

Dear Colleagues,

Referee 1 (who is still Alban Farchi) has sent his evaluation of the latest version of your paper. He recommends acceptance subject to technical corrections, and makes one specific suggestion in that respect.

I myself as Editor have also a number of additional suggestions for corrections.

1. L. 51. It might be useful to mention at the start that the weights  $w_j$  must be positive and must sum up to 1.
2. There seems to be an inconsistency of notation between the definition of  $\mathbf{X}^f$  (l. 48) and later equations such as (2), (3), (5, first line) and others ( $\mathbf{x}_j^f$  or  $\mathbf{X}_j^f$ ?). Please check.
3. L. 277, *All reported results are for differences that are two or more standard deviations apart*. The meaning is obscure.
4. L. 285 (and elsewhere) *trace-state normalized matrix*. Meaning ?
5. L. 158, do you mean ... *with respect to*  $\pi(\mathbf{X}^f | P)$ , or what ?
6. L. 148. Exponent of  $\mathbf{R}$ ,  $n \times N^f$
7. List of references. Reference to Popov *et al.* (2020) incomplete.
8. L. 15, *constraints*  $\rightarrow$  *constrains*
9. L. 394, ... *the authors' experience* ... (plural, I presume)
10. L. 284, ... *over ~~that~~ of the whole manifold* ...

Please make the necessary corrections (unless you disagree).

I thank you for having thought of *Nonlinear Processes in Geophysics* for publishing your paper.