

## ***Interactive comment on “Probabilistic precipitation and temperature downscaling of the Twentieth Century Reanalysis over France” by L. Caillouet et al.***

### **Anonymous Referee #3**

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The study presents the methods and results of a temperature and precipitation downscaling activity over France. The novel aspects of the study are the presentation of a new post-processing method which extends upon the SANDHY downscaling technique, and, the application of the method on a much longer temporal timespan than has previously been conducted for France. I suggest accept after very minor revision.

For my only major point, I would certainly agree with the other reviewer that a better explanation of the methodological steps is required, and a schematic would probably be a good way to show this.

Minor Points:

C2941

Abstract: SAFRAN isn't defined the same way SANDY is.

there is some interchanging between US (e.g. homogenized) and UK spelling (e.g. optimised) - stick with one style throughout

p4428 sometimes e.g. 14/113 20th/twentieth century is used interchangeably - better to stick with one style exclusively

113 does era20c start in 1900, not 1899?

Safran is sometimes capitalised (e.g. abstract) and sometimes isn't

p4427 18 remove 'for example' 113 'the number of temperature observations show an increase after 1950' sounds better 114 'data' are technically plural, so the phrase is better as 'The data sparseness before 1950 do...'" (rather than "does")

p4429 16 remove 'to date'

p4430 12 no need to say 'twentieth century reanalysis version 2' as it was already defined earlier

p4432 15 statical spelling

118 Sandhy already defined earlier in the paper

p4434 17 predictands?

p4445 'generalized' is an odd adjective to describe flooding

p4449 no reason to redefine 20CR/SANDHY again here

Fig 1 - label x axis

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Interactive comment on Clim. Past Discuss., 11, 4425, 2015.

C2942