

Curriculum Vitae
David K. Adams

Centro de Ciencias de la Atmósfera
Universidad Nacional Autónoma de México
Mexico D.F., Mexico
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Birthdate/Birthplace
April 9th, 1967
Riverside, California, USA

RESEARCH INTERESTS

Atmospheric Convection, Atmospheric Thermodynamics, GPS/GNSS Meteorology, Tropical Meteorology

EDUCATION

BA (1992) University of California, Berkeley
MA (1995) University of Arizona
Ph.D. (2003) University of Arizona
PostDoc (2003-2004) Center for Atmospheric Sciences, Scripps Institution of Oceanography, University of California, San Diego.

PROFESSIONAL EXPERIENCE

Professor Titular A de Tiempo Completo(2012 - Present) -- Centro de Ciencias de la Atmósfera
Universidad Nacional Autónoma de México, Mexico City, Mexico.

Affiliate (2012 - present) Department of Atmospheric Sciences, Institute of Atmospheric Physics
University of Arizona, Tucson, Arizona, U.S.A.

Research Professor (Fall 2007 - 2013) -- Program of Climate and Environment, Universidade do
Estado do Amazonas/Instituto Nacional de Pesquisa da Amazônia, Manaus, Amazonas, Brazil.

Visiting Professor (Spring 2006) -- Department of Atmospheric Sciences,
Universidade Federal de Campina Grande, Campina Grande, Paraíba, Brazil.

Instructor (2005) -- Southwestern College, School of Mathematics, Science and Engineering.
Chula Vista, California, U.S.A.

PUBLICATIONS

** (Indicates my student or where I served on graduate committee)

- Thang M. Luong, T. M. C. L. Castro, H. Chang, Timothy Lahmers, David K. Adams, and Carlos A. Ochoa-Moya, 2017: The More Extreme Nature of North American Monsoon Precipitation in the Southwestern U.S. as Revealed by a Historical Climatology of Simulated Severe Weather Events, *Journal of Applied Meteorology and Climatology*, <https://doi.org/10.1175/JAMC-D-16-0358.1>
- Adams, D. K., H. M. J. Barbosa and K. De Los Rios, 2017**: A spatiotemporal water vapor/deep convection correlation metric derived from the Amazon Dense GNSS Meteorological Network, *Mon. Wea. Rev.*, **145**, 279–288
- Lintner, B. D.K. Adams, K. A. Schiro, A. Stansfield, A. da Rocha**, and J. D. Neelin, 2017: Relationships among climatological moisture vertical structure, column water vapor, and precipitation over the central Amazon in observations and CMIP5 models, *Geophysical Research Letters*, **44**, doi:10.1002/2016GL071923.
- Schiro, K. A., J. D. Neelin, D. K. Adams, and B. R. Lintner, 2016: Deep Convection and Column Water Vapor over Tropical Land vs. Tropical Ocean: A comparison between the Amazon and the Tropical Western Pacific. *Journal of the Atmospheric Sciences*, **73**, 4043-4063.
- Minjarez-Sosa, Carlos M., Christopher L. Castro, Kenneth L. Cummins, Julio Waismann and David K. Adams, 2017: An improved QPE Over Complex Terrain Employing Cloud to Ground Lightning Occurrences. *Journal of Applied Meteorology and Climatology*, **56**, 2489–2507
- Caro Borrero**, Carmona Jiménez, J. Varley, A, de Garay-Arellano, G., Mazari Hiriart, M., Adams, D.K. 2017 : The potential of local and scientific ecological knowledge as a source of information in a periurban sub-basin: a case study from Mexico City. *Journal of Applied Ecology and Environmental Research*, **15 (1)**: 541 - 562
- Mazon, Jeremy J. , Christopher L. Castro, David K. Adams, Hsin-I Chang, Carlos M. Carrillo, and John J Brost, 2016: Objective Climatological Analysis of Extreme Weather Events in Arizona during the North American Monsoon, *Journal of Applied Meteorology and Climatology*, **55**, 2431-2450. DOI: <http://dx.doi.org/10.1175/JAMC-D-16-0075.1>.
- Lahmers, Timothy M., Christopher L. Castro, David K. Adams, Yolande L. Serra, John J. Brost, Thang Luong, 2016: Long-term changes in the climatology of transient inverted troughs over the North American Monsoon region and their effects on precipitation, *Journal of Climate*, **29**, 6037-6064. doi:10.1175/JCLI-D-15-0726.1
- Serra, Yolande, David K. Adams, Carlos Minjarez-Sosa, Christopher Castro, James M. Moker Jr**, Avelino Arellano, Arturo Quintanar, L. Alatorre, A. Granados, E. Vazquez, Kirk Holub and Charles DeMets, 2016: The North American Monsoon GPS Transect Experiment 2013, *Bull. Amer. Meteor. Soc.* doi:10.1175/BAMS-D-14-00250.1
- Granados-Olivas, A., C. Eastoe, L. C. Alatorre-Cejudo, D. Adams, Y. L. Serra, V. H. Esquivel-Ceballos, F. A. Vázquez-Gálvez, M. E. Giner, 2016: Induced Aquifer Recharge Using Green Infrastructure in Ciudad Juarez, Chihuahua Mexico: Policy for Potential Solutions to Small

