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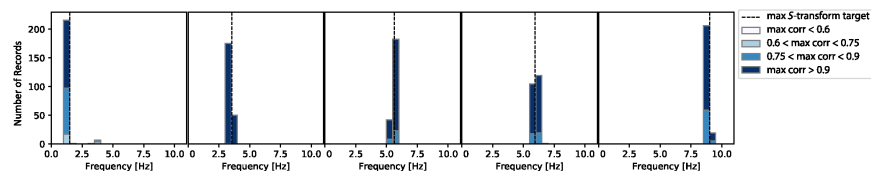


Figure Legend:

Distribution of the frequency in which the coherence product between the S-transforms of matched and target histories reaches the maximum value. The values in the legend indicate the different maxima values, in which 1 stands for high coherence between the S-transforms (as the case shown in Fig. 3) and a value lower than 0.6 stands for a low coherence. Dashed vertical lines indicate the frequency of the maximum S-transform amplitude on the target accelerogram. The color version of this figure is available only in the electronic edition.