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# A new approach for comparing data and model for LGM over Mediterranean basin

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The vulnerability of different regions to climate change is a hot topic for next century. The Mediterranean region is one of the major vulnerable regions because of variations in hydrology predicted for the future. Within PMIP, many comparison (Kageyama et al. 2001, Kageyama et al., 2006) have focused on the discrepancy between models and data, especially for mean temperature of the coldest month and the precipitation. In this presentation, we show that the the reevaluation of reconstructions through forward and inverse methods from one side and the GCM sensibility simulation of the Last Maximum from the other side (vegetation, spatial resolution, ocean dynamics, and extreme occurrence) makes possible to improve the model-data comparison. We will also study the possibility to quantify the role of the interglacial/glacial CO2 variations, temperature and hydrological changes in the vegetation changes.