

Remarks on the article **“A comparative study on the difference in meteorological monitoring between constructed green land and natural sandy land”** submitted to *Sustainability*, authors: Wen Huo, Fan Yang, XieFei Zhi, Ali Mamtimin, Qing He, HongLin Pan, Cong Wen, Yu Wang, Ye Wu, XingHua Yang, ChenLong Zhou, MeiQi Song, Lu Meng, MinZhong Wang

L. 14. ‘Corresponding authors’ – should be ‘Corresponding author’ (singular form) because only one corresponding author is indicated.

L. 34. ‘The decreasing rates of the wind speed at the boundary and center of the CGL were 35% and 68%’ – it is difficult to say from this fragment what decreasing is described and even whether spatial or time variability is considered.

L. 53. ‘researchers began to think rationally about desert climate and carried out research [6-15]’ – it seems that the work [7] (‘Characteristics of mineral elements in shoots of three annual halophytes in a saline desert, Northern Xinjiang’) does not directly describe climate, and this citation can be eliminated.

L. 66. ‘research on the local microclimate of the Taklimakan Desert has also been carried out [15-26]’ – many references are presented here simultaneously, and the works [20], [21], [24] concern soil microorganisms. Are these three citations needed when the desert microclimate is studied?

L. 70-71. ‘about the surface energy, temperature, humidity and wind of the ground’ – what do ‘surface energy’ and ‘of ground’ mean in this phrase?

L. 85. ‘high frequency zones with sandstorms’ – possibly, ‘high-frequency sandstorm zones’ or ‘zones with high frequency of sandstorms’.

L. 89. ‘EN -- SW’ – a usual representation is ‘NE – SW’.

L. 95. Blank line between the caption to Fig. 1 and the following text is necessary. Similar situations are also for some of the following figures.

L. 96. Here coordinates are indicated with angular minutes and seconds but in Fig. 1 parts of degrees are used. Unified notation is more suitable for readers.

Table 1. ‘Press’ – should be ‘Pressure’ (in several cases).

L. 133. The lowest curve for September day seems incorrect, because it does not resemble the corresponding night curve. In fact, this daily curve is very similar to the April one.

L. 142-143. ‘lags 2 h’ – should be ‘lags by 2 h’.

L. 191. ‘in January of winter’ – in my opinion, this supplementary ‘of winter’ is unnecessary. Similar constructions are used many times without any additional information.

L. 191-203. A predominant part of the text can be excluded because it repeats Table 2, which is more convenient for readers.

L. 216-217. It is worth increasing the font size on the plots. ‘Sping’ should be replaced by ‘Spring’ in all legends; see also Fig. 8 (east), Fig. 10, 11. More distinctive curves are desired for spring and autumn on the upper left plot of Fig. 4.

L. 224-280. In my opinion, no necessity is to write down all these details about temperature changes. If this information seems absolutely needful, it can be presented in tables (analogously to Fig. 2) with only main conclusions in the text.

L. 227-228. ‘negative temperature variation rate was from 18:00 to 19:00, and the maximum of negative temperature variation was -2.3 °C/h’ – possibly, the word ‘rate’ is necessary in the second case (‘... rate was -2.3 °C/h’), not in the first case.

- L. 267. '9:00 to 15:00 of 9 h' – of course, the time range from 9:00 to 15:00 is not 9 h.
- L. 272. 'Among them, winter, spring, and summer were shorter than 1 h, and autumn was the same' – a reader can be very surprised to see the sentence about the seasons shorter than 1 hour.
- L. 275. 'the maximum warming rate was 4.9 h' – it is unclear why the warming rate is measured in hours (see also the next lines).
- L. 303-306. Font size in Fig. 5 is too small (see Fig. 10, 11 as well).
- L. 345. 'The' is written in a smaller font size in comparison with the following text.
- L. 435. 'Δq was positive' – it is necessary to clearly define what Δq is.**
- L. 452-456. 'Height' (or 'Altitude') should be instead of 'High' as a label on the ordinate axis on every plot.
- L. 461. 'the specific humidity of July and October' – should be 'the specific humidity in July and September'. October data were not used at all in the article according to a note in L. 116-117.
- L. 502. In the scheme, 'evapotranspiration' should be instead of 'evapotraspiration'.
- L. 576. 'Manuscripts are polished' – plural form suddenly appeared here. I assume that the sentence should relate to this manuscript.
- L. 601. 'Turulina, G' – a dot is needed after 'G'.
- L. 612. 'xinjiang' – should be 'Xinjiang'.
- L. 614. 'mesoscalecirculations' – should be 'mesoscale circulations'.
- L. 616. 'Chern' – should be 'Chen'.
- L. 617. 'andsensitivity' – should be 'and sensitivity'.
- L. 617. doi should be [https://doi.org/10.1175/1520-0493\(2001\)129<0569:CAALSH>2.0.CO;2](https://doi.org/10.1175/1520-0493(2001)129<0569:CAALSH>2.0.CO;2), see https://journals.ametsoc.org/view/journals/mwre/129/4/1520-0493_2001_129_0569_caalsh_2.0.co_2.xml. Besides, part of doi is underlined for some reason (see also L. 620, 622).
- L. 623. 'TypicalClear' – should be separately.
- L. 624. 'P. Meterro. Logy' – in my opinion, this is a strange shortened title confusing readers, see also L. 625.
- L. 625. 'Cl imatic' – should be 'climatic'.
- L. 639. 'taklimakan' – the first capital letter is required, see also L. 663.
- L. 655. 'china' – should be 'China', see also L. 666.
- L. 656. 'ace-asia' – should be 'ACE-Asia'.
- L. 656. 'Journal of geophysical research' – titles of journals are sometimes abbreviated, but in other cases (as here) they are presented fully. This representation should be unified.
- L. 672. 'Andrey, S.' – should be 'Sogachev, A.'; probably, the name 'Andrey' was too unusual for the authors.