

Dear Authors,

Thank you for considering comments of the referees and for sending us the improved manuscript. I have read it carefully and found some points to be clarified before the manuscript will be recommended for publication.

Page 1, paragraph 15:

What indices do you mean in the last sentence of the paragraph "...hourly/daily indices...". It should be clarified.

Page 2, paragraph 25:

Please, give some references to the results published by you or to other scientific papers for the statement "*The ionospheric variation is correlated with the diurnal and seasonal time variation, and the ionospheric delay above the locations involved in the study reaches its maximum around 14 hours local time (LT) and its minimum around 2 LT. Also, the daily mean ionospheric delay is higher in spring and autumn, and lower in 25 summer and winter.*"

Page 2, paragraph 40:

The sentence "*However, Dst response performance depends on ionosphere storm types*" is not correct. It depends of the ionospheric storm driver.

Page 3, the second sentence from the top:

*"After performing some numerical experiments with Dst, Kp has been selected for the parameter."*

and pages 9-10, paragraph 40:

*"Series of experiments had been performed by using Dst instead of Kp. In certain instances Dst reflects ionospheric variation better than Kp does. A correlation analysis between Dst or Kp with TEC showed that Dst yields a slightly higher correlation values than Kp. Therefore, we had performed another estimation process after replacing Kp with Dst. Our preliminary results showed that Dst is not better than Kp for our estimation algorithm. The results may be different for another data period when CME-driven ionosphere storm occurs. One month of data period tested in this research may not be sufficient for determining optimal parameter. Comprehensive analysis with a longer data period, e.g. multiple years, will be helpful."*

When reading what was said in both page 3 and pages 9-10, there is not clear, what index you are finally using in your computation. Please, give clear information for readers.

The statement that "...Dst reflects ionospheric variations better than Kp does" is also not correct. In this case wording "...storm-time variations.." is more clear. In general, the Kp index is usually more suitable, as it reflects both CME- and CIR/CH HSS-related ionospheric disturbances (or combination of both Kp and Dst). On the other hand, as you have mentioned, one-month data analysis is really not enough to get a clear indication of a reliability of the indices. Also geomagnetic activity during October 2014 was minor-to-moderate, what is not an excellent choice when evaluating correlation.

Page 3, paragraph 40:

What do you mean using the term “*inner ionosphere*”? The term should be clarified when it was used first.