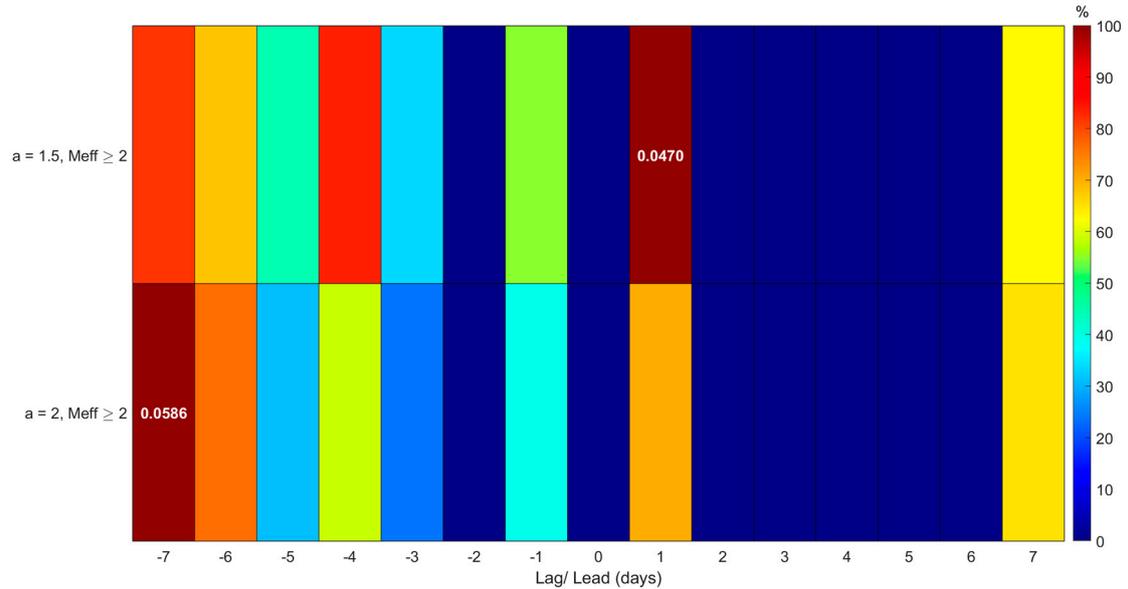


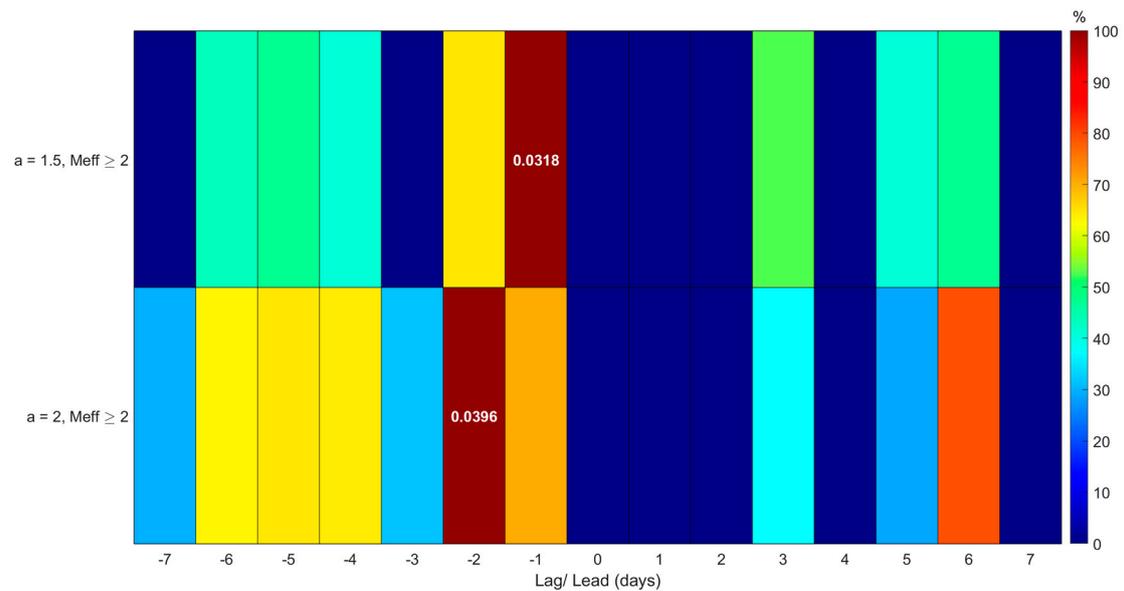
## Supplementary material of

# “A Six-Year (2014-2020) Statistical Correlation Study of VLF Terminator Time Shift with Earthquakes in Japan”

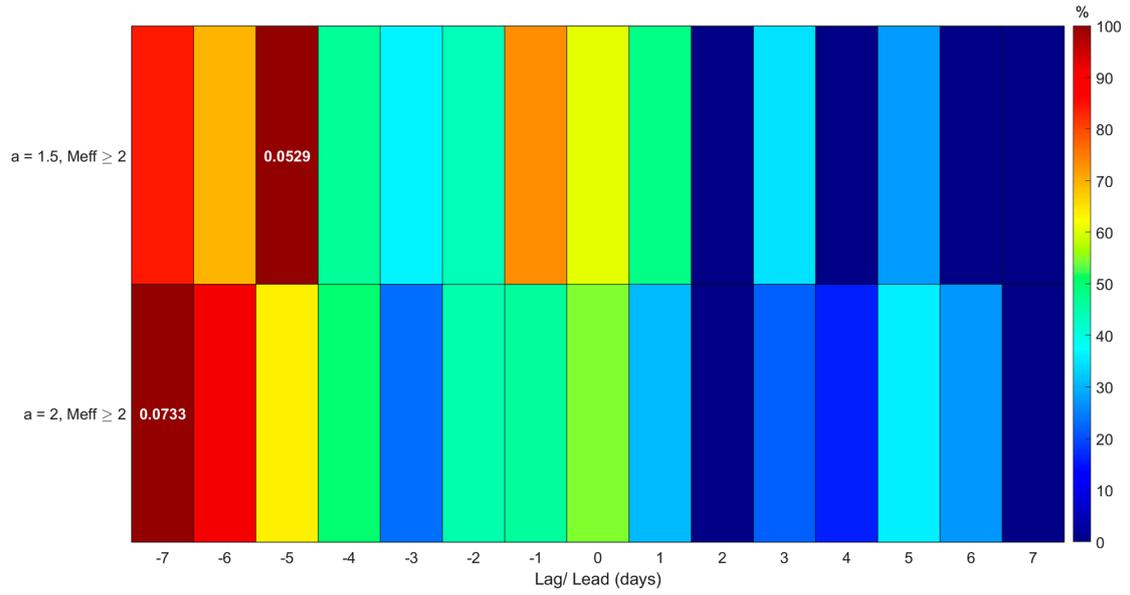
In the following, 41 tabular heat maps of the cross-correlation between the VLF parameters' statistical anomalies of each for the subionospheric propagation paths not presented in detail (as in Figure 14) in the manuscript and the daily seismicity ( $M_{eff}$ ) are provided.



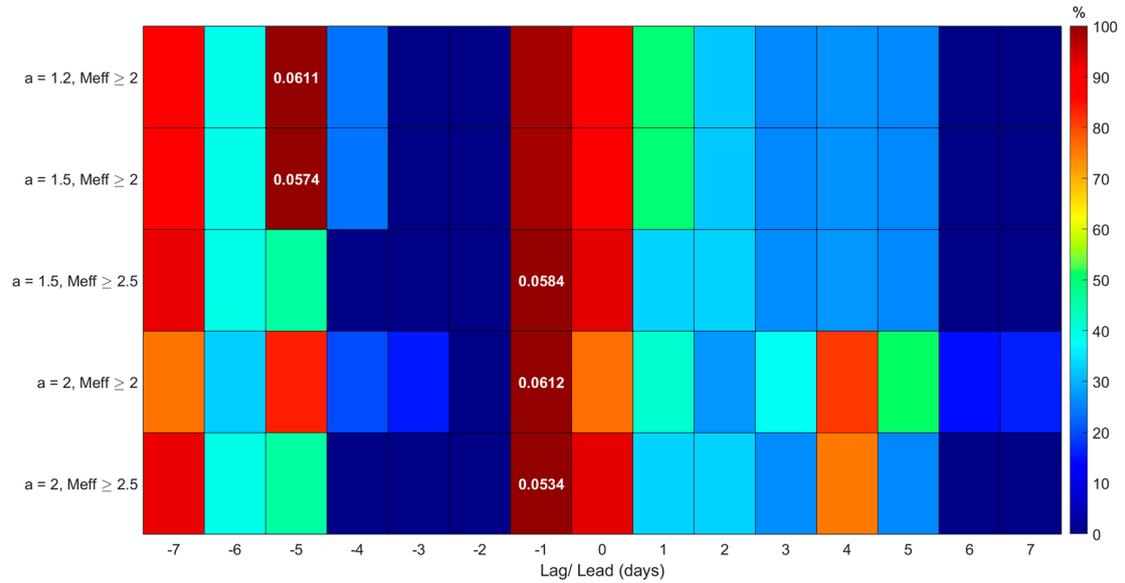
**Figure S1.** Tabular heat map of the cross-correlation between the morning TT of the JJI-ANA path and the daily seismicity ( $M_{eff}$ ). Each  $(a, M_{thres})$  combination (vertical axis) is presented in a different row, whereas the horizontal axis (columns) portrays the lag / lead days. The maximum cross-correlations values obtained are shown with dark red color together with a label stating the value. The rest cross-correlation values of the same row appear color-coded as a percentage of the row's maximum value. For some  $(a, M_{thres})$  combinations the total number days of non-zero  $M_{eff}$  values were below 15 (see Section 3) and for this reason they were not included.



