

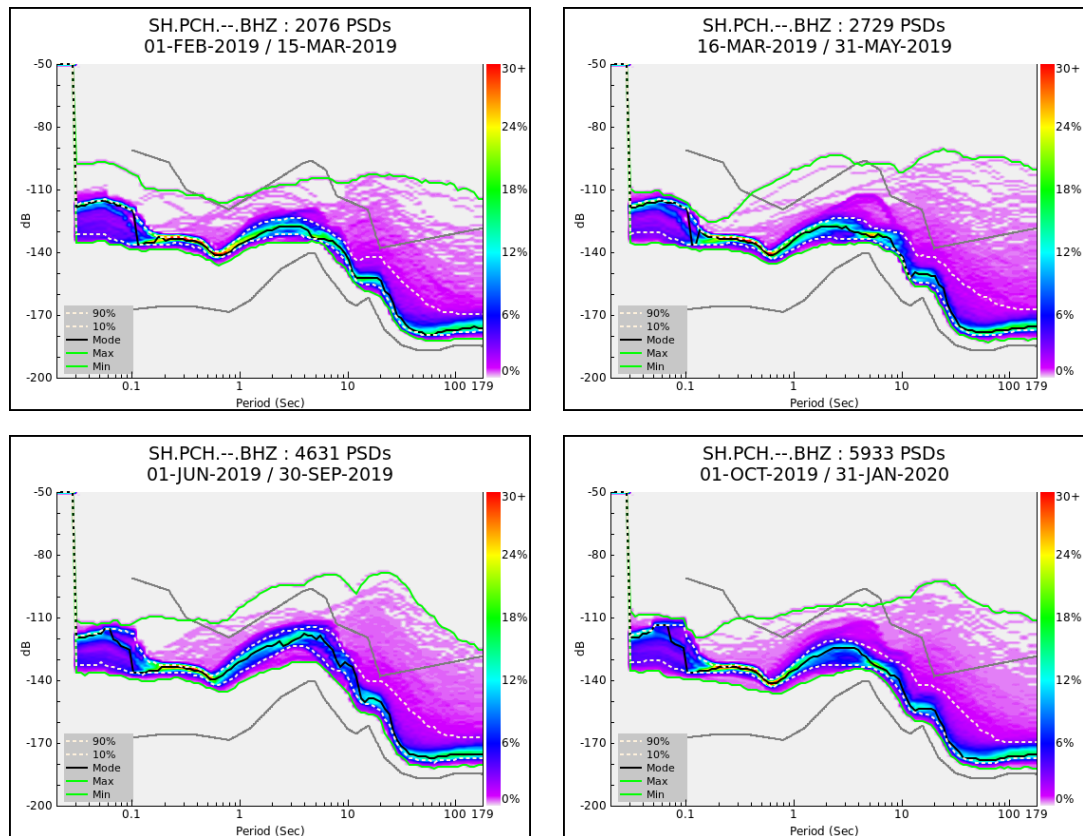
Supplementary Material of

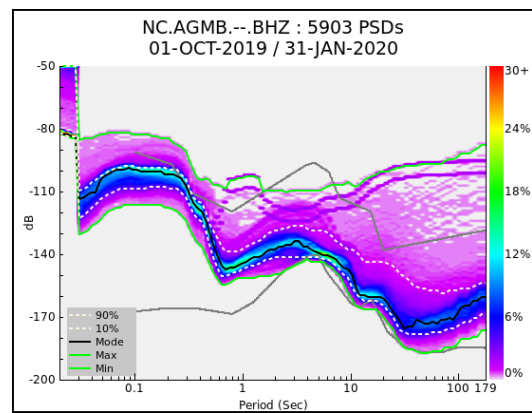
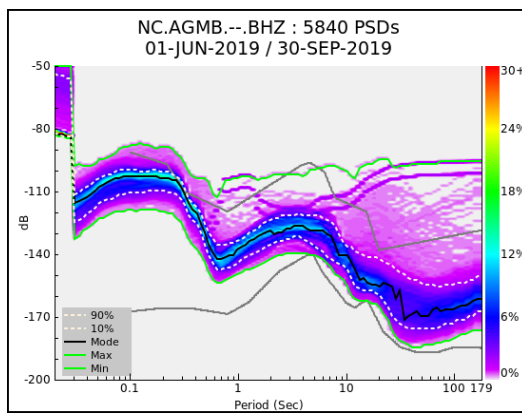
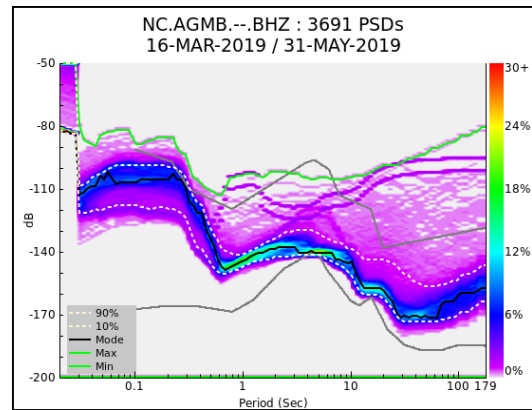
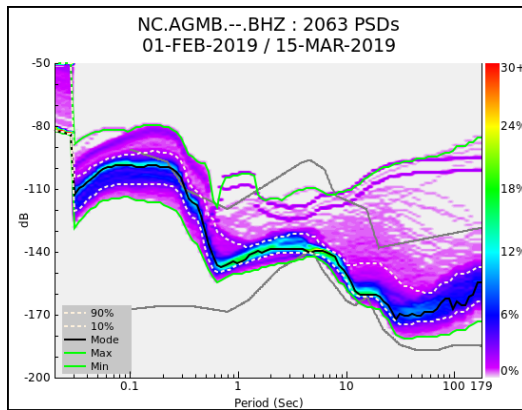
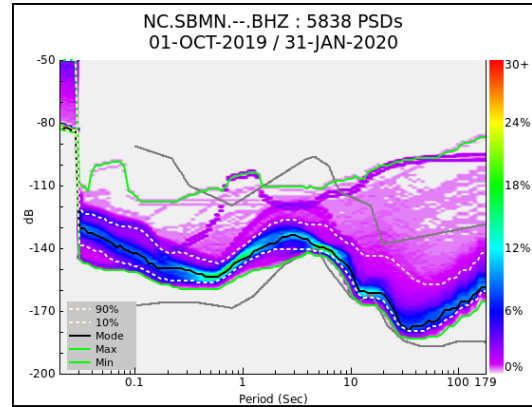
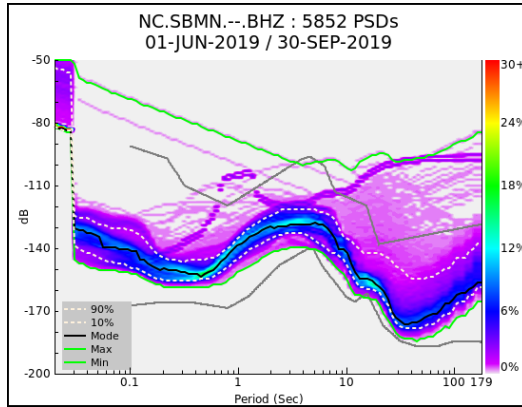
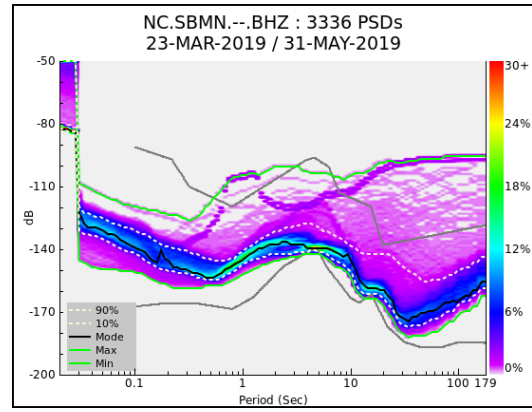
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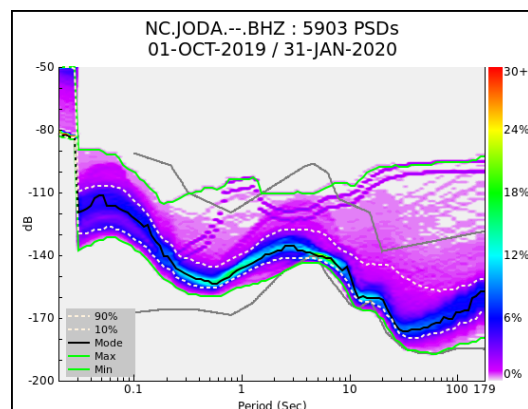
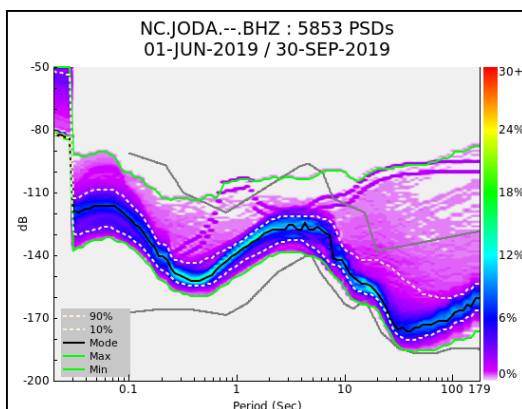
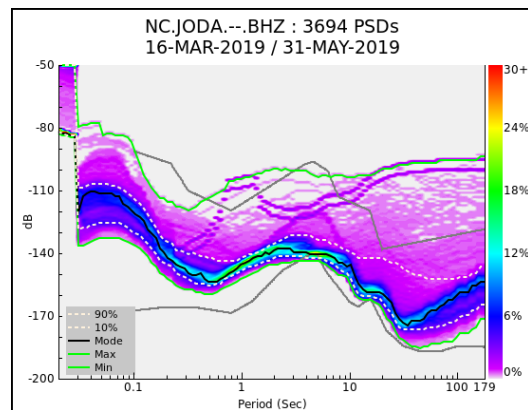
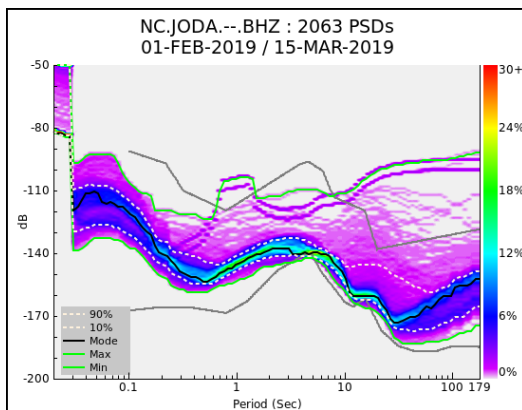
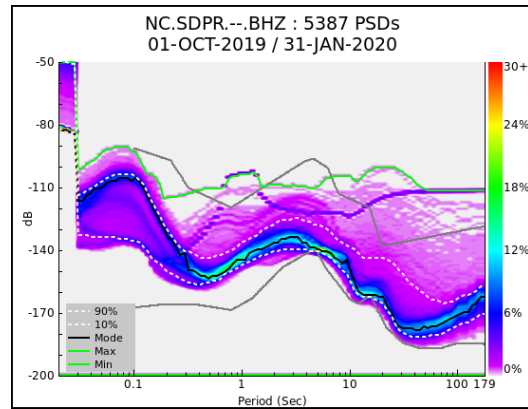
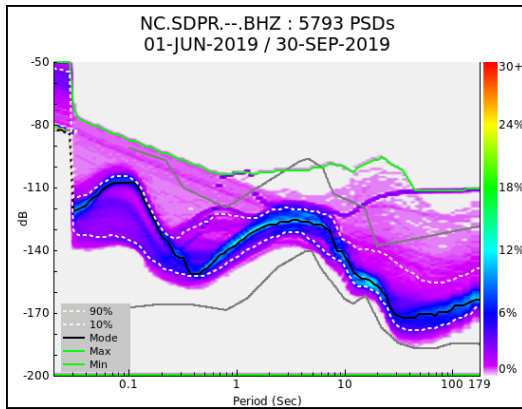
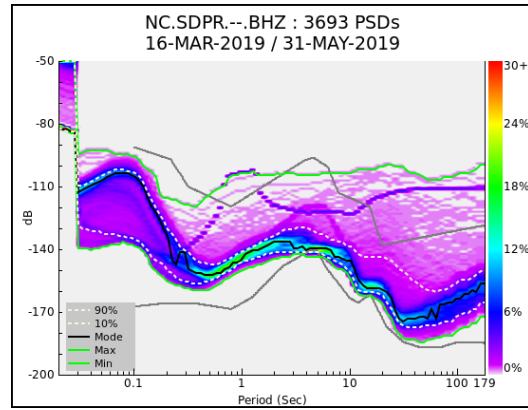
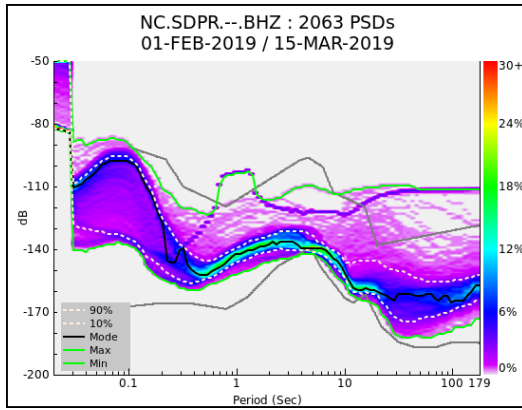
Krishna Jha¹, Padma Rao B^{1,*}, Sribin C¹, Silpa S¹

