CORRECTION



Correction to: Modelling Mediterranean heavy precipitation events at climate scale: an object-oriented evaluation of the CNRM-AROME convection-permitting regional climate model

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In the original publication of the article, the tracking results for CNRM-AROME (parts 4.2, 4.3 and appendix A) are slightly affected by a problem in the grid of the CNRM-AROME files in input to the tracking algorithm (related to a misinterpretation of the Lambert conformal projection by

cdo). Neither the abstract nor the conclusions are impacted. The corrected Figs. 11, 12, 13, 14, 15 and 17 and associated comments of parts 4.2, 4.3 and appendix A are given in this correction article.

The original article has been corrected.

The original article can be found online at https://doi.org/10.1007/s00382-020-05558-y.

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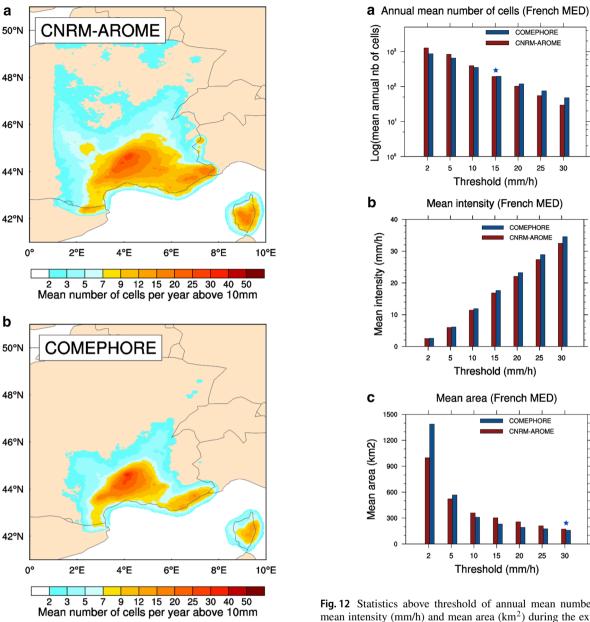
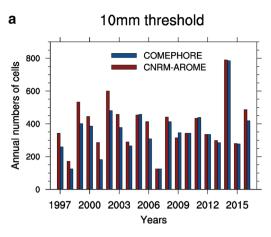


Fig. 11 Spatial distribution of the annual mean number of cells per year above the 10 mm threshold during the extended fall (SOND) between 1997–2016 for CNRM-AROME and COMEPHORE on the tracking domain

Fig. 12 Statistics above threshold of annual mean number of cells, mean intensity (mm/h) and mean area (km²) during the extended fall (SOND) between 1997–2016 for CNRM-AROME in red and COME-PHORE in blue for the French MED area. A blue star is added when the differences between model and observation means are not significant at a confidence level of 95%





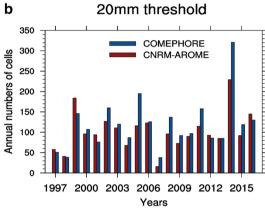


Fig. 13 Variation of the annual numbers of cells exceeding 10 and 20 mm in the French MED area during the extended fall (SOND) between 1997–2016 for COMEPHORE in blue and CNRM-AROME in red



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Fig. 14 Variation of the number of tracks in function of a duration, b maximum intensity, c mean intensity, d maximum area, e velocity and f severity for CNRM-AROME in red and COMEPHORE in blue. A blue star is added when the differences between model and observation means are not significant at a confidence level of 95%. g presents IDF plot and h IAF plot for CNRM-AROME and COMEPHORE. In all the figures, we consider all tracks of cells exceeding 10 mm/h occurring during days exceeding 100 mm/day in the French MED area during the extended fall (SOND) between 1997 and 2016

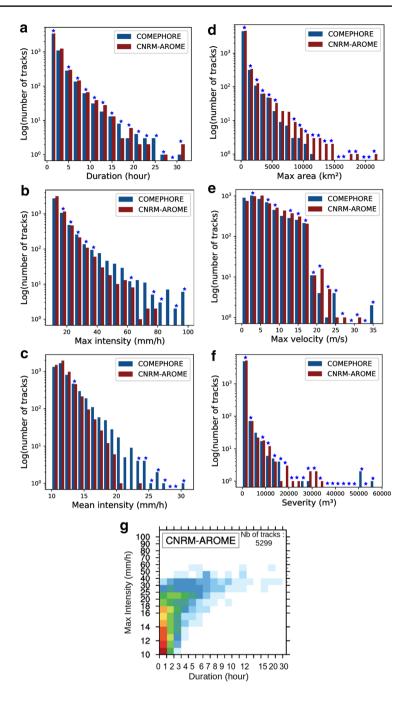
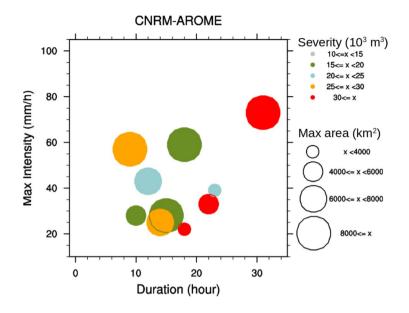




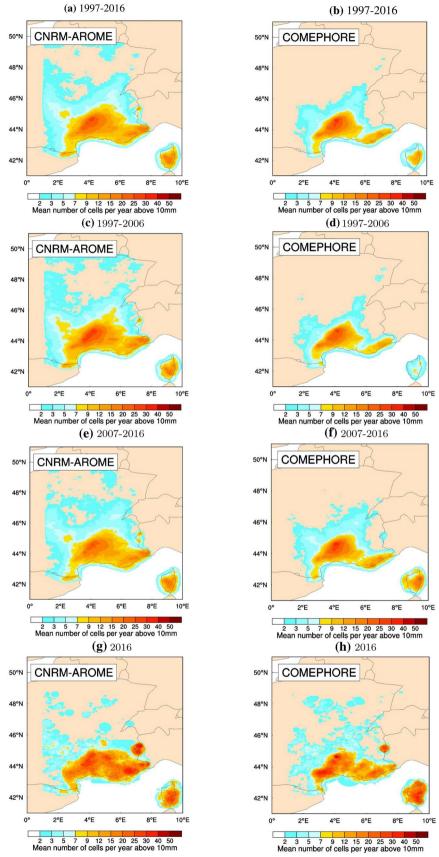
Fig. 15 Bubble plots for CNRM-AROME and COME-PHORE for the ten most severe tracks of cells above 10 mm/h occurring during days exceeding 100 mm/day in the French MED area during the extended fall (SOND) between 1997 and 2016





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Fig. 17 Spatial distribution of the annual mean number of cells per year above the 10 mm threshold during the extended fall (SOND) for CNRM-AROME and COMEPHORE on the tracking domain for several time periods



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