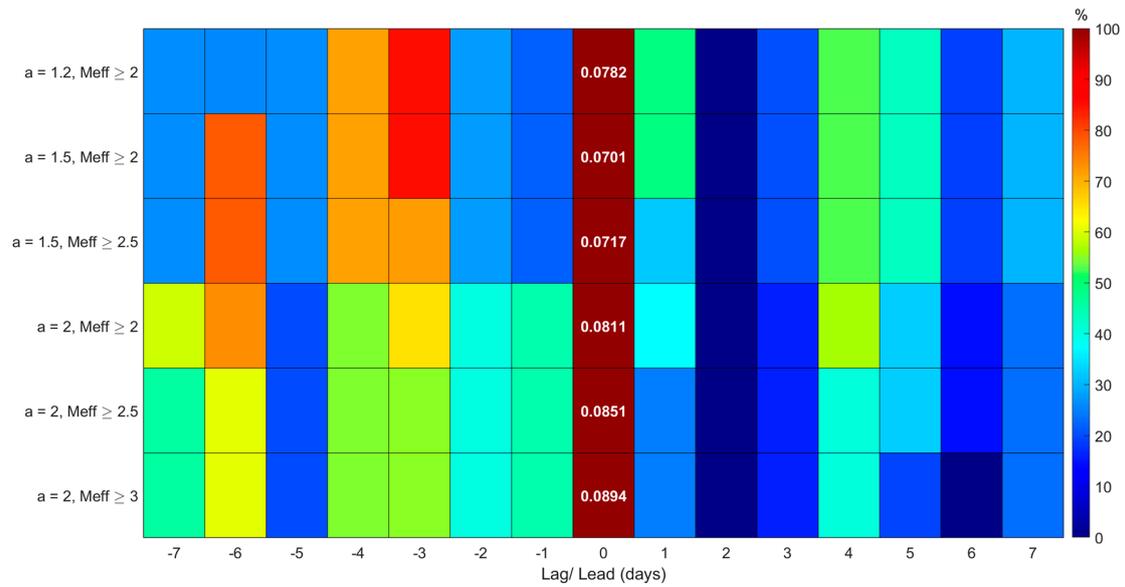
**Figure S2.** Tabular heat map of the cross-correlation between the evening TT of the JJI-ANA path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



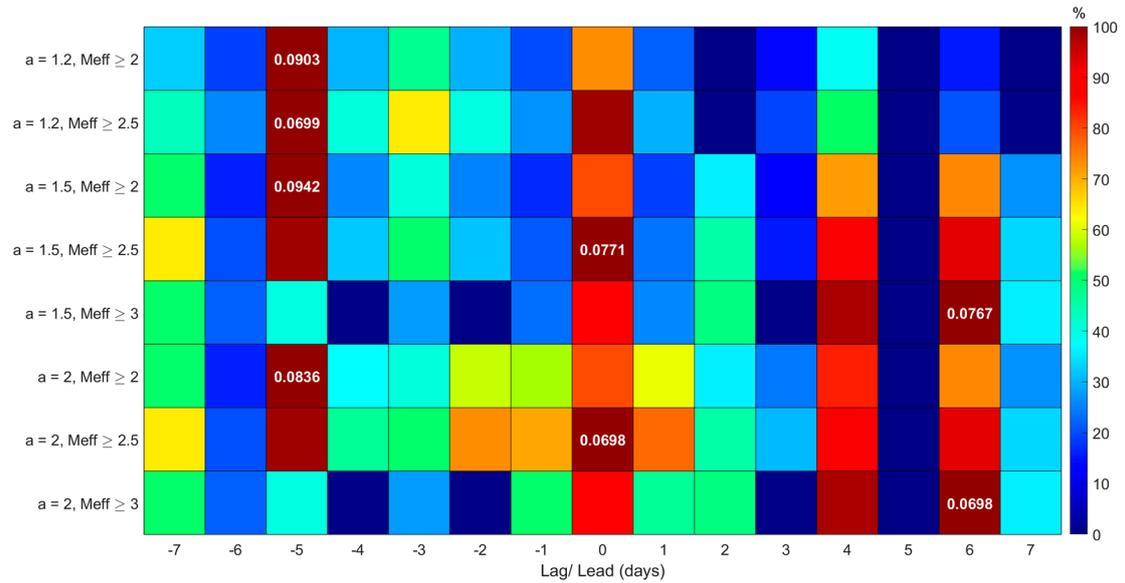
**Figure S3.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-ANA path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



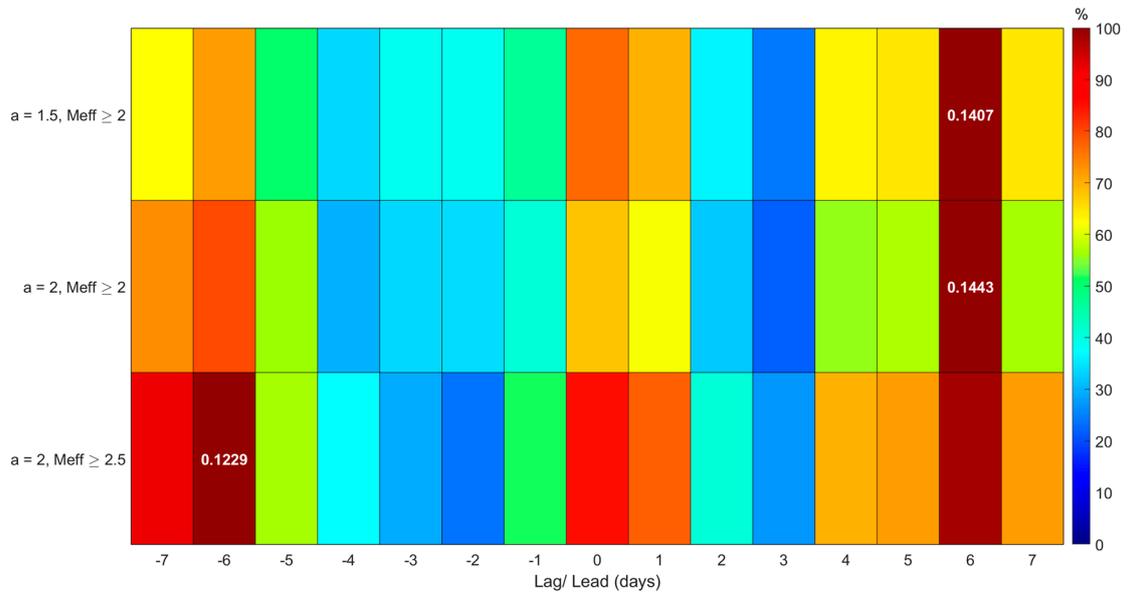
**Figure S4.** Tabular heat map of the cross-correlation between the morning TT of the JJI-KRY path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