¹National Centre for Earth Science Studies, Ministry of Earth Sciences, Government of India,
Thiruvananthapuram, India

*Corresponding author: padmarao.india@gmail.com







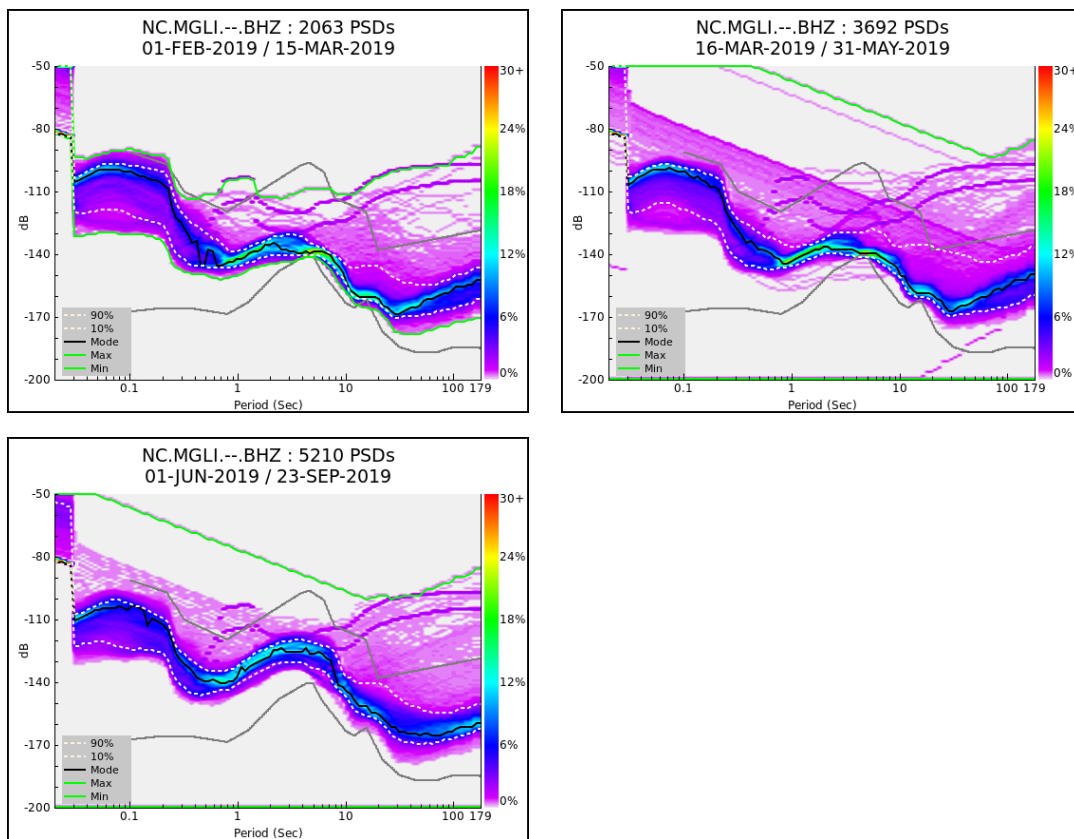
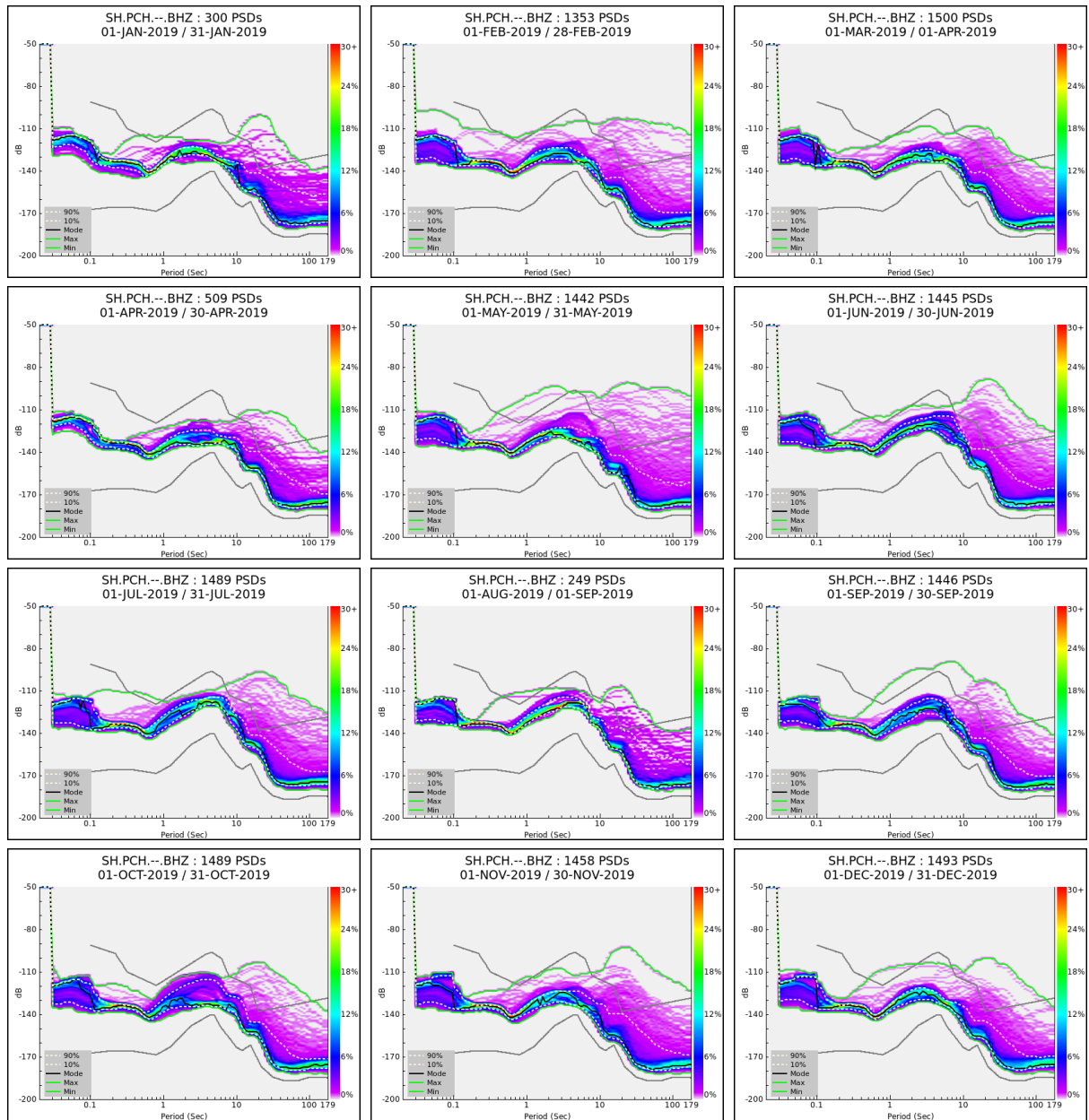
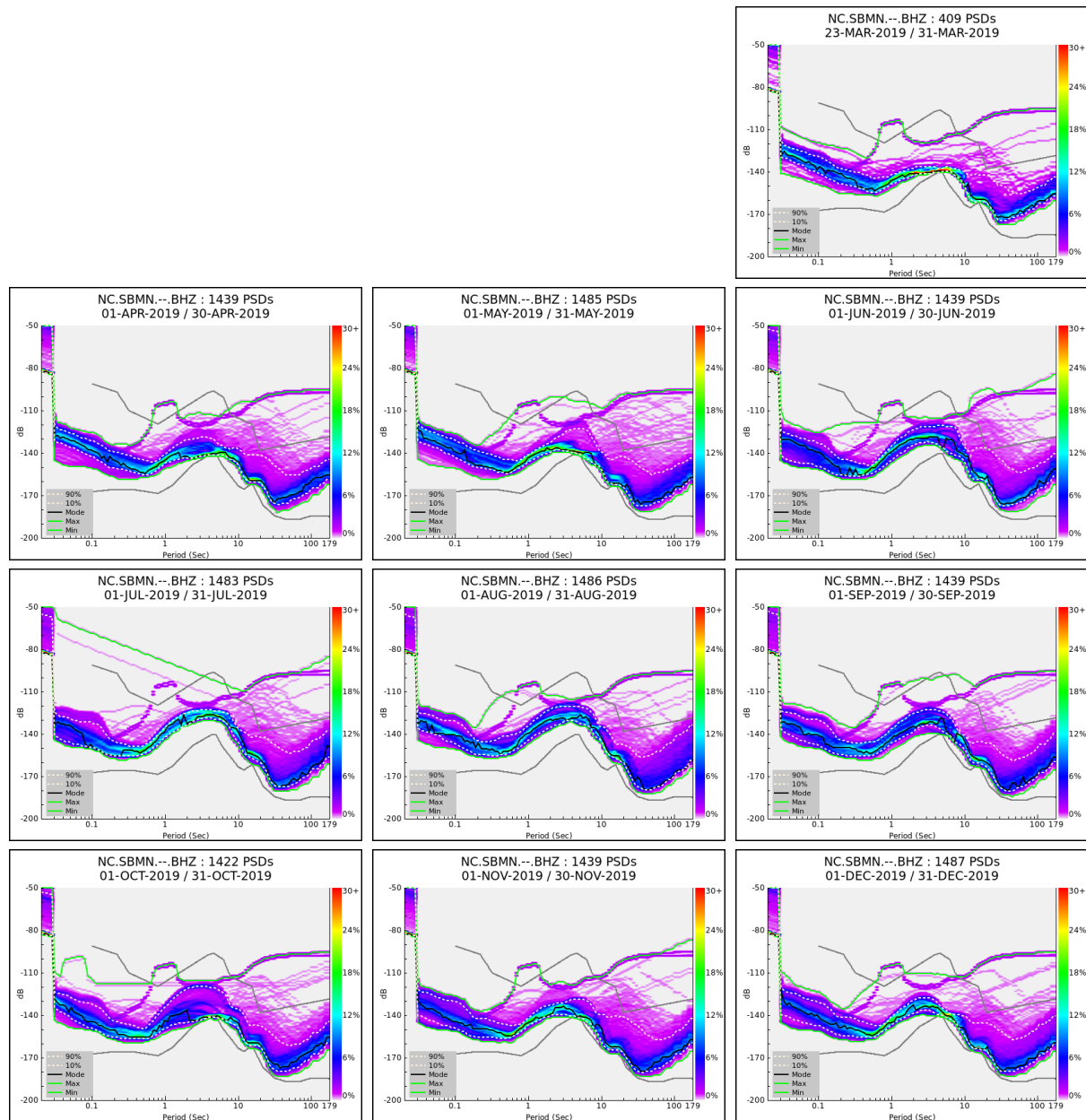
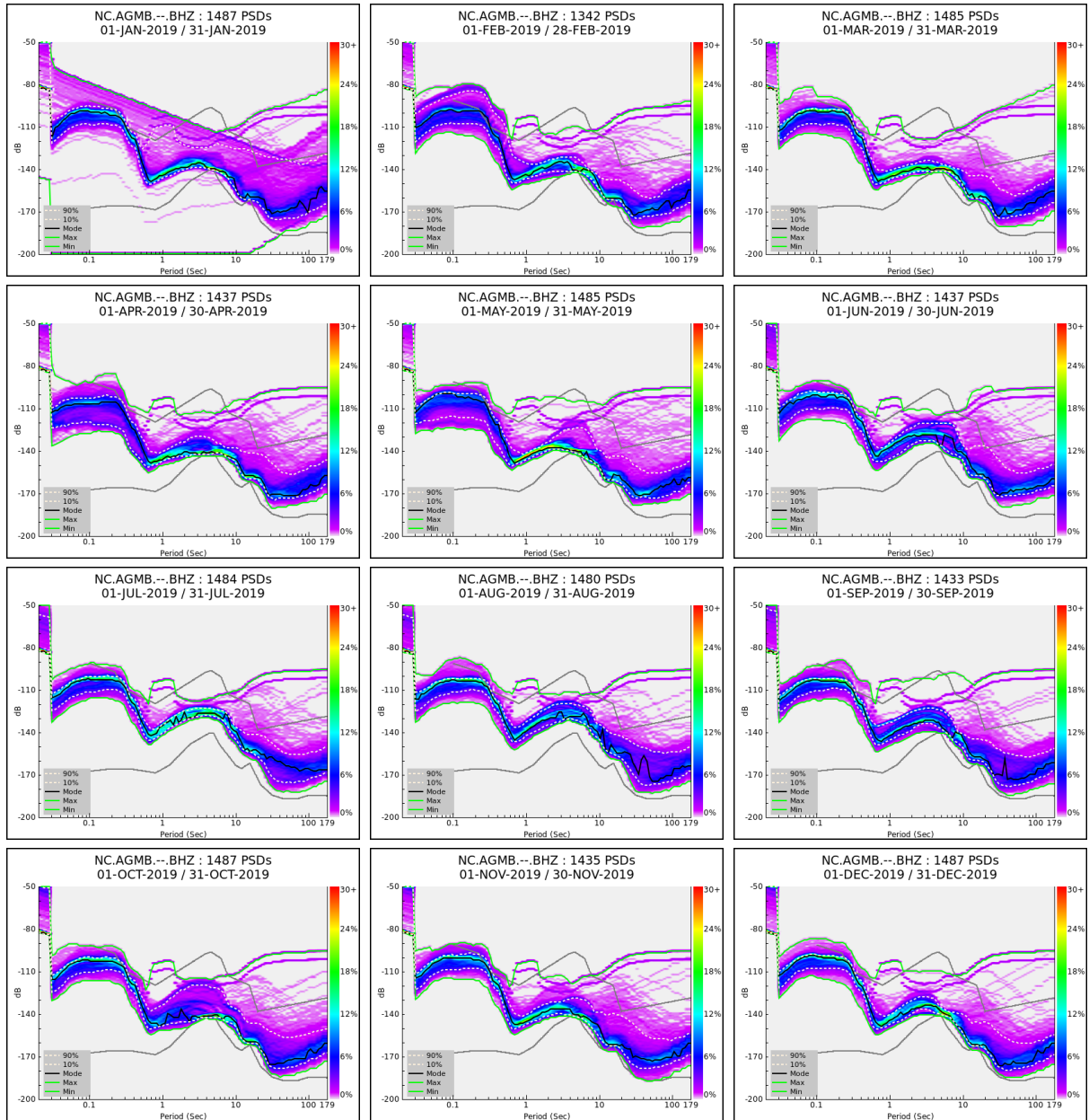
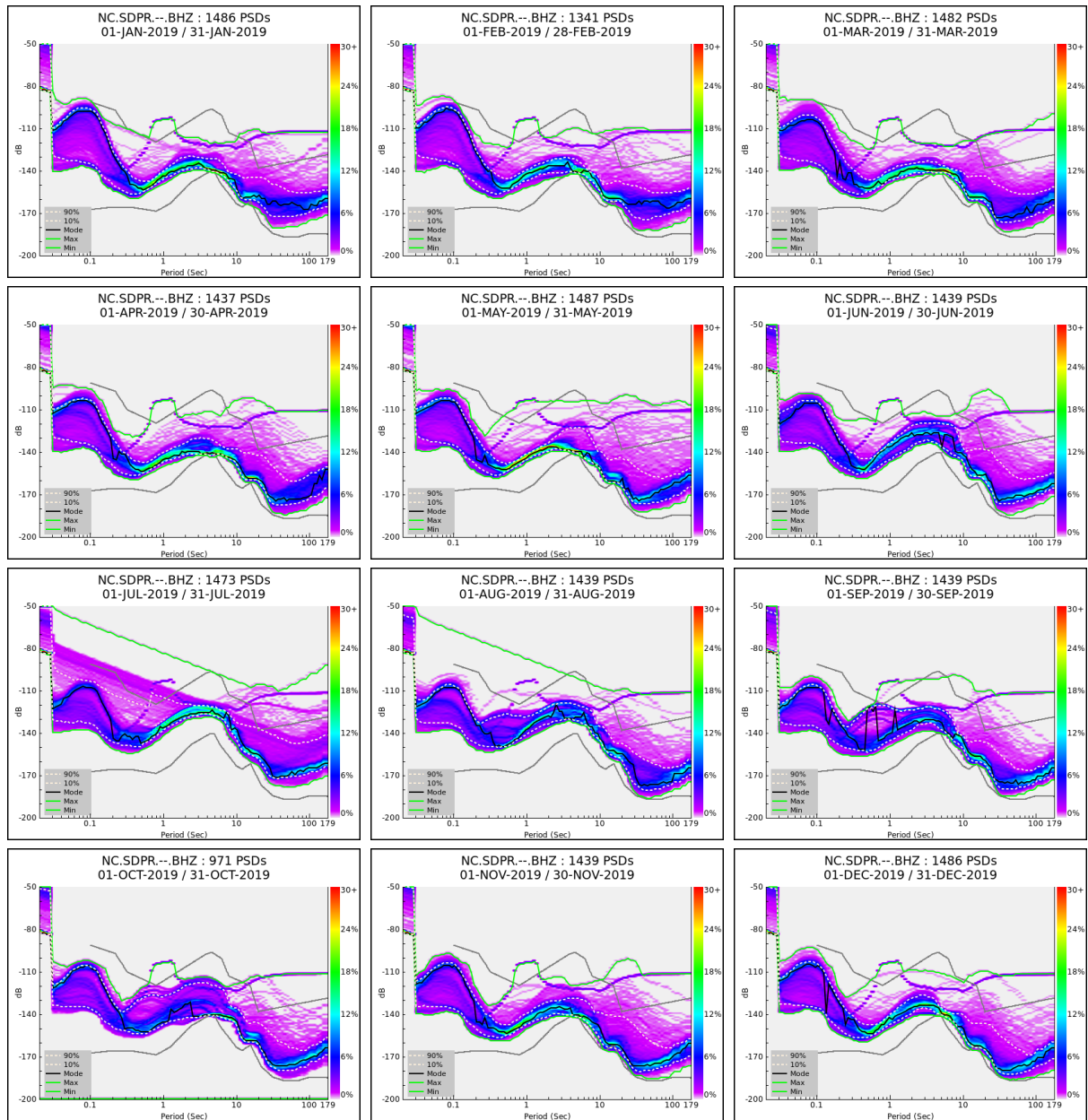


