



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



DAVID KENTON ADAMS

Datos Generales

Nombre: DAVID KENTON ADAMS

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 13 años

Nombramientos

Vigente: INVESTIGADOR TITULAR B TC Definitivo
Instituto de Ciencias de la Atmósfera y Cambio Climático
Desde 01-08-2023

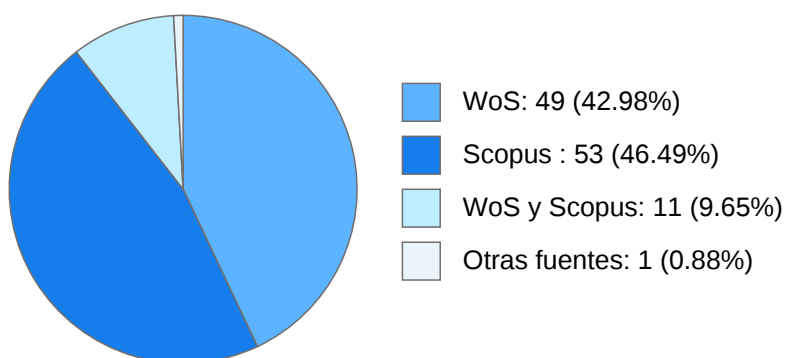
Estímulos, programas, premios y reconocimientos

SNI II 2023 - VIGENTE
SNI II 2018 - 2021
SNI I 2015 - 2017
PRIDE C 2013 - 2024

DAVID KENTON ADAMS

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Sensitivity of the Shallow-To-Deep Convective Transition to Moisture and Wind Shear in the Amazon	DAVID KENTON ADAMS Leandro Alex Moreira Viscardi Giuseppe Torri et al.	JOURNAL OF ADVANCES IN MODELING EARTH SYSTEMS	2025
2	Influence of ENSO on moisture provenance and stable isotope dynamics during the North American Monsoon	DAVID KENTON ADAMS Sánchez-Murillo R. López-Mireles O.A. et al.	JOURNAL OF ARID ENVIRONMENTS	2025
3	Transient Darkening of Low-Level Liquid Clouds by the 2022 Hunga Lamb Wave Observed in GOES-R Imagery	DAVID KENTON ADAMS Horváth Á. Liu M. et al.	GEOPHYSICAL RESEARCH LETTERS	2025
4	Environmental controls on isolated convection during the Amazonian wet season	DAVID KENTON ADAMS Leandro Alex Moreira Viscardi Giuseppe Torri et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2024
5	Revisiting mechanisms of the Mesoamerican Midsummer drought	JORGE LUIS GARCIA FRANCO DAVID KENTON ADAMS Chadwick R. et al.	CLIMATE DYNAMICS	2023
6	Boundary Layer Height Characteristics in Mexico City from Two Remote Sensing Techniques	ADOLFO VICENTE MAGALDI HERMOSILLO DAVID KENTON ADAMS MICHEL ALEXANDRE GRUTTER DE LA MORA et al.	BOUNDARY-LAYER METEOROLOGY	2023

