

## CURRICULUM VITAE

First name: **Fatima** Surname: **Driouech**  
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### **Educational background**

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2010: PhD ; Sciences of the Universe, Environment and Space (Institut Paul Sabatier University, Toulouse - France).

1994: Engineer of National Meteorological School (Toulouse- France)

1989: Bachelor Mathematics (Lycée My Ismail, Meknes- Maroc)

### **Professional experience**

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Since July 2015: Head of the National Climate Centre - Direction de la Météorologie Nationale

2014-2015: Head of the National Meteorological Research Centre - Direction de la Météorologie Nationale.

October 2005- July 2014: Head of Climate Studies Service - Direction de la Météorologie Nationale.

July 1994 – August 2005: Research Scientist - Direction de la Météorologie Nationale.

Since July 2014: co-chair of WMO/CCL/OPACE2 the Open Panel of Expert team on Monitoring and Analysis of Climate Variability and Change (WMO CCI XVI intersession).

2010-2014: co-chair of WMO/CCL/OPACE2 the Open Panel of Expert team on Monitoring and Analysis of Climate Variability and Change (WMO CCI XV intersession).

2010-2014: Lead-author of Working Group I of the IPCC AR5 (Assessment Report Five of the IPCC)

2006-2010: Member of WMO-CCI/OPAGII/ET2.2 (Expert Team on Climate Monitoring including use of Satellite & Marine Data & Products).

Since 2010: Temporary teacher at CRASTE–LF (African Regional Centre for Space Technologies Sciences); climatology and climate change courses.

Since 1998: Temporary teacher at Hassania School (a National High School for engineers); meteorological and environmental courses.

Juin-Juillet 2009: Visiting scientist at Hydro-science Montpellier, France.

November 1995, September – October 1998, April 2000, August 2006: Visiting Scientist at CNRM, Météo-France

### **Publications:**

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- **Driouech F. (2006)** Etude des indices de changements climatiques sur le Maroc: températures et précipitations. Direction de la Météorologie Nationale "INFOMET", Casablanca, Novembre 2006.
- **Driouech F. (2008)** Charting climate change in Morocco. World climate news (WMO) N°37.
- Wang X. L., Peterson T. C. Lawrimore J., Brunet-India M., Cervený R., Donlon C., **Driouech F.**, Wan Hassan W. A., Hollmann R., Schwarts M. D, Zhang Z (2008) Monitoring the earth's climate. WMO Bulletin N°57 (2).
- **Driouech F.**, Déqué M., Mokssit A. (2009) Numerical simulation of the probability distribution function of precipitation over Morocco, *Clim. Dyn.*, 32, 1055-1063. DOI 10.1007/s00382-008-04310-6.
- **Driouech F.**, Déqué M., Sánchez-Gómez E. (2010) Weather regimes—Moroccan precipitation link in a regional climate change simulation. *Glob Planet Change*. DOI:10.1016/j.gloplacha.2010.03.004.
- Stéphanie S., Mahé G., Dieulin C., **Driouech F.**, Milano M., El Guelai F.Z., Ardoin-Bardin S. (2010) Evolution des relations pluie-débit sur des bassins versants du Maroc. *Global Change: Facing Risks and Threats to Water Resources (Proc. of the Sixth World FRIEND Conference, Fez, Morocco, October 2010)*. IAHS Publ. 340, 2010.
- Mahe G., Singla S., **Driouech F.**, Khomsi K. (2011). Analyse de la persistance de ruptures dans des séries pluviométriques au Maroc en fonction de l'échelle spatiale et de la reconstitution des données. Conférence CIREDD4, Blida, février 2011.
- Trambly Y., Badi, **Driouech F.**, El Adlouni S., Neppel L., Servat (2012) Climate change impacts on extreme precipitation in Morocco *Global and Planetary Change* 82-83 (2012) 104–114.
- **Driouech F.**, Ben Rached S., Al Hairech T (2013) Climate variability and change in North African Countries. Chap9, In *Climate Change and Food Security in West Asia and North Africa*. Mannava V.K. Sivakumar- Rattan Lal Ramasamy Selvaraju – Ibrahim Hamdan Editors. DOI 10.1007/978-94-007-6751-5. Springer Dordrecht Heidelberg New York London.

- Donat, M. G., Peterson, T. C., Brunet, M., King, A. D., Almazroui, M., Kolli, R. K., Boucherf, D., Al-Mulla, A. Y., Nour, A. Y., Aly, A. A., Nada, T. A. A., Semawi, M. M., Al Dashti, H. A., Salhab, T. G., El Fadli, K. I., Muftah, M. K., Dah Eida, S., Badi, W., **Driouech, F.**, El Rhaz, K., Abubaker, M. J. Y., Ghulam, A. S., Erayah, A. S., Mansour, M. B., Alabdouli, W. O., Al Dhanhani, J. S. and Al Shekaili, M. N. (2014), Changes in extreme temperature and precipitation in the Arab region: long-term trends and variability related to ENSO and NAO. *Int. J. Climatol.*, 34: 581–592. doi: 10.1002/joc.3707.
- Lionel J., **Driouech F.**, Tourre Y., Duchemin Benoît, Bouyssie M., Abaoui J., Ouldbba, A., Mokssit A., Chehbouni Abdelghani (2014). Spatio-temporal variability of vegetation cover over Morocco (1982-2008): linkages with large scale climate and predictability. *Int. J. Climatol.*, 34 (4), p. 1245-1261. ISSN 0899-8418
- Nabat, P., Somot, S., Mallet, M., Michou, M., Sevault, F., **Driouech F.**, Meloni, D., Di Sarra, A., Di Biagio, C., Formenti, P., Sicard, M., Léon, J.-F., Bouin, M.-N. (2015), Dust aerosol radiative effects during summer 2012 simulated with a coupled regional aerosol-atmosphere-ocean model over the Mediterranean region, *Atm. Chem. Phys.*, 15, 3303-3326, DOI:10.5194/acp-15-3303-2015.

### **Realised studies (an extract)**

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- Climate validation of the variable resolution version of the general circulation Model ARPEGE-Climate on the Mediterranean Basin.
- Relationship between Moroccan rainfall and Atlantic Sea Surface Temperatures (El Masifa project/Avicenna Program).
- Relationship between Moroccan rainfall and Global Sea Surface Temperatures (El Masifa project/Avicenna Program).
- Statistical prediction and generation of perturbed Sea Surface Temperatures for climatic simulations.
- Drought Indices for early warning of drought in Morocco (SMAS project).
- Evaluation of observed climate evolutions of Moroccan rainfall and temperature using climate change Indices.
- Climate change impacts on extreme events in Morocco.
- Statistical downscaling with SDSM (World Bank project).
- Dynamical downscaling with ARPEGE-Climat and ALADIN-Climat models for evaluating future climate change over Morocco.
- Observed and future climate evolutions on north-African cities (Alexandria, Casablanca, Rabat, Tunis), World Bank project on evaluation of climate impacts on four north-African cities.
- Evaluation of a statistical downscaling method using large scale fields (weather regimes) over Morocco.
- Future climate scenarios for Morocco using high resolution models (ENSEMBLE models, Cordex Africa Models).
- Evaluation of climate change impacts on hydrological resources in Morocco.
- Constitution of an homogeneous data base of Moroccan precipitation and temperatures.