

**Pr. Ali Harzallah**  
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### **Professional Preparation**

- Maîtrise (BS+1year) Applied Mechanics, Faculty of Sciences of Tunis. 1984
- Diploma of Advanced Studies (MS) ocean-atmosphere dynamics, University Paris 6, France, 1985
- PhD geophysics, Laboratory of Dynamical Meteorology, University Paris 6, France, 1990
- Diploma of Habilitation to Supervise Research (PhD+7), Laboratory of Dynamical Meteorology, University Paris 6, France, 1997
- Postdoc, Laboratory of Dynamical Meteorology, Paris, France, 1990-1991

### **Appointments**

2015- Head of Laboratory of Marine Environment, INSTM, Tunisia

1997- Researcher INSTM, Tunis, modeling of ocean dynamics and interaction with the atmosphere

1990-1997: PostDoc , researcher at the Dynamic Meteorology Laboratory, CNRS, France

2005-2009 Professor, geophysical fluid dynamics, National Engineering School, Tunis

2003-2009 Professor, ocean waves, National Engineering School, Tunis

### **Sected Publications**

**Harzallah A.**, Jordà G., Dubois C. , Sannino G., Carillo A., Li L., Arsouze T., Cavicchia L., Beuvier J, Akhtar N., 2018. Long term evolution of heat budget in the Mediterranean Sea from Med-CORDEX forced and coupled simulations, *Clim. Dyn.*, Med-CORDEX special issue, 51(3):1145-1165, doi: 10.1007/s00382-016- 3363-5

Llasses, J., Jordà, G., Gomis, D., Adloff, F., Macías, D., **Harzallah, A.**, ... & Sannino, G., 2018. Heat and salt redistribution within the Mediterranean Sea in the Med-CORDEX model ensemble. *Clim. Dyn.*, Med-CORDEX special issue, 51(3):1119-1143, doi:10.1007/s00382-016-3242-0

**Harzallah A., 2009.** Flow variability in the Strait of Gibraltar: The Mediterranean adjustment to tidal forcing. *Deep-Sea Research I* 56, 459–470.

**Harzallah A.**, Alioua M., Li L., 2014. Mass exchange at the Strait of Gibraltar in response to tidal and lower frequency forcing as simulated by a Mediterranean Sea model. *Tellus A* 66: 23871, <http://dx.doi.org/10.3402/tellusa.v66.23871>.

Ruti P.M., Somot S., Giorgi F., Dubois C., Flaounas E., Obermann A., Dell'Aquila A., Pisacane G., **Harzallah A.**, Lombardi E, and co-authors, 2016. MED-CORDEX initiative for Mediterranean Climate studies. *Bull. of the American Meteorological Society*. doi: <http://dx.doi.org/10.1175/BAMS-D-14-00176.1>

Gualdi S., Somot S., Li L., Artale V., Adani M., Bellucci A., Braun A., Calmanti S., Carillo A., Dell'Aquila A., Déqué M., Dubois C., Elizalde A., **Harzallah A.** and co-authors, 2013. The CIRCE Simulations: Regional Climate Change Projections with Realistic Representation of the Mediterranean Sea. *Bull Amer Meteo Soc* 94:65-81.

Gualdi S., Somot S., May W., Castellari S., Déqué M., Adani M., Artale V., Bellucci A., Breitgand A. W., Carillo A., Cornes R., Dell'Aquila A., Dubois C., Efthymiadis D., Elizalde A., Gimeno L., Goodess CM., **Harzallah A.** and co-authors, 2013. Future Climate Projections, In: *Regional Assessment of Climate Change in the Mediterranean*. Volume 1. Eds. Navarra, A., and L. Tubiana, Springer, Dordrecht, The Netherlands, 53-118.

Alioua M., **Harzallah A.**, 2008. Imbrication d'un modèle de circulation des eaux près des côtes tunisiennes dans un modèle de circulation de la mer Méditerranée [Nesting of a water circulation model along the Tunisia coasts in a Mediterranean Sea model]. Bull Inst Nat Sci Tech Mer, Salammbô, 35:169-176

**Harzallah A.**, 1995. The interpolation of data series using a constrained iterative technique. Mon. Wea. Rev., 23, 7, 2251-2254.

**Harzallah A.** and Sadoury R., 1995. Internal versus SST-forced atmospheric variability as simulated by an atmospheric general circulation model. J. Climate, 8, 474-495.

**Harzallah A.**, Crépon M., Cadet D.L., 1993. Possible forcing effects of net evaporation, atmospheric pressure, and transients on water transports in the Mediterranean Sea. J Geophys Res. 98:C713341-12350 doi:10.1029/93JC00376.

### **Synergistic Activities**

- Participant to the BlueMed initiative since 2017.
- Member of the European initiatives 2010-2020 HyMeX and MedCORDEX
- Member of the scientific committee of the 2014 MedCORDEX workshop in Paris.
- Host and organizer of 2015 workshop on numerical simulation of the Mediterranean Sea and ecosystems, Monastir and 2005 and 2007 workshops: numerical modeling of marine ecosystems, Tunis
- INSTM lead partner of the European projects MATER 1998-2001, CIRCE 2007-2010
- Responsible of four 4-year projects funded by Tunisia research administration, 1997-2015.
- From 2002: Member of JCOMM (*Joint Commission for Oceanography and Marine meteorology*) of IOC (*Intergovernmental Oceanographic Commission*) and WMO (World Meteorological Organization).
- Participation to the Tunisia national communication to the United Nations Agreement on the *United Nations Framework Convention on Climate Change*.
- Trainer in workshops co-organized by UCAR in Alanya 2010 and by USAID-NOAA in Istanbul, 2013.

### **Collaborators**

- IMEDEA, CSIC-UIB, University of Balearic Islands, Spain
- LMD, University Paris 6, France
- LMHE laboratory, Tunis Engineering School, Tunis
- CNRM-GAME, Toulouse, France
- CPC, EMC at NOAA-NCEP

### **Thesis Advisor and Postgraduate Sponsor**

4 PhD students; 14 graduate students