

Interactive comment on “Extracting small deformation beyond individual station precision from dense GNSS networks in France and Western Europe” by Christine Masson et al.

Mimmo Palano (Referee)

mimmo.palano@ingv.it

Received and published: 20 July 2019

The manuscript is well written and well organized.

Mathematical formulations are corrected and clearly quoted.

Quoted papers are all necessary.

My minor questions are so summarized:

The GNSS is a primary technique, not a dataset. Please correct.

The use of "raw GNSS data" is misleading, when speaking on velocity field. Usually,

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such a term is referred to RINEX GNSS data. Please check the term.

I suggest to expand the first paragraph of introduction by explaining that crustal deformation at various temporal and areal scales are measured on volcanic areas also (see for instance Kilauea and Etna). In doing this you can also improve the discussion on the applicability of your approach on volcanic areas.

A table reporting velocity field both in ITRF2014 and the local reference frame should be added as supplementary material.

Figures are of good quality; however, they need some small corrections. Please add a "north symbol" and a km scale to the figures. Moreover, all the figures reporting the local seismicity contain an error on the legend.

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-89>, 2019.

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