Scale Flooding, *Journal of Contemporary Water Research and Education*, **159**, 50-61

Peralta, O., D. Adams, T. Castro, M. Grutter, and A. Varela (2016), Mexico's University Network of Atmospheric Observatories, *Eos*, **97**, doi:10.1029/2016EO045273.

Adams, D. K., A. Q. Isaias, and C. Lizárraga (2016), The North American monsoon: Models versus observations, *Eos*, **97**, doi:10.1029/2016EO043151.

Serra, Yolande, John Braun, David K. Adams, 2016: Observing the Intra-Americas Sea Climate: Existing and Emerging Technologies, *CLIVAR Exchanges*, **14(1)**, 1-10.
https://usclivar.org/sites/default/files/documents/2016/Variations2016Winter_0.pdf

Alatorre Luis Carlos, Salvador Sánchez, Sonia Miramontes, Ramiro Medina, María Torres, Luis Bravo, Lara Wiebe, Alfredo Granados, David Adams, Erick Sánchez, Mario Uc: 2016, Temporal Changes of NDVI for Qualitative Environmental Assessment of Mangroves: Shrimp Farming Impact on the Health Decline of the Arid Mangroves in the Gulf of California (1990-2010), *Journal of Arid Environments*, **125**, 98 -109

Moreno-Rodríguez, V., Rafael Del Rio-Salas, David K. Adams, Lucas Ochoa-Landin, Joel Zepeda, Agustín Gómez-Alvarez, Juan Palafox-Reyes, Diana Meza-Figueroa, 2015: Historical trends and sources of TSP in a Sonoran desert city: Can the North America Monsoon enhance dust emissions?, *Atmospheric Environment*, **110**, 111-121.
<http://dx.doi.org/10.1016/j.atmosenv.2015.03.049>.

Adams, D. K., Rui M. S. Fernandes, Kirk L. Holub, Seth I. Gutman, Henrique M. J. Barbosa, Luiz A. T. Machado, Alan J. P. Calheiros, Richard A. Bennett, E. Robert Kursinski, Luiz F. Sapucci, Charles DeMets, Glayson F. B. Chagas, Ave Arellano, Naziano Filizola, Alciélío A. Amorim Rocha**, Rosimeire Araújo Silva, Lilia M. F. Assunção, Glauber G. Cirino, Theotonio Pauliquevis, Bruno T. T. Portela, André Sá, Jeanne M. de Sousa, and Ludmila M. S. Tanaka, The Amazon Dense GNSS Meteorological Network: A New Approach for Examining Water Vapor and Deep Convection Interactions in the Tropics. *Bull. Amer. Meteor. Soc.*, **96**, 2151–2165. doi: <http://dx.doi.org/10.1175/BAMS-D-13-00171.1>

Machado, Luiz A.T., Maria A. F. Silva Dias, Carlos Morales, Gilberto Fisch, Daniel Vila, Rachel Albrecht, Steven J. Goodman, Alan J. P. Calheiros, Thiago Biscaro, Christian Kummerow, Julia Cohen, David Fitzjarrald, Ernani L. Nascimento, Meiry S. Sakamoto, Christopher Cunningham, Jean-Pierre Chaboureau, Walter A. Petersen, David K. Adams, Luca Baldini, Carlos F. Angelis, Luiz F. Sapucci, Paola Salio, Henrique M. J. Barbosa, Eduardo Landulfo, Rodrigo A. F. Souza, Richard J. Blakeslee, Jeffrey Bailey, Saulo Freitas, Wagner F. A. Lima, and Ali Tokay, 2014: The Chuva Project: How Does Convection Vary across Brazil?. *Bull. Amer. Meteor. Soc.*, **95**, 1365–1380. doi: <http://dx.doi.org/10.1175/BAMS-D-13-00084.1>

