

CURRICULUM VITAE

Family Name: **Mohino Harris**

First Name: **Elsa**

Date: February **20, 2014**

RESEARCH INTERESTS

My current research interest is climate variability, atmosphere-ocean interactions and teleconnections in different time scales, ranging from intra-seasonal to multi-decadal variability.

ACADEMIC ACHIEVEMENTS

Graduate Studies	Centre	Date
Five year's Degree in Physics, specialised in Atmospheric Physics and Geophysics	University Complutense of Madrid (UCM)	October 2000

Posgraduate Studies	Centre	Date
Advances Studies Diploma (equivalent to a Master level)	Department of Geophysics and Meteorology, Physical Sciences Faculty (UCM)	June 2002
PhD. By the Complutense University of Madrid	Department of Geophysics and Meteorology, Physical Sciences Faculty (UCM)	June 3, 2005

Academic awards	Centre	Date
Ph. D. Extraordinary award	Faculty of Physical Sciences, University Complutense of Madrid	2004-2005
"Doctor Europeus" mention for the Ph. D. Thesis	Faculty of Physical Sciences, University Complutense of Madrid	June 24, 2005
Degree Extraordinary award	Faculty of Physical Sciences, University Complutense of Madrid	1999-2000
Second Accedit award	60's Physics promotion of the Faculty of Physical Sciences, University Complutense of Madrid	1998
Honoric Diploma in the VI Spanish Physics Olympics	Royal Spanish Society of Physics	May 1995

CURRENT PROFESSIONAL POSITION

Full time Assistant teacher (Profesor Ayudante Doctor) at the department of Geophysics and Meteorology, Faculty of Physical Sciences, Complutense University of Madrid (Spain). Tel: +34 913945007; Fax: +34 913944398 email: emohino@fis.ucm.es

FORMER PROFESSIONAL OR SCIENTIFIC ACTIVITIES

Position	Institution	Dates
Postdoctoral researcher	LOCEAN-IPSL, Paris (France)	March 1 2009 – February 28 2011
Full time Assistant teacher	Department of Geophysics and Meteorology, Faculty of Physical Sciences, Complutense University of Madrid (Spain)	April 18 2006- February 28 2009
Full time contract	GMV SA (Spain)	January 1 2006 – April 17 2006
Researcher under contract	Modelling group for the Environment and the Climate (MOMAC), University of Castilla la Mancha	March 1 2005-December 31 2005
Grant holder in the FPU programme of the Spanish Ministry of Education and Sciences	Department of Geophysics and Meteorology, Physical Sciences Faculty (UCM)	April 1 2001 – February 28 2005
Grant holder in the Collaboration fellowship programme of the Spanish Ministry of Education and Sciences	Department of Geophysics and Meteorology, Physical Sciences Faculty (UCM)	December 1999 – June 2000

SCIENTIFIC-TECHNICAL PUBLICATIONS

- Gaetani M., E. **Mohino** (2013) Decadal prediction of the Sahelian precipitation in CMIP5 simulations, J. Climate, Vol 26, 7708-7719, DOI: 10.1175/JCLI-D-12-00635.1
- Losada T., B. Rodriguez-Fonseca, E. **Mohino**, J. Bader, S. Janicot and C.R. Mechoso (2012). Tropical SST and Sahel rainfall: A non-stationary relationship , Geophysical Research Letters, Vol. 39, L12705, doi:10.1029/2012GL052423
- Mohino** E., S. Janicot, H. Douville and L. Li (2012) Impact of the Indian part of the summer MJO on West Africa using nudged climate simulations, Climate Dynamics, DOI: 10.1007/s00382-011-1206-y
- Mohino** E., B. Rodriguez-Fonseca, T. Losada, S. Gervois, S. Janicot, J. Bader, P. Ruti and F. Chauvin (2011) Changes in the interannual SST-forced signals on West African rainfall. AGCM intercomparison. Climate Dynamics, Vol. 37, 1707-1725, DOI: 10.1007/s00328-011-1093-2

