with Ciguatera Fish Poisoning: Climate variables associated with increases in suspected cases. *Env. Health Persp.*; doi:10.1289/ehp.122-A167, 122, 1-10.
- Misra, V., S. DiNapoli, and M. Powell. (2013). Researchers build new metric for hurricane destruction potential. *Bulletin of American Meteorological Society*, 94, 1128-1129.

Reviews Appearing in Magazines or Newsletters

- Stanley, S. (2016, June). Defining the Onset and End of the Indian Summer Monsoon. *Research Spotlight, EoS*, 97, 1. Retrieved from <https://eos.org/research-spotlights/defining-the-onset-and-end-of-the-indian-summer-monsoon>
- Randall, I. (2015, April). Hurricane rain slows storms up to 30%. *Hurricane rain slows storms up to 30%*, 1-1. Retrieved from <http://www.sciencemag.org/news/2015/04/hurricane-rain-slows-storms-30>
- Iacurci, J. (2014, September). Forecasting Hurricane Strength, Destruction Using New Model. *Forecasting Hurricane Strength, Destruction Using New Model*, 1-1. Retrieved from <http://www.natureworldnews.com/articles/9049/20140916/forecasting-hurricane-strength-destruction-using-new-model.htm>
- Florida State University. (2014, September). New way to predict hurricane strength, destruction. *New way to predict hurricane strength, destruction*, 1-1. Retrieved from <https://www.sciencedaily.com/releases/2014/09/140915114245.htm>

Reviews Appearing on a Web Site

- Misra, V., A. Mishra, A. Bhardwaj, K. Viswanathan and D. Schmutz. (2018). Urbanization Linked To Shorter, Intense Wet Seasons In Florida. *Tech Times*. Retrieved from <http://www.techtimes.com/articles/224830/20180411/urbanization-linked-to-shorter-intense-wet-seasons-in-florida.htm>

- Misra, V., A. Mishra, A. Bhardwaj, K. Viswanathan, and D. Schmutz. (2018). Florida's Urban Areas Are Having Shorter Wet Seasons, New Study Finds. *Weather Channel*. Retrieved from <https://weather.com/news/news/2018-04-11-florida-urban-wet-seasons-shorter>
- Misra, V., A. Mishra, A. Bhardwaj, K. Viswanathan, and D. Schmutz. (2018). Florida's cities are experiencing shorter, more intense wet seasons. *UPI.com*. Retrieved from https://www.upi.com/Science_News/2018/04/09/Floridas-cities-are-experiencing-shorter-more-intense-wet-seasons/5021523304817/
- Misra, V., A. Mishra, A. Bhardwaj, K. Viswanathan, and D. Schmutz. (2018). Urban growth leads to shorter, more intense wet seasons in Florida peninsula. *Science Daily*. Retrieved from <https://www.sciencedaily.com/releases/2018/04/180409120431.htm>
- Misra, V., Mishra, A., Bhardwaj, A., Viswanathan, K. and Schmutz, D. (2018). FSU researchers: Urban growth leads to more intense wet seasons. *Tallahassee Democrat*. Retrieved from <https://www.tallahassee.com/story/life/causes/2018/04/16/fsu-researchers-urban-growth-leads-shorter-intense-wet-seasons/33878901/>
- Kozar, M. and V. Misra. (2014). Forecasting hurricane strength, destruction using new model. *Nature World News*. Retrieved from <http://www.natureworldnews.com/articles/9049/20140916/forecasting-hurricane-strength-destruction-using-new-model.htm>
- Misra, V. (2012). Spotlight Feature Article. *Florida's fragile oasis*. Retrieved from http://www.oar.noaa.gov/spotlite/archive/2012/articles/fragile_oasis/fragile_oasis.html

Additional Research or Original Creative Work Not Reported Elsewhere

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

Service

Florida State University

FSU University Service

Member, Graduate Policy Committee (2019–present).

Member, GPC subcommittee for review Chemical Engineering (2019).

FSU Department Service

Member, EOAS Environmental Science (BS/BA) Curriculum Committee (2019–present).

Member, Post-doc committee (2017–present).

Member, Environmental Science graduate program (2015–present).

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

Member, EOAS Chair Search Committee (2018–2019).

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

Member, Meteorology graduate admissions and curriculum committee (2009–2010).

FSU Institute or Center Service

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

Executive committee member, Florida Water and Climate Alliance (2010–present).

Chair, Promotion committee (COAPS) (2019).

Chair, Promotion Committee (COAPS) (2018).

Member, Promotion Committee (COAPS) (2017).

Moderator, Florida Climate Institute and FSU's Sustainable Campus (2017).

Member of the climate scenarios working group, State University System Climate change workshop (2011–2014).

Chair, AR5 task force, Florida Climate Institute (2010–2014).

FSU Program Service

Member, Meteorology graduate admission and curriculum committee (2018–present).

member, Meteorology undergraduate curriculum committee (2018–present).

