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Description

The World Climate Research Programme coordinates international research efforts focused on climate information products and services - in particular those devoted to improving forecast capabilities at seasonal to decadal timescales - under the framework of the WMO s Global Framework for Climate Services (GFCS). At the same time, within the Mediterranean region, several initiatives (e.g. CLIMRUN, EUPORIAS) have contributed to developing methods and tools for creating prototypes of climate services addressing users needs in specific sectors, whereas the purpose of the Mediterranean Climate Outlook Forum is to satisfy the high demand for user-oriented operational climate information. The MEDSCOPE project aims to advance such initiatives by developing climate forecast capabilities and related services on seasonal-to-decadal timescales.

The strategy will be based on exploiting the wide range of existing datasets of climate observations and forecasts to improve our understanding of sources and mechanisms of predictability. This will be complemented by targeted sensitivity experiments focusing on key drivers of Mediterranean climate variability. Improved process understanding will serve as a basis for developing innovative empirical forecasting systems as well as novel process-based methods for bias correction, downscaling and optimal combination of sources of information, all of which will be publicly released via a toolbox. Special efforts will be devoted to sensitivity of climate predictions to models climate drift, to spatial shifts of variability patterns and to the selection of sub-ensembles representative of the needs of specific applications. The added value provided by MEDSCOPE to climate services will be assessed for various sectors with high societal impact, e.g. renewable energy, hydrology and agriculture and forestry. MEDSCOPE will deliver top-quality climate information, supported by cutting-edge research, tailored for climate services in the Mediterranean.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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