

## ***Interactive comment on “Phenomena preceding major earthquakes interconnected through a physical model” by Panayiotis A. Varotsos et al.***

**Panayiotis A. Varotsos et al.**

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First we include in brackets the points raised by the Reviewer in italics and our answer follows in plain text.

*[In the beginning, the word "order parameter" suddenly appeared. As far as the reviewer's knowledge, "order parameter" is a common word for a physicist, but not for a seismologist. It means that the authors are considering earthquake is a kind of the phase transition process. It is better to explain a little bit more. Because, in the future, seismologists' understanding becomes very important in this approach.]*

We will explain this point as to become more helpful to the readers.

*[In any case, the sentences are redundant. Can you shorten the text more? The*

*reviewer feels that expression is old-fashioned. More simple wording would be better.]*

We will shorten the text accordingly.

*[P2 L26 5 1/2 is too precise. Say 6months is OK?]*

We will rephrase it in the revised version.

*[ P8 L10 the initiation of the anomalous Earth's magnetic field variations and the minimum  $\beta_{\min}$  of the fluctuations of the order parameter of seismicity.  $\beta$  varies case by case. You cannot say the exact date of January 5. The expression is too strong.]*

We will rephrase it appropriately in the revised version using "around January 5"

*[P9 L26 Anomalous magnetic field variations started (which reflects the initiation of a strong SES activity). -> In the case of Tohoku M9EQ, no electric field observation. The expression is too strong.]*

We will rephrase it appropriately in the revised version

*[In figure 3: Pale colors are not easy to read. Please change some colors.]*

Yes, we will redraw the figure by changing the colors in order to become more clear for the readers.

We would like to thank the Reviewer for his/her constructive review.

Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2019-29>, 2019.

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Discussion paper