Chair, Meteorology graduate admissions and curriculum committee (2016–2018).

Co-chair, Meteorology faculty meeting (2017).

The Profession

Guest Editing for Refereed Journals

Misra, V. (Ed.). (2012, January). Multi-disciplinary assessment of the Southeast US climate [Special Issue]. *Regional Environmental Change*.

Guest Reviewer for Refereed Journals

Journal of Atmospheric Sciences (2005–present).

Journal of Hydrometeorology (2005–present).

Mausam (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).

Geophysical Research (Oceans) (1997–present).

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

Monthly Weather Review (1997–present).

Clim. Dyn.: 4 papers (Jan–Dec 2020).

Geophysical Research Letters: 2 papers (Jan–Dec 2020).

Int. J. Climatol.: 4 papers (Jan–Dec 2020).

J. Climate: 2 papers (Jan–Dec 2020).

J. Earth Sys. Sci.: 1 paper (Jan–Dec 2020).

J. Geophys. Res.: 1 paper (Jan–Dec 2020).

Ocn. Dyn.: 1 paper (Jan–Dec 2020).

Climate Dynamics.: 2 papers (Jan–Dec 2019).

Deep Sea Research: 1 paper (Jan–Dec 2019).

Frontiers: 1 paper (Jan–Dec 2019).

Geophysical Research Letters: 1 paper (Jan–Dec 2019).

International Journal of Climatology: 4 papers (Jan–Dec 2019).

Journal of Geophysical Research (Atmospheres): 1 paper (Jan–Dec 2019).

Quarterly Journal of Royal Meteorological Society: 1 paper (Jan–Dec 2019).

Scientific Reports: 1 paper (Jan–Dec 2019).

Anais da Academia Brasileira de Ciencias: 1 paper (Jan–Dec 2018).

Atmospheric and Oceanic Science Letters: 1 paper (Jan–Dec 2018).

Climate Dynamics: 1 paper (Jan–Dec 2018).

Journal of Applied Meteorology and Climatology: 1 paper (Jan–Dec 2018).

Journal of Climate: 3 papers (Jan–Dec 2018).

Journal of Geophysical Research (Atmospheres): 1 paper (Jan–Dec 2018).

Journal of Hydrometeorology: 1 paper (Jan–Dec 2018).

Meteorology and Atmospheric Physics: 1 paper (Jan–Dec 2018).

Natural Hazards: 1 paper (Jan–Dec 2018).

PLOS ONE: 1 paper (Jan–Dec 2018).

The Professional Geographer: 1 paper (Jan–Dec 2018).

Climate Dynamics: 3 papers (Jan–Dec 2017).

Geophysical Research Letters: 1 paper (Jan–Dec 2017).

Hydrology and Earth System Sciences: 1 paper (Jan–Dec 2017).

International Journal of Climatology: 3 papers (Jan–Dec 2017).

Journal of Geophysical Research (Atmospheres): 2 papers (Jan–Dec 2017).

Quarterly Journal of royal Meteorological Society: 1 paper (Jan–Dec 2017).

Climate Dynamics: 2 papers (2017).

J. Geophys. Res. (Atmospheres): 1 paper (2017).

Tellus: 2 papers (2017).

Climate Dynamics: 1 paper (2016).

Environment Research Letters: 1 paper (2016).

JGR (Atmosphere) (2016).

JGR (Oceans) (2016).

Journal of Climate: 1 paper (2016).

Oceanography: 1 paper (2016).

Weather and Forecasting: 1 paper (2016).

Climate Dynamics: 3 papers (2015).

International Journal of Climatology: 1 paper (2015).

Journal of Climate: 4 papers (2015).

Journal of Hydrometeorology: 1 paper (2015).

Advances in Meteorology: 1 paper (2014).

Climate Dynamics: 2 papers (2014).

Climate: 1 paper (2014).

Environment Research Letters: 1 paper (2014).

Geophysical Research Letters: 2 papers (2014).

International journal of climatology: 1 paper (2014).

JGR (Atmosphere) (2014).

Journal of Climate: 1 paper (2014).

Scientific Online Letters on the Atmosphere: 1 paper (2014).

Reviewer for Textbooks

Modeling uncertainty in the Earth Sciences (2012–present).

Chair of a Symposium

Misra, V. (Chair). (2021, January). *34th conference on climate variability and change, Session: Monsoon Dynamics: Variability, Change, and Impacts*. Symposium conducted at the meeting of American Meteorological Society, Webinar, online.

Misra, V. (Chair). (2006, April). *Program committee of the 8th Southern Hemisphere on Meteorology and Oceanography*. Symposium conducted at the meeting of American Meteorological Society, Foz du Iguazu, Brazil.

Reviewer or Panelist for Grant Applications

National Science Foundation: 1 proposal (2019).

National Science Foundation: 1 proposal (2018).

Natural Environment Research Council: 1 proposal (2018).

