Pr. Ali Harzallah INSTM, 28 rue du 2 mars 1934, 2025 Salammbô, Tunisia Email: ali.harzallah@instm.rnrt.tn, Tel: 216 73531867, 216 53859031

a. 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

b. Appointments

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

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

2005-2009 Professor, geophysical fluid dynamics, National Engineering School, Tunis 2003-2009 Professor, ocean waves, National Engineering School, Tunis

c. Publications

(i)

Bejaoui B., Solidoro C., **Harzallah A.**, Chevalier C., Chappelle A., Zaaboub N., and Aleya L., 2017. 3D modeling of phytoplankton seasonal variation and nutrient budget in a southern Mediterranean Lagoon. Marine Pollution Buelletin. 114-2, 30. 962-976.

Sánchez-Arcilla, A., Mosso, C., Sierra, J.P., Mestres, M., **Harzallah, A**., Senouci, M. and Raey, M.E., 2011. Climatic drivers of potential hazards in Mediterranean coasts. Regional Environmental Change, 11: 617-636.

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.

Agnew M.D., Hemming D., Goodess C.M.,..Harzallah A. and co-authors, 2013. Navarra and L. Tubiana (eds.), Regional Assessment of Climate Change in the Mediterranean: Volume 3: Case Studies, Advances in Global Change Research 52, DOI 10.1007/978-94-007-5769-1_1, © Springer Science+Business Media Dordrecht 2013.

Gualdi S., Somot S.,**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.

(ii)
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, 2015. MED-CORDEX initiative for Mediterranean Climate studies. Bull Amer Meteo Soc, in press.

Harzallah A., Jordà G., Dubois C., Sannino G., Carillo A., Li L., Arsouze T., Cavicchia L., Beuvier J, Akhtar N., 2016. Long term evolution of heat budget in the Mediterranean Sea from Med-CORDEX forced and coupled simulations, Climate Dynamics, DOI 10.1007/s00382-016-3363-5.

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.

Gualdi S., Somot S., Li L., ..., **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.

d. Synergistic Activities

- Member of the European initiatives 2010-2020 HyMeX and MedCORDEX (scientific committee of the 2014 and 2020 workshops).
- 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; Summer School on numerical modeling, Tunis 2019.
- INSTM lead partner of the European projects MATER 1998-2001, CIRCE 2007-2010
- 4-year projects funded by Tunisia research administration, 1997-2019.
- PI of a PEER-USAID project on marine energy, 2017-2019.
- From 2002: Member of JCOMM (Joint Commission for Oceanography and Marine meteorology) of IOC (Intergovernmental Oceanographic Commission) and WMO (Word 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.

e. Collaborators & Other Affiliations

(i)Collaborators

- · Jordas Gabriel, IMEDEA, CSIC-UIB, University of Balearic Islands, Spain
- · Li Laurent, Laboratory of Dynamical Meteorology, University Paris 6, France
- · Moussa Mahmoud, LMHE laboratory, Tunis Engineering School, Tunis
- · Somot samuel, National Center of Meteorological Research-GAME, Toulouse, France
- · Thiaw Wassila, International Desk at the Climate Prediction Center (CPC) at NOAA
- · Augustin Vintzileos, Heat events forecast, University of Maryand.

(ii) Graduate and Postdoctoral Advisors

Dr. Daniel Cadet, Laboratory of Dynamical Meteorology, CNRS, Ecole Polytechnique, Palaiseau, France; currently at a private company.

Pr. Robert Sadourny, Laboratory of Dynamical Meteorology, CNRS, Paris, France; currently retired.

(iii) Thesis Advisor and Postgraduate Sponsor

Bechir bejaoui, INSTM; Mohamed Alioua INSTM; Ouni Mawa, INSTM; Sana Chaouch, INSTM; Rihem Jabnoun, INSTM. 12 graduate students

f. Research Impacts

- -Maps of marine and lagoon use provided to stakeholders (fiherman, fish farmers, ...)
- -Use of the research findings in the national stragegy plan concering climate change impacts, vunerability and mitigation.
- -Use of the developed numerical models for limiting the impacts of industrial discharges into the marine environment of the Gulf of Gabès.