Appendix A

The Figure in this appendix is equivalent to Figure 4, but shows the processed measurements.

![Figure A1](image)

**Figure A1.** Notation same as Figure 4 but for a) linearly detrended data, b) high-pass filtered data with cut-off frequency of 1/600 Hz and c) high-pass filtered data with cut-off frequency of 1/300 Hz.

Comparing the raw data in Figure 4, to the linearly detrended data and high-pass filtered data in Figure A1 it is seen that the detrending, and high pass filtering slightly lowers the values of $\mu_u$, while the reduction of $\sigma_{\sigma_u}$ is much greater, especially for the high-pass filtered measurements.

Appendix B

Figure B1 shows extreme moments as function of the u-component of the mean hub-height wind speed. Each dot shows the maximum/minimum load value of each 10-minute HAWC2 simulation for the tower top (top panels), the tower base (middle panels) and blade root (bottom panels). The simulations based on a particular extreme variance event may be identified as a cluster of six dots, as they have been simulated with six different turbulence seeds. For DLC 1.3 a cluster of six dots may be seen, as the simulations are performed with six turbulence seeds per mean wind speed step. Figure 9 shows the values from Figure B1, binned and averaged.

*Competing interests.* The authors declare that no competing interests are present in this work.

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