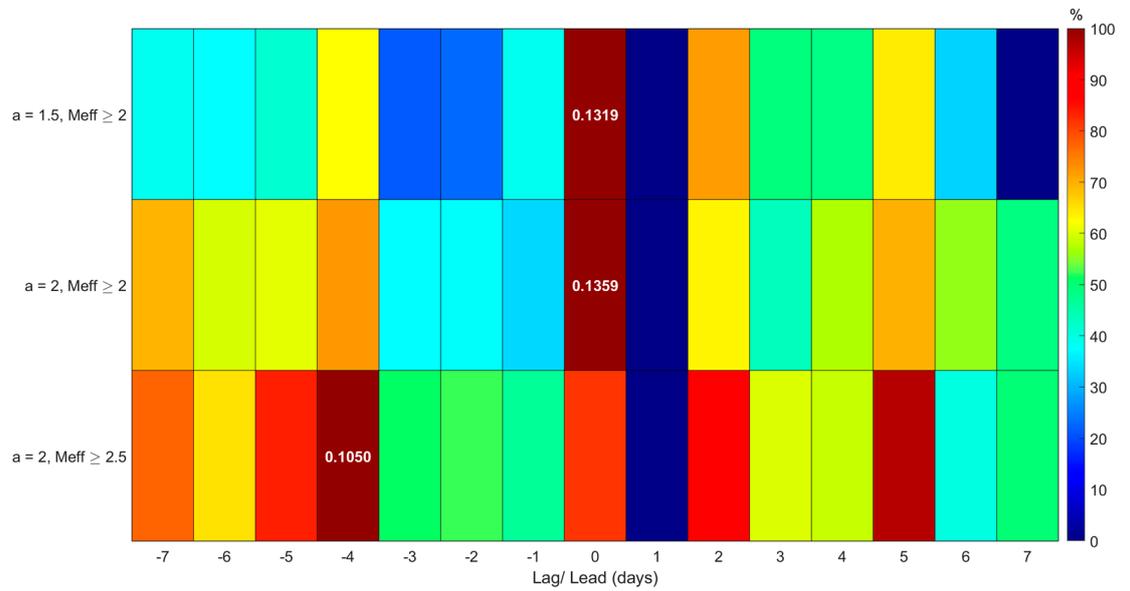
**Figure S5.** Tabular heat map of the cross-correlation between the evening TT of the JJI-KRY path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



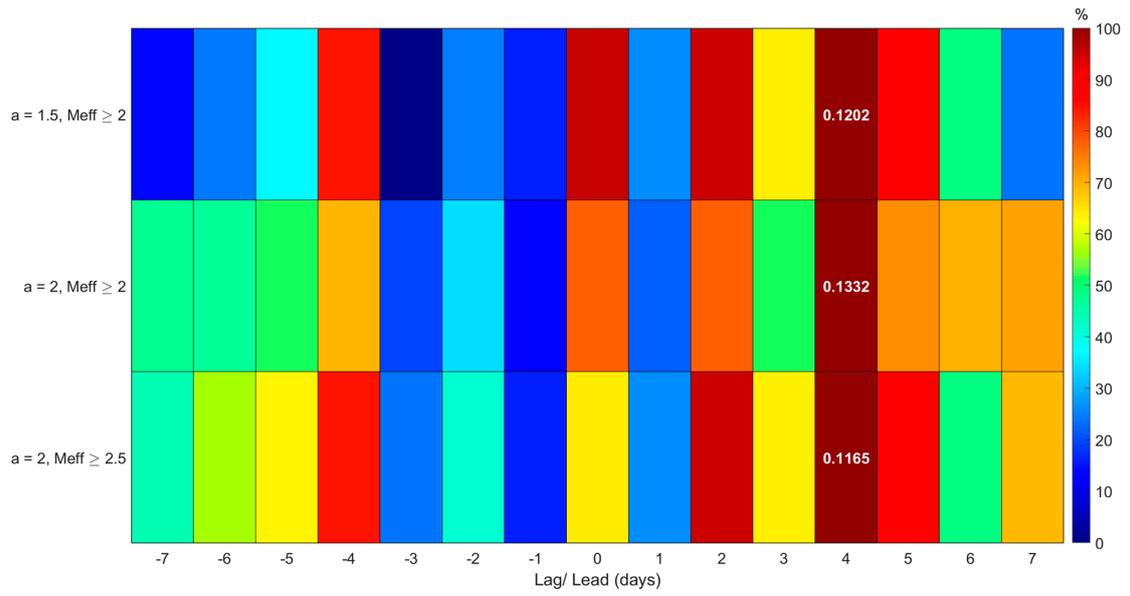
**Figure S6.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-KRY path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



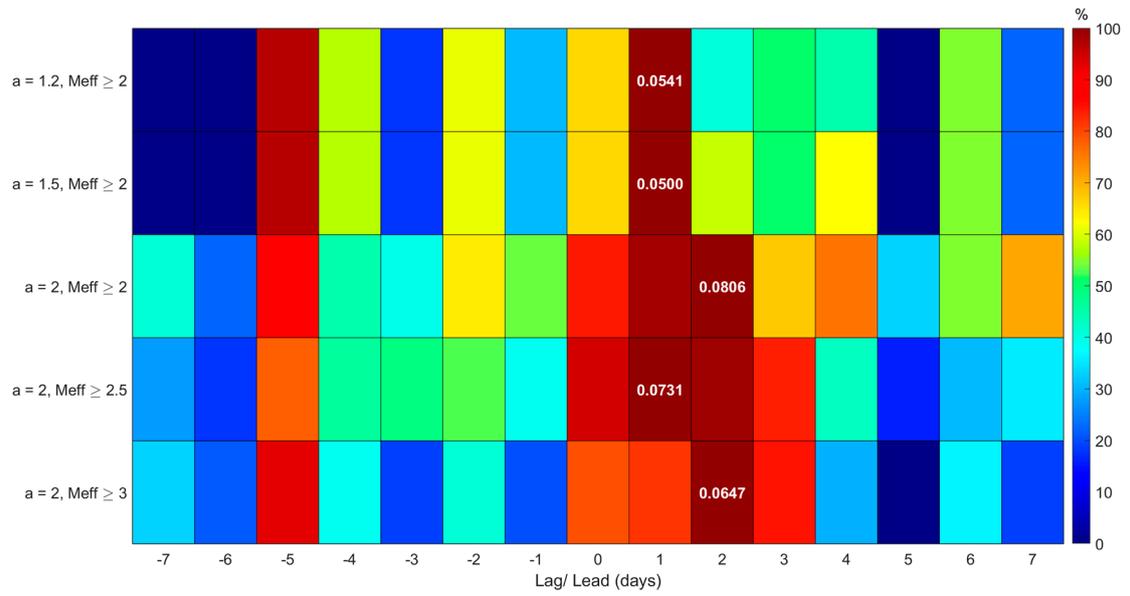
**Figure S7.** Tabular heat map of the cross-correlation between the morning TT of the JJI-TRG path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



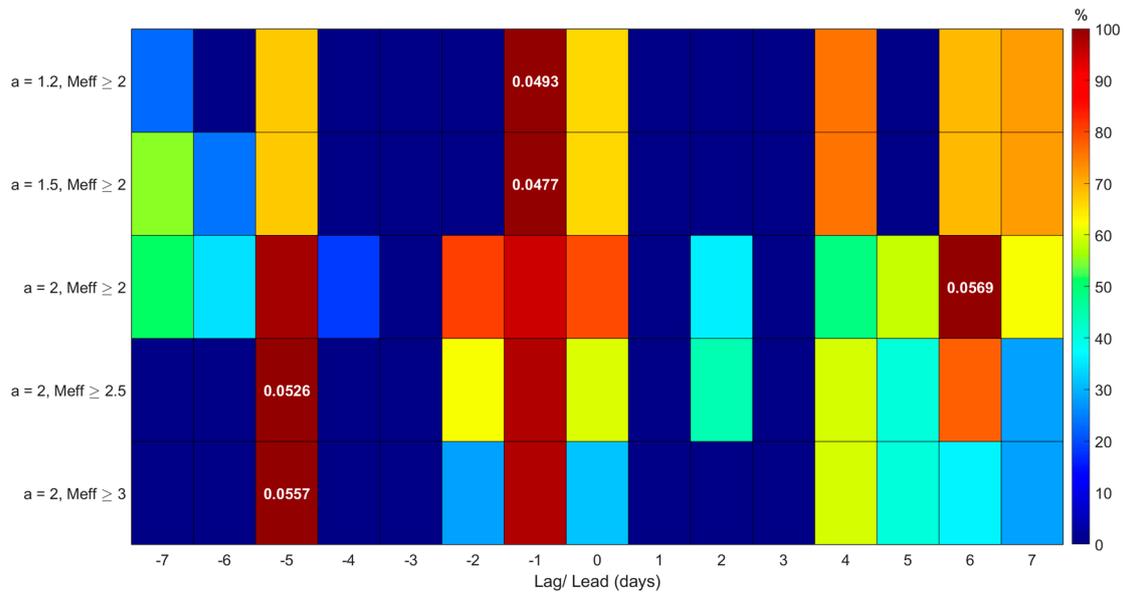
**Figure S8.** Tabular heat map of the cross-correlation between the evening TT of the JJI-TRG path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



