

# Supporting Information for "Eruption Forecasting of Strokkur Geyser, Iceland Using Permutation Entropy"

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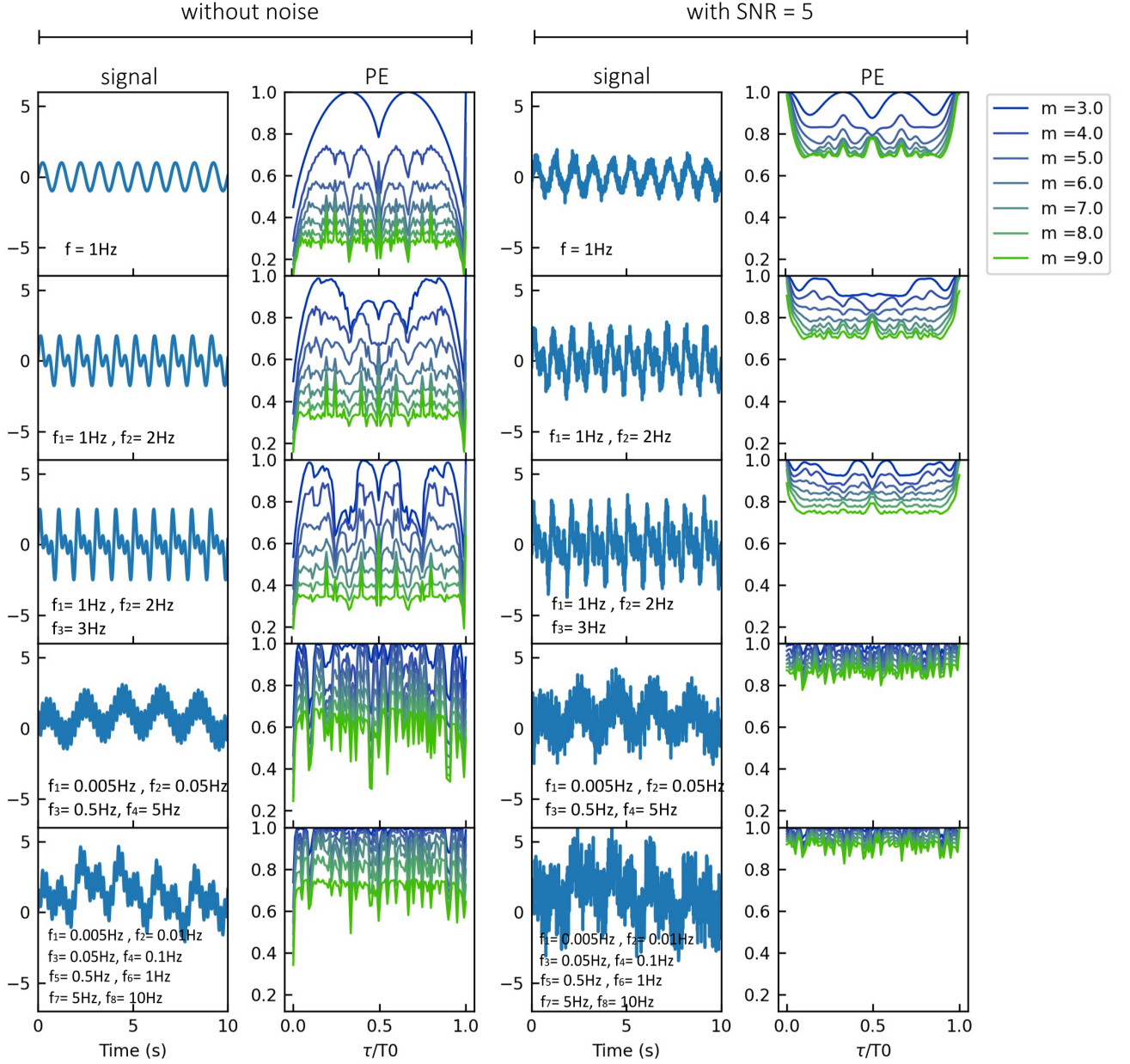
