# Extreme events

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2. Impacts of climate change and land use on riverine sediment inputs into coastal ecosystems, Eliana Jorquera, Angelo Breda, José F. Rodríguez, Patricia M. Saco.
3. Flooding, climate change impacts and development: lower upper Nepean River, Maria Pinto.
5. Applying adaptive design for the replacement of a weir in the Meuse River - a case study, Ruben Frijns, Hessel Voortman, Henry Tuin, Jeremy Bricker.

5.2 Flood hazard
2. An application of “Big Data” in flood risk management, David Morrison, Kerri McClymont, Lindsay Beevers.

5.3 Recent advances in characterization and modelling of floods from multiple sources
1. A new framework for defining a priori grids in 2D runoff models at basin scale, Domenico Ferraro, Pierfranco Costabile, Carmelina Costanzo, G. Petaccia, Francesco Macchione.
2. Constructing a representative one-dimensional hydraulic model that approximates the results of a detailed two-dimensional hydraulic model, Gaven Tang, Wolf Ploeger, Peter Onyskho.
3. Inundation modelling for fluvial and pluvial flooding during typhoons - a case study in Shanghai city, Qian Ke, Jeremy Bricker, Qinghua Ye, Thierry Hohmann, Thanasis Kallioras, Varinia Sutter.
5. Wave propagation in porous structures based on ISPH method, Melissa Ramos Ortega, Anthony Beaudoin, Serge Huberson.
5.4 Urban flooding


2. Influence of model geometric distortion in laboratory scale modelling of urban flooding, Xuefang Li, Sébastien Erpicum, Emmanuel Mignot, Pierre Archambeau, Adrien Poupardin, Nicolas Rivière, Michel Piroton, Benjamin DEWALS.

3. Experimental analysis of urban flood intrusion into buildings, Emmanuel Mignot, Loick Camusson, Nicolas Rivière.

4. Influence of a porous urban block on urban flood flow patterns, Miguel Ángel Mejía Morales, Emmanuel Mignot, André Paquier, Sébastien PROUST.

5. Porous Shallow Water modeling in differential form: computation of cell-based conveyance porosity fields in a real urban layout, Daniele P. Viero, Alessia Ferrari, Renato Vacondio, Andrea Defina, Paolo Mignosa.


8. Application of hydroinformatic tools to assess flood flow conditions under a medieval masonry arch bridge, José Pinho, Daniel Oliveira, Vaz Tomé.