

## ***Interactive comment on “Statistical trend analysis and extreme distribution of significant wave height from 1958 to 1999 – an application to the Italian Seas” by G. Martucci et al.***

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On the comment on the correlation less than 0.1, at the end of Section 2. \_\_\_\_\_  
\_\_\_\_\_ We thanks the reviewer and agree that the text should have been clearer, and we will certainly act so in the revised version. The following text should better explain the procedure we followed:

The autocorrelation coefficient accounts for the degree of correlation amongst data belonging to the same timeseries. In our case, data are separated by 3-hours lag, and our routines seek for the minimum temporal distance (lag) between two data points for which the autocorrelation coefficient is less than 0.1, a value that was considered to

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ensure the independency among the events.

On the comment on the correlation coefficient, in Section 3. \_\_\_\_\_  
\_\_\_\_\_ Again, we apologize with the Reviewer for not having made the text clear. A possible version in the revised version could be the following:

"Each of the three F(Hs) distribution –described in the following Section 3.4- is fitted to the two datasets obtained using POT and rmax criteria: two sets of correlation coefficients are then obtained, one for the F(Hs) distributions applied to the POT dataset, and one for the F(Hs) distribution applied to the rmax dataset. The highest correlation coefficient out of the 6 computed determines the choice of the corresponding distribution F\_best(Hs) and of the dataset (POT or rmax)."

Interactive comment on Ocean Sci. Discuss., 6, 2005, 2009.