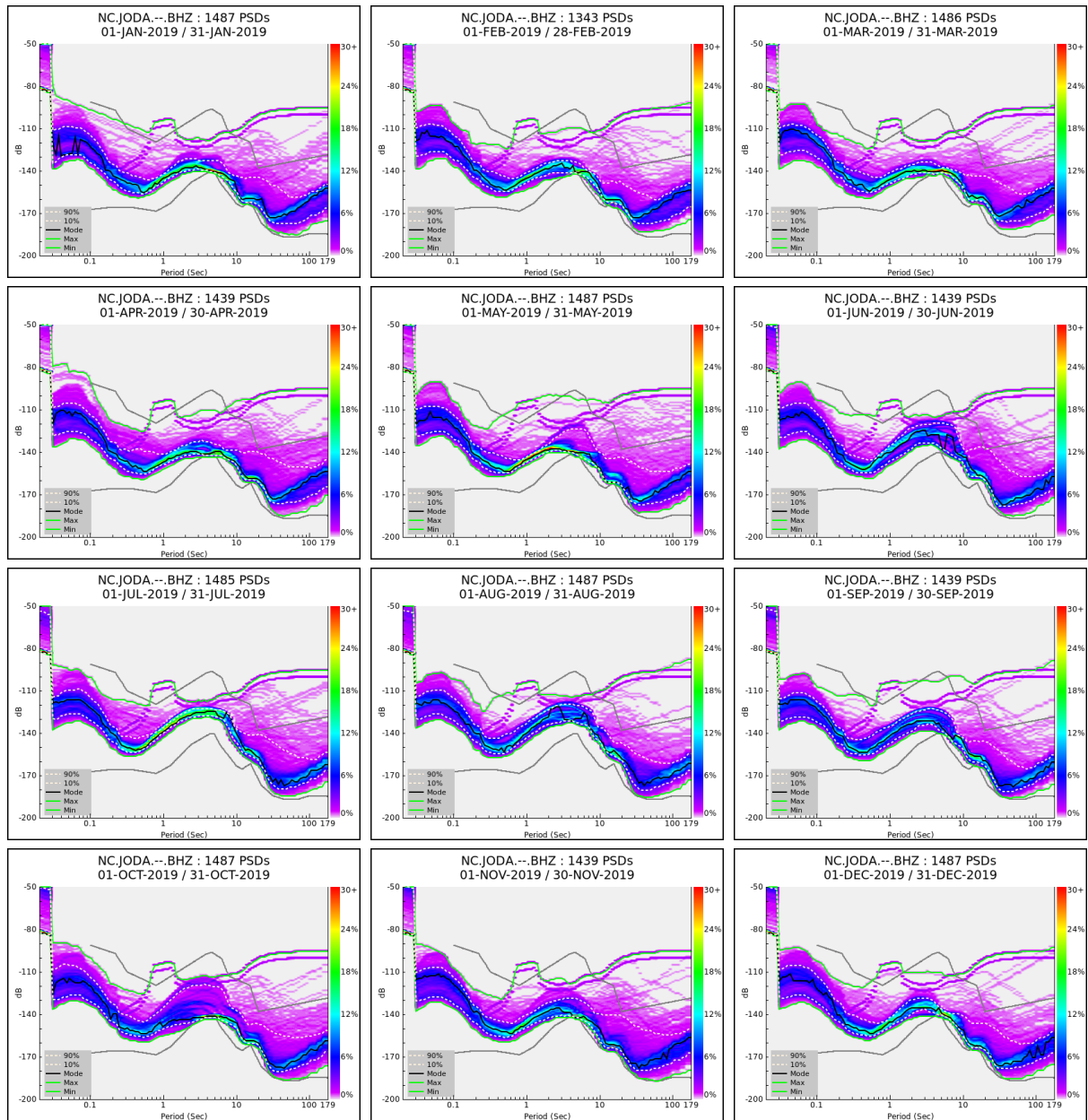
Figure S1: Season wise PSD plots (spring, summer, monsoon, winter) at PCH, SBMN, AGMB, SDPR, JODA and MGLI stations.