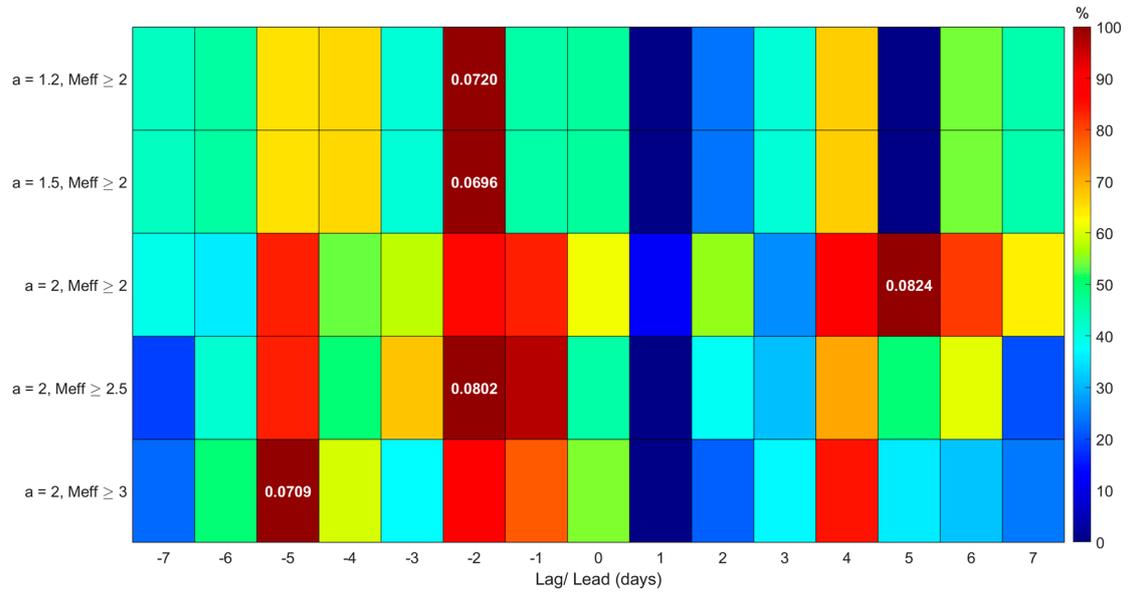
**Figure S9.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-TRG path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



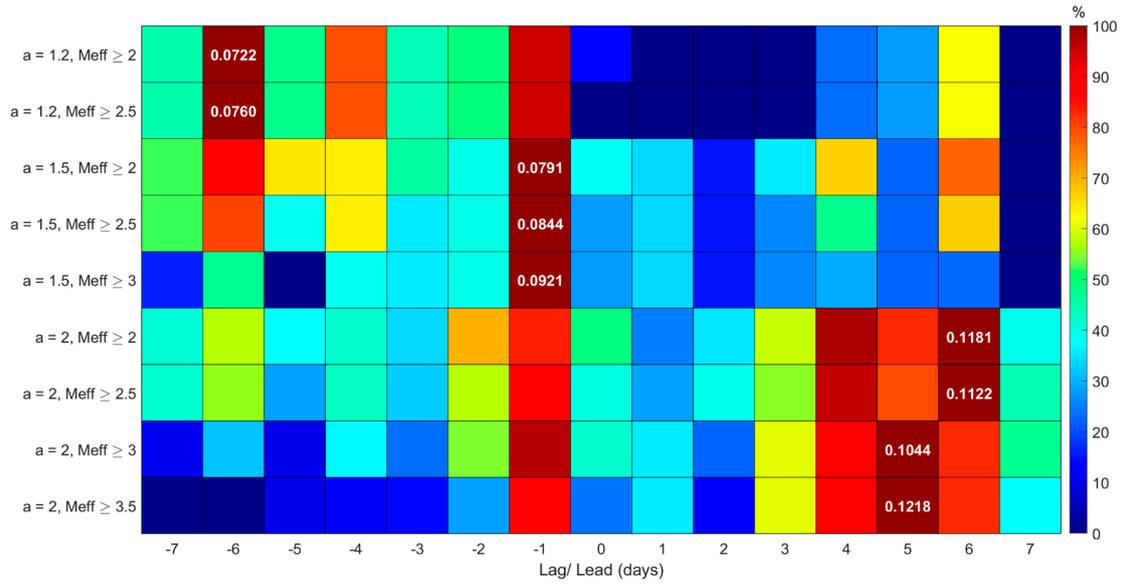
**Figure S10.** Tabular heat map of the cross-correlation between the morning TT of the JJI-THY path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



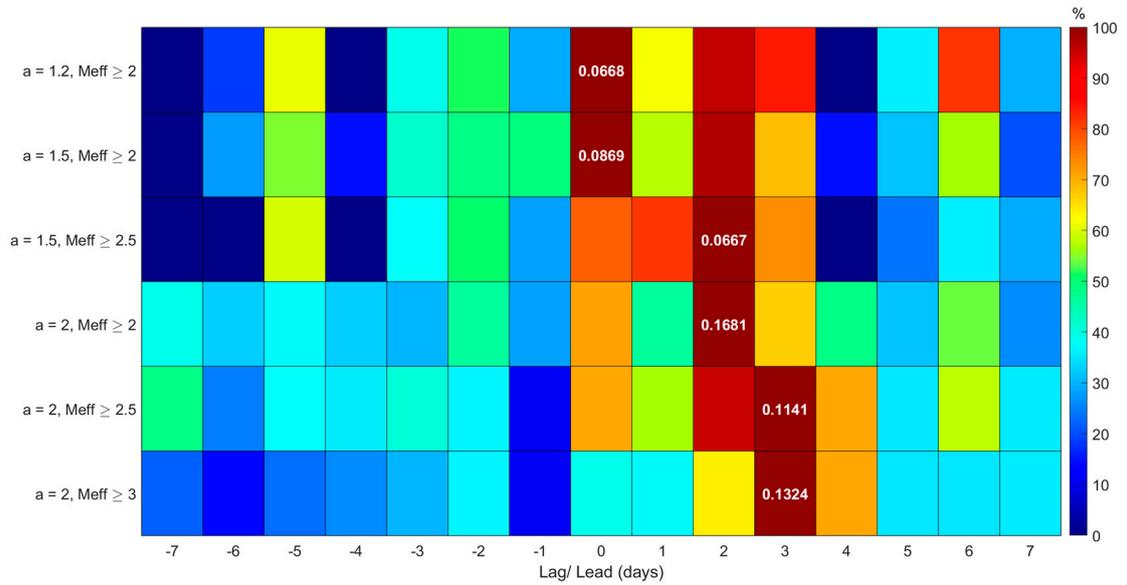
**Figure S11.** Tabular heat map of the cross-correlation between the evening TT of the JJI-THY path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



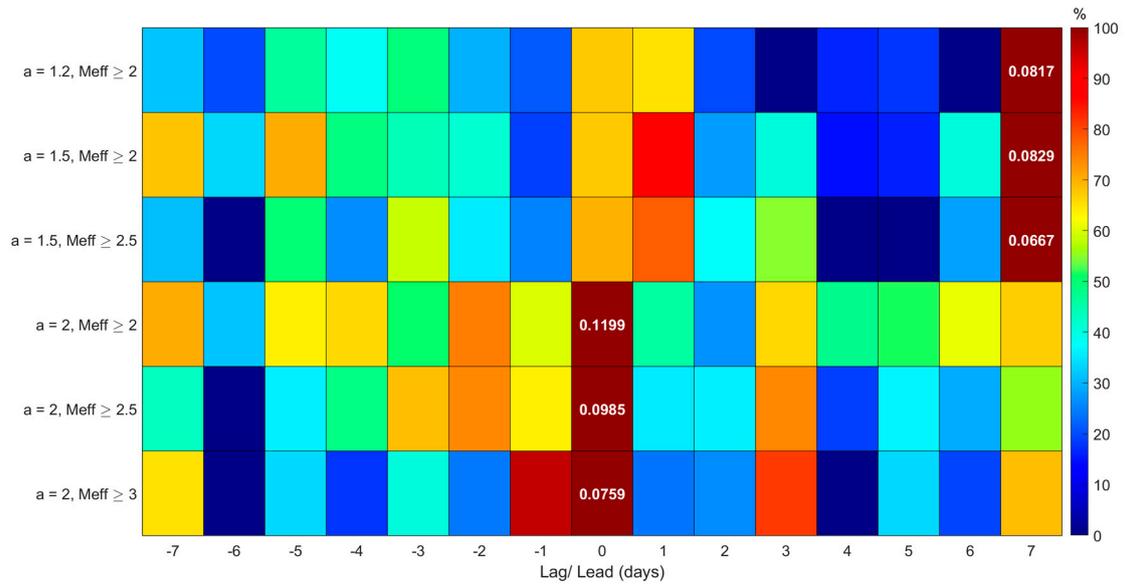
**Figure S12.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-THY path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



