

Dear Referees,

Thank you very much for your advices, which are crucial for improvement of our article.

We have modified our manuscript with your remarks as following:

- All the spelling errors have been checked, incorrect spellings were corrected (Line 80, 114, 186, 279, 375);
- Paragraphs and sentences have been rephrased when it was hard to follow (lines 281-284, 290-291);
- Abbreviations of carbon species have been carefully checked and corrected (line 260, 266);
- Tables 1-4 have been referenced in the text of our manuscript;
- X and Y axis have been captured in figures 3-5;
- Letter size has been checked and corrected in mentioned lines (lines 138, 139, 140, 322, 323);
- Missing intervals in the reference list have been added;
- The data from Table 2 have been clarified and represent mass values;
- Names of carbon species have been changed accordingly in Tables 3,4;
- The name of Table 5 has been changed;
- Key points/Highlights sections have been reviewed and improved;
- Reference list has been checked and improved according to the journal's requirements;
- The figure with sampling plots and study area has been carefully checked and improved, insert map of Fildes peninsula with sampling plots has been added;
- Soil samples names mentioned in tables 1-5 has been corrected to the right ones (1 O, 1 [CRH]; 2 O, 2 [CRH], 3 O, 3 [CRH])