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Geoscientific Instrumentation Methods and Data Systems Discussions

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

Anonymous Referee #1

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The paper investigates an artefact present in the measurements from a commercial wave measurement buoy, the Datawell DWR-G4. Although the authors do not explain the exact source of the problems, they describe it well, and provide an algorithm for removing the artefact. The algorithm is fairly straightforward, and the authors give several examples of its application. A simple matlab function file containing the algorithm is provided. The problem is important, at least for users of the DWR-G4, and the paper is of high technical quality. I have used the G4 wave buoys in the past, and we also experienced problems at low frequency that influenced both the Hs and peak frequency. It is good to see this issue resolved.

The paper is well written, and has few technical or grammatical faults. The caption of Figure 3 is confusing in that panel a) is never identified. Figure 5 should be redrawn

with a smaller range in the y-axis. There are no other changes I would recommend.

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