- Mohino**, E., B. Rodriguez-Fonseca, C.R. Mechoso, S. Gervois, P. Ruti and F. Chauvin (2011). Impacts of the Tropical Pacific/Indian Oceans on the Seasonal Cycle of the West African Monsoon. *Journal of Climate*, Vol. 24, 3878-3891. DOI: 10.1175/2011JCLI3988.1
- Flaounas, E., S. Janicot, R. Roca, L. Li, S. Bastin and E. **Mohino** (2011) The role of dry-air intrusions in the Indian-African monsoon onsets relationship: observation and GCM nudged simulations. *Climate Dynamics*, DOI: 10.1007/s00382-011-1045-x
- Mohino** E., Janicot S. and Bader J (2011) Sahel rainfall and decadal to multi-decadal sea surface variability. *Climate Dynamics*, Vol. 37, 419-440. DOI: 10.1007/s00382-010-0867-2
- Rodriguez-Fonseca B., Janicot S., **Mohino** E., Losada T., Bader J., Caminade C., Chauvin F., Fontaine B., García-Serrano J., Gervois S., Joly M., Polo I., Ruti P., Roucou P and Voltaire A. (2010) Interannual and decadal SST-forced responses of the West African monsoon. *Atmospheric Science Letters*. DOI 10.1002/asl.308
- Rodriguez-Fonseca B., Polo I., García-Serrano J., Losada T., **Mohino** E., Mechoso C.R. and Kucharski F. (2009) Are Atlantic Niños enhancing Pacific ENSO events in recent decades? *Geophysical Research Letters*, Vol. 36, L20705. DOI:10.1029/2009GL040048
- Mohino** E. (2008) Understanding the role of the ionospheric delay in final GPS single point single epoch coordinates, *Journal of Geodesy*, Vol. 82, p. 31- 45. ISSN: 0949-7714.(DOI 10.1007/s00190-007-0155-z).
- Mohino** E., Gende M. and Brunini, C. (2007) Improving Long Baseline (100-300 KM) Differential GPS Positioning Applying Ionospheric Corrections Derived from Multiple Reference Stations, *Journal of Surveying Engineering-ASCE*, Vol. 133, p. 1-5. 2007. ISSN: 0733-9453
- Gende M., **Mohino** E., Brunini C., S. M. Radicella and Herraiz M. (2005) Ionospheric Biases correction for coordinates derived from GPS single point positioning, *Annals of Geophysics*, Vol. 48, p. 439-444. ISSN: 1593-5213
- Mohino** E., Gende M., Brunini C. and Herraiz M. (2005) SiGOG: Simulated GPS Observation Generator, *GPS Solutions*, Vol. 9, p. 250-254. ISSN: 1080-5370

PARTICIPATION IN RESEARCH PROJECTS

(national and international, last five years)

Title of project: **PREFACE**

Funded by: EU

Duration, from: 1 Nov 2013 up to: 31 oct 2017

Responsible Researcher: Noel Keenlyside (coordinator). Belén Rodríguez-Fonseca (PI for UCM institution). Elsa Mohino is leading work package 9.

Title of project: **Actualization of resources at the Simeon Fongang Laboratory of Atmospheric and Ocean Physics at UCAD (Senegal)** (Actualización de Recursos del Laboratorio de Física de la Atmósfera y el Océano Simeon Fongang en UCAD, Senegal). Ref.: 63 IX Convocatoria UCM de Proyectos de Cooperación al Desarrollo 2012. del Vicerrectorado Relaciones Institucionales y Relaciones Internacionales – UCM)

Funded by: Complutense University of Madrid

Duration, from: 2013 up to: 2014

Responsible Researcher: Elsa Mohino Harris

Title of project: **MULCLIVAR: Climate variability at different time scales. Impacts on agriculture and economy.** (MULCLIVAR. Variabilidad Climática a diferentes escalas. Impactos en la agricultura y la economía). Ref. CGL2012-38923-C02-01

