

## ***Interactive comment on “Diversity and seasonal dynamics of airborne *Archaea*” by J. Fröhlich-Nowoisky et al.***

**Anonymous Referee #1**

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Excellent paper by Frohlich-Nowoisky and coauthors on the unknown diversity and seasonality of Archaea in air particulate matter. The experimental setting was carefully considered and i am pleased to see all the controls and considerations they were taken into account to support their conclusions. The topic is sound and the conclusions have important implications for the biogeography of Thaumarchaeota (and methanogens). I am ashamed to say that i don't have any comments....the paper was well-written and supported. Just one thing: I haven't found anywhere the detection limits of the QPCR assay for Archaea and bacteria 16S rRNA gene. Also, please include the R<sup>2</sup> and efficiency of those QPCR reactions. Typing error: database (not data-base); line 26, page 6964, Thaumarchaeota

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