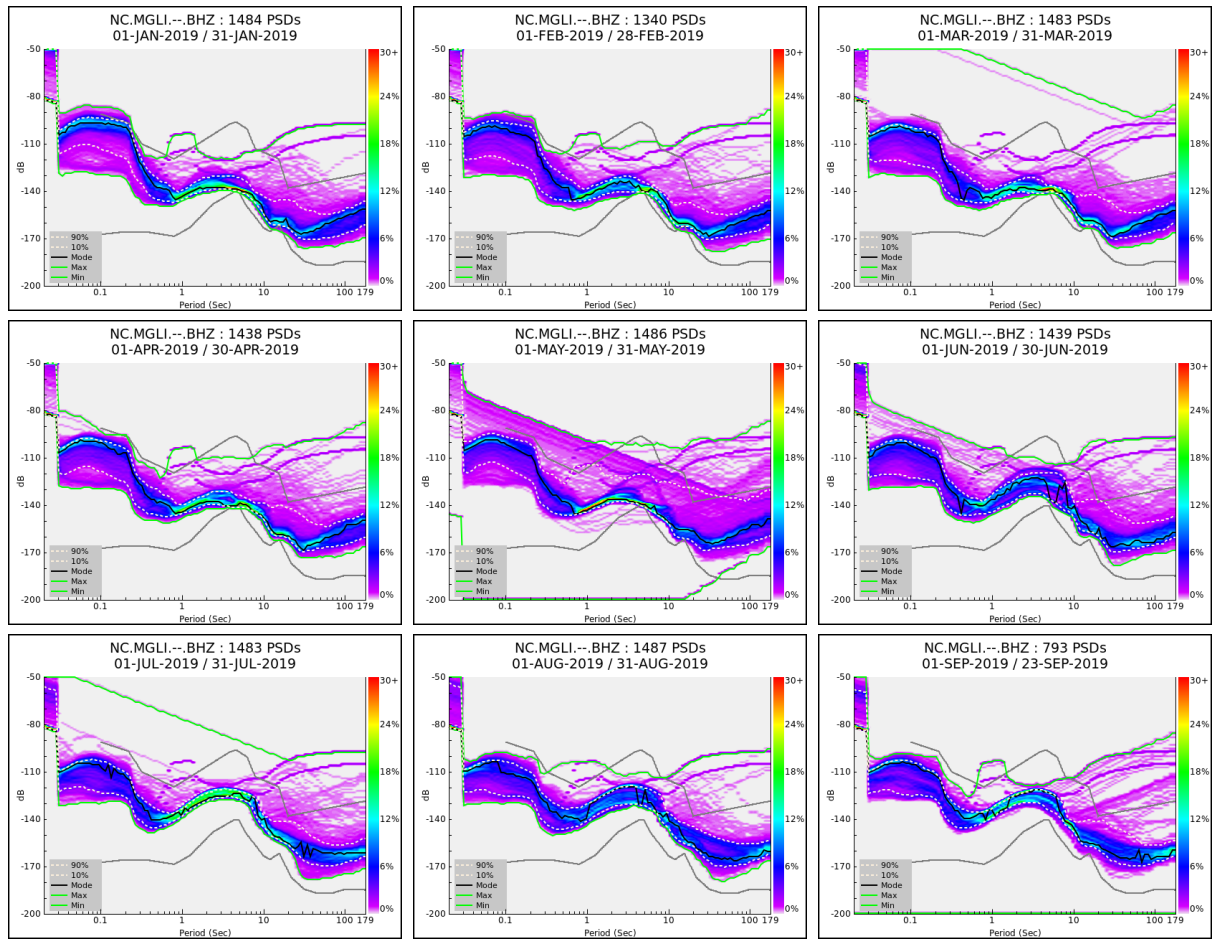
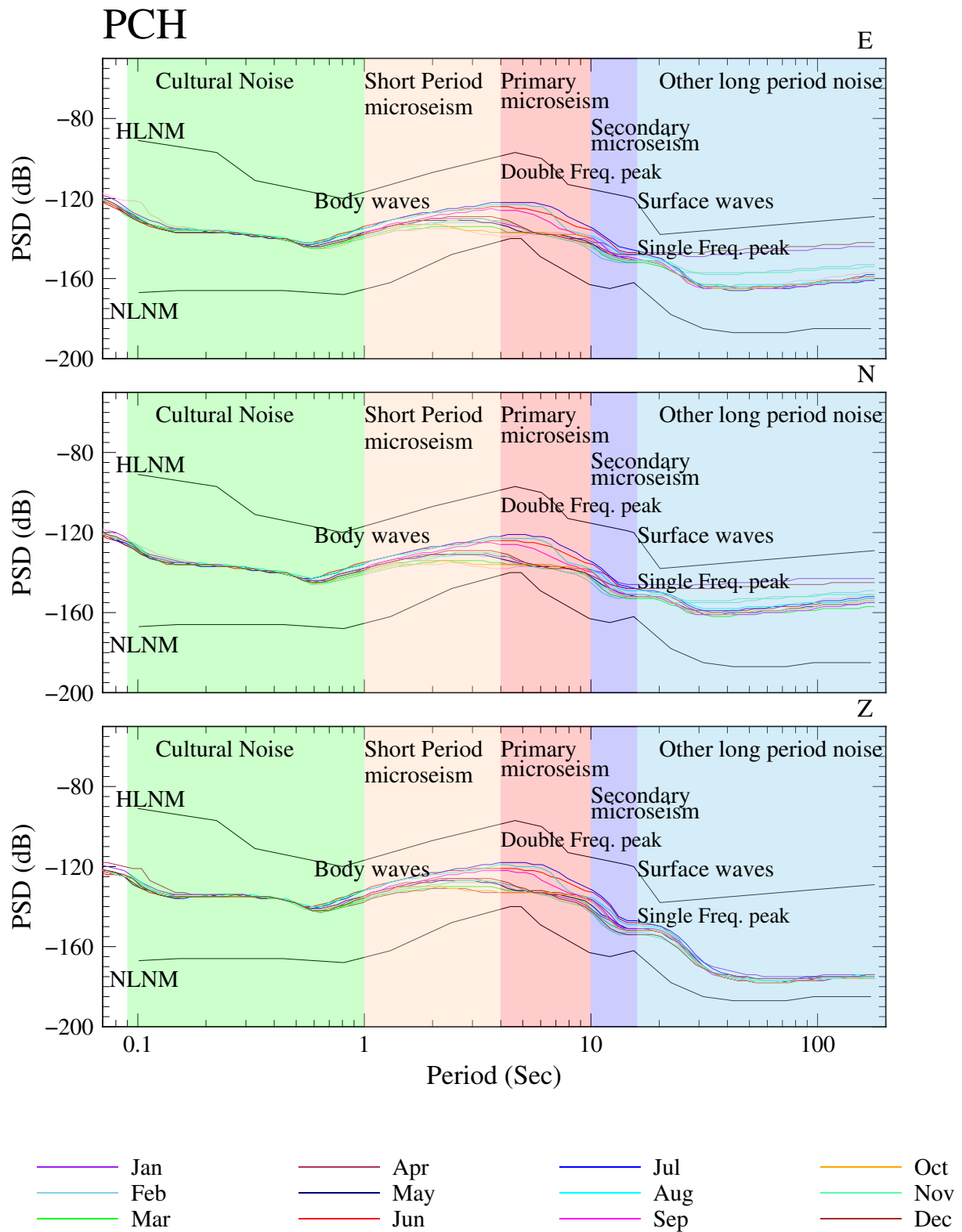
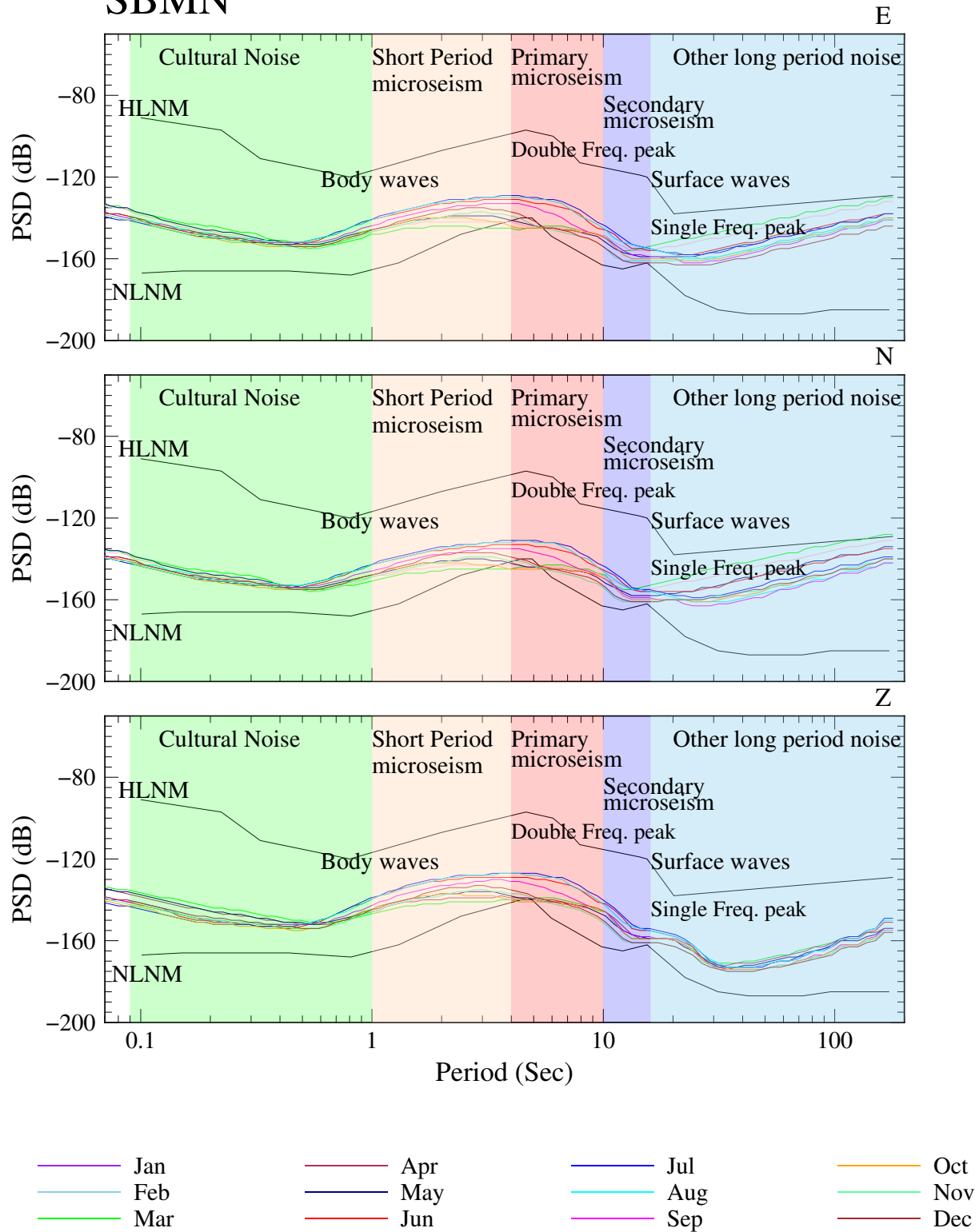


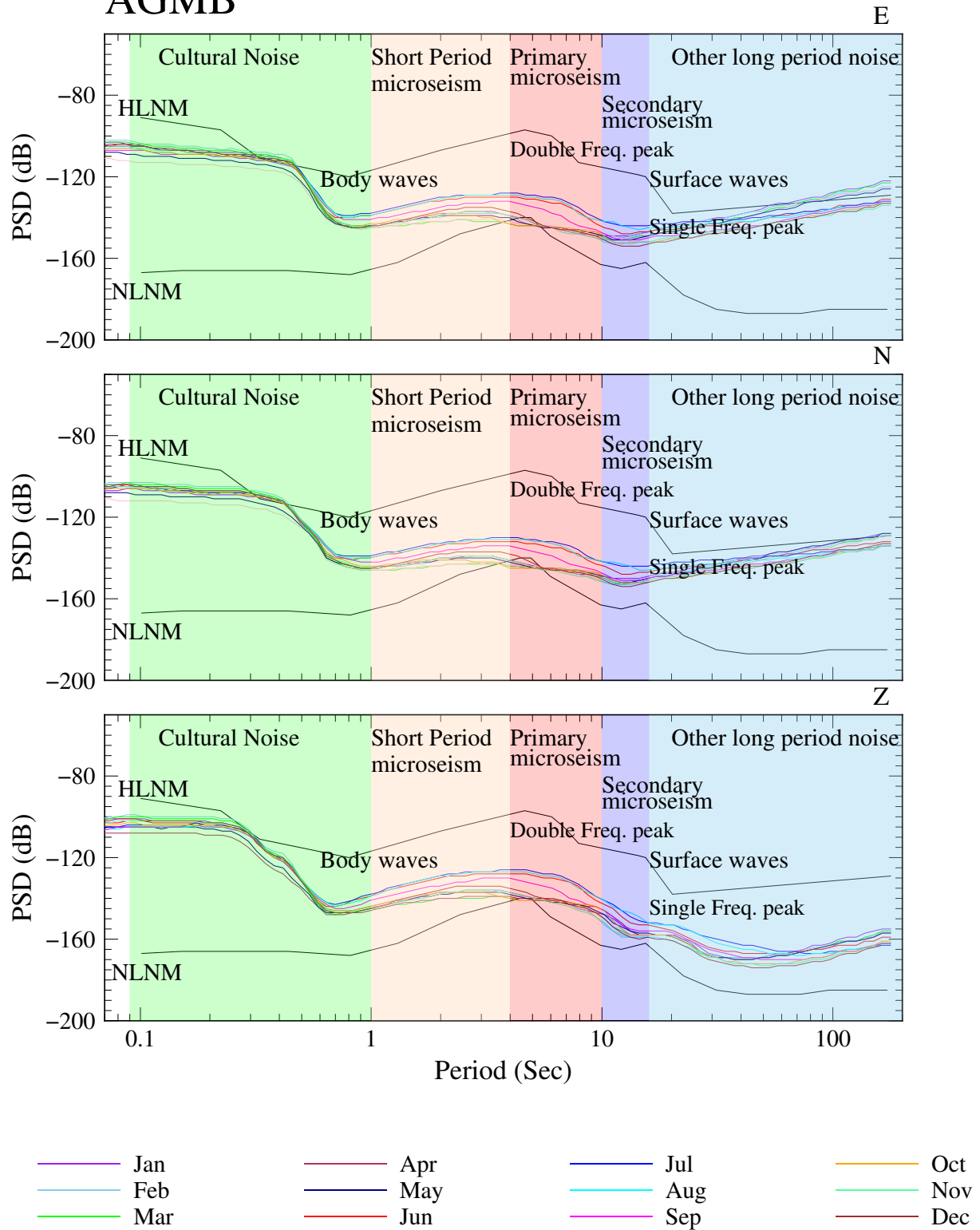
Figure S2: PSD plots over 12 months of the year 2019 at PCH, SBMN, AGMB, SDPR, JODA, MGLI stations.