Funded by: Spanish Ministry of Economy and Competitiveness

Duration, from: January 2013 up to: December 2015

- Responsible Researcher: Belén Rodríguez-Fonseca
- Title of project: **Seminar Spain-Brazil on Atlantic Climate Variability and Teleconnections** (Seminario España-Brasil en Variabilidad Climática del Atlántico Tropical y Teleconexiones) (Ref. PHB2011-0113-TA)
- Funded by: Spanish Ministry of Education. Spain-Brazil programme for interuniversity cooperation
- Duration, from: January 2012 up to: December 2012
- Responsible Researcher: Belén Rodríguez-Fonseca
- Title of project: **Short term climate change predictability and projections** (Predictabilidad y Proyecciones de Cambio Climático a corto plazo). CGL2011-13564-E.
- Funded by: Spanish Ministry of Science and Innovation
- Duration, from: 1 January 2012 up to: 31 December 2012
- Responsible Researcher: Elsa Mohino Harris
- Title of project: **Creation and Donation of a forecast statistical model of Sahel rainfall** (VR:101/11). CGL2009-10285.
- Funded by: Complutense University of Madrid
- Duration, from: 2011 up to: 2012
- Responsible Researcher: Belén Rodríguez-Fonseca
- Title of project: **Tropical Atlantic variability and the Climate Shift** (Variabilidad del Atlántico Tropical y la Transición Climática, TRACS). CGL2009-10285.
- Funded by: Spanish Ministry of Education and Science
- Duration, from: 2010 up to: 2012
- Responsible Researcher: Belén Rodríguez-Fonseca
- Title of project: **Micrometeorology and Climate Variability** (Micrometeorología y Variabilidad Climática)
- Funded by: Universidad Complutense de Madrid and Banco Santander Central Hispano
- Duration, from 2007 up to 2010
- Responsible Researcher: Carlos Yagüe Anguis
- Title of the project: **Influence Réciproque des Climats d'Afrique de l'ouest, du sud de l'Asie et du bassin Méditerranéen (IRCAAM).**
- Funded by: Agence National de la Recherche (ANR, France).
- Duration, 2010
- Responsible Researcher: Hervé Douville.
- Title of project: **Global Climate modelization by means of a hierarchy of climatic models. Application to the Iberian Peninsula.** (Modelización de la variabilidad climática global mediante una jerarquía de modelos climáticos. Relevancia en el clima de la península ibérica - MOVAC)
- Funded by: Spanish Ministry of Environment
- Duration, from: December 2008 up to: December 2011
- Responsible Researcher: Maria Luisa Montoya
- Title of project: **Tropical Atlantic Variability: Dynamics, Impacts and Teleconnections** CGL2006-04471 (Variabilidad del Atlántico Tropical: Dinámica, Impacto y Teleconexiones)
- Funded by: Spanish Ministry of Education and Science
- Duration, from: 2006 up to: 2009
- Responsible Researcher: Belén Rodríguez-Fonseca
- Title of project: **African Monsoon Multidisciplinary Analysis AMMA**
- Funded by: European Union
- Duration, from: January 1, 2005 up to: December 31, 2009
- Responsible Researcher: Belén Rodríguez-Fonseca (responsible at UCM)

Title of project: **Assistance and Actualisation of the PROMES model for wind power.**

Funded by: Casandra Energy Services, S.A.

Duration, from: April, 2005 up to: December 31, 2005

Responsible Researcher: Manuel de Castro

SUPERVISION OF PHD THESIS

Currently supervising PhD. Thesis of Julián Villamayor Moreno (FPI Grant of Spanish Ministry of Economy and Competitiveness).

STAYS IN FOREIGN CENTRES (above one month)

(Key: D = doctoral, P = postdoctoral, I = invited, C = under contract, O = others.)

LOCEAN-IPSL (UPMC)

Key:P

City: Paris Country: France Date: March 1, 2009 Duration: 2 years

Subject: Variability of the West African Monsoon Region from intra-seasonal to multidecadal time scales.

Funding by: AMMA-EU project and Spanish Ministry of Education (Postdoctoral grant)

University of California Los Angeles (UCLA)

Key:P

City: Los Angeles Country: USA Date: July 15, 2007 Duration: 3 months

Subject: Sea surface temperature impact on the West African Monsoon Region with the UCLA Atmospheric General Circulation Model.