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7	The Sensitivity of GPS Precipitable Water Vapor Jumps to Intense Precipitation Associated with Tropical Organized Convective Systems	DAVID KENTON ADAMS Campos T.B. Sapucci L.F. et al.	ATMOSPHERE	2023
8	On the Collective Importance of Model Physics and Data Assimilation on Mesoscale Convective System and Precipitation Forecasts over Complex Terrain	DAVID KENTON ADAMS Risanto C.B. Moker J.M. et al.	MONTHLY WEATHER REVIEW	2023
9	Optimizing Boundary Conditions in GNSS Tomography: A Continuous 7-Month Case Study in the Amazon	DAVID KENTON ADAMS Miranda P.M.A. Tomé R. et al.	GEOPHYSICAL RESEARCH LETTERS	2023
10	Optical properties and spectral dependence of aerosol light absorption over the Brazilian Pantanal	DAVID KENTON ADAMS Rafael Palacios Kelly Romera et al.	ATMOSPHERIC POLLUTION RESEARCH	2022
11	A Climatology of Mesoscale Convective Systems in Northwest Mexico during the North American Monsoon	DAVID KENTON ADAMS CARLOS ABRAHAM OCHOA MOYA IGNACIO ARTURO QUINTANAR ISAIAS et al.	ATMOSPHERE	2022
12	The protective effect of time-caloric restriction in liver fibrosis induced by nitrosamines in rat model	Christian Molina Aguilar DAVID KENTON ADAMS MAURICIO DIAZ MUÑOZ et al.	JOURNAL OF HEPATOLOGY	2022
13	Variability of Water Vapor in Central Mexico from Two Remote Sensing Techniques: FTIR Spectroscopy and GPS	WOLFGANG MICHAEL HELMUT STREMMER MICHEL ALEXANDRE GRUTTER DE LA MORA DAVID KENTON ADAMS et al.	JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY	2022
14	Isotopic variability ($\delta^{18}\text{O}$, $\delta^2\text{H}$ and $\delta^{15}\text{N}$) during rainfall events of the north American monsoon across the Sonora River Basin, Mexico	JUAN PEREZ QUEZADAS DAVID KENTON ADAMS JOSE LUIS RODRIGUEZ CASTAÑEDA et al.	JOURNAL OF SOUTH AMERICAN EARTH SCIENCES	2021
15	Landscape Controls on Water-Energy-Carbon Fluxes Across Different Ecosystems During the North American Monsoon	DAVID KENTON ADAMS Eli R. Perez-Ruiz Enrique R. Vivoni et al.	Journal Of Geophysical Research-Biogeochemistry	2021
16	A Seasonal Climatology of the Mexico City Atmospheric Boundary Layer	ANDREA BURGOS CUEVAS DAVID KENTON ADAMS ANGEL RUIZ ANGULO et al.	BOUNDARY-LAYER METEOROLOGY	2021
17	Urban-Induced Changes on Local Circulation in Complex Terrain: Central Mexico Basin	LOURDES PAOLA AQUINO MARTINEZ IGNACIO ARTURO QUINTANAR ISAIAS CARLOS ABRAHAM OCHOA MOYA et al.	ATMOSPHERE	2021

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18	The Impact of Assimilating GPS Precipitable Water Vapor in Convective-Permitting WRF-ARW on North American Monsoon Precipitation Forecasts over Northwest Mexico	DAVID KENTON ADAMS Christoforus Bayu Risanto Christopher L. Castro et al.	MONTHLY WEATHER REVIEW	2021
19	Cascading Toward a Kilometer-Scale GCM: Impacts of a Scale-Aware Convection Parameterization in the Goddard Earth Observing System GCM	DAVID KENTON ADAMS Saulo R. Freitas William M. Putman et al.	GEOPHYSICAL RESEARCH LETTERS	2020
20	Kelvin waves during GOAmazon and their relationship to deep convection	DAVID KENTON ADAMS Serra Y.L. Rowe A. et al.	JOURNAL OF THE ATMOSPHERIC SCIENCES	2020
21	Urban sprawl and ozone episodes in Mexico City	OSCAR AUGUSTO PERALTA ROSALES HARRY ALVAREZ OSPINA MARIA ISABEL SAAVEDRA ROSADO et al.	Urban Climate	2019
22	Algorithm for Improved QPE over Complex Terrain Using Cloud-to-Ground Lightning Occurrences	DAVID KENTON ADAMS Carlos Minjarez-Sosa Julio Waissman et al.	ATMOSPHERE	2019
23	Current and Future Variations of the Monsoons of the Americas in a Warming Climate	DAVID KENTON ADAMS Pascale S. Carvalho L.M.V. et al.	Current Climate Change Reports	2019
24	On the Diurnal Cycle of GPS-Derived Precipitable Water Vapor over Sumatra	DAVID KENTON ADAMS Giuseppe Torri Huiqun Wang et al.	JOURNAL OF THE ATMOSPHERIC SCIENCES	2019
25	Evaluating Forecast Skills of Moisture from Convective-Permitting WRF-ARW Model during 2017 North American Monsoon Season	DAVID KENTON ADAMS Christoforus Bayu Risanto Christopher L. Castro et al.	ATMOSPHERE	2019
26	TLALOCNet: A Continuous GPS-Met Backbone in Mexico for Seismotectonic and Atmospheric Research	ENRIQUE CABRAL CANO XYOLI PEREZ CAMPOS LUIS SALAZAR TLACZANI et al.	Seismological Research Letters	2018
27	The risks of contracting the acquisition and processing of the nation's weather and climate data to the private sector	DAVID KENTON ADAMS Yolande L. Serra Jennifer S. Haase et al.	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	2018
28	Leaf phenology as one important driver of seasonal changes in isoprene emissions in central Amazonia	DAVID KENTON ADAMS Eliane G. Alves Julio Tota et al.	Biogeosciences	2018

