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Interactive comment on "A Simple Method for Retrieving Significant Wave Height from Dopplerized X-Band Radar" *by* Ruben Carrasco et al.

Anonymous Referee #1

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The experimental results proof that the used coherent radar system is capable of estimate significant wave height properly. The results are convincing and, therefore, this work is suitable of being published.

There are some minor changes that the authors should be address:

Page 1. Line 10: the Doppler effect is induced by all the movement of the water surface, not only orbital velocities. Although from the obtained results it seems that the orbital velocities were dominant in the Doppler velocity measurements

Page 2. Line 4. The word "low" should be removed of this sentence, as, for grazing incidence conditions, the incidence angle has high values, close to 90 degrees.

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Page 3. Equation 1. The last member of the equation should not have a differential of the phase, as it is multiplied by PRF. This member is an approximation of the member in the middle. For a better mathematical notation increment of the phase instead a differential should be written. In that case, the last member would contain an approximation of the derivative.

Page 6. The sentence in line 10 and 11 is not clear. Furthermore, the units of Tp are missing. Please, rewritten.

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