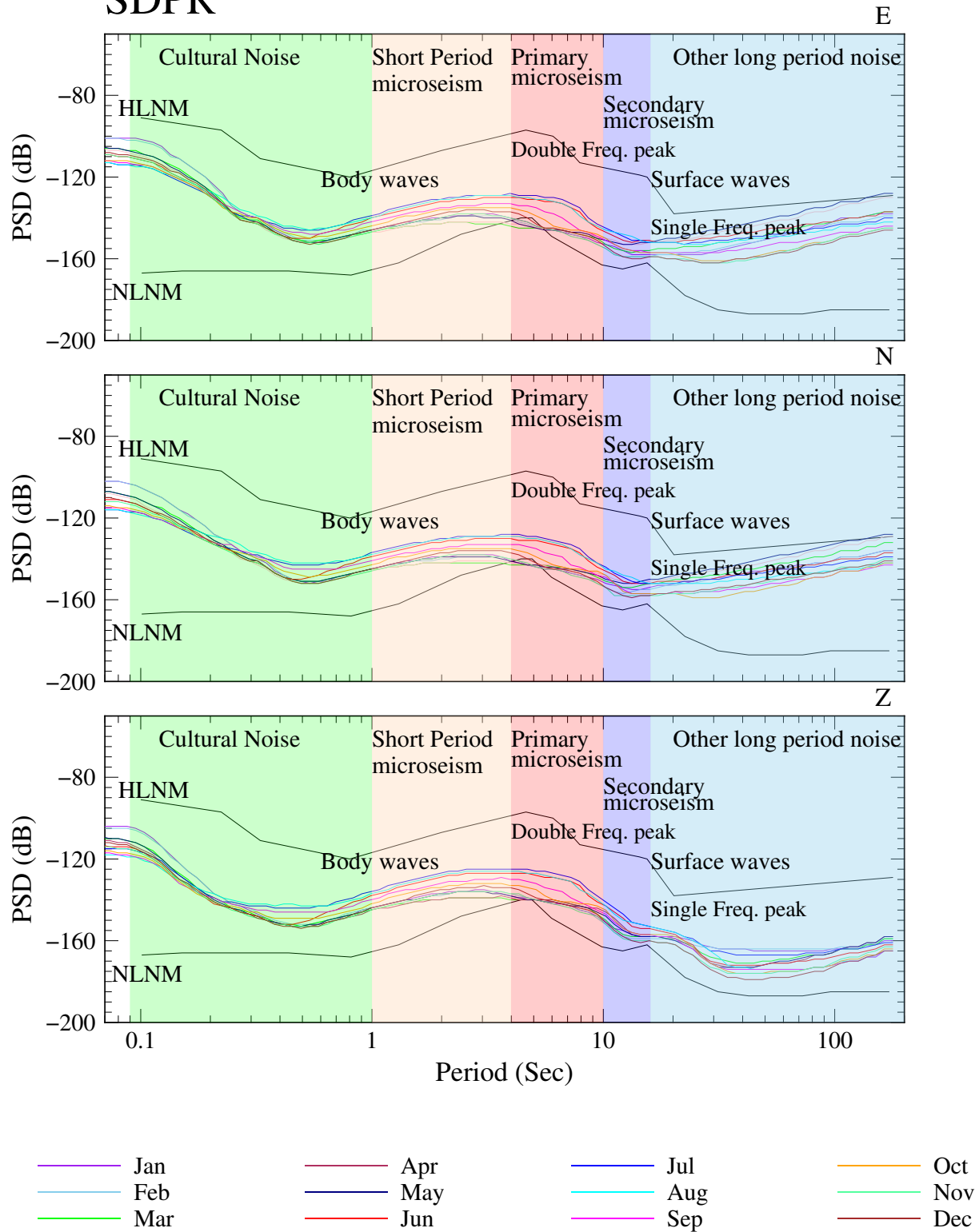
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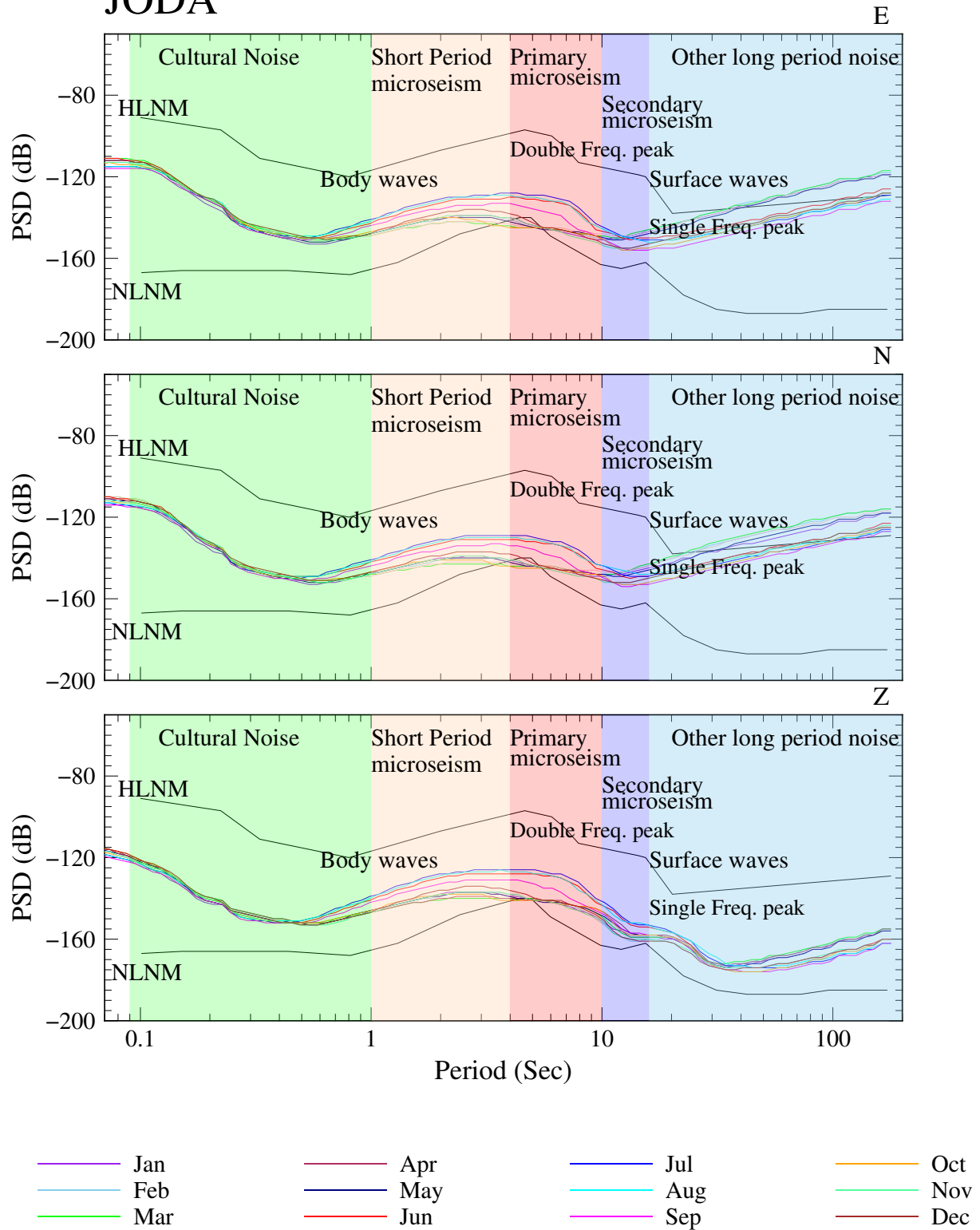
AGMB



SDPR



JODA



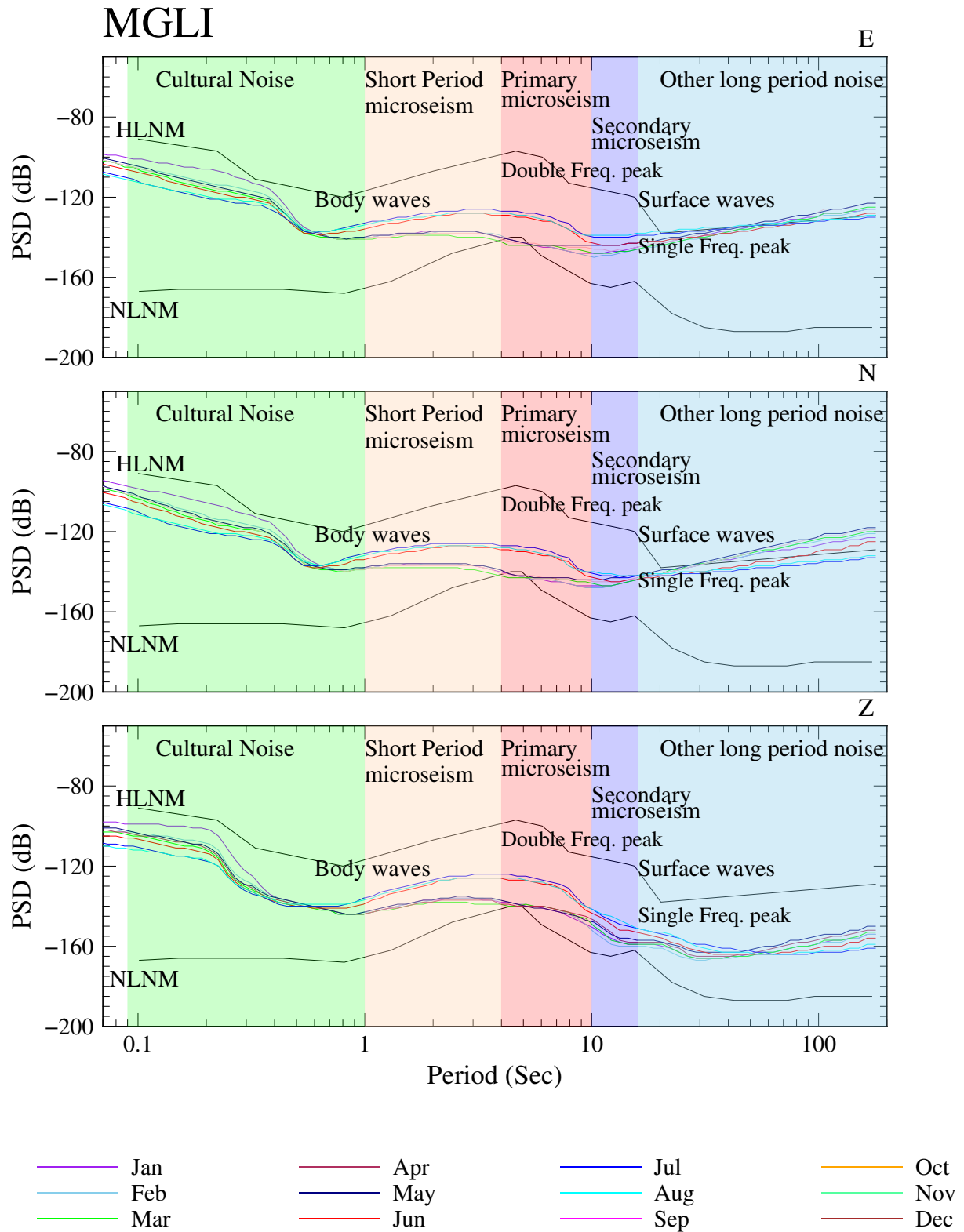
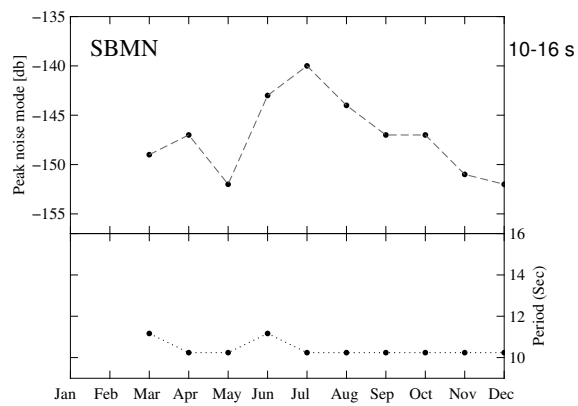
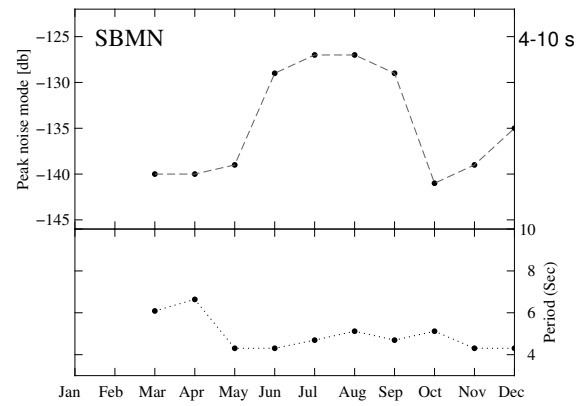
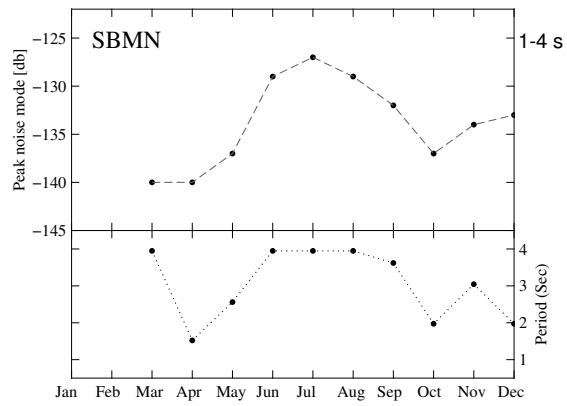
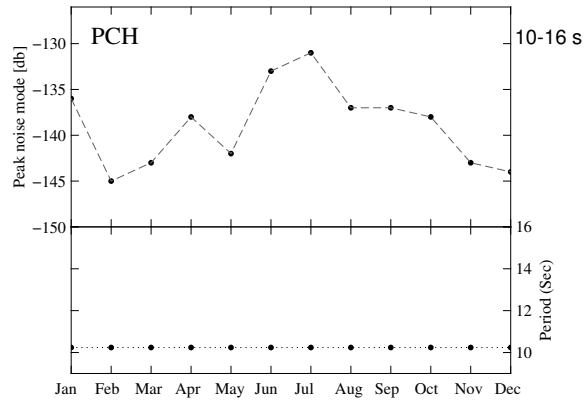
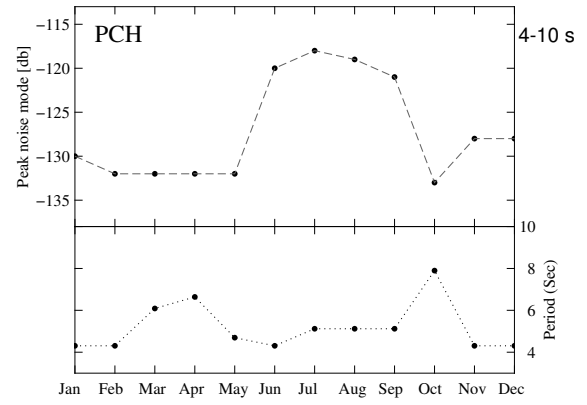
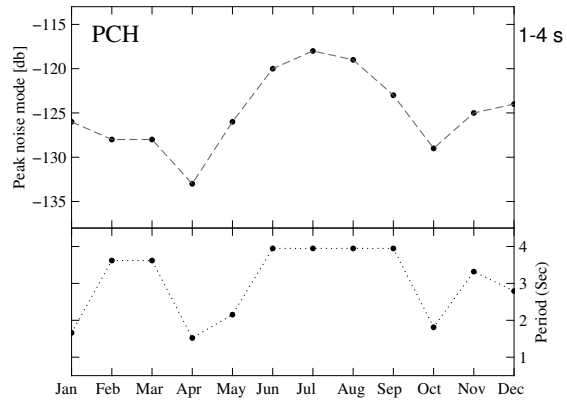
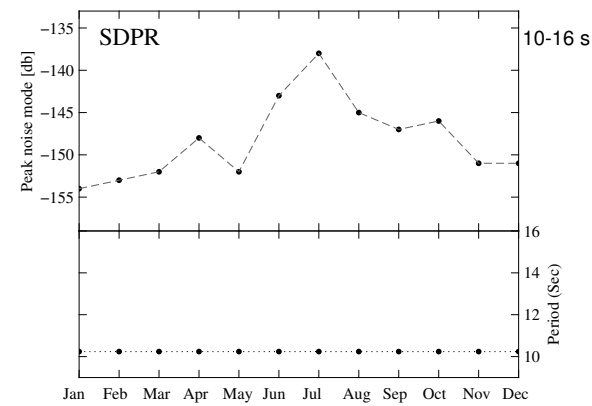
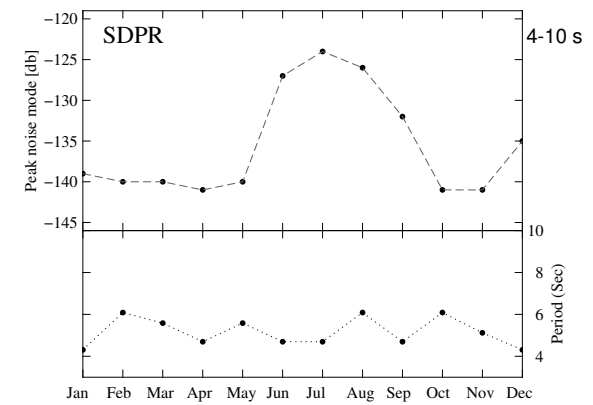
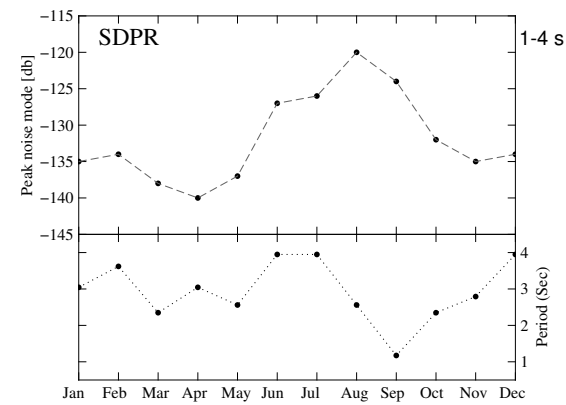
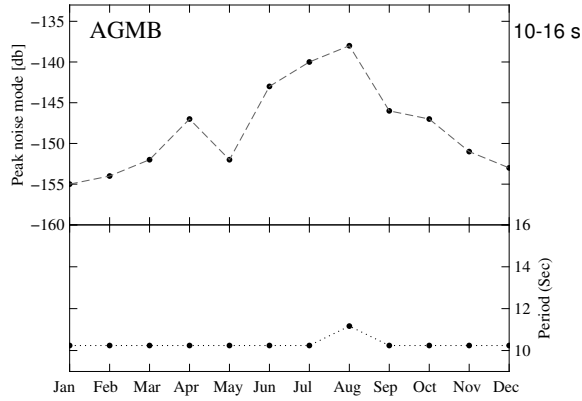
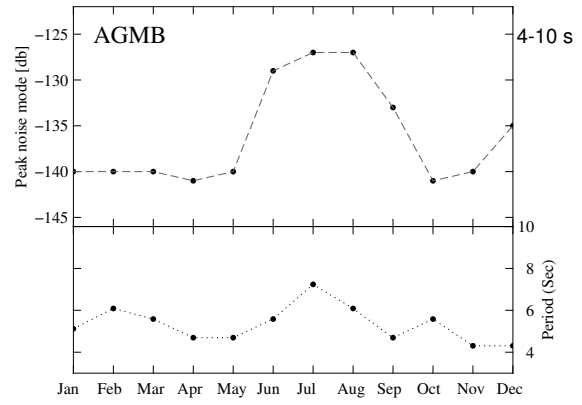
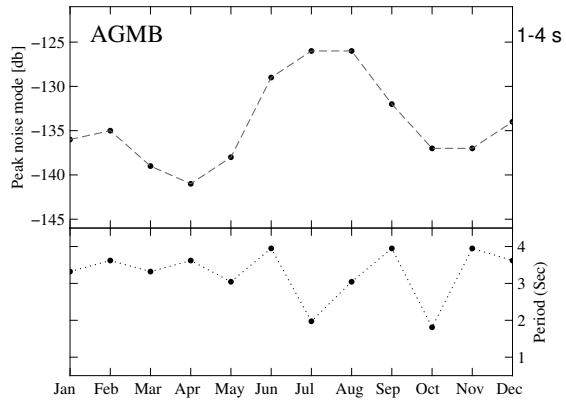