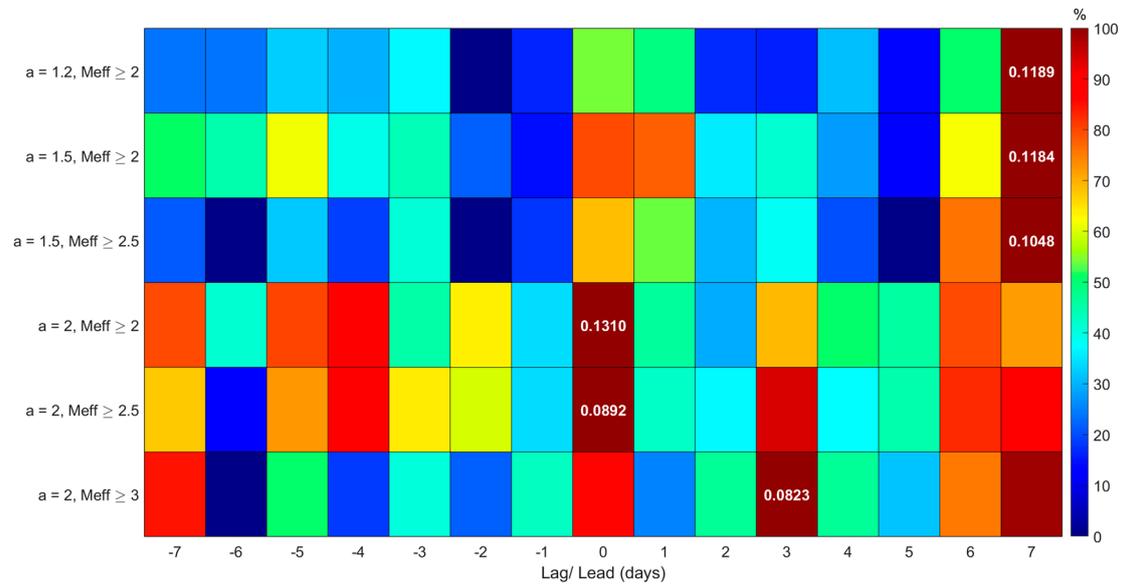
**Figure S13.** Tabular heat map of the cross-correlation between the morning TT of the JJI-HMT path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



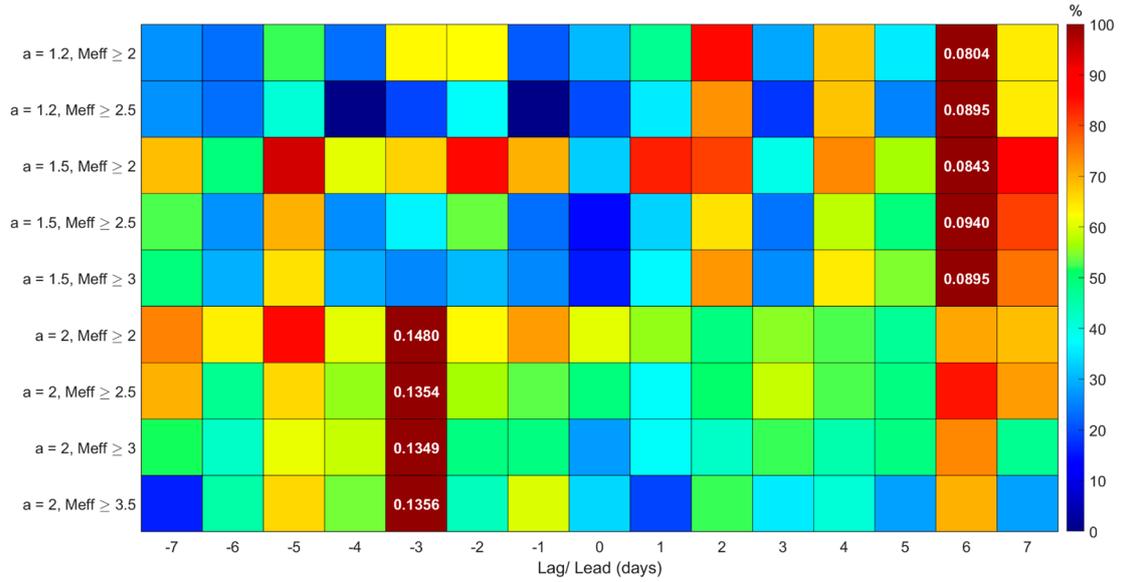
**Figure S14.** Tabular heat map of the cross-correlation between the morning TT of the JJI-IMZ path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



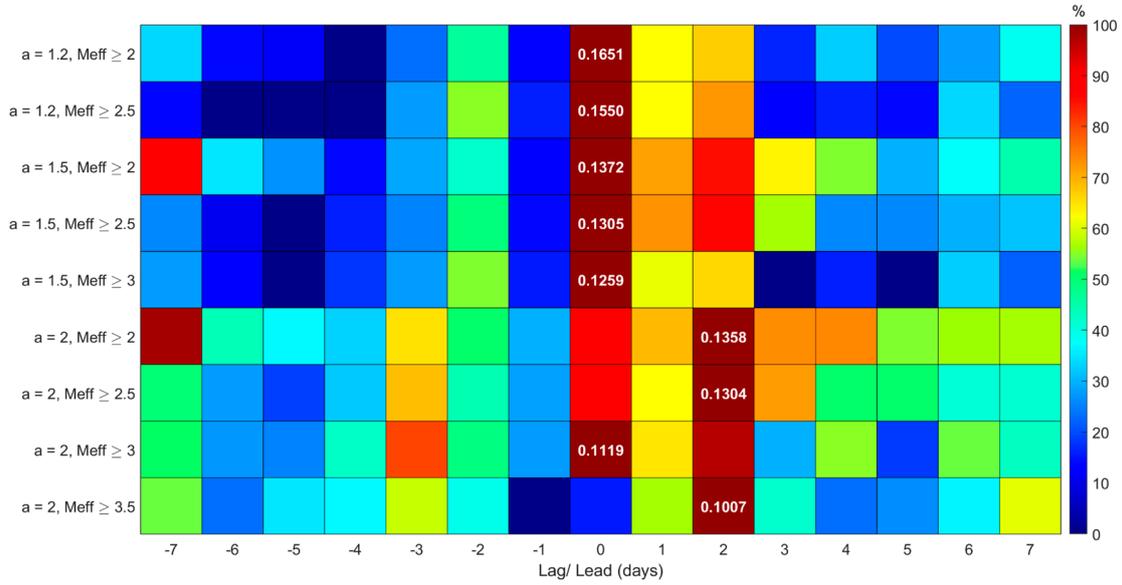
**Figure S15.** Tabular heat map of the cross-correlation between the evening TT of the JJI-IMZ path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



**Figure S16.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-IMZ path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



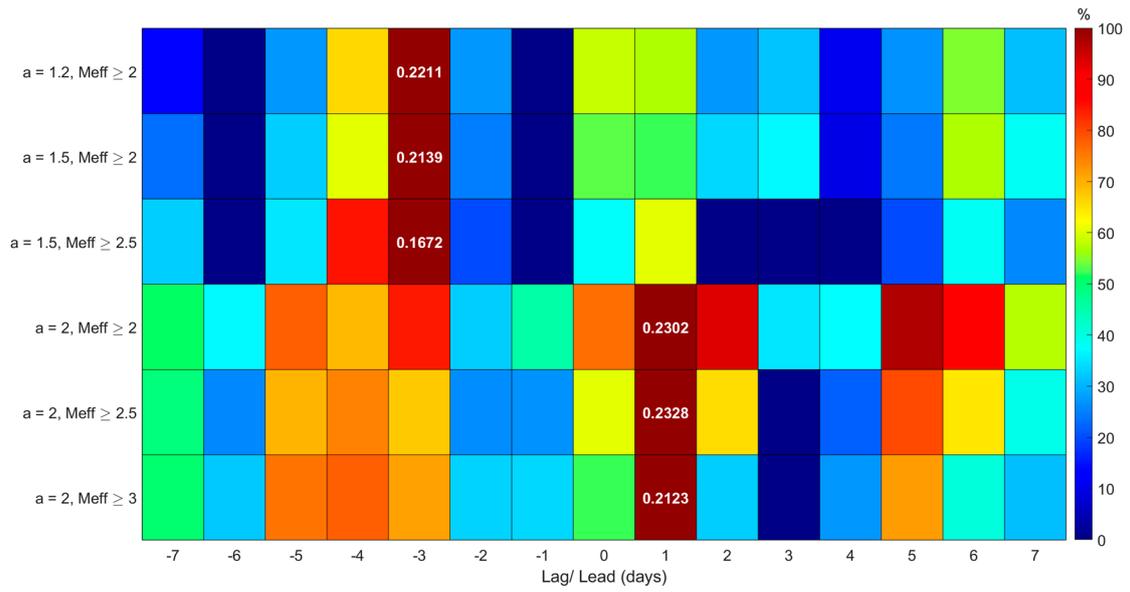
**Figure S17.** Tabular heat map of the cross-correlation between the morning TT of the JJI-KMK path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



