

# Supporting Information for "Power Spectral Density Background Estimate and Signals Detection via the Multitaper Method."

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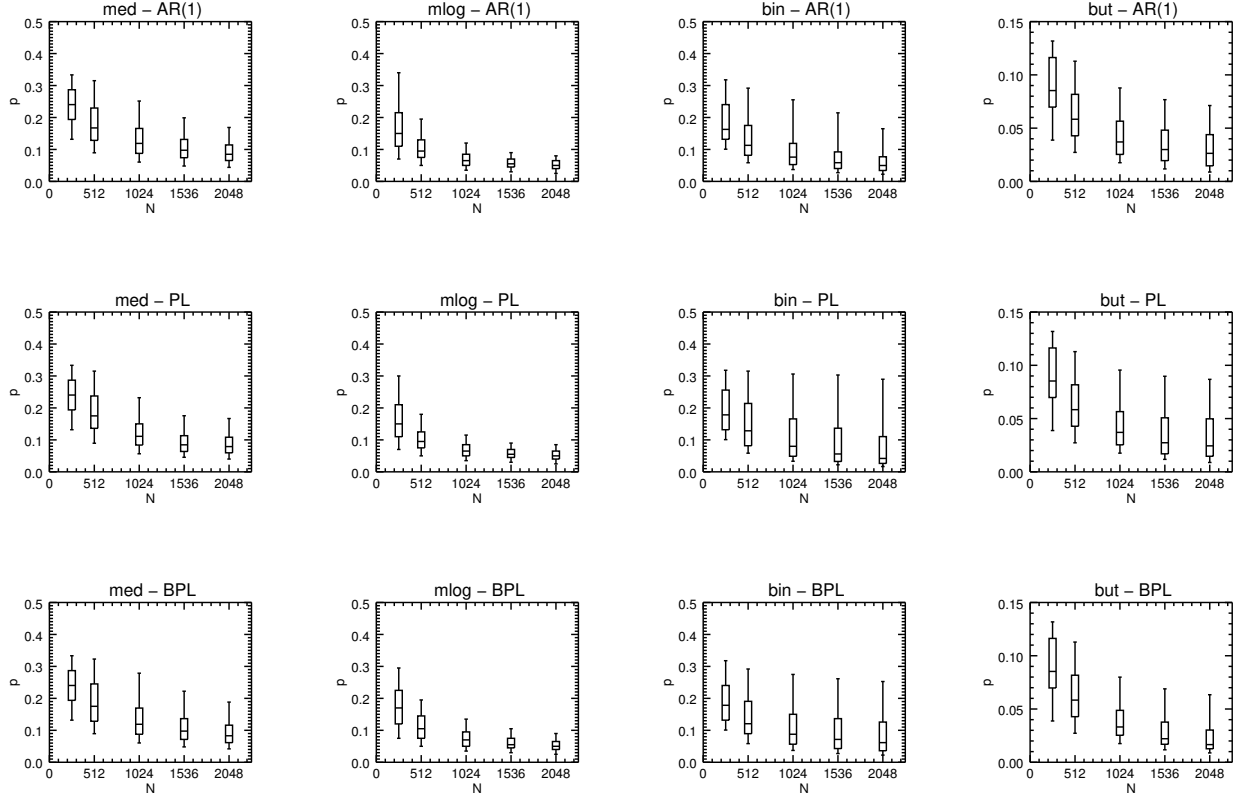
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1. Figure S1

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**Figure S1.** The distributions of the  $p$  parameter for each smoothing approach applied on  $10^4$  PSDs of AR(1), PL, and BPL time series of length  $N$ . For the *med*, *mlog*, and *bin* approaches,  $p$  determines the width of the running window; for the *but* approach,  $p$  defines the low pass band of the Butterworth filter. Each box represents the interquartile range, while the horizontal line inside indicates the median value. The whiskers identify the 5% and 95% percentiles of the distribution.