



## **Mesoscale modelling and predictability of heavy precipitating systems: HyMeX perspective**

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HyMeX (HYdrological cycle in the Mediterranean Experiment) is an international programme aimed at improving the understanding of the hydrological cycle and related processes in the Mediterranean area, with emphasis on severe weather events and regional impacts of the global change, including that on ecosystem and the human activities.

The study of heavy rainfalls and associated floods, undertaken within the WG3, is one of the main scientific issues of the project. Within this context, the goal of the present contribution is to provide a synthesis of the proposals submitted to HyMeX dealing with mesoscale modelling and predictability of precipitating systems, trying also to highlight the main related research challenges.