

## ***Interactive comment on “Technical Note: Downscaling RCM precipitation to the station scale using quantile mapping – a comparison of methods” by L. Gudmundsson et al.***

**L. Gudmundsson et al.**

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We appreciate the quick and positive response by Referee # 1. Despite the overall positive evaluation, Referee # 1 mentions a few topics that require clarification, which we address in the following:

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### **1 Cross-validation (CV)**

Referee # 1 was the first to note that we referred to cross-validation (CV) in insufficient detail. CV is a standard technique in statistical modelling that is used to estimate model error independent of the training data. We acknowledge the lack of detail and will extend the section introducing the skill scores accordingly.

### **2 Performance in different climates**

Referee # 1 asks whether we can “speculate how [our] results might change for other climates”. We want to emphasise that science should be based on evidence based knowledge thus we prefer not to speculate.

### **3 Minor Comments**

**Title - p.6185:** As the analysis presented in the paper is highly specialised, limited in scope and technical we opted for submitting a “Technical Note”. The journal requirements (see [http://www.hydrology-and-earth-system-sciences.net/submission/manuscript\\_types.html](http://www.hydrology-and-earth-system-sciences.net/submission/manuscript_types.html)) are state that the “manuscript title must start with ‘Technical Note.’”

**p. 6187 - line 17:** we will change to “precipitation, respectively”.

**p. 6188 - line 22:** we will change to “transformations was”, removing the “for”.

**p. 6191 - line 1:** we will change to “the comparison”.

**p. 6191 - line 13:** we will change to “extremes, other”.

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**p. 6192 - line 26:** we will change to “related to their ... not rely on”.

**Fig. 2:** The fonts in this figure are optimised for the final typesetting in HESS. The figure is designed to be page filling in portrait orientation. The HESS-D format, however, is in landscape orientation. The small font sizes in the discussion paper are related to this.

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