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Heat waves and storm track variablity in North Atlantic and Euromediterranean region: The effects of sea-land contrast in a multimodel ensemble simulations

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We present results of a study where the effects of the land-sea contrast on atmospheric circulation in the North Atlantic and Mediterranean regions are investigated. The dataset explored is formed by a set of multi-model ensemble simulations conducted with climatological SST. This should emphasize the internal climate model dynamic and its effect on the atmospheric low-frequency variability. Special interest is devoted to the Euromediterranean region, focusing on two climatic aspects: the storm track and the temperature extremes. The former is examined both in terms of eulerian and features tracking methods; the latter, investigating the circulation regimes responsible for heat waves.