Figure S3: Monthly PSD median values at PCH, SBMN, AGMB, SDPR, JODA, MGLI stations. The different period bands are highlighted with different colour shades. The months are represented with different colour code, indicated in the legend.





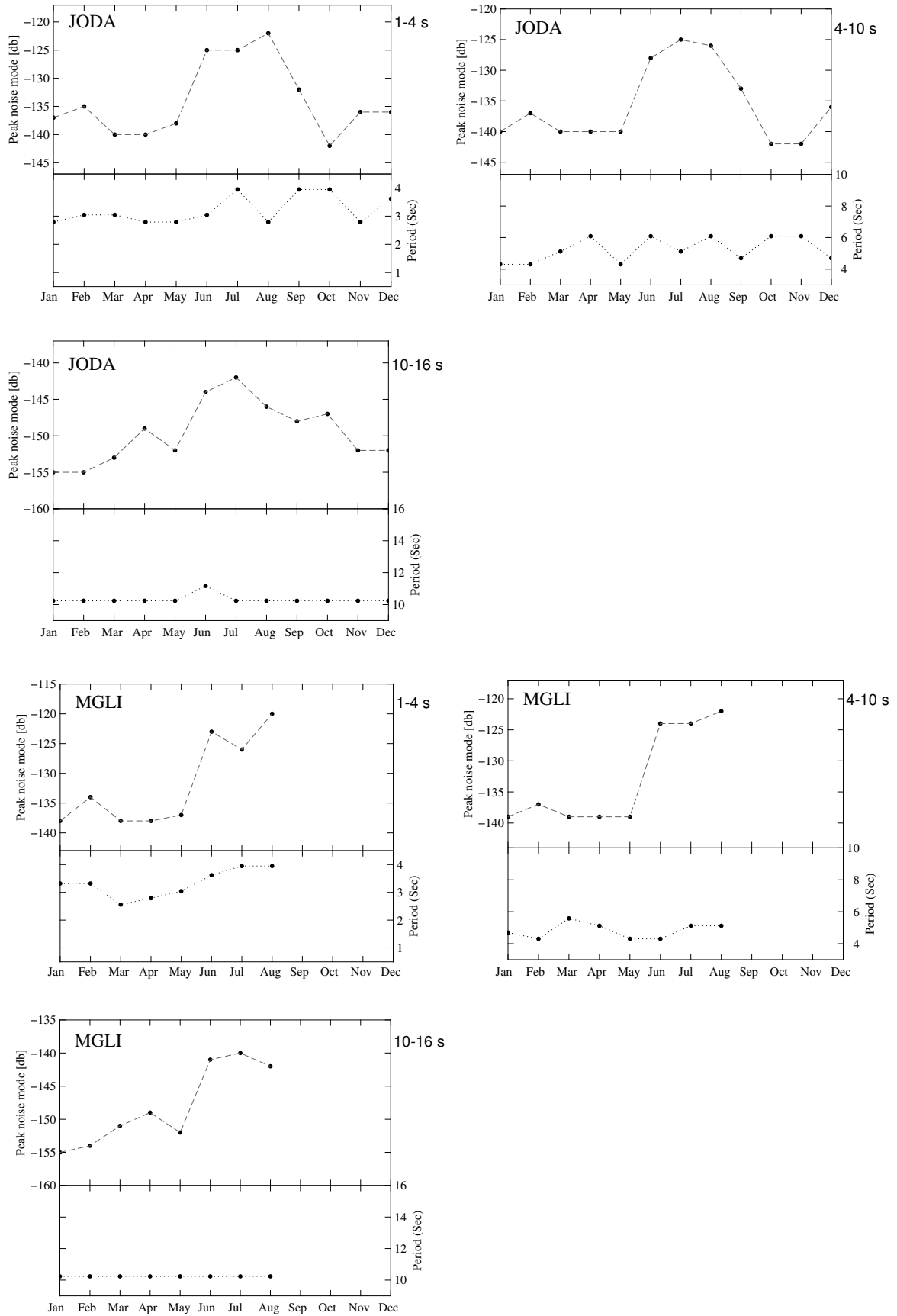
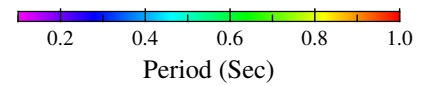
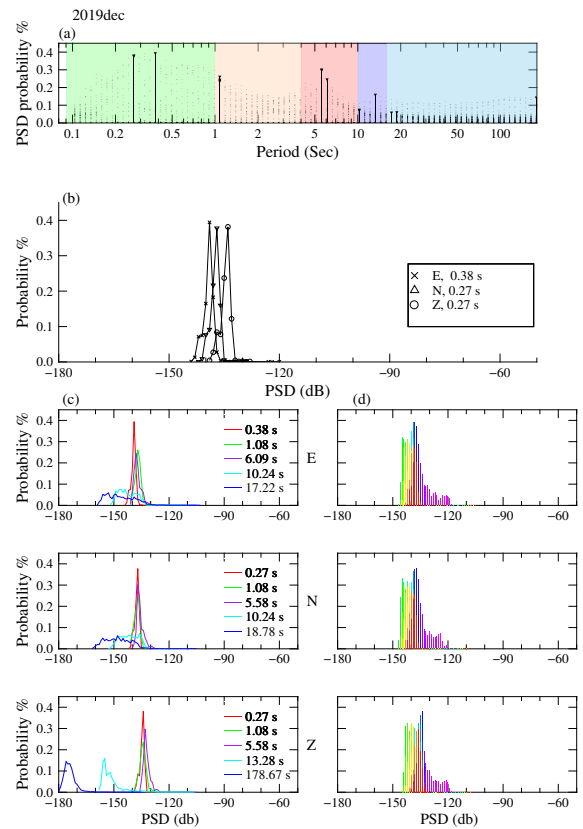
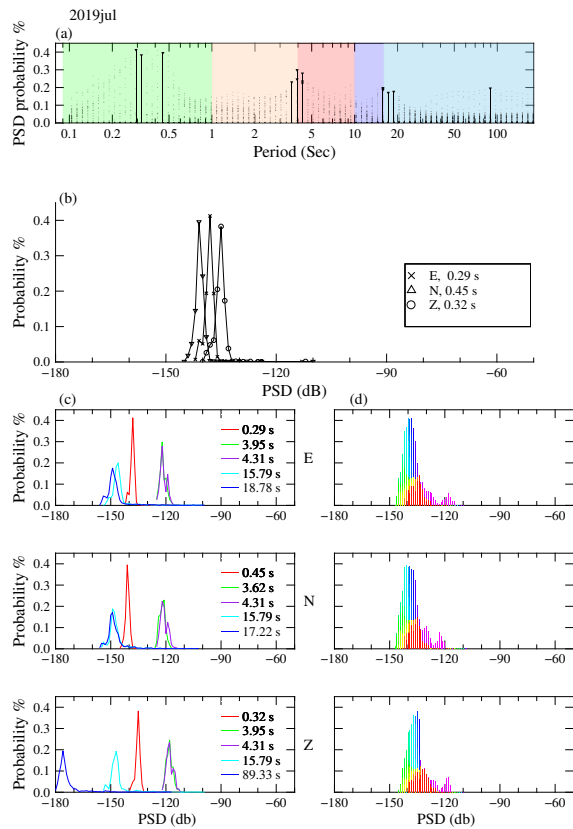
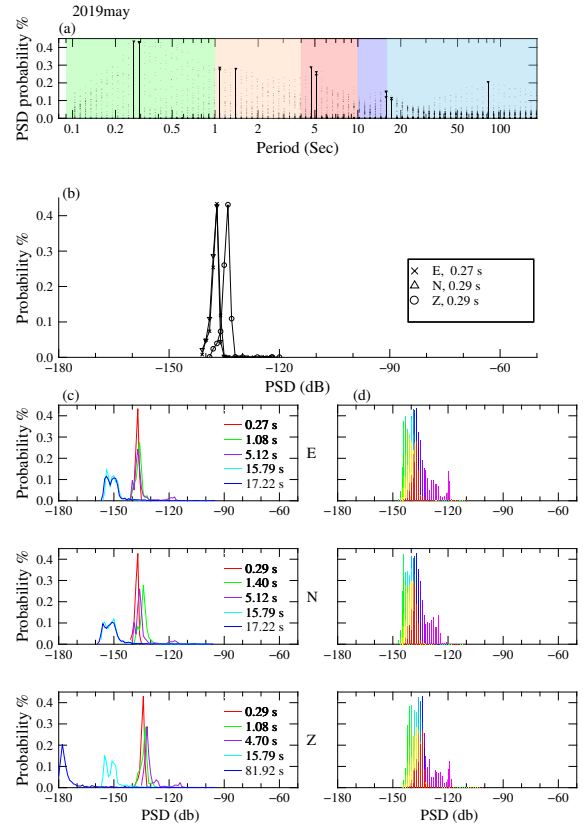
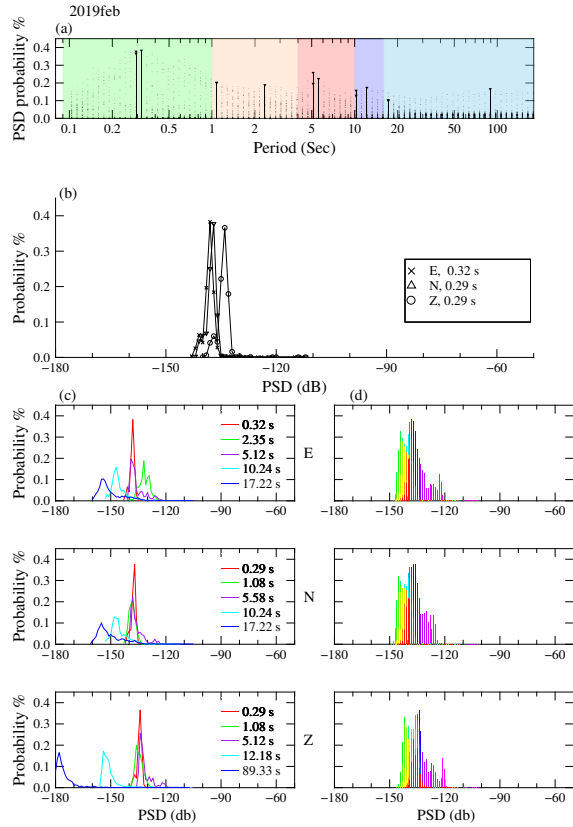


