

# Report on the 9<sup>th</sup> International Conference on Meteorology and Climatology of the Mediterranean

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I would like to express my gratitude to the Award Committee of the European Meteorological Society (EMS) for granting me the Young Scientist Conference Award (YSCA) to participate in the 9<sup>th</sup> International Conference on Meteorology and Climatology of the Mediterranean held in Genoa from 22 to 24 of May.

The conference aims to show, discuss and disseminate the recent scientific advancements and contributions of the international scientific community in the field of meteorology and climatology of the Mediterranean region. It successfully fostered communication and collaboration among diverse research areas and groups, ranging from academic researchers to weather/climate service professionals and stakeholders. The topics covered at the conference spanned a wide range, including climatology, numerical modelling, remote and in-situ measurements, statistical and AI-based methods, and interdisciplinary studies.

My contribution to this conference was a poster presentation where I showed how the ocean-atmospheric fluxes (specifically freshwater and heat fluxes) and thermohaline properties, particularly sea surface density anomalies, could change in response to large-scale atmospheric circulation patterns, such as the North Atlantic Oscillation, known to impact the climate and hydro-climate variability of the Mediterranean region. Results were obtained by performing a multi-model analysis of *evaluation* simulations from the Med-Cordex initiative, a consortium for the development of regional coupled and ocean stand-alone models to better understand atmospheric and oceanic processes in the Mediterranean region.

The poster presentation provided an excellent opportunity for engaging in meaningful discussions with other researchers. Interacting with them during the session not only facilitated the dissemination of my research but also expanded my social network and opened doors to potential future research collaborations. The experience was truly exciting and inspiring, further enhancing my knowledge and skills in the field of Mediterranean climatology and meteorology.

Finally, I want to thank once more the EMS for awarding me the YSCA, which has recognised my work and motivated my dedication to the research field.