Cirino, G. G.** , R. F. Souza, D. K. Adams, and P. Artaxo, 2014: The effect of atmospheric aerosol particles and clouds on Net Ecosystem Exchange in Amazonia, *Atmos. Chem. Phys.*, **14**, 6523-6543, 2014. www.atmos-chem-phys.net/14/6523/2014/doi:10.5194/acp-14-6523-2014

Celaya, C. L., D. K. Adams and A. Q. Isaias (2014), Climate Variability in Northwestern Mexico, *Eos Transactions*, **95(9)**, 81.

Adams, D.K., Carlos Minjarez, Yolande Serra, Arturo Quintanar, Luis Alatorre, Alfredo Granados E. Vázquez, J. Braun, 2014, Mexican GPS Track North American Monsoon Convection, *Eos Transactions*, **95**, 61-62

++Adams, D. K. , S. Gutman, K. Holub and D. Pereira**, 2013: GNSS Observations of Deep Convective timescales in the Amazon, 2013: *Geophysical Research Letters*, **40**,1-6,doi:10.1002/grl.50573

Abouchami W., K. Näthe, A. Kumar, S. Galer, K. Jochum, M. Andreae, E. Williams, A. Horbe, J. Rosa, W. Balsam, D. Adams, K. Mezger, 2013: Geochemical and isotope signatures of the Bodélé Depression and Amazon Basin sediments: implication for dust transport in and out of Africa, *Earth Surface Processes and Landforms*, **380**, 112–123.

Adams, D. K., R. Fernandes and J. Maia, 2011: GNSS Precipitable Water Vapor from an Amazonian Rain Forest Flux Tower, *J. Atmos. Oceanic Technol.*, **28**, 1192–1198.

Adams, D. K., R. Fernandes, E. R. Kursinski, J. Maia, L. Sapucci, L. Machado, I. Vitorello, K. Holub, S. Gutman, Naziano Filizola, R. Bennett, 2011: A Dense GNSS Meteorological Network for Observing Deep Convection in the Amazon, *Atmospheric Science Letters*, **12**, 207–212. doi: 10.1002/asl.312

Adams, D. K. and E. Souza, 2009: CAPE and Convective Events over the Southwest U.S. during the North American Monsoon. *Mon. Wea. Rev.* **137**, 83-98.

Adams, D. K., E. Souza and A. Costa, 2009: Moist Convection in Amazonia: Implications for Numerical Modeling (in Portuguese). *Revista Brasileira de Meteorologia*, **13**, 168-178.

Kursinski, E. R. , D. K. Adams and M. Leuthold, 2008: GPS Observations of Precipitable Water and Implications for the Predictability of Precipitation during the North American Monsoon. *CLIVAR Exchanges*, **45**, 13-21.

Adams, D. K. and N. O. Rennó, 2005: Thermodynamic Efficiency of an Idealized General Circulation Model. *Climate Dynamics*, **25**, 801-813. DOI 10.1007/s00382-005-0071-y

Adams, D. K. and N. O. Rennó, 2003: Remarks on Arakawa-Schubert's quasi-equilibrium theory. *Journal of the Atmospheric Sciences*, **60**, 178-181.

Adams, D. K. and N. O. Rennó, 2003: Reply. *Journal of the Atmospheric Sciences*, **60**, 2344-2345.

Rennó, N.O. and D. K. Adams, 2000: The Convective Heat Engine. Recent Research *Developments in Atmospheric Science*, **1**, 1-14.

Adams, D. K. and A. C. Comrie, 1997: The North American Monsoon. *Bulletin of the American Meteorological Society*, **78**, 2197-2213.

++ (Research Spotlight, AGU Eos Transactions, Vol. 94, No. 36, 3 September 2013)

FUNDED RESEARCH and SCIENTIFIC COLLABORATIONS

Observing and Understanding Processes Affecting the Propagation of Intraseasonal Oscillations in the Maritime Continent Region

NOAA Climate Variability and Predictability Program (CVP) (Zhiming Kuang, Harvard University, P.I.)

Responsibility: Collaborating Researcher

Period 2017-2019

Collaborative use of GPS meteorology for understanding large to small-scale water vapor/deep convection interactions in the southwestern US and Mexico.

