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Reply on RC2

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Author comment on "Estimation of date and magnitude of four major earthquakes using integration of precursors obtained from remote sensing data" by Mohammad Mahdi Khoshgoftar and Mohammad Reza Saradjian, Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2021-41-AC3>, 2021

We would like to thank the reviewer's fruitful comments on our manuscript. Each point has been explained as follows:

- In response to the reviewer's comment, it should be noted that regarding the case of ionospheric data, factors such as geomagnetic and solar activities that can cause anomalies in the data have been already removed from the time series in this study, and the remaining anomalies are due to seismic action. Therefore, regarding the time series, the anomalies detected near the time of earthquakes occurrence are due to the seismic activity solely.
- By using the combination of precursors in this study, the uncertainties in estimating earthquake parameters have been removed implicitly. However, one method to explicitly and directly deal with the uncertainty of precursors is to study the precursors in different earthquakes that have occurred in the past. Another method is to study similar and comparable years' data in which no earthquake occurred. The idea suggested by the referee is interesting but regarding the aim of the study, it falls outside of the scope of the study. However, we will work on assessing uncertainties directly and provide additional experimental information on our next manuscript.