



## **A flood-related mortality index in the Mediterranean countries**

Freddy Vinet (1), olga Petrucci (2), Katarina papagiannaki (3), Carmen LLasat (4), vassiliki kotroni (3), Laurent Boissier (1), luigi aceto (2), Miquel Grimalt (5), Montserrat llasat-Botija (4), angela aurora pasqua (2), and Juan Rosselo (5)

(1) Paul Valéry Montpellier 3, geography, MONTPELLIER, France, (2) CNR-IRPI National Research Council – Research Institute for Geo-Hydrological Protection, Cosenza, Italy, (3) Institute of Environmental Research and Sustainable Development, National Observatory of Athens, Greece, (4) GAMA, Department of Applied Physics, University of Barcelona, Barcelona, Spain, (5) Grup de Climatologia, Hidrologia, Riscs i Paisatge, Universitat Illes Balears, Palma de Mallorca, Spain

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1Freddy Vinet, 2Olga Petrucci, 3Katerina Papagiannaki, 4Maria Carmen Llasat, 1Laurent Boissier, 2Luigi Aceto, 5Miquel Grimalt, 3Vassiliki Kotroni, 4Montserrat Llasat-Botija, 2Angela Aurora Pasqua, 5Joan Rosselló

- 1) University Paul-Valéry Montpellier 3, IRD, UMR GRED 220, F34000, Montpellier, France.
- 2) CNR-IRPI National Research Council – Research Institute for Geo-Hydrological Protection, Cosenza, Italy
- 3) Institute of Environmental Research and Sustainable Development, National Observatory of Athens, Greece
- 4) GAMA, Department of Applied Physics, University of Barcelona, Barcelona, Spain
- 5) Grup de Climatologia, Hidrologia, Riscs i Paisatge, Universitat Illes Balears, Palma de Mallorca, Spain

Collecting and studying the mortality during flood events came up as a relevant issue on the last ten years: i) to measure the impacts of floods, ii) to assess prevention policies and iii) to improve prevention measures. The building of the MEditerranean Flood Fatalities (MEFF) database has been a first step to address flood related mortality in the Mediterranean basin (Petrucci et al., 2018). Data on the circumstances of death during flood events and the profile of dead persons have been collected and put together for five Mediterranean regions: Catalonia (Spain), Balearic Islands (Spain), southern France, Greece, Calabria (Italy). The period covered goes from 1980 to 2015. Till now, a first step to explore the interest of the database has been the analysis of raw data to show the general features of flood related mortality. But the raw data show strong discrepancies between regions/countries and periods regarding the number of fatalities and the profile of dead people. To go further, this presentation proposes to build a flood mortality index that can express mortality in relative terms. Flood related fatalities are linked to people at risk and a mortality index is calculated per million of exposed people at NUTS3 level. This Index might allow comparing the “weight” of flood related mortality through periods and between regions. Further exploration is tested to integrate hazard data (rainfall or discharge e.g. in terms of return period) as an explanatory variable of flood mortality.

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