UC-MEXUS Grants (CONACyT and the University of California)

Responsibility: Co-Principal Investigator

Co-Pi. J. Haase, Scripps Institution of Oceanography, UCSD

Co-Pi. Y. Bock, Scripps Institution of Oceanography, UCSD

Period: 2015-2017

Shallow-to-Deep Convective Transition in the Amazon

U.S. Department of Energy Grant: DE-SC0016222 (Yolande Serra, University of Washington, P.I.)

Responsibility: Collaborating Researcher

Period 2015-2017

Fuentes de Humedad Terrestres versus Oceánicas en la Convección Monzónica:

Una Nueva Mirada a un Viejo Problema

Responsibility: Principal Investigator

Funding Organization: Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica, IA100916, UNAM

Period: 2015-2017

Impact of Total Column Water Vapor Measurements on Short- to Medium-Range Forecasts of the North American Monsoon Precipitation (NSF AGS-1261226 Y. Serra, University of Washington, P.I.)

Responsibility: Collaborating Researcher

Period: 2013-2015

TLALOCNet - Development of a continuous GPS-MET array in Mexico for atmospheric, climatic, and seismotectonic research in the Americas (NSF MRI: 1338091, Meghan Miller, Enrique Cabral-Cano, Glen Mattioli, Yolande Serra, Charles DeMets)

Responsibility: Collaborating Researcher

Funding Organization: National Science Foundation, USA.

Period: 2013-2017

Study of Mesoscale Convective Systems in Mexico using GPS Technology

Responsibility: Principal Investigator

Funding Organization: Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica, IA101913, UNAM

Period: 2013-2014

Development of a Dense GNSS Meteorological Network for Observing Deep Convection in the Amazon (2010-2012)

Responsibility: Investigator

In Collaboration with Funded Project:

Rede Temática de Estudos Geotectônicos

Sistema Integrado de Posicionamento GNSS para Estudos Geodinâmicos

Funding Organization: Petrobras, Brazil

Principal Investigator: Ícaro Vitorello, INPE, Brazil

Informações de GPS derivadas da Água Precipitável na Amazônia (2008-2009)

Responsibility: Principal Investigator

Funding Organization: INPA/LBA, Manaus, Brazil

Global Precipitation Measurements-CHUVA, Brazil (2010-2013)

<http://gpmchuva.cptec.inpe.br/>

Responsibility: Collaborating Researcher

Activity: Water Vapor Measurements Using GNSS

Campaign Period: 2010-2014

Courses Taught

Tropical Meteorology (Undergraduate)

Atmospheric Systems (Undergraduate)

Atmospheric Thermodynamics (Master's/Ph.D level)

Atmospheric Convection (Master's/Ph.D level)

Dynamic Meteorology (Master's/Ph.D level)

ALUMNOS GRADUADOS

Master's Degree

Antônio Alciélio Amorim da Rocha, 2010 (CLIAMB, INPA/UEA, Brazil)

Omar Ramos Pérez 2016 (UNAM, Mexico)

Bachelor's Degree

Diana Islas Flores 2017 (UNAM, Mexico)

CURRENT STUDENTS

PhD Degree

Omar Ramos Pérez (expected graduation 2019) (UNAM, Mexico)

Master's Degree

Maria Isabel González Garcia (expected graduation 2018) (UNAM, Mexico)

Karen De Los Rios (expected graduation 2018) (UNAM, Mexico)

Alfredo Valdez (expected graduation 2018) (UNAM, Mexico)

Undergraduate Degree

Diana Islas (expected graduation 2017) (UNAM, Mexico)

Lourdes Fierro (expected graduation 2017) (UNAM, Mexico)

René Ortega (expected graduation 2017) (IPN, Mexico)

Conference Presentations, Seminars, Invited Talks

(2012 - 2017)

Adams, D.K., *Applications of the GPS Technique to Studies of Tropical Deep Convection*, Socorro, New Mexico Tech, Departmental Seminar March 2017

Adams, D. K., *Fuentes de humedad terrestres versus oceánicas en la convección monzónica: una nueva mirada a un viejo problema*. UACJ, Ciudad Juárez, Chihuahua, March 2017 (Departmental Seminar)

Adams, D. K., *Terrestrial versus Oceanic Source of Water Vapor for Monsoon Convection: A New Look at an Old Problem*. University of Arizona, Tucson, Arizona, USA March 2017

