

Dear Authors,

although you have replied appropriately to the referee's comments, I find that the result of your revision is not yet ready for publication. Although I am not a native speaker of English I have the strong feeling that the language (words, grammar, logic) needs significant improvement. As there is one author from Bristol, it should be possible for you to find a colleague there who can help in this respect.

First, we would like to sincerely thank the Editor, Dr Klaus Gierens for reviewing carefully our work. Language was reviewed by a native speaker as suggested. Several several mistakes/awkward phrasings are now corrected.

A couple of minor issues follow:

1) Eq. 1: As there are  $(2X+1)*(2X+1)$  grid points in your smoothing square shouldn't the normalising factor be  $(2X+1)**2$  ?

Indeed, the equation was wrong and now corrected.

2) line 297: replace "logarithmic" by "exponential".

Done

3) Caption of Figure 7 mentions a panel 7D, but neither does the main text mention it nor is a figure 7d present.

Done. This was a residual of the original version of the article.

4) line 347: What is a correlation score? Do you simply mean the correlation between two time series ? i.e.  $Cor = \frac{\text{mean}[(x - \text{mean}(x))(y - \text{mean}(y))]}{(\sigma_x * \sigma_y)}$  ?

Yes we meant correlation, "score" has been deleted.

5) line 372: small deviations.

Corrected.

6) lines 395 and 426: Referee 2 strongly suggested to replace "calibration". Please do it.

Calibration has been deleted.