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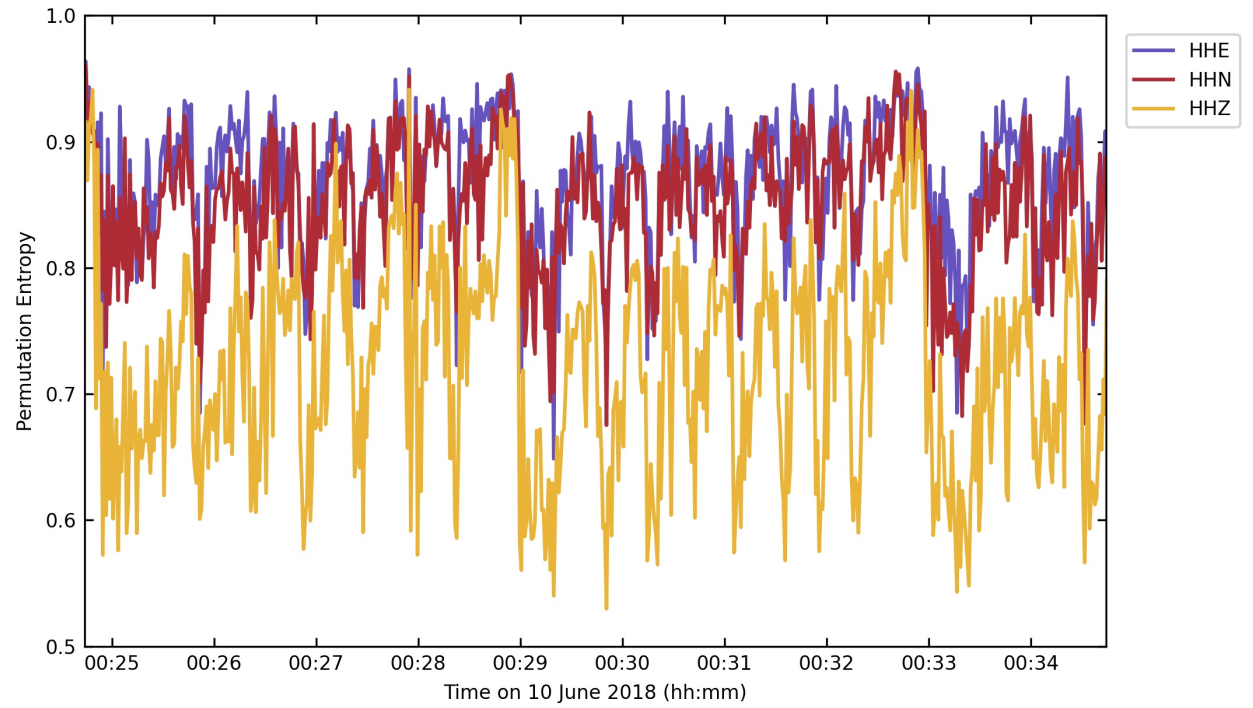
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1. Figures S1 to S4