Adams, D. K., *Fuentes de humedad terrestres versus oceánicas en la convección monzónica: una nueva mirada a un viejo problema*. CICESE, Ensenada, Baja California, March 2017 (Invited Talk)

2016 Fall Meeting of the American Geophysical Union

Serra, Y. L., A. Rowe, D. K. Adams, H. M. Barbosa and G. Kiladis, *The Role of Intraseasonal Variability in Supporting the Shallow-to-Deep Transition in the Amazon*, San Francisco U.S.A., December, 2016

2016 Fall Meeting of the American Geophysical Union

Adams, D.K., H. M. Barbosa, *A Spatiotemporal water vapor/deep convection correlation metric derived from the Amazon Dense GNSS Meteorological Network*, San Francisco U.S.A., December, 2016

2016 Reunión Anual de la Unión Geofísica Mexicana

Adams, D.K., Arturo Quintanar, Carlos Ochoa, *Metrics for Models of all Resolutions from Global to Large Eddy Simulations Unión*, Puerto Vallarta, Mexico, 1-6 November, 2016

UC_MEXUS 2cd Meeting, Centro de Ciencias de la Atmósfera, UNAM,

Ciudad de México 6-18 de August, 2016 (Organizador con J. Haase y Y. Bock)

2016 COCONet Workshop Results, Sustainability, & Capacity Building Workshop

COCONet as a backbone network for the study of Central American land-based convective processes and large-scale water vapor transport for the North American Monsoon, Punta Cana, Republica Dominicana, May 3-5, 2016 (Invited)

Adams, D. K., *The shallow-to-deep convection transition over land*, Webinar for the Department of Earth, Environmental and Planetary Sciences, Brown University, Providence Rhode Island, USA, 26 de May, 2016.

Invited Talk to the Sociedad de Alumnos de Geofísica de la Facultad de Ingeniería, UNAM, Cd. de México, 25 de May, 2016

Adams, D. K. , Fenómena de Convección Atmosférica, Escuela Nacional Preparatoria, Plantel 3 "Justo Sierra", 2 de May, 2016

UC_MEXUS Meeting, Scripps Institution of Oceanography, University of California San Diego, La Jolla, California, April 21-22, 2016 (Event Organizer w/ J. Haase and Y. Bock)

Adams, D. K. , Fenómena de Convección Atmosférica, Plantel 6 Antonio Caso, Escuela Nacional Preparatoria, México, D.F., 3 ee March, 2016

96th Meeting of the American Meteorological Society, New Orleans, U.S.A.
Pauliquevis, T., H.M.J. Barbosa, C.C. Alves, N. M. E. Rosario, L. V. Rizzo, A. Correia, D. K. Adams, and A. J. P. Calheiros, *Micro and Macrophysical Characteristics of Non-precipitating Morning Shallow Clouds in Central Amazonia Using One-year of Data from Goamazon 2014/15 Experiment*, New Orleans, enero. 2016

2015 Fall Meeting of the American Geophysical Union
Castro, C. L. , Tim Lahmers , Yolande L Serra , John Brost , Thang Manh Luong and David K. Adams, *Assessment of the Long-Term Trends of Transient Inverted Troughs within the North American Monsoon Region: Mechanisms and Implications for Warm Season Precipitation*, San Francisco U.S.A., December, 2015

2015 Fall Meeting of the American Geophysical Union
Adams, D. K., *Tropical Continental Convection (Amazonia and the North American Monsoon): Unique Observations from GPS Meteorological Networks*, San Francisco U.S.A., December, 2015

2015 Fall Meeting of the American Geophysical Union
Ochoa, Carlos, Arturo Quintanar, David Adams, Benjamin Martinez Lopez, *Simulation of the Diurnal Cycle of Integrated Precipitable Water in the North American Monsoon Region*. San Francisco U.S.A., December, 2015

2015 Fall Meeting of the American Geophysical Union
Quintanar, Arturo, Carlos Ochoa, David Adams, Benjamin Martinez-Lopez, Alejandro Campos-Solorzano, *Thermodynamic Characteristics of Intense Convective Events Over the Mexico City Valley*, San Francisco U.S.A., December, 2015

2015 Fall Meeting of the American Geophysical Union
Pauliquevis, Theotonio, Henrique Barbosa, Nilton Rosario, Luciana Rizzo, Alexandre Correia, David Adams, Alan James Calheiros, *Microphysical And Macrophysical Characteristics Of Non-Precipitating Morning Shallow Clouds In Central Amazonia Using One-Year Of Data From GOAMAZON 2014/15 Experiment*, San Francisco U.S.A., December, 2015