Funding by: Becas Complutense del Amo, Universidad Complutense de Madrid

Faculty of Astronomical and Geophysical Sciences, National University of La Plata Key: D

City: La Plata Country: Argentina Date: May 3, 2004 Duration: 2 months

Subject: Ionospheric bias in Global Navigation Satellite Systems

Funding by: Spanish Ministry of Education and Sciences

Abdus Salam International Centre for Theoretical Physics Key: D

City: Trieste Country: Italy Date: October 18, 2003 Duration: 5 weeks

Subject: Ionospheric bias in Global Navigation Satellite Systems

Funding by: NATO Cooperative Linkage Grant, PST.CLG 978486

Abdus Salam International Centre for Theoretical Physics Key: D

City: Trieste Country: Italy Date: April 15, 2003 Duration: 2 months

Subject: Ionospheric bias in Global Navigation Satellite Systems

Funding by: Spanish Ministry of Education and Sciences

Abdus Salam International Centre for Theoretical Physics Key: D

City: Trieste Country: Italy Date: October 13, 2002 Duration: 5 weeks

Subject: Ionospheric bias in Global Navigation Satellite Systems

Funding by: NATO Cooperative Linkage Grant, PST.CLG 978486

ORGANIZATION OF INTERNATIONAL SCIENTIFIC CONGRESSES

Mohino E. and B. Rodriguez-Fonseca (local organization) in PREFACE KO Meeting, held in Madrid (Spain), 2-4 December 2013.

Losada T (convener), B. Rodriguez-Fonseca, F. Kucharski, Polo I, E. **Mohino** (co-conveners) in Session CL4.1 “Tropical Climate Variability and Teleconnections: past, present and future” in the 2013

European Geosciences Union General Assembly 2013, Vienna, Austria, 9-12 April 2013.

F. Kucharski (convener), E. **Mohino**, Losada T., Polo I, B. Rodriguez-Fonseca and, Garcia-Serrano J, Abram N., McClymont E. and Hendy E. (co-conveners) in Session CL2.5 “Tropical Climate Variability and Teleconnections: past, present and future” in the 2010 European Geosciences Union General Assembly 2010, Vienna, Austria, 2-7 May 2010.

B. Rodriguez-Fonseca (convener), F. Kucharski, E. **Mohino** and I. Polo (co-conveners) in Session CL47 Tropical Climate Variability and Teleconnections in the 2009 European Geosciences Union General Assembly 2009, Vienna, Austria, 19-24 April 2009.

CONTRIBUTIONS TO NATIONAL AND INTERNATIONAL SCIENTIFIC CONGRESSES
(Last five years)