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29	The Risks of Contracting the Acquisition and Processing of the Nation's Weather and Climate Data to the Private Sector (vol 99, pg 869, 2018)	DAVID KENTON ADAMS Yolande L. Serra Jennifer S. Haase et al.	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	2018
30	Convective-permitting hindcast simulations during the North American Monsoon GPS Transect Experiment 2013: Establishing baseline model performance without data assimilation	DAVID KENTON ADAMS Jr. Moker Christopher L. Castro et al.	JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY	2018
31	Relationships among climatological vertical moisture structure, column water vapor, and precipitation over the central Amazon in observations and CMIP5 models	DAVID KENTON ADAMS Lintner, Benjamin R. Schiro, Kathleen A. et al.	GEOPHYSICAL RESEARCH LETTERS	2017
32	An Improved QPE over Complex Terrain Employing Cloud-to-Ground Lightning Occurrences	DAVID KENTON ADAMS Manuel Minjarez-Sosa, Carlos Castro, Christopher L. et al.	JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY	2017
33	The More Extreme Nature of North American Monsoon Precipitation in the Southwestern United States as Revealed by a Historical Climatology of Simulated Severe Weather Events	DAVID KENTON ADAMS CARLOS ABRAHAM OCHOA MOYA Luong, Thang M. et al.	JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY	2017
34	A Spatiotemporal Water Vapor-Deep Convection Correlation Metric Derived from the Amazon Dense GNSS Meteorological Network	DAVID KENTON ADAMS Barbosa, Henrique M. J. Patricia Gaitan De Los Rios, Karen	MONTHLY WEATHER REVIEW	2017
35	Deep convection and column water vapor over tropical land versus tropical ocean: A comparison between the amazon and the tropical Western Pacific	DAVID KENTON ADAMS Schiro, Kathleen A. Neelin, J. David et al.	JOURNAL OF THE ATMOSPHERIC SCIENCES	2016
36	Objective climatological analysis of extreme weather events in Arizona during the North American monsoon	DAVID KENTON ADAMS Mazon, Jeremy J. Castro, Christopher L. et al.	JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY	2016
37	Long-term changes in the climatology of transient inverted troughs over the North American monsoon region and their effects on precipitation	DAVID KENTON ADAMS Lahmers, Timothy M. Castro, Christopher L. et al.	JOURNAL OF CLIMATE	2016