2015 Fall Meeting of the American Geophysical Union
Feaux, Karl, David Adams, John Braun, Enrique Cabral-Cano, Korey Dausz, Stephen Dittman, Michael Fend, John Galetzka, Glen Mattioli, M Meghan Miller, James Normandeau, Luis Salazar-Tlaczani, John Sandru, Yolande Serra , Guoquan Wang, COCONet and TLALOCNet: *Multi-hazard GNSS/Met Observatories, Enhancing Geodetic Infrastructure and the Scientific Community in Mexico and the Caribbean* San Francisco EEUU, December, 2015

2015 Reunión Anual de la Unión Geofísica Mexicana

Adams, D.K. C. Ochoa, A. Quintanar, E. Vivoni, *GPS Techniques for Studying Atmospheric Convection and Biosphere-atmosphere Interactions during the North American Monsoon*. Unión Geofísica Mexicana, Puerto Vallarta, Mexico, 2-7 November, 2015

Adams, D.K., *GPS Meteorología: Avances con un Nuevo Sistema para el Estudio del Clima y la Meteorología en México* XXI Congreso Nacional de la Sociedad Latinoamericana de Percepción Remota y Sistemas de Información Espacial. Ciudad Juárez, Chih. 12-16 de October, 2015 (Invited)

Adams, D. K. *GPS Meteorological Networks for Process-Oriented Studies of Tropical Deep Convection*. 2015 IASCLIP Virtual Workshop, US CLIVAR, 9 - 11 de September 2015

Adams, D. K. *Advances in NAM Research: Collaborative efforts between the UNAM and UA*. UNAM@UA for the inauguration of the Center for Mexican Studies at Tucson of the National University of Mexico (UNAM). Tucson, AZ, U.S.A., September 2015 (Invited)

Adams, D. K., *Tropical Convection: Unique Observations from GPS Meteorological Networks in Mexico and Amazonia*. Department of Environmental Sciences Rutgers, The State University of New Jersey, New Brunswick, New Jersey U.S.A., September 2015 (Invited)

Adams, D. K., *Precipitable Water Vapor, the Critical Variable of Tropical Deep Convection*. Tercer Encuentro de Climatología Regional del Noroeste de México, Mexico D.F., junio 2015

Adams, D. K., *Tormentas Severas: ¿Por qué se forman?*, Programa de Estaciones Meteorológicas de Bachillerato Universitario. UNAM, México, D.F. julio, 2015

Meza Figueroa, D., V. Moreno, R. Del Rio, D. K. Adams, L. Ochoa, J. Zepeda, A. Gómez, J. Palafox, *Effect of the North American Monsoon in Dust Emission: Implications for Environment and Health*. Congreso Internacional de Ingeniería Ambiental, Hermosillo, Sonora May 2015

95th Meeting of the American Meteorological Society, Phoenix, U.S.A.,

Adams, D.K., O. Ramos Pérez, C. Minjarez Sosa, Y. L. Serra., A. Quintanar, L. Alatorre, A. Granados and G. E. Vázquez. *The North American Monsoon GPS Transect Experiment 2013*. Phoenix, AZ, enero 2015

2014 Fall Meeting of the American Geophysical Union

Bennett, R.A., D. K. Adams, O. Ramos Pérez, C. Minjarez Sosa, Y. L. Serra., A. Quintanar, L. Alatorre, A. Granados and G. E. Vázquez. *The North American Monsoon GPS Transect Experiment 2013*. San Francisco U.S.A., December, 2014

2014 Fall Meeting of the American Geophysical Union

Gutiérrez, O. G. E. Vázquez, R. A. Bennett and D. K. Adams. *GPS-PWV Estimation and Analysis for CGPS Sites Operating in Mexico*. San Francisco U.S.A., December, 2014

2014 Fall Meeting of the American Geophysical Union

J. Galetzka, K. Feaux, E. Cabral, L. Salazar Tlaczani, D. K. Adams, Y. L. Serra, G. S.

Mattioli and M. M. Miller. Development of the TLALOCNet GPS-Met Network in Northwestern Mexico Supporting Continuous Water Vapor Observations in the North American Monsoon. San Francisco U.S.A., December, 2014

2014 Fall Meeting of the American Geophysical Union

Pauliquevis, T., H. M Barbosa, D. K Adams, P. Artaxo, G. G. Cirino, B. Barja Gonzalez, L Correia, H. Barros Gomes, D.A. Gouveia, M. B. Padua, N. M. Evora Do Rosario, R. A. Ferreira de Souza, R. M Nascimento dos Santos, L. Sapucci and B. T Portela. A New Site at Central Amazonia dedicated to Long-term Cloud Properties Observations – Description, First Results and Future Perspectives. San Francisco U.S.A., December 2014.

