

Dear Br.Rae!

Thank you so much for your report and all comments. We are really sorry that our arguments do not sound convincingly enough. Taken this in account, we've changed the draft according to your suggestions. All changes are marked with **colour**.

We totally agree, that it is not possible to prove with the used data set, that the studied pulsations are related to the substorm. But observations of special pre-substorm ULF fluctuations in the polar cap have been reported in a few papers, including our previous one (Yagova et al, 2017). It was statistically shown, that Pc5/Pi3 pulsations with some distinguishing features are seen in the Polar cap for days with a substorm and are absent in quiet days. The present event perfectly matches the parameters used in the mentioned paper to identify a non-triggered isolated substorm. That is why we expected to see pulsations in the Polar cap for the studied day and we did find them. This allows us to speculate about a possible relationship between the pulsations and the substorm. In future studies we will try to investigate this idea with extended sets of data. As for now, we follow all your recommendations and appreciate you for your careful reading and useful comments.

sincerely,
on behalf of authors,
Nataliya Nosikova