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38	Mexico's university network of atmospheric observatories	OSCAR AUGUSTO PERALTA ROSALES DAVID KENTON ADAMS TELMA GLORIA CASTRO ROMERO et al.	Eos	2016
39	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)	DAVID KENTON ADAMS Alatorre, Luis C. Sanchez-Carrillo, Salvador et al.	JOURNAL OF ARID ENVIRONMENTS	2016
40	The north American monsoon GPS transect experiment 2013	DAVID KENTON ADAMS IGNACIO ARTURO QUINTANAR ISAIAS Serra, Y.L. et al.	BULLETIN OF THE AMERICAN METEOROLOGIC AL SOCIETY	2016
41	Runoff Modeling to Inform Policy Regarding Development of Green Infrastructure for Flood Risk Management and Groundwater Recharge Augmentation along an Urban Subcatchment, Ciudad Juarez, Mexico	DAVID KENTON ADAMS Granados-Olivas, Alfredo Carlos Alatorre-Cejudo, Luis et al.	Journal Of Contemporary Water Research & Education	2016
42	Historical trends and sources of TSP in a Sonoran desert city: Can the North America Monsoon enhance dust emissions?	Veronica MorenoRodriguez RAFAEL EDUARDO DEL RIO SALAS DAVID KENTON ADAMS et al.	ATMOSPHERIC ENVIRONMENT	2015
43	The amazon dense gnss meteorological network a new approach for examining water vapor and deep convection interactions in the tropics	DAVID KENTON ADAMS Fernandes, Rui M. S. Holub, Kirk L. et al.	BULLETIN OF THE AMERICAN METEOROLOGIC AL SOCIETY	2015
44	The effect of atmospheric aerosol particles and clouds on net ecosystem exchange in the Amazon	DAVID KENTON ADAMS Cirino, G. G. Souza, R. A. F. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2014
45	THE CHUVA PROJECT How Does Convection Vary across Brazil?	DAVID KENTON ADAMS Machado, Luiz A. T. Silva Dias, Maria A. F. et al.	BULLETIN OF THE AMERICAN METEOROLOGIC AL SOCIETY	2014
46	Mexican GPS tracks convection from North American Monsoon	DAVID KENTON ADAMS IGNACIO ARTURO QUINTANAR ISAIAS Minjarez C. et al.	Eos	2014
47	Climate variability in northwestern Mexico: First meeting of regional climatology of northwestern Mexico; Hermosillo, Sonora, Mexico, 27-29 May 2013	DAVID KENTON ADAMS IGNACIO ARTURO QUINTANAR ISAIAS Celaya C.L.	Eos	2014

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48	GNSS observations of deep convective time scales in the Amazon	DAVID KENTON ADAMS Gutman, Seth I. Holub, Kirk L. et al.	GEOPHYSICAL RESEARCH LETTERS	2013
49	Geochemical and isotopic characterization of the bodélé depression dust source and implications for transatlantic dust transport to the Amazon basin	DAVID KENTON ADAMS Abouchami, Wafa Naethe, Kerstin et al.	EARTH AND PLANETARY SCIENCE LETTERS	2013
50	A dense GNSS meteorological network for observing deep convection in the Amazon	DAVID KENTON ADAMS Fernandes R.M.S. Kursinski E.R. et al.	ATMOSPHERIC SCIENCE LETTERS	2011
51	GNSS precipitable water vapor from an Amazonian rain forest flux tower	DAVID KENTON ADAMS Fernandes R.M.S. Maia J.M.F.	JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY	2011
52	CAPE and convective events in the southwest during the North American monsoon	DAVID KENTON ADAMS Souza E.P.	MONTHLY WEATHER REVIEW	2009
53	GPS observations of precipitable water vapor in deep convective tropical regimes	DAVID KENTON ADAMS Kursinskib E.R. Bennett R.A.	AIP Conference Proceedings	2009
54	Thermodynamic efficiencies of an idealized global climate model	DAVID KENTON ADAMS Rennó N.O.	CLIMATE DYNAMICS	2005
55	Remarks on quasi-equilibrium theory	DAVID KENTON ADAMS Rennó N.O.	JOURNAL OF THE ATMOSPHERIC SCIENCES	2003
56	The North American Monsoon	DAVID KENTON ADAMS Comrie A.C.	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	1997

