

## ***Interactive comment on “Intermittent particle dynamics in marine coastal waters” by P. R. Renosh et al.***

**Anonymous Referee #1**

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The paper is clear and well written, and the subject (assessment of the intermittency in the distribution of particle sizes) is of high relevance. It is technically sound and deserves publication, once some minor issues are addressed.

In equation 5 it is unclear why the index runs from 6 to 31, especially then several times in the paper it is stated that 4 classes are used. Please clarify.

In equation 6 the notation  $C_s$  (the autocorrelation of the entropy  $S$ ) is used without having been introduced. Please correct.

$a(t)$  in equation B3 should be uppercase or all the other lowercase.

The determination of the Hursts exponents should go along with an estimation of the uncertainty; as errorbars are calculated in Figure 8e, propagating the error for the

C331

determination of the slope should not be an issue. This would allow assessing if the observed differences in Hurst exponents are significant or not.

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Interactive comment on Nonlin. Processes Geophys. Discuss., 2, 1033, 2015.