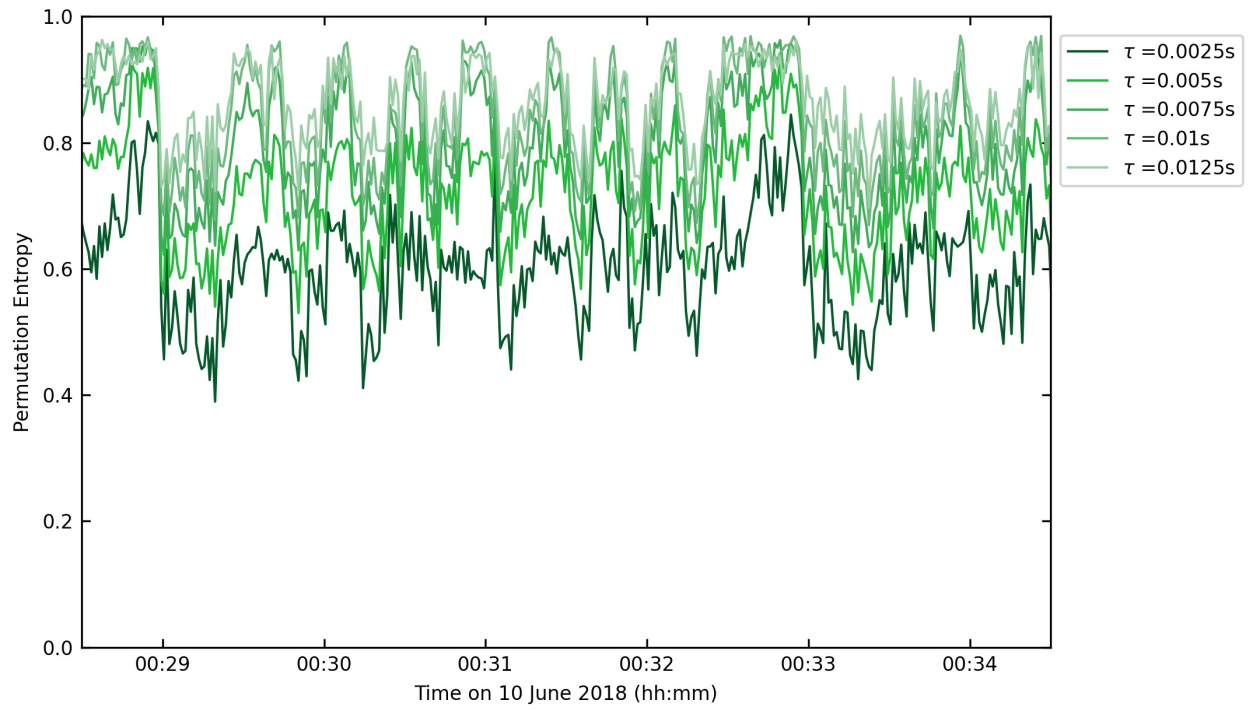
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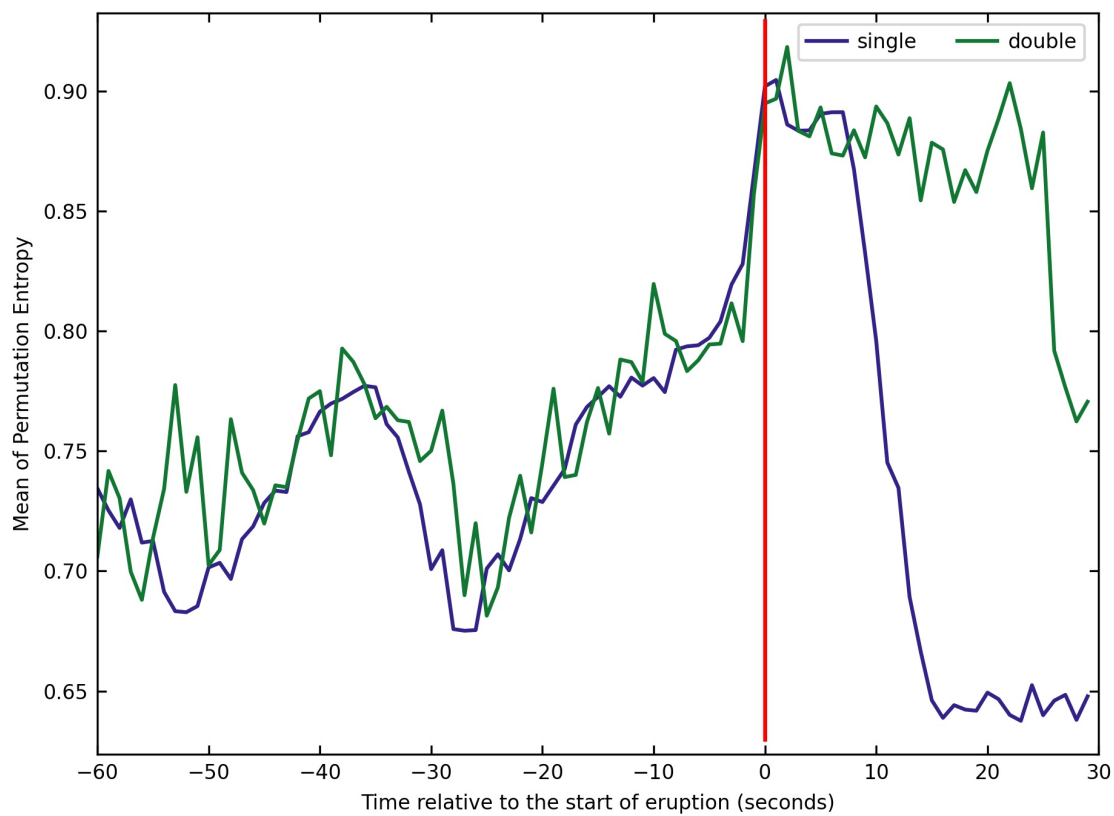
**Figure S1.** Synthetic test for the dependence of PE on the delay time using five different types of signals, with and without noise, and an embedding dimension ranging from 3 to 9. The frequencies used to create the signals are listed in the figure, the delay time ranges from  $1/T_0$  to  $T_0$ , where  $T_0$  is the fundamental period of the signal.