2014 Fall Meeting of the American Geophysical Union

A New Approach for Examining Water Vapor and Deep Convective Interactions in the Tropics. San Francisco U.S.A., December, 2014.

2014 Reunión Anual de la Unión Geofísica Mexicana

Clouds and Microphysics: Studies in Mexico, Puerto Vallarta, Mexico November, 2014

2014 Reunión Anual de la Unión Geofísica Mexicana

Mapes, B. and D. K. Adams, *The North American Monsoon in a 7km mesh global model (GEOS-5)*, Puerto Vallarta, Mexico November, 2014

2014 Reunión Anual de la Unión Geofísica Mexicana

Arturo Quintanar, D.K. Adams, B. Martínez López. *Relevancia de las Observaciones Atmosféricas y en Superficie para la Realización de Estudios de Tendencias del Clima.* Puerto Vallarta, Mexico November, 2014

2014 Reunión Anual de la Unión Geofísica Mexicana

Adams, D.K., and Omar Ramos Pérez. *The North American Monsoon GPS Transect Experiment 2013*, Puerto Vallarta, Mexico November, 2014

2014 Reunión Anual de la Unión Geofísica Mexicana

Rosario Romero Centeno, D.K. Adams, V. Mendoza, T. Cavazos. *Avances en el Estudio del Papel que Juegan Distintos Fenómenos Climáticos en el Contexto de un Cambio Climático Regional Futuro.* Puerto Vallarta, Mexico November, 2014

Adams, D. K., *Convección profunda, la Base del Clima y Meteorología en México.* Cuarto

Congreso Nacional del Investigación en Cambio Climático. México D.F, 20 de October, 2014

MPO Seminar Series, Rosenstiel School of Marine and Atmospheric Science, University of Miami

GPS Meteorological Networks : A New Approach for Examining Water Vapor and Deep Convection Interactions in the Tropics, September, 2014 (Invited)

2013 Fall Meeting of the American Geophysical Union

André Sá, Fábio Bento, Paul Crocker, Rui M.S. Fernandes, David K. Adams, Pedro Miranda , Cedric Champollion, *A study of GNSS Water Vapor Reconstruction Parameters*, San Francisco, CA, December 2013.

The 2013 Falconer Natural History Lectures at the Atmospheric Sciences Research Center, State

University of New York: *GPS Meteorology: A technique for examining the weather and climate in the Tropics Albany*, New York, April, 2013 (Invited)

Adams, D. K. y Arturo Quintanar, *Estudio del Monzón del Noroeste de México mediante Tecnología GPS* en Universum, Museo de las Ciencias de La Dirección General de Divulgación de la Ciencia, UNAM, México, D.F. 19 de March, 2013

Adams, D. K. y Arturo Quintanar, *Una Perspectiva del Clima y Meteorología de México* en Universum, Museo de las Ciencias de La Dirección General de Divulgación de la Ciencia, UNAM, México, D.F. 16 de March, 2013

93rd American Meteorological Society Annual Meeting

E. Becerra-Acosta, D. K. Adams, A. Retama-Hernandez, W. Gutierrez-Lopez, M. Garcia Espinoza, O. Hernandez-Rivera, M. Robles-Roldan: Estimating Boundary Layer Depths in Mexico City, Austin, TX, January 2013

2013 AGU Meeting of the Americas

Adams, D. K. and Seth Gutman, *GNSS Observations of Deep Convective Timescales in The Amazon*, AGU Americas, Cancún, México, May, 2013

2012 Fall Meeting of the American Geophysical Union

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la Atmósfera, UNAM, México, D.F., Mexico, junio 7, 2012

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México, D.F., August 9, 2012

Professional Organizations

American Meteorological Society

American Geophysical Union

Unión Geofísica Mexicana

Languages

English (Native)

Spanish (Near Native Fluency)

Portuguese (Fluent)