

Interactive comment on “Ambient measurements of biological aerosol particles near Killarney, Ireland: a comparison between real-time fluorescence and microscopy techniques” by D. A. Healy et al.

Anonymous Referee #1

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"Ambient measurements of biological aerosol particles near Killarney, Ireland: a comparison between real-time fluorescence and microscopy techniques" is a relatively straight forward instrumentation paper comparing WIBS-4, UV-APS and a Sporewatch particle impactor and a worthy addition to the literature via ACP. I recommend publication with consideration to minor adjustments.

Minor Technical adjustments.

1. The first sentence of the abstract is difficult to read past "...in many environments,

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may thus influence..." and I suggest fragmenting this sentence. 2. Page 3878 line 15, consider using a comma after "Recently". 3. Page 3878 line 17, The acronym IN first appear but is not specified. 4. Please consider adding to the introduction a very brief description illustrating how important the context of the biological aerosol types measured by these instruments are within the bigger biological field, eg I would like to be able to have an indication in the text as to whether these instruments capture the full bio-aerosol picture. 5. Within the text associated with the description of Figure 2 there are comments about how comparable the Spore concs in (a) are with the measurements FL1-3 and UV-APS (b-e). This is difficult to judge and becomes clearer once the text moves to Figure 6. Maybe this could be pointed out in the text.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 3875, 2014.