Figure S4: Monthly noise peak value variations at PCH, SBMN, AGMB, SDPR, JODA, MGLI stations in short-period (1-4 s), primary (4-10 s) and secondary microseism bands (10-16 s) along with their corresponding period plot.

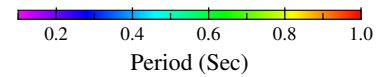
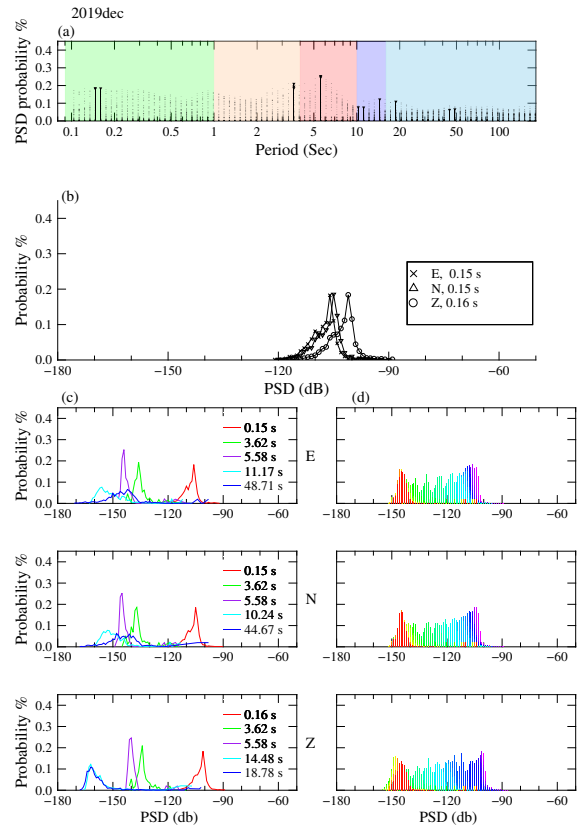
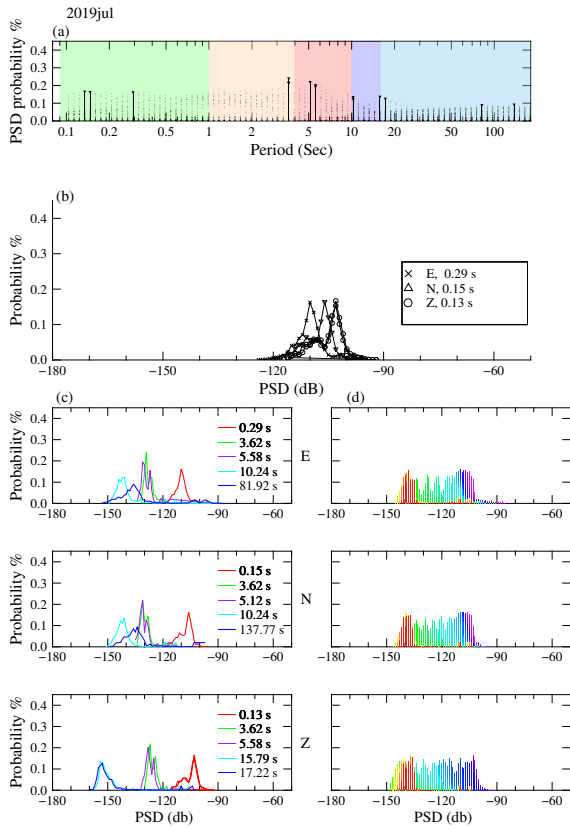
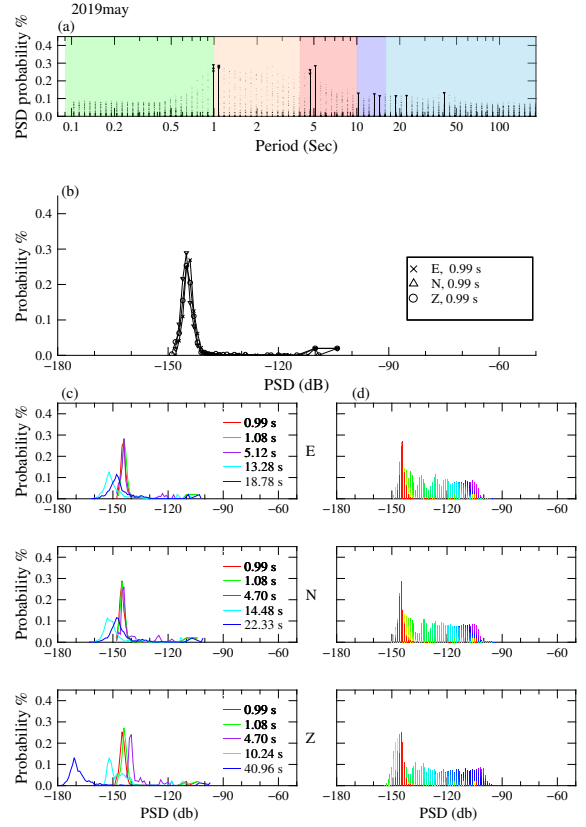
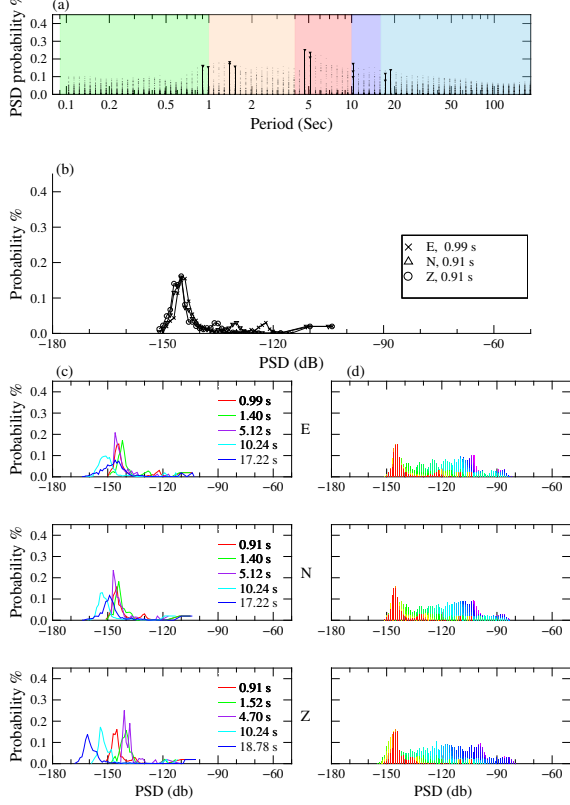
PCH



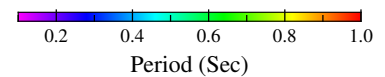
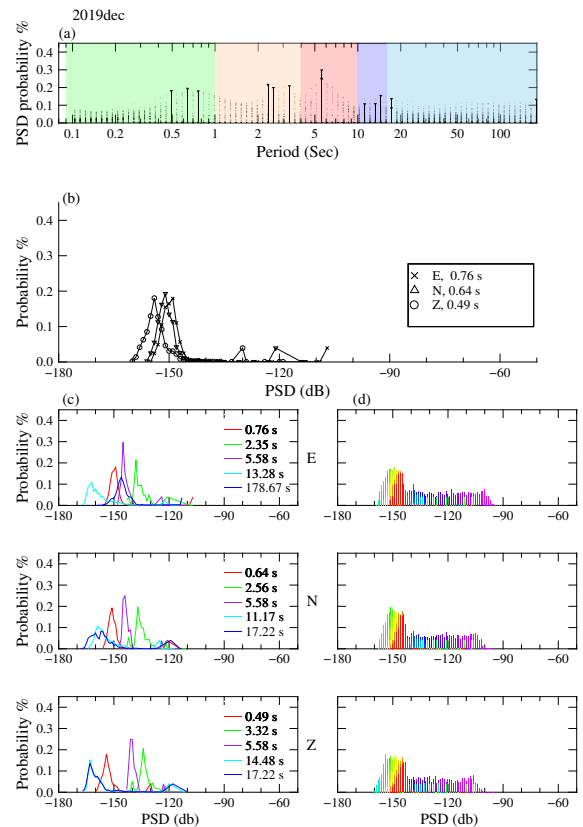
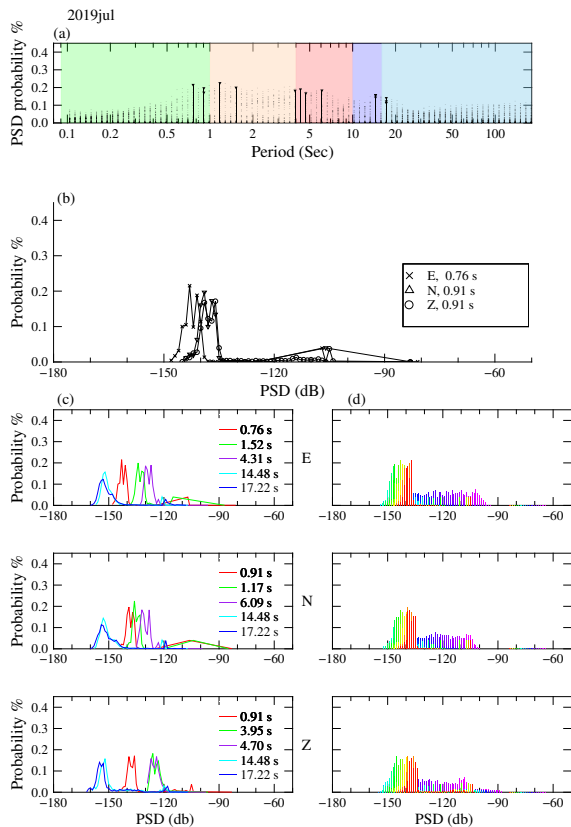
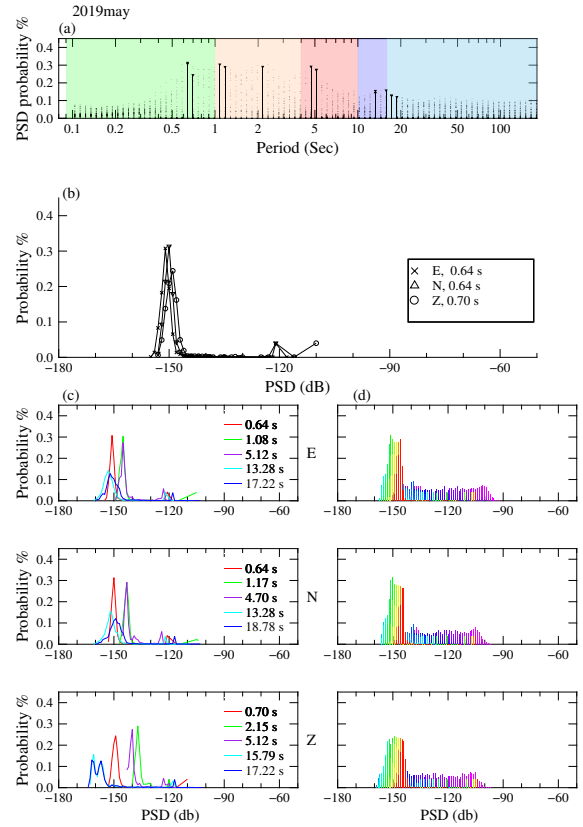
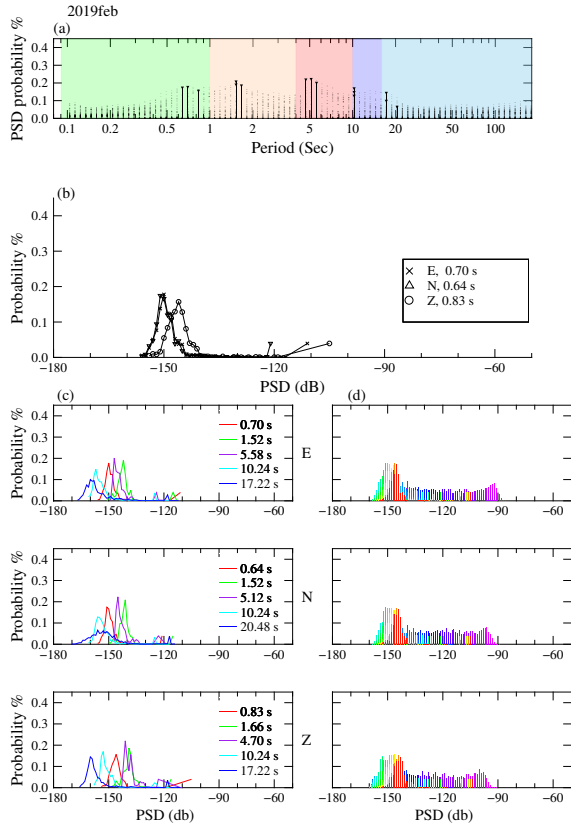