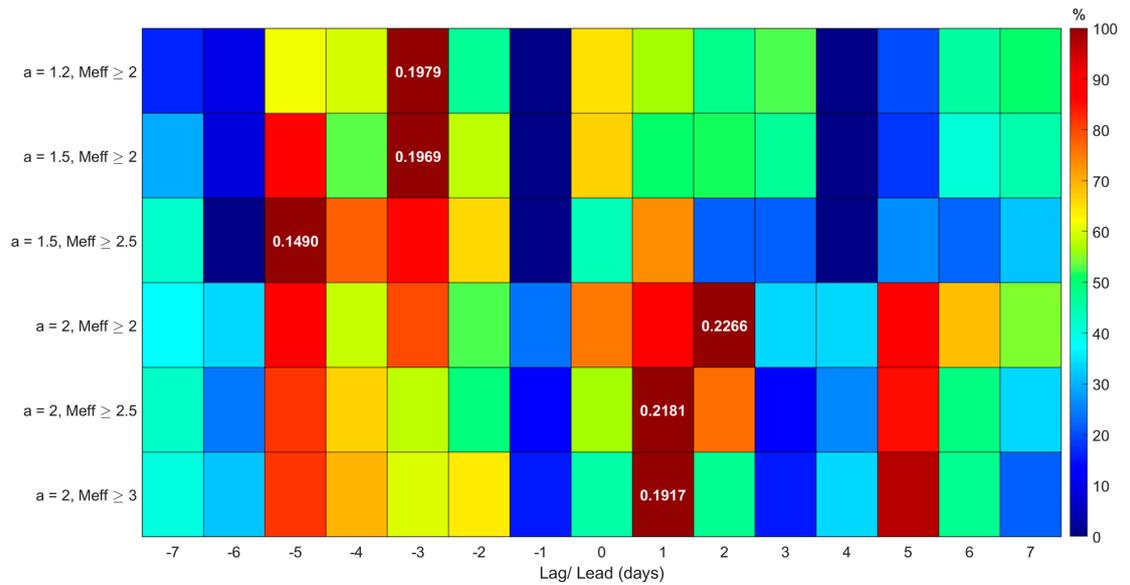
**Figure S18.** Tabular heat map of the cross-correlation between the evening TT of the JJI-KMK path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



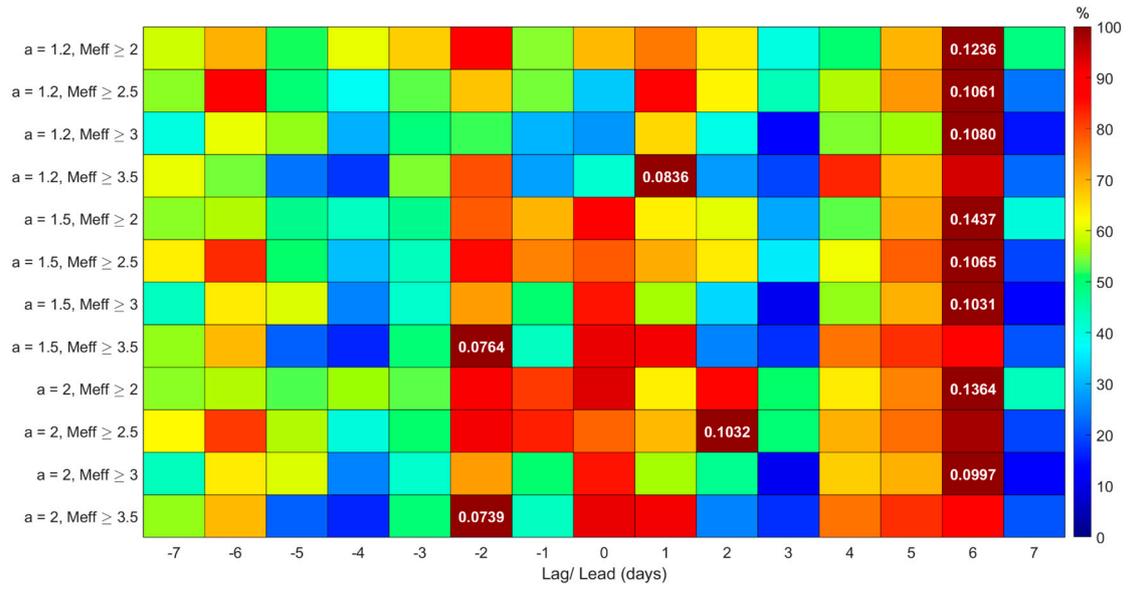
**Figure S21.** Tabular heat map of the cross-correlation between the morning TT of the JJI-KKT path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



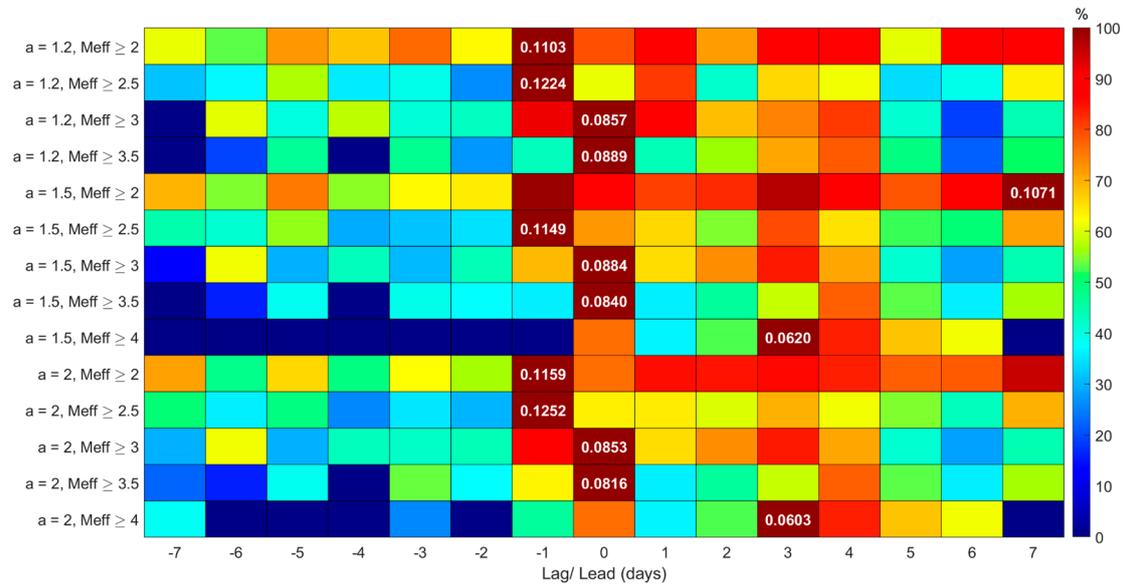
**Figure S22.** Tabular heat map of the cross-correlation between the evening TT of the JJI-KKT path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



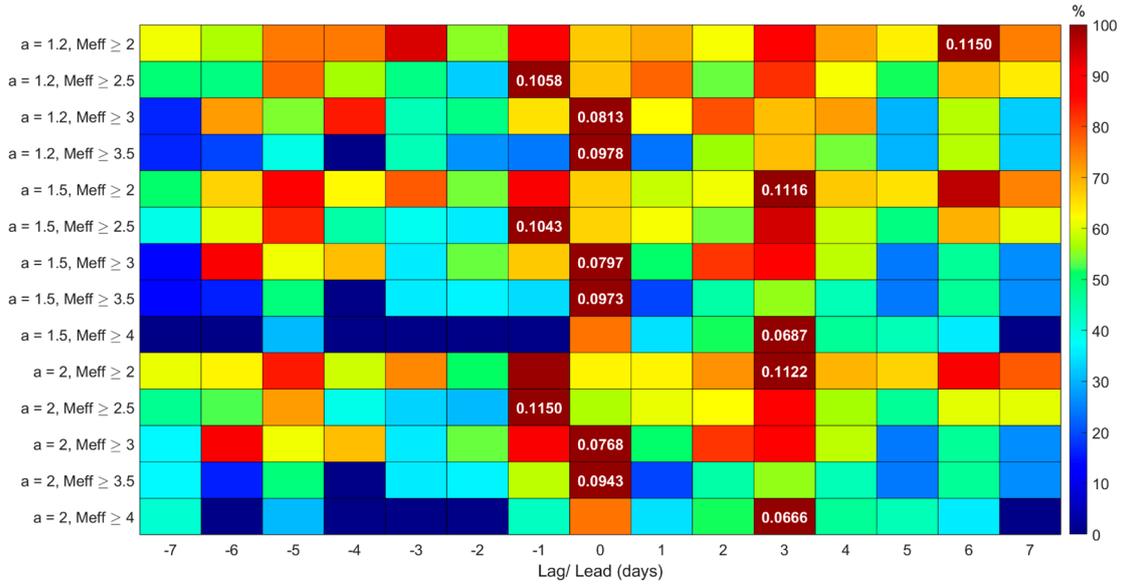
**Figure S23.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-KKT path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