Mohino E. , Gaetani M. (2013), Decadal prediction of the Sahelian precipitation in CMIP5 simulations . Poster en la Asamblea General de la EGU celebrada en Viena, Austria del 8 al 12 de abril de 2013.
Mohino E. , Janicot S., Douville H, Li L. (2012) Impact of the Indian part of the summer MJO on West Africa using nudged climate simulations. Charla en 4 th AMMA International Conference, MeteoFrance Conference Center, Toulouse, France, 2-6 July 2012
Mohino E. , Rodriguez-Fonseca B., CR. Mechoso, S. Gervois, P. Ruti, F. Chauvin (2012) Impacts of the Tropical Pacific/Indian oceans on the seasonal cycle of the West African Monsoon. Póster en 4 th AMMA International Conference, MeteoFrance Conference Center, Toulouse, France, 2-6 July 2012
Mohino E. , Rodriguez-Fonseca B., Losada T., S. Gervois, S. Janicot, J. Bader, P. Ruti, F. Chauvin (2012) Changes in the interannual SST-forced signals on West African rainfall. AGCM Intercomparison. Póster en 4 th AMMA International Conference, MeteoFrance Conference Center, Toulouse, France, 2-6 July 2012
Mohino E. , Janicot S. y Bader J. (2012). Sahel rainfall and decadal to multi-decadal sea surface temperature variability. Póster en 4 th AMMA International Conference, MeteoFrance Conference Center, Toulouse, France, 2-6 July 2012
Villamayor J., Mohino E. (2012). Multidecadal variability of the North Atlantic in CMIP5 models and relationship with Sahelian rainfall, Póster en 4 th AMMA International Conference, MeteoFrance Conference Center, Toulouse, France, 2-6 July 2012
Losada T., Rodríguez-Fonseca B., Mohino E. , Janicot S., Bader J, C.R. Mechoso (2012). Non stationary impacts of the tropical oceans on the West African Monsoon. Charla en 4 th AMMA International Conference, MeteoFrance Conference Center, Toulouse, France, 2-6 July 2012
Mohino E. , Janicot S., Douville H, Li L. (2011) Impact of the Indian part of the summer MJO on West Africa using nudged climate simulations. Póster en la reunión WCRP Open science conference, celebrada en Denver, EEUU, del 24 al 28 de octubre de 2011.
Rodriguez-Fonseca B., Polo I, Losada T, Mohino E. , Martin-Rey M. (2011) The relation between the Atlantic and the Pacific Niños in CMIP simulations: A multidecadal modulation. Póster en la reunión WCRP Open science conference, celebrada en Denver, EEUU, del 24 al 28 de octubre de 2011.
Mohino E. , Janicot S. (2011). Role of MJO on African monsoon intraseasonal variability. Póster en la Asamblea General de la EGU celebrada en Viena, Austria del 3 al 8 de abril de 2011. Publicación asociada: Geophysical Research Abstracts, Vol. 13, EGU2011-5859
Mohino E. , Janicot S. (2010) Impact des événements MJO d'été dans le secteur Indien sur la mousson africaine. Comunicación oral en la reunión “Prévisibilité du Climat Tropical”, celebrada en Toulouse, Francia, del 1 al 3 de junio de 2010.
Mohino E. , Janicot S. y Bader J. (2010). Sahel rainfall and decadal to multi-decadal sea surface temperature variability. Comunicación oral en la Asamblea General de la EGU celebrada en Viena, Austria del 2 al 7 de mayo de 2010. Publicación asociada: Geophysical Research Abstracts, Vol. 12, EGU2010-0482
Bader J, Mohino E. y Janicot S. (2010). The impact of differences between two observed SST data-sets on the African Monsoon. Póster en la Asamblea General de la EGU celebrada en Viena, Austria del 2 al 7 de mayo de 2010. Publicación asociada: Geophysical Research Abstracts, Vol. 12, EGU2010-4306

