Geoscientific
Model Development
Discussions

Interactive comment on "The regional MiKlip decadal forecast ensemble for Europe" *by* S. Mieruch et al.

S. Mieruch et al.

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Regarding the following comment:

Similarly it would be useful to explain why following the approach of Weigel et al. (2009) in the calculation of the reliability index makes sense for variable which are not normally distributed such as rainfall. While the central limit theorem is mentioned in the conclusion, it may be a good idead to add a reference to it in section 3. Also, while the assumption of normality may be reasonable for most of Europe in can potentially be challenged for summer precipitation on the southernmost part of the domain do to the limited amount of precipitation there in this season. A brief discussion on this point could also be beneficial.

The attached top figure shows the probability density distribution of E-Obs summer half-year precipitation sums (1961-2010) for the region of the Iberian Peninsula in black and a fitted Gaussian distribution in blue. The bottom figure shows the distribution for a single grid point in Andalusia (black) and the corresponding fit (blue). It can be seen that due to the central limit theorem, half-year precipitation sums are quite normally distributed.

Interactive comment on Geosci. Model Dev. Discuss., 6, 5711, 2013.

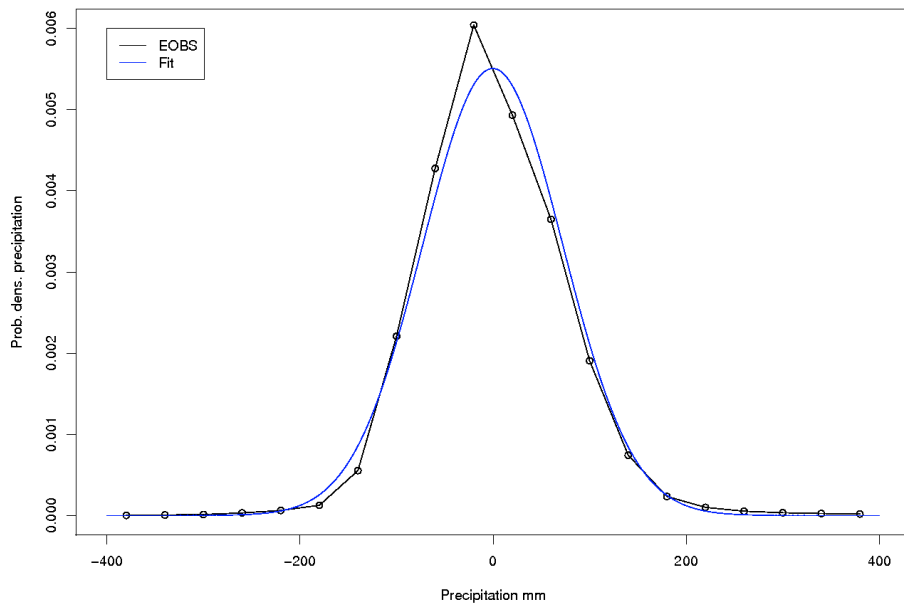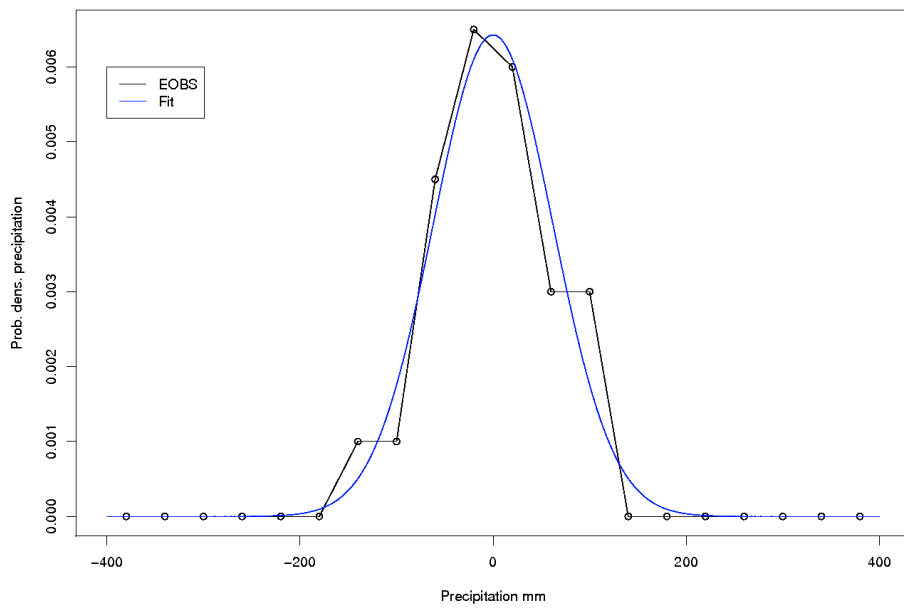**Fig. 1.** Iberian Peninsula

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Fig. 2. Single Grid Point

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