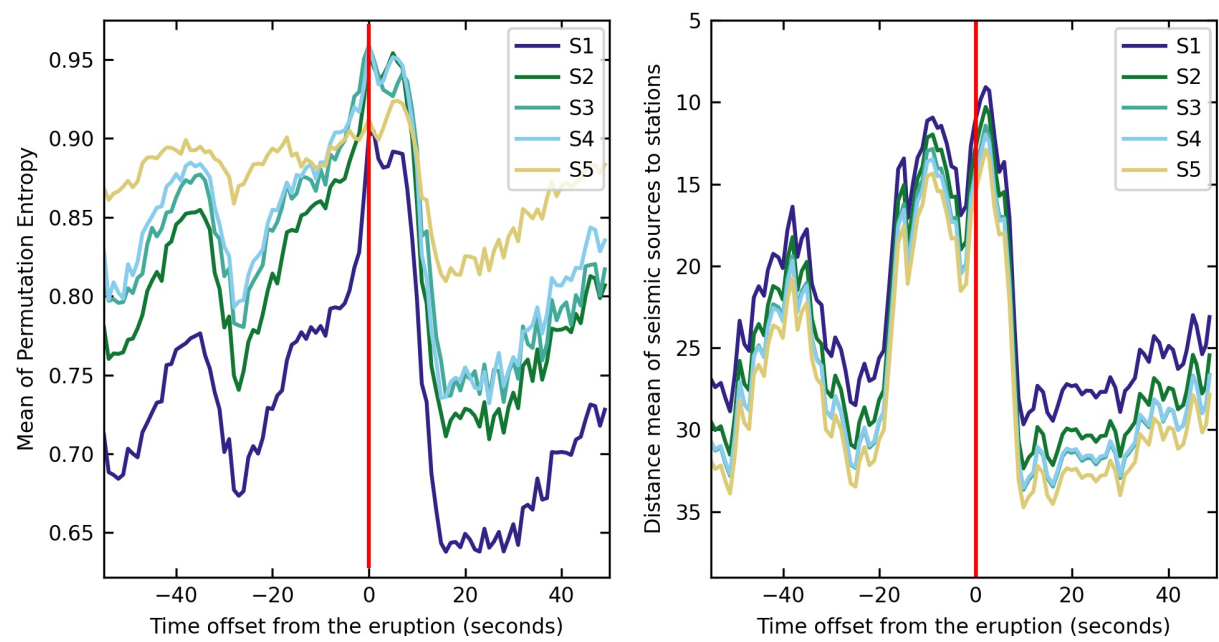
**Figure S2.** PE calculated for the horizontal and the vertical components at station S1, using embedding dimension 5 and a delay time of 0.005 s.



**Figure S3.** PE calculated for seismogram recorded at station S1 for the vertical component using an embedding dimension of 5 and delay times between 0.0025 s to 0.0125 s.



**Figure S4.** Mean of stacked PE aligned at the start of the eruption (red vertical line) related to the 53 single eruptions (blue) and 8 double eruptions (green).



**Figure S5.** The mean of stacked PE (left) and source-station distance (right) aligned at the start of the 53 single eruptions calculated for five different stations: S1 (dark blue), S2 (green), S3 (light green), S4 (light blue), and S5 (yellow).