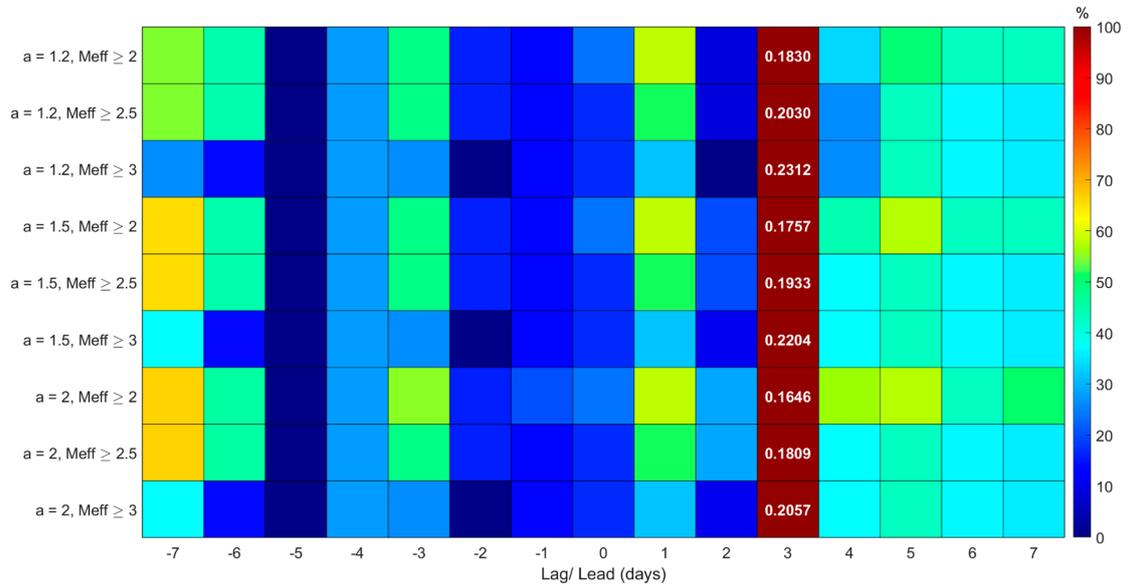
**Figure S24.** Tabular heat map of the cross-correlation between the morning TT of the JJI-AKT path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



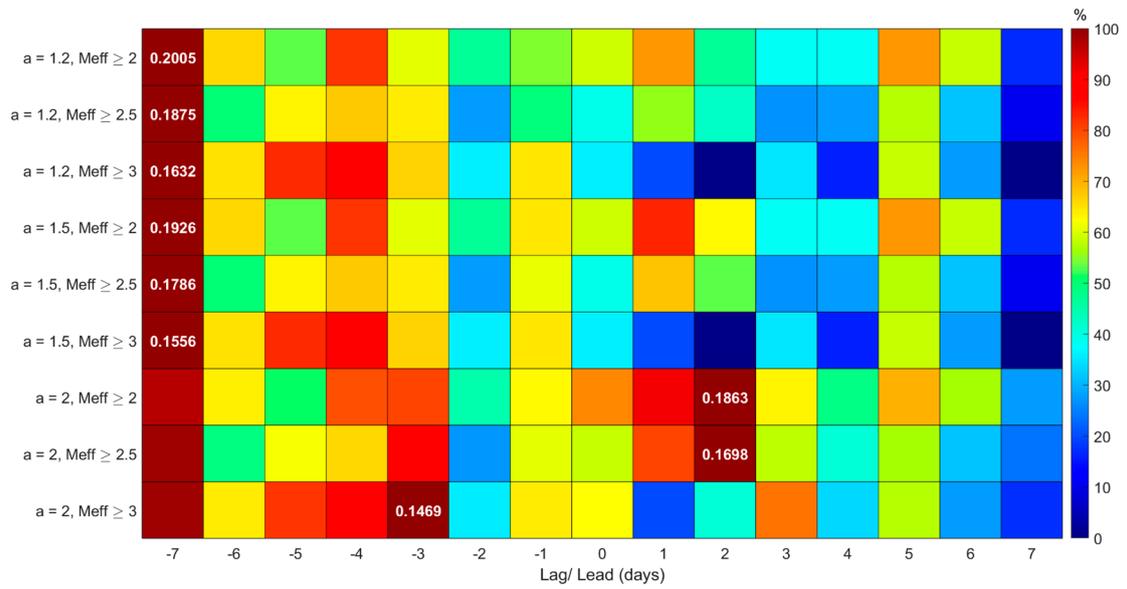
**Figure S25.** Tabular heat map of the cross-correlation between the evening TT of the JJI-AKT path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



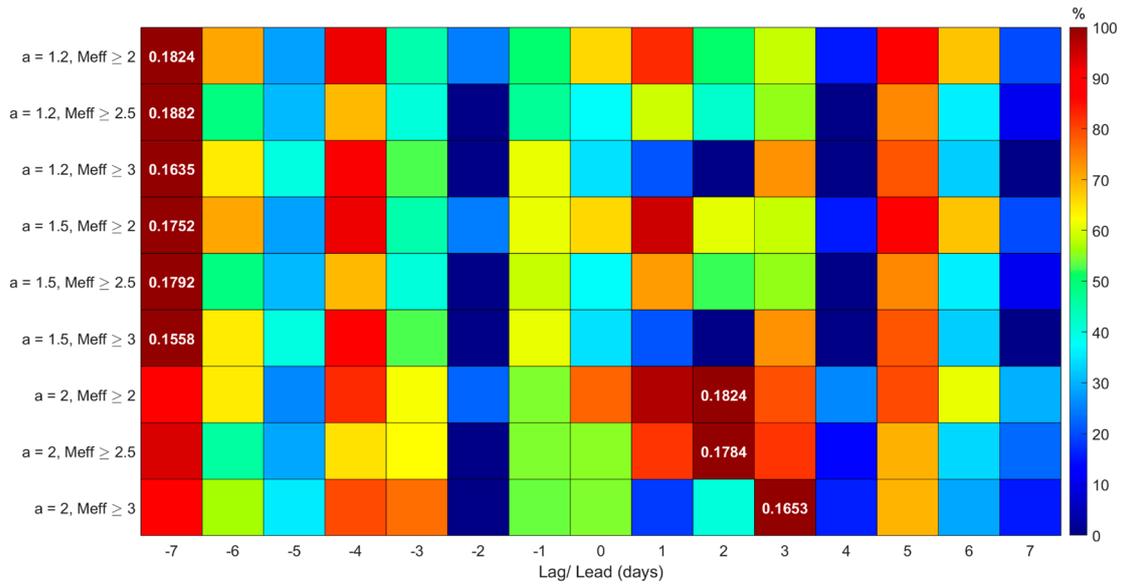
**Figure S26.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-AKT path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



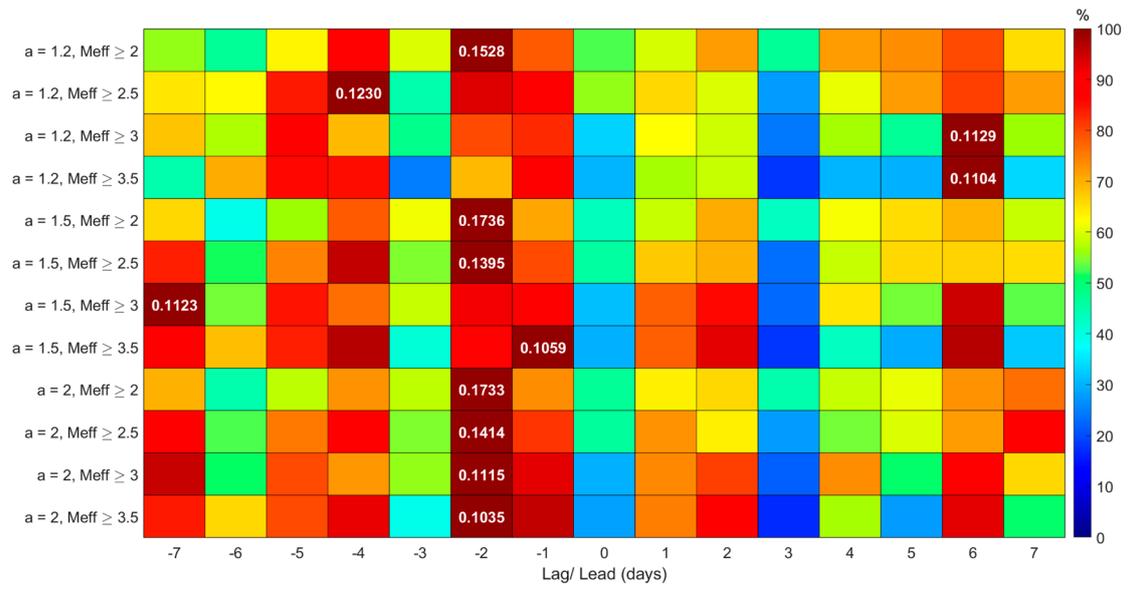
**Figure S27.** Tabular heat map of the cross-correlation between the morning TT of the JJI-AMR path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