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

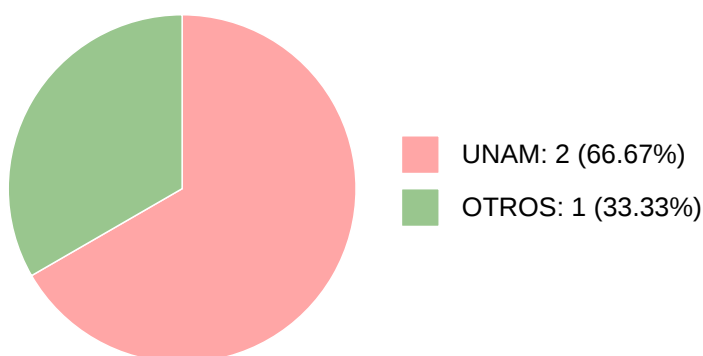


#	Título	Autores	Alcance	Año	ISBN
1	Fenómenos climáticos y su relevancia para el cambio climático regional futuro	ROSARIO DE LOURDES ROMERO CENTENO DAVID KENTON ADAMS MANUEL RENE DE JESUS GARDUÑO LOPEZ et al.	Capítulo de un Libro	2016	9786070275227
2	Aplicaciones prácticas de percepción remota y SIG en la evaluación de riesgos hidrometeorológicos en Ciudad Juárez, Chihuahua, México	DAVID KENTON ADAMS	Capítulo de un Libro	2016	9786075202150
3	Observaciones atmosféricas en superficie y en altura	IGNACIO ARTURO QUINTANAR ISAIAS DAVID KENTON ADAMS ANGEL RUIZ ANGULO	Capítulo de un Libro	2016	9786070275227

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

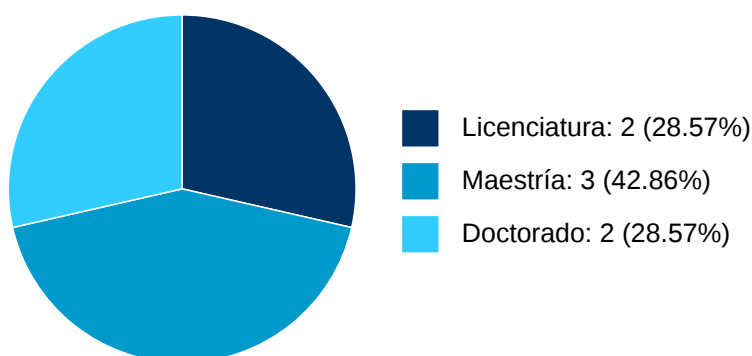


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Collaborative use of GPS Meteorology for understanding large to small-scale water vapor/deep convection interactions in the southwestern US and México.	DAVID KENTON ADAMS	Presupuesto de la UNAM asignado a la Dependencia	01-09-2005	01-09-2021
2	Experimental frameworks for evaluating net effects of hydrologic service payments on coupled social-ecohydrological systems.	DAVID KENTON ADAMS	Universidades, Centros, Institutos u Organismos Internacionales	01-01-2014	31-12-2022
3	TLALOCNet.	DAVID KENTON ADAMS	Presupuesto de la UNAM asignado a la Dependencia	01-05-2012	31-12-2022

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Sistemas convectivos de mesoescala en el noroeste de México	Tesis de Doctorado	DAVID KENTON ADAMS,	Ramos Pérez, Omar,	Instituto de Ciencias de la Atmósfera y Cambio Climático,	2023
2	Caracterización de la capa límite atmosférica sobre la Ciudad de México	Tesis de Doctorado	DAVID KENTON ADAMS,	Burgos Cuevas, Andrea,	Centro de Ciencias de la Atmósfera,	2021
3	Transición de la convección de somera a profunda : el papel de las piscinas frías	Tesis de Maestría	DAVID KENTON ADAMS,	Islas Flores, Diana Adriana,	Centro de Ciencias de la Atmósfera,	2019
4	Análisis de las fuentes de humedad marítimas y terrestres para las precipitaciones en la región del monzón de Norteamérica	Tesis de Maestría	DAVID KENTON ADAMS,	González García, María Isabel,	Centro de Ciencias de la Atmósfera,	2019
5	Uso de la técnica GPS para el estudio de convección profunda en la zona monzónica del noroeste de México	Tesis de Licenciatura	DAVID KENTON ADAMS,	Mendoza Fierro, María del Refugio Lourdes,	Centro de Ciencias de la Atmósfera,	2018