Rodríguez-Fonseca, Janicot S., Losada T., Mohino E. , Joly M., Voltaire A., Fontaine B., Polo I., García-Serrano J., Bader J., Caminade C., Chauvin F., Ruti P., Gervois S., Rocou P. (2010). Interannual vs decadal SST forced responses of the West African monsoon. Póster en la Asamblea General de la EGU celebrada en Viena, Austria del 2 al 7 de mayo de 2010. Publicación asociada: Geophysical Research Abstracts, Vol. 12, EGU2010-14405
Rodríguez-Fonseca, Losada T., Mohino E. , Polo I. y García-Serrano J. (2010). North Atlantic summer to winter rainfall response to the Atlantic-Pacific tropical connection. Comunicación oral en la Asamblea General de la EGU celebrada en Viena, Austria del 2 al 7 de mayo de 2010. Publicación asociada: Geophysical Research Abstracts, Vol. 12, EGU2010-14415
Martin M., Polo I., Rodríguez-Fonseca, García-Serrano J., Losada T., Mohino E. , Mechoso C.R. y Kucharski F. (2010). Changes in the Tropical Pacific background state and La Niña development from Atlantic remote influence. Póster en la Asamblea General de la EGU celebrada en Viena, Austria del 2 al 7 de mayo de 2010. Publicación asociada: Geophysical Research Abstracts, Vol. 12, EGU2010-11656
Mohino E. , Janicot S. (2009). West African monsoon decadal variability and climate change. Póster en African Monsoon Multidisciplinary Analyses 3 rd International Conference, celebrada en Ouagadougou, Burkina Faso del 20 al 24 de Julio de 2009.
Mohino E. , Rodríguez-Fonseca B., Mechoso C.R., Gervois S., Ruti P. Chauvin F. (2009). Impact of Tropical Pacific Sea Surface Temperature anomalies on West African monsoon precipitation in the late XX century. Póster en African Monsoon Multidisciplinary Analyses 3 rd International Conference, celebrada en Ouagadougou, Burkina Faso del 20 al 24 de Julio de 2009.
Rodríguez-Fonseca B., Mohino E. , Losada T., Janicot S. y Gervois S. (2009). Understanding a global tropical mode influencing the WAM variability. Contribución oral en African Monsoon Multidisciplinary Analyses 3 rd International Conference, celebrada en Ouagadougou, Burkina Faso del 20 al 24 de Julio de 2009.
Rodríguez-Fonseca B., Polo I., García-Serrano J., Losada T., Mohino E. , Mechoso C.R. y Kucharski F. (2009). Is the Atlantic El Niño dynamically affecting the Pacific ENSO in recent decades?. Póster en African Monsoon Multidisciplinary Analyses 3 rd International Conference, celebrada en Ouagadougou, Burkina Faso del 20 al 24 de Julio de 2009.
Mohino E. , Rodríguez-Fonseca B., Mechoso C.R., Gervois S., Ruti P. Chauvin F. (2009). West African Monsoon precipitation response to Tropical Pacific Sea Surface Temperature anomalies in the late XX Century. Póster en la Asamblea General de la EGU celebrada en Viena, Austria del 20 al 24 de abril de 2009. Publicación asociada: Geophysical Research Abstracts, Vol. 11, EGU2009-9818
Rodríguez-Fonseca B., Polo. I, García-Serrano J., Losada T., Mohino E. , Mechoso C.R. y Kucharski F. (2009). Have Atlantic Niños been leading Pacific ENSO events in recent decades?. Contribución oral en la Asamblea General de la EGU celebrada en Viena, Austria del 20 al 24 de abril de 2009. Publicación asociada: Geophysical Research Abstracts, Vol. 11, EGU2009-9476
Rodríguez-Fonseca B., Polo. I, García-Serrano J., Losada T., Mohino E. , Mechoso C.R. y Kucharski F. (2009). Atmospheric Bridge in the recent connection between Atlantic and Pacific Niños. Poster en la Asamblea General de la EGU celebrada en Viena, Austria del 20 al 24 de abril de 2009. Publicación asociada: Geophysical Research Abstracts, Vol. 11, EGU2009-9370
Polo. I, Rodríguez-Fonseca B., García-Serrano J., Losada T., Mohino E. , Mechoso C.R. y Kucharski F. (2009). Air-Sea interaction in the Pacific La Niña evolution from Atlantic remote influence Poster en la Asamblea General de la EGU celebrada en Viena, Austria del 20 al 24 de abril de 2009. Publicación asociada: Geophysical Research Abstracts, Vol. 11, EGU2009-8680
Mohino E. , García-Serrano J and Rodríguez-Fonseca B (2009): Mediterranean connection to the tropical Pacific-West African monsoon link. Póster en la reunión "CLIVAR. Clima en España: pasado, presente y futuro. Contribución a un informe de evaluación del cambio climático regional" celebrada en Madrid del 11-13 February 2009.
Mohino E. , Rodríguez-Fonseca B, Losada T. and Janicot S (2009). SST-forced signals on West African rainfall from AGCM simulations: changes in the co-variability modes. Oral presentation in the Tropical Atlantic Meeting & PIRATA 14 SSC/PRB Meeting held in Toulouse (France), 2-6 February 2009.

TEACHING EXPERIENCE

Academic year	Subject	Degree
2005/2006, 2006/2007, 2007/2008 and 2008/2009	Laboratory of Physics	Degree in Geology
2005/2006, 2006/2007	Laboratory of Physics	Geology Engineering
2007/2008	Laboratory of Programming and Numerical Methods	Degree in Physics
2010/2011	Physics II	Degree in Physics
2011/2012, 2012/13	Physics I	Degree in Physics
2011/12, 2012/13. 2013/14	Laboratory of Physics	Degree in Physics
2011/12, 2012/13, 2013/14	Modelization and reconstruction of climate variability	Master in Geophysics and Meteorology
