



Representation and future projection for surface wind speed over the Euro-Mediterranean region from ENSEMBLES to MED-CORDEX.

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Wind speed has been clearly identified as one of the key climate variables over the Greater Mediterranean region. Interactions with stakeholders, especially in the energy, health and tourism sector, has highlighted the need for more in depth understanding of wind modelling capacities climatological time scale over regions characterised by a complex orography such as Mediterranean region. Regional climate models have a large potential for enhancing the quality of climate projections in the presence of complex orography and in the proximity of coastal areas. Subsequently, we will give here a brief overview of the skill of regional wind simulations in providing reliable representation of surface wind speed in the present climate and consistent projections in future climate scenarios. We start from the regional simulations presented in the EU FP6 ENSEMBLES project and we compare their skill against the more recent results obtained in the framework of MED-CORDEX initiative. The role of an increased horizontal resolution to critically improve the representation of wind speed will be here highlighted.