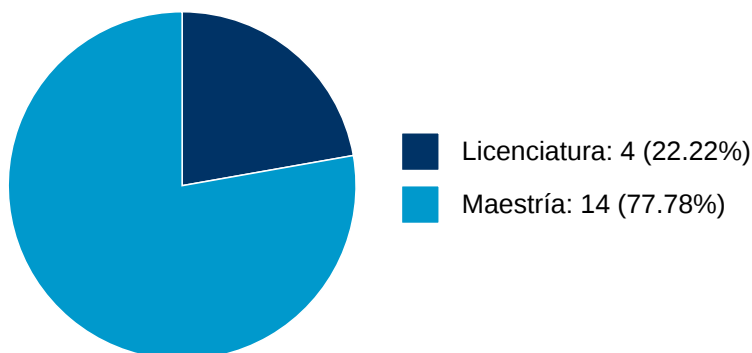
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6	Tendencias de precipitación convectiva en el valle de México	Tesis de Licenciatura	DAVID KENTON ADAMS,	Islas Flores, Diana Adriana,	Centro de Ciencias de la Atmósfera,	2017
7	Precipitación convectiva y agua precipitable del experimento del transecto GPS del monzón de norteamérica 2013	Tesis de Maestría	DAVID KENTON ADAMS,	Ramos Pérez, Omar,	Centro de Ciencias de la Atmósfera,	2016

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	TEMAS SELECTOS DE CIENCIAS DE LA TIERRA CONVECCIÓN ATMOSFÉRICA	Instituto de Ciencias de la Atmósfera y Cambio Climático	3	2024-2
2	Maestría	TEMA SELECTO DE CIENCIAS ATMOSFÉRICAS CONVECCIÓN ATMOSFÉRICA	Instituto de Ciencias de la Atmósfera y Cambio Climático	1	2023-1
3	Licenciatura	METEOROLOGIA TROPICAL	Facultad de Ciencias	4	2022-1
4	Maestría	ACTIVIDAD ACADÉMICA PARA LA OBTENCIÓN DEL GRADO	Centro de Ciencias de la Atmósfera	1	2019-2
5	Maestría	TEMA SELECTO DE CIENCIAS ATMOSFÉRICAS CONVECCION ATMOSFERICA	Centro de Ciencias de la Atmósfera	4	2019-1
6	Maestría	SEMINARIO DE INVESTIGACIÓN	Centro de Ciencias de la Atmósfera	1	2019-1
7	Maestría	SEMINARIO DE INVESTIGACION	Instituto de Radioastronomía y Astrofísica	1	2018-2
8	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Instituto de Radioastronomía y Astrofísica	2	2018-2
9	Licenciatura	METEOROLOGIA TROPICAL	Facultad de Ciencias	5	2018-1
10	Maestría	SEMINARIO DE INVESTIGACION	Instituto de Radioastronomía y Astrofísica	1	2018-1

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11	Licenciatura	METEOROLOGIA TROPICAL	Facultad de Ciencias	6	2016-1
12	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Centro de Ciencias de la Atmósfera	1	2015-2
13	Maestría	TEMA SELECTO DE CIENCIAS ATMOSFERICAS	Centro de Ciencias de la Atmósfera	6	2015-2
14	Maestría	DINAMICA DE LA ATMOSFERA	Centro de Ciencias de la Atmósfera	9	2015-1
15	Maestría	SEMINARIO DE INVESTIGACION	Centro de Ciencias de la Atmósfera	1	2015-1
16	Maestría	SEMINARIO DE INVESTIGACION	Centro de Ciencias de la Atmósfera	1	2014-2
17	Maestría	TEMA SELECTO DE CIENCIAS ATMOSFERICAS	Centro de Ciencias de la Atmósfera	6	2014-1
18	Licenciatura	SISTEMAS ATMOSFERICOS	Facultad de Ciencias	6	2013-1



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



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PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024