NSF: 1 proposal (2017).

NOAA(8 proposals) (2017).

National commission for Scientific and Technological Research, Costa Rica (1 proposal) (2014).

NOAA14 proposals) (2014).

Natural Environment Research Council (NERC), UK (1 proposal) (2014).

NOAA (2011).

NSF (2011).

NOAA (2006).

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, Florida Water and Climate Alliance (2010–present).

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

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

Co-Lead, NOAA Modeling Task Force, Lead and chart the modeling activities sponsored by NOAA in the Nation for seasonal to interannual time scales, NOAA (2012–2015).

Steering Committee member, Intra-Americas Study of CLimate Processes (IASCLiP) (2008–2015).

Member of the modeling and data assimilation group, Monsoon Experiment in South America (MESA) (2007–2013).

Meteorological board member, University of California Davis-Lawrence Livermore National Laboratory, Point of Care Technologies (2009–2012).

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

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

Interviews

Zack Boehm. (2018, February). FSU Researchers: Florida's climate is changing, and we should all take notice. *Florida State University News* [Weblog]. Retrieved from <https://news.fsu.edu/news/science-technology/2018/02/06/fsu-researchers-floridas-climate->

changing-take-notice/

Claudia Mendoza. (2018, February). Climate Change and What we can do as residents to take care of our state. *Brian Mudd Show on News Radio 610 WIOD* [Radio Interview].

Jennifer Meyer. (2017, June). Paris Climate Agreement. *WTVX TV ABC27 News* [Television]. Retrieved from http://www.wtxl.com/news/tallahassee-residents-weigh-in-on-u-s-paris-agreement-pull/article_bc0dcff0-47db-11e7-9389-4beccb43b852.html

Service to Other Universities

Member of Governance Committee Task Group, *University Center for Atmospheric Research* (2012–2015).

The Community

Chair, Intra-Americas Seas Climate Processes Program (2015–present).

Executive Member, Florida Climate Institute (2014–present).

Executive member, Meets twice a month on teleconference to discuss collaborations, recent scientific and policy developments with utilities and water management districts in Florida, Florida Water and Climate Alliance (2010–present).

Steering Committee Member, Ecology of the Everglades in the Context of Climate Change, USGS, FAU, Florida Sea Grant (2012–2016).

Steering committee member, Hydrology of the Everglades in the context of climate change, USGS (2011–2016).

Executive member, 1. Was joint PI of this Consortium with PI's from other universities 2. Made decisions on personnel of the consortium and funding decisions on collaborating universities, Southeast Climate Consortium (2010–2015).

Additional Service Not Reported Elsewhere

Misra, V. (2020). *Hosted Congresswoman Kathy Castor (Chair of the House Select Committee on Climate Crisis)*. Department of Earth, Ocean and Atmospheric Science, Florida State University.

Misra, V. (2019). *Review of Ph. D. dissertation from Pune University, India*.

Misra, V. (2019–2020). *M.S. and Ph. D. exam - 4 students*. Meteorology program, EOAS & GFDL.

Misra, V. (2018–2019). *M. S. and Ph. D. exam - 5 students*. Meteorology program, EOAS.

Misra, V. (2016–2017). *M. S. and Ph. D. Exam - 4 students*. Meteorology program, EOAS.

Award nomination

Misra, V. (2016). *Nominated for undergraduate teaching award*. FSU.

High school intern mentoring

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

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

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

Misra, V. (2006). *Directed George Moomau (high school intern)*. Blair magnet research program (Maryland).

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

Letters of recommendation

Misra, V. (2019). *Letters of recommendation for undergraduates, graduate students, post-docs and legal aliens for green card residency: 27 letters*.

Misra, V. (2018). *14 letters for undergraduate, graduate students, and research scientists*.

Misra, V. (2017). *10 letters for undergraduate, graduate students and research scientists*.

Misra, V. (2016). *22 letters including for undergraduate, graduate students and research scientists*.

Misra, V. (2015). *7 letters for undergraduate and graduate students*.

Misra, V. (2014). *11 letters for undergraduate and graduate students*.

Media reports

- Misra, V. (2019). *NASA proposal award*: <https://news.fsu.edu/news/science-technology/2019/05/15/nasa-awards-researchers-1-7m-grant-to-develop-tools-to-help-florida-water-utilities-allocate-resources/>. FSU news.
- Misra, V. (2019). *NASA proposal award*: <https://www.tallahassee.com/story/news/local/famu-news/2019/05/20/campus-notes-florida-state-university-researchers-share-nasa-study-award/3687631002/>. Tallahassee Democrat.

Radio show

- Misra, V. (2011–2012). *Directed Environmental Minute (broadcast on WFSU channel)*. <https://floridaclimateinstitute.org/resources/environmental-minute>.

- (p) Post Doc contributor.
- (m) Master's student contributor.
- (u) Undergraduate student contributor.
- (x) Professional student contributor.
- (d) Doctoral student contributor.