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## Interactive comment on "Assessment and Monitoring of Land Degradation Using Geospatial Technology in Bathinda District, Punjab, India" by Naseer Ahmad and Puneeta Pandey

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Answers to Comments of RC1 1) Comments of Referee: The study objectives are not clearly stated. The authors should also mention the novelty brought by this study, when compared to other similar studies. Author's Response: Objectives: This study aim to integrate remote sensing data and <code>iňAeld-based</code> soil data to assess severity of land degradation in the Bathinda District, Punjab. Novelty: Integration of remotely sensed data with <code>iňAeld</code> based data to determine the severity of land degradation is an important aspect of the present study. However, as far as land degradation assessment through geospatial technology is concerned, not much study has been done in the Bathinda region of Punjab, a north-western state of India. Author's

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of Referee: What type of correlation analysis was used? Was it based on time series

of DN or on average values? How was seasonality incorporated in the correlation analysis? A more detailed description of the results is required. Author's Response: Pearson's correlation analysis was used in the present study. It was not based on time series of DN or on average values; rather the DN value corresponding to geographical coordinates of sampling sites was considered for the present study. Author's changes in the manuscript: The table 6 describes the correlation analysis. Some text has been revised and presented in line 6-8 of Page 21. 6) Comments of Referee: As with the study area description, the presentation of methods is also fragile. The authors must improve this section in the revised version. Author's Response: The revised methodology and flowchart of methodology has been added in Section 2.6 of Materials and Method. Author's changes in the manuscript: Section 2.6 of lines 14-22 of Page 7.

Please also note the supplement to this comment:

http://www.solid-earth-discuss.net/se-2016-172/se-2016-172-AC1-supplement.pdf

Interactive comment on Solid Earth Discuss., doi:10.5194/se-2016-172, 2017.

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