

## ***Interactive comment on “What if the 25th October 2011 event that stroke Cinque Terre (Liguria) had happened in Genova, Italy? Flooding scenarios, hazard mapping and damages estimation” by Francesco Silvestro et al.***

**M.C. Llasat (Referee)**

carmell@am.ub.es

Received and published: 22 May 2016

### General Comments

The article deals with an interesting exercise to analyse the potential impacts of a big flood event in Genoa. This flood event has been created putting the rainfall field of an event recorded on October in a near region, on the main catchment of Genoa stroke by another catastrophic flood event recorded some weeks after, on November. It is a very complete work: starting from the hydrometeorological chain to model the event, it ends with a methodology to estimate the damages. Consequently, although it refers to

C1

a specific region, the proposed methodology will be useful to be reproduced in other regions.

**Abstract:** The abstract should be rewritten. In its present form it seems more an Introduction than an abstract. Parts of the abstract could be moved to the Introduction. After a very short introduction (one or two sentences) the abstract should be focused on the objective of the paper, cases study and methodology and results.

**Section 1:** Some parts of the Introduction should be moved to the methodology: P.4 Lines 15-23, P.5 Lines 1-8.

It will be useful to have a better understanding of both events and the reason that justifies the exercise, to include some explanation about the October event that affected Cinqueterre in comparison with the November event that affected Genoa (maximum cumulated rainfall and hourly intensity, damages, relative discharge, . . .)

**Section 2:** Please, tell the main features of the Magra basin

**Section 3:** Please, indicate where the Passerella Firpo level gauge is (Bisagno creek? Magra basin?). Could you illustrate the example explained in page 13 with a figure?

**Conclusions and Discussion** They constitute a good synthesis and promote a reflection for the authorities of Genoa

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2016-125/nhess-2016-125-RC2-supplement.pdf>

---

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., doi:10.5194/nhess-2016-125, 2016.

C2