

Interactive comment on “Comparing Intensity–Duration–Frequency curves derived from CMORPH and radar rainfall estimates over the Eastern Mediterranean” by Francesco Marra et al.

Anonymous Referee #2

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The manuscript "Comparing Intensity–Duration–Frequency curves derived from CMORPH and radar rainfall estimates over the Eastern Mediterranean" represents a good contribution to the assessment of satellite-based rainfall estimations in areas where their impact could be potentially relevant. The authors have done a thorough analysis over a sufficient amount of time and thus the results are significant.

The manuscript certainly fits the journal scope and is suggested for publication after the following points are considered by the authors:

1) The reason why both versions (gauged and ungauged) of CMORPH are used is not

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sufficiently explained and detailed in the text.

2) Did the authors check how many of the gauges are used in the production of the gauge-adjusted version of CMORPH in the area? This could have an impact in the analysis, maybe small. However, a couple of words on the subject need to be included.

3) While it is true that gauges are not available over the sea (!) the authors should also spend a few words on the fact that normally satellite-based estimations are far better over the sea surface. This partially contradicts their results. Just pay attention to this important fact. See, for example: Kidd, C., and V. Levizzani, 2011: Status of satellite precipitation retrievals. Hydrol. Earth Syst. Sci., 15, 1109-1116 for a discussion on the various methods of rain estimation from satellite.

4) A fine combing of the English is suggested since many imperfections are detected throughout the text.

Minor point: The caption of Fig. 4 does not match the real colors used in the figure. It appears that the authors have used two different version prior and after a change they did while writing.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-597, 2016.

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