

Modelling river discharge and sediments fluxes at sub-daily time-step: Insight into the CRUE-SIM project devoted to Mediterranean coastal flash floods

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Modelling river discharge and sediments fluxes at sub-daily timestep: Insight into the CRUE-SIM project devoted to Mediterranean coastal flash floods

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Context and objectives

The CRUE-SIM (2014-2017) project is focused on the transport of dissolved and sorbed matter during **flash floods**. It is an interdisciplinary project that brings together atmosphere physicists, hydrologists and oceanographers to study and model flash floods across the Mediterranean region : it integrates water and sediment transport as a consequence of intense rainfall, **from the catchment to the sea**. The objectives of the project are: (1) the **coupling** between atmosphere, ocean and sea with continental hydrological and hydrodynamic models

(2) the **integration of the feedbacks** and the **forcing continuity** from one compartment to the other along the brief but intense events that will be studied

In this poster we present the contribution of SWAT sub-daily modelling within the CRUE-SIM project.

