

## **Authors response to the Editor Comments concerning “Diversity and seasonal dynamics of airborne Arachaea” by J. Fröhlich-Nowoisky**

We thank the Editor for the decision to accept the manuscript with some corrections. All corrections of the Editor were changed in the text as suggested by the Editor.

In Detail:

**Editor:** • Affiliations: I suggest renumbering because the third author has now a affiliation 9.

**Response:** We renumbered the affiliations

**Editor:** • Line 45-46. I suggest deleting the sentence “ Also, anthropogenic.... ” because that is just a side-line which is not really discussed in your manuscript.

**Response:** We deleted this sentence.

**Editor:** • Line 154-155: ...) we used 3 primer pairs as well as nested primers to increase the amplification success. Thus, ...

**Response:** We changed the word order as suggested

**Editor:** • Line 265-266: sequences is low compared to modern NGS techniques, we performed...

**Response:** We changed the word order as suggested

**Editor:** • Line 327: delete space after sequences

**Response:** we corrected this

**Editor:** • Line 373: consider rewriting short-term sample-to-sample basis... (this is to improve readability).

**Response:** To increase readability we changed the sentence into: *“We found that on a short term sample-wise basis the relative species diversity of Archaea correlates significantly with wind speed (negative correlation, p-value=0.01, Table S6, Fig. S2a).”*

**Editor:** • Line 446: Replace on the other hand with however because there is on the one hand and they should go together

**Response:** We substituted “On the one hand” with “However”, as we did not use “On the one hand” in the text.