

CURRICULUM VITAE OF DR. REALE MARCO

PERSONAL INFORMATION

- **Name:** Marco
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- **Google scholar:** <http://scholar.google.it/citations?user=9QIyYvIAAAAJ&hl=it&oi=ao>
- **ResearchGate:** http://www.researchgate.net/profile/Marco_Reale3
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EDUCATION AND RESEARCH:

- **FAIR-SEA (Fisheries in the Adriatic region a Shared Ecosystem Approach) PostDoc Fellow** OGS (Istituto nazionale di Oceanografia e Geofisica Sperimentale)-**Visiting scientist** ICTP-ESP (Earth System Physics)-: **“Biogeochemical dynamics of the Mediterranean Sea in the future climate scenarios”**.
- **HPC-TRES (Training and Research for Earth Sciences)-PRINCIPLES (Producing Regional Climate Projection Leading to European Services) PostDoc Fellow** ICTP – ESP (Earth System Physics)-OGS (Istituto nazionale di Oceanografia e Geofisica Sperimentale): **“Coupling of the Regional Earth System Model RegCM-ES with the Biogeochemical model BFM”**.
- **Ph.d in “Environmental and Industrial Fluid Mechanics “:** Department of Mathematics and Informatics (now Mathematics and Geosciences)-University of Trieste (Italy)-ICTP (the Abdus Salam International centre for Theoretical Physics)-OGS (Istituto nazionale di oceanografia e geofisica sperimentale)-obtained on 28/04/2015

PUBLICATIONS AND TALK (Peer Reviewed, since 2017)

- M.S. Reboita, **M. Reale**, R. P. da Rocha, F. Giorgi, G. Giuliani, E. Coppola, R. Nino, M. Llopart, J. A. Torres, T. Cavazos **“Future Changes in the Wintertime Cyclonic Activity over the CORDEX-CORE Southern Hemisphere domains in a Multi-Model Approach”** (2019, submitted to *Climate Dynamics*)
- **Reale M.**, Salon S., Somot S., Solidoro C., Giorgi F., Cossarini G., Lazzari P., Crise A., Sevault F. **“Influence of large-scale atmospheric circulation patterns on nutrients dynamics in the Mediterranean Sea in the extended winter season (October-March) 1961-1999”** (2019, submitted to *Climate Research*)
- **Reale M.**, Giorgi F., Solidoro C., Di Biagio V., Di Sante F., Mariotti L., Farneti R., Sannino G., **“The Regional Earth System Model RegCM-ES: Evaluation of the Mediterranean climate and biogeochemistry”** (2019, submitted to *Journal of Advances in Modeling Earth System*)
- Lionello, P., Conte, D., and **Reale, M.**: **“The effect of cyclones crossing the Mediterranean region on sea level anomalies at the Mediterranean Sea coast”**, Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2019-6>, 2019

- **Reale M.**, Margarida L.R. Liberato, Piero Lionello, Joaquim G. Pinto, S.Salon, Sven Ulbrich “**A global climatology of explosive cyclones using a multi-tracking approach**” (2018, *Tellus A: Dynamic Meteorology & Oceanography*)
- **Reale, M.**, S.Salon, A. Crise, R. Farneti, R. Mosetti and G.Sannino “**Unexpected covariant behavior of Aegean and Ionian Seas in the period 1987-2008**” (2017, *Journal of Geophysical Research Ocean*-doi: 10.1002/2017JC012983)
- Sitz, L. E., Di Sante, F., Farneti, R., Fuentes-Franco, R., Coppola, E., Mariotti, L., **Reale, M.**, Sannino, G., Barreiro, M., Nogherotto, R., Giuliani, G., Graffino, G., Solidoro, C., Cossarini, G. and Giorgi, F. (2017), “**Description and evaluation of the Earth System Regional Climate Model (RegCM-ES)**” J. Adv. Model. Earth Syst.. doi:10.1002/2017MS000933

GRANTS , SCHOLARSHIPS and AWARDS (Related to HPC):

- **Italian SuperComputing Resource Allocation: ISCRA Award-Class C** (287000 hour) from CINECA for the project “LEPRE”: “*Sensitivity to physical forcing and long term evolution of biogeochemical properties and phytoplankton communities structure in the Mediterranean region*”-HP10C6QTCP (Principal Investigator)
- **Italian SuperComputing Resource Allocation: ISCRA Award-Class C** (194.400 hour) from CINECA for the project “ADDIO”: “*Dynamics of the Eastern Mediterranean Sea and its impact on the physics and biogeochemistry of the Adriatic-Ionian system*”-HP10CF79DR (collaborator)
- **Italian SuperComputing Resource Allocation: ISCRA Award-Class C** (194.400 hour) from CINECA for the project “TRICYCLO”: “*Tracking cyclones and biogeochemical variability in the Mediterranean region*”-HP10CYF2T3 (Principal Investigator)
- **Italian SuperComputing Resource Allocation: ISCRA Award-Class C** (200000 hour) from CINECA for the project “DyBIO”: “*Biogeochemical Dynamics of the Mediterranean Sea*”- HP10CZG5OA (Principal Investigator)
- **PostDoc HPC-TRES scholarship: ICTP (Abdus Salam International center for theoretical physics)-OGS (National institute of Geophysics and Oceanography)-Trieste-Italy** –January 2016/January 2019

RELEVANT COMPUTER SKILLS:

- Operating Systems: Linux – Unix (good knowledge)
- Operating Systems: Windows (good knowledge)
- Operating Systems: Mac OsX (good knowledge)
- Numerical Model: MITgcm (good knowledge), RegCM (good knowledge), RegCM-ES (good knowledge)
- Compiler Fortran 77/90 (good knowledge)
- LaTeX (good knowledge)
- Office: Word, Power point, Excel (good knowledge)
- Matlab (good knowledge)
- Near Graphics (good knowledge)
- C-shell (good knowledge)
- Cdo (good knowledge)
- Python (good knowledge)

Signature

Reel Hero