

## ***Interactive comment on “Climatology of ionosphere over Nepal based on GPS TEC data from 2008 to 2018” by Drabindra Pandit et al.***

**Drabindra Pandit et al.**

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We thank the reviewer for his comments and take into account all the comments on Climatology of ionosphere over Nepal based on GPS TEC data from 2 2008 to 2018 MS No.: angeo-2020-82

Summary The authors investigated the diurnal, monthly, annual, seasonal and solar cycle variations of VTEC at four locations in Nepal during the years 2008 to 2018. The results revealed a conventional diurnal variation pattern observed elsewhere and seasonal variation with maxima in spring equinox. Variability of TEC with solar activity was also reported. The authors claimed that this is the first report of a long-term study of the ionosphere over Nepal using TEC. This makes the work interesting and offers a

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good merit for publication.

Technical observations Page 2, Line 10: 'the' before 'most' should be deleted Ans: It is corrected

Page 2, Line 18-19: The sentence "Ouattara and Amory- Mazaudier (2012) showed solar activity occurring 18 different phases of solar cycle in diurnal variability" should be rewritten. Ans: It is corrected as Ouattara and Amory- Mazaudier (2012) showed impact of solar activity on diurnal variability during different phases of solar cycle.

Page 3, Line 9: Insert 'been' after 'have' Ans: It is corrected

Page 6, line 28. Figure should always be written in full wherever is being referred to. It should also start with capital letter 'F'. Check throughout the text Ans: It is corrected

Page 6, line 25: the subsection should be '3.3'. then consider correcting other subsections 3.4, 3.5 etc Ans: As per suggestions of referees the sections of result and discussions which was written separately are written under a single section as "Results and Discussion".

Page 8, line 19: What is the significance of subsection 3:4- "Effects of geomagnetic activity on TEC"? The authors may have to delete the entire section Ans: It is deleted in the text.

General observations The result section on seasonal variation has some elements of discussion while other subsections have only presentation of results. Ans: Each section of results is made uniform by placing discussion followed by result.

The author should have combined their results and discussions together in a single section for easy comprehension. The present format allows the discussion to be overloaded with basic physics and thus make it a little complicated to understand. Ans: The results and discussion are managed under the same section to make the finding clear.

The appropriate items under section 4 tagged 'Discussions' should be engaged to

discuss the appropriate results itemized under section 3. Section 3 should be re-titled as ' Results and discussions'. Ans: The discussion is tagged with result in the text.

Please also note the supplement to this comment:

<https://angeo.copernicus.org/preprints/angeo-2020-82/angeo-2020-82-AC1-supplement.pdf>

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Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2020-82>, 2020.

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