AGMB

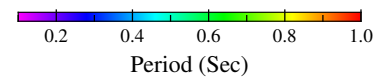
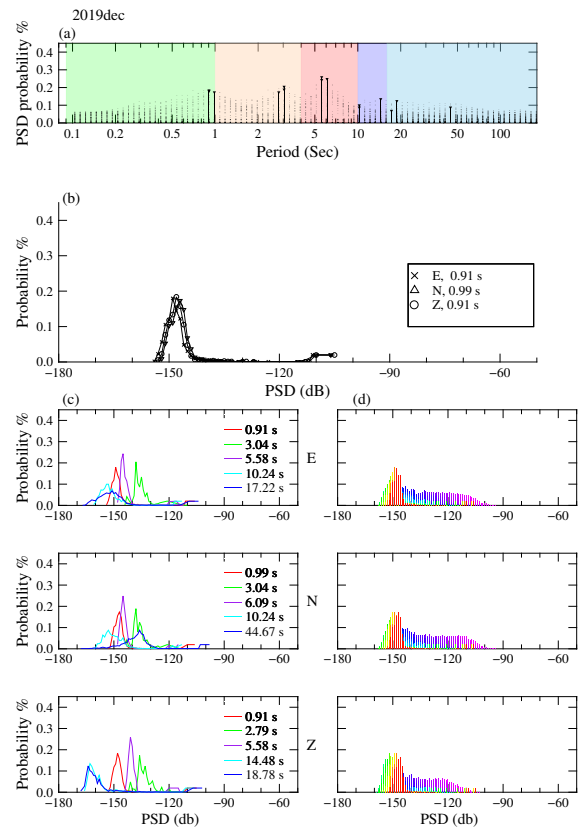
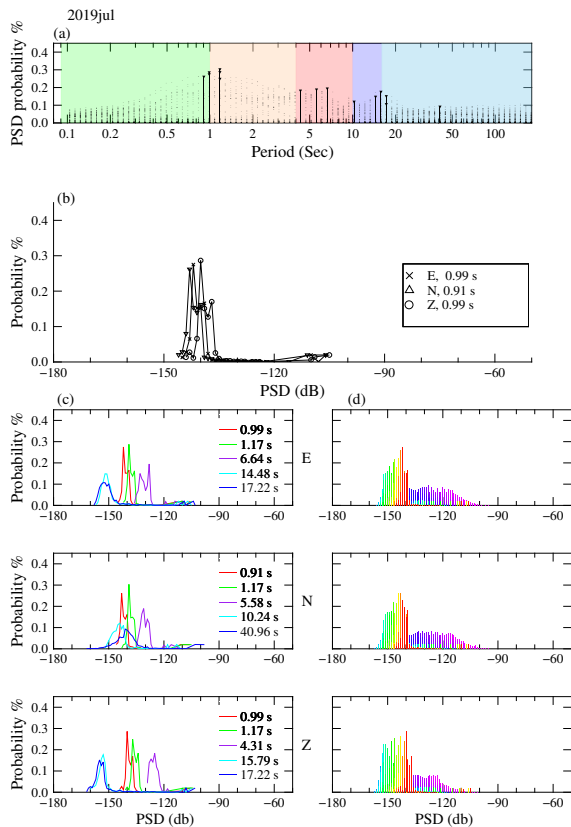
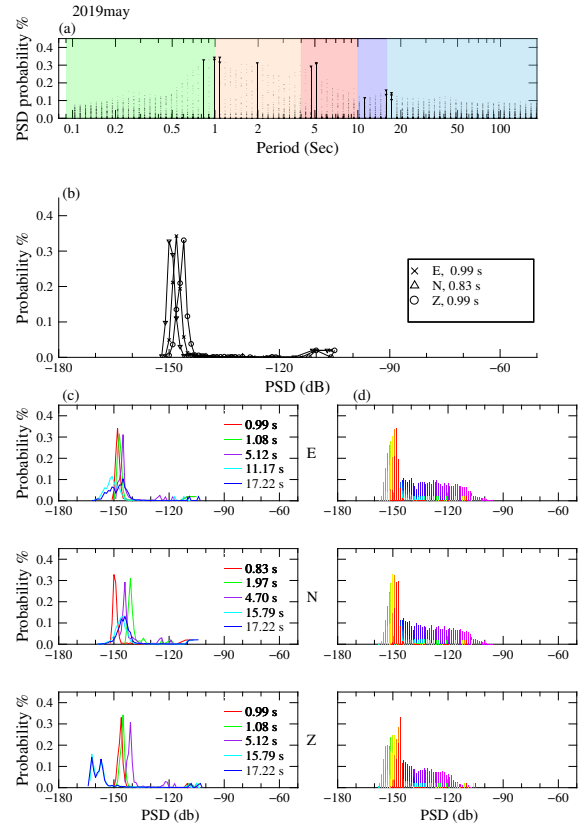
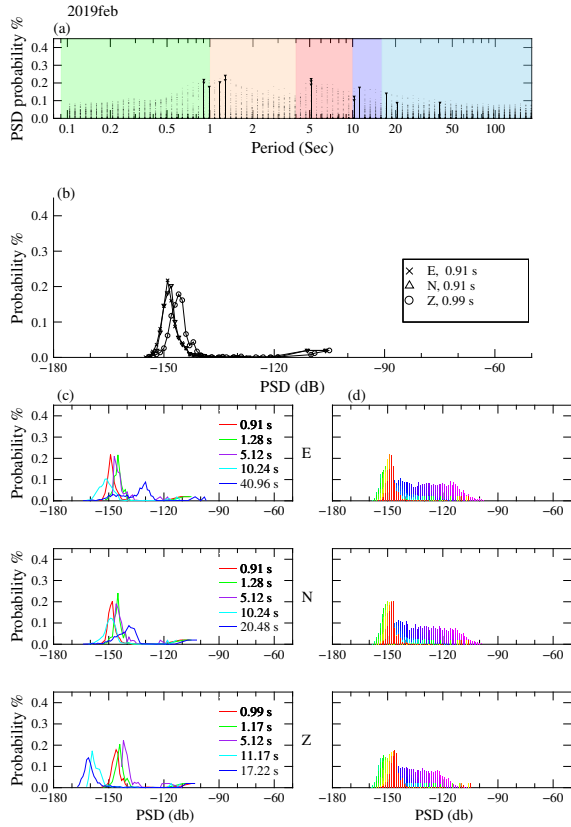
2019feb



SDPR



JODA



MGLI

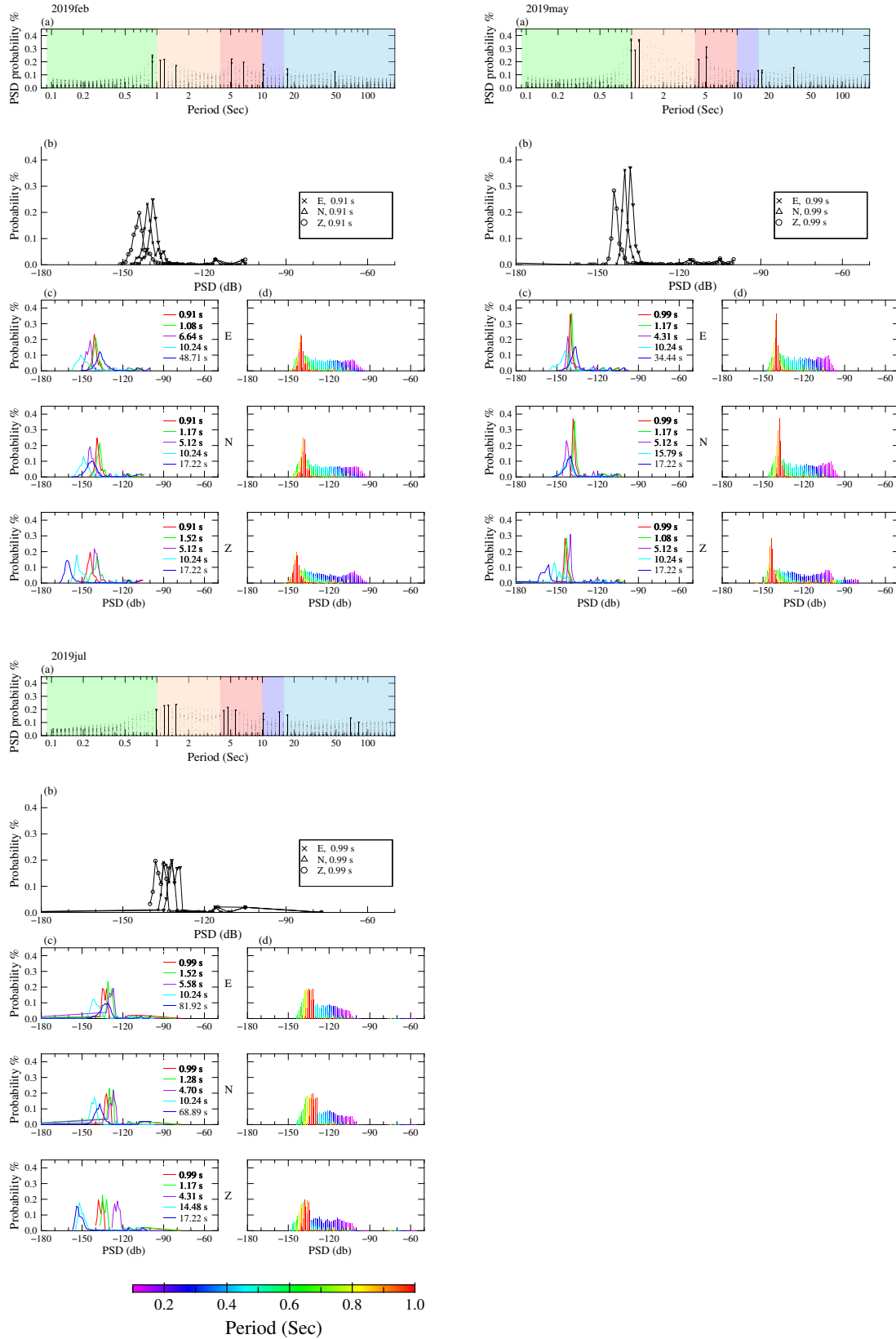


Figure S5: Peak noise period vs PSD probability and the corresponding noise peak period at PCH, SBMN, AGMB, SDPR, JODA, MGLI stations. The top part (a) of the figure illustrates period vs probability of occurrence for noise PSD. The solid line histograms are the peak period in their respective noise bands. (b) The probability percent of PSD for the corresponding period of peak mode values. The three graphs (c) on the bottom left illustrates the probability vs PSD at each period band peak period, while those on bottom right (d) illustrates the probability vs PSD for cultural noise vs corresponding periods.