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Comment

Interactive comment on “Removing low-frequency artefacts from Datawell DWR-G4 wave buoy measurements” by J.-V. Björkqvist et al.

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Firstly, we would like to express our gratitude and acknowledge the efforts taken to review our manuscript. We are happy that other users that have encountered this same issue may benefit from our work.

The comments are answered below:

Comment 1: The caption of Figure 3 is confusing in that panel a) is never identified.

Answer: The caption reads

”A schematic illustration of the approach to correct a wave spectrum with erroneous trend. The method scales the spectrum by multiplication of f^2 to reveal the power law

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of the erroneous trend (b). The level of the trend (dashed magenta) is determined from the low frequencies where the scaled spectrum is constant, and the trend is removed from all frequencies. The de-scaled spectrum is shown in (c).”

The comment is to the point and we have therefore now identified panel a).

The new caption is (addition in bold):

”A schematic illustration of the approach to correct a wave spectrum with erroneous trend. **A hypothetical spectrum containing erroneous low-frequency energy is shown in (a).** The method scales the spectrum by multiplication of f^2 to reveal the power law of the erroneous trend (b). The level of the trend (dashed magenta) is determined from the low frequencies where the scaled spectrum is constant, and the trend is removed from all frequencies. The de-scaled spectrum is shown in (c).”

Comment 2: Figure 5 should be redrawn with a smaller range in the y-axis.

Answer: Also this is a valid comment. We have redrawn Figure 5 with a y-axis ranging from -0.4 to 0.4 instead of the original -0.5 to 3 ($m^2 Hz^{-1}$). A new version of the Figure is attached.

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., 5, 363, 2015.

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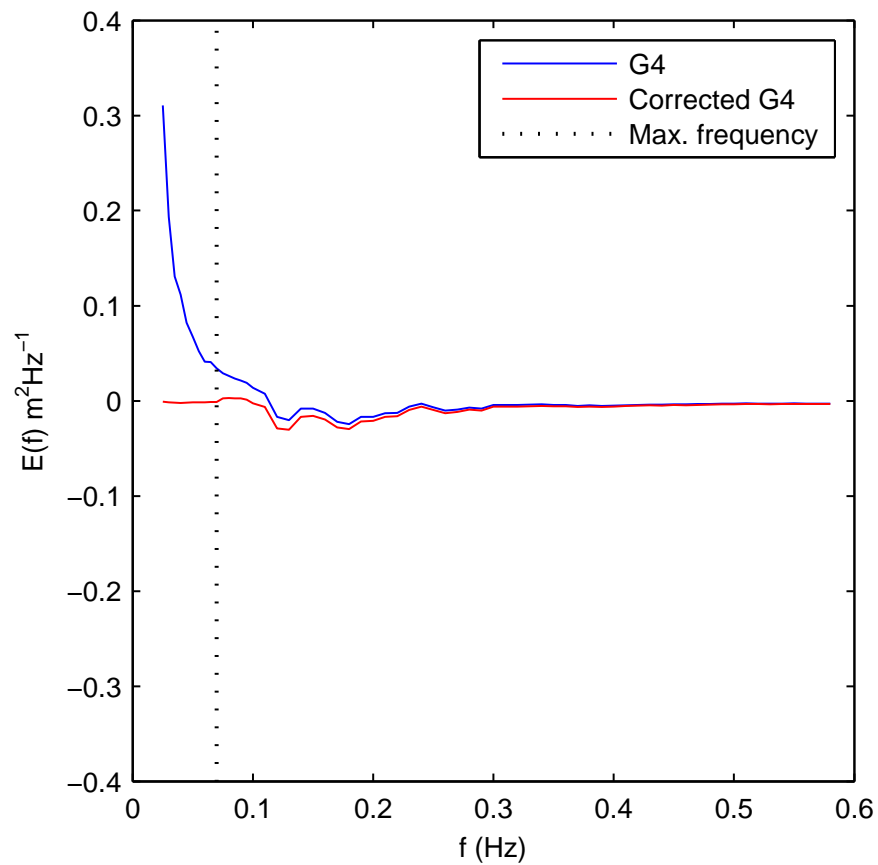
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Fig. 1.

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