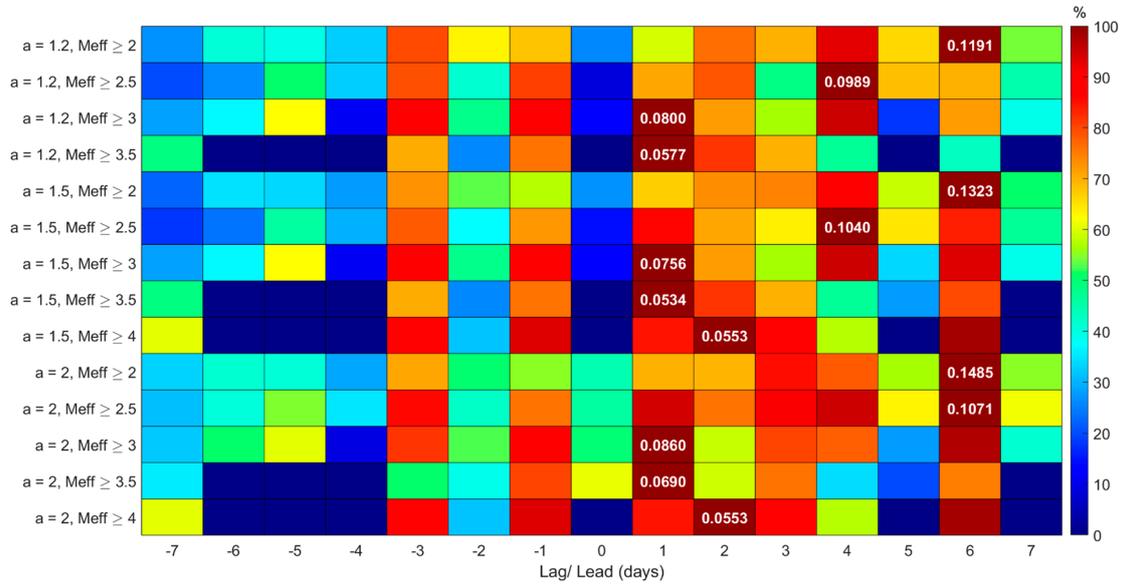
**Figure S28.** Tabular heat map of the cross-correlation between the evening TT of the JJI-AMR path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



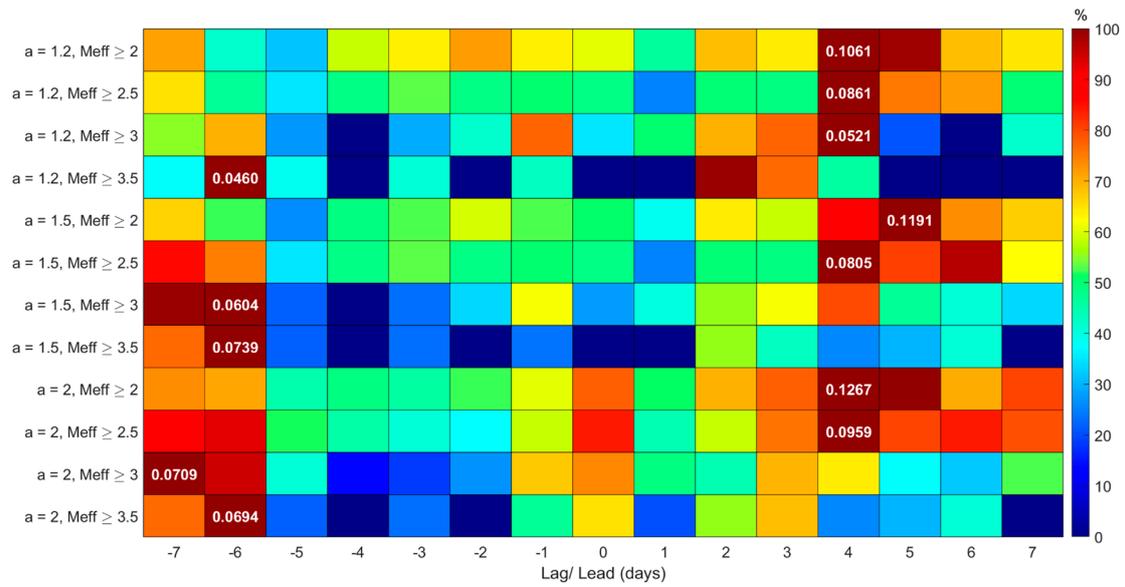
**Figure S29.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-AMR path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



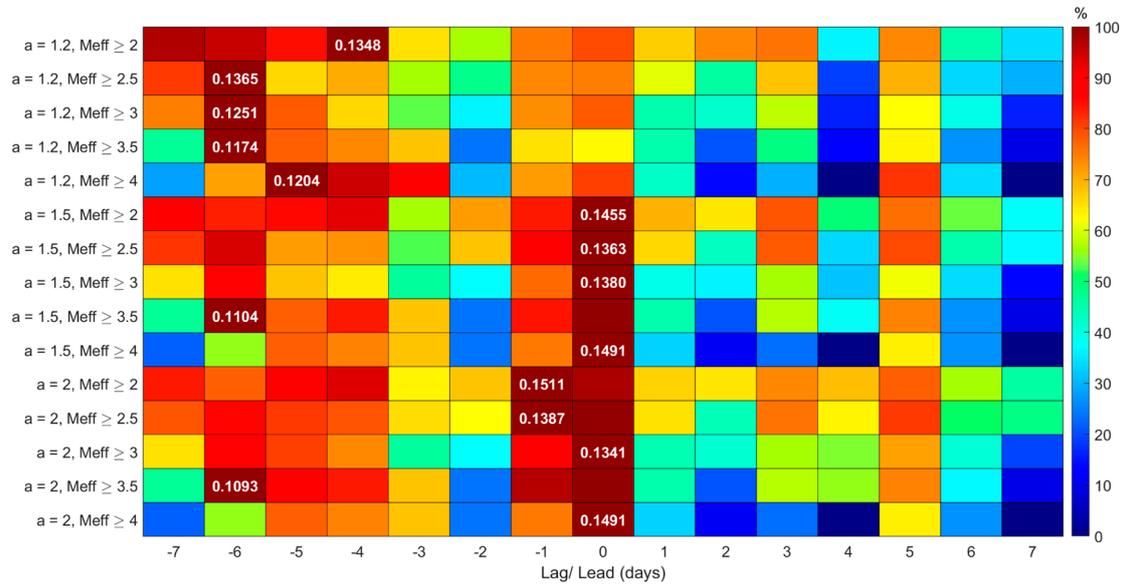
**Figure S30.** Tabular heat map of the cross-correlation between the morning TT of the JJI-STU path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



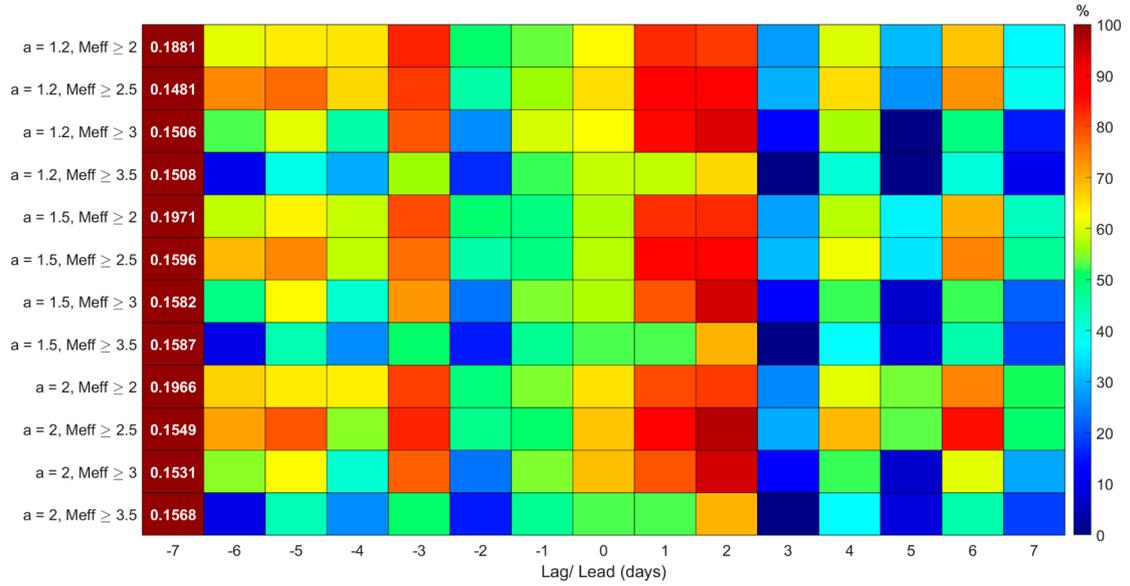
**Figure S31.** Tabular heat map of the cross-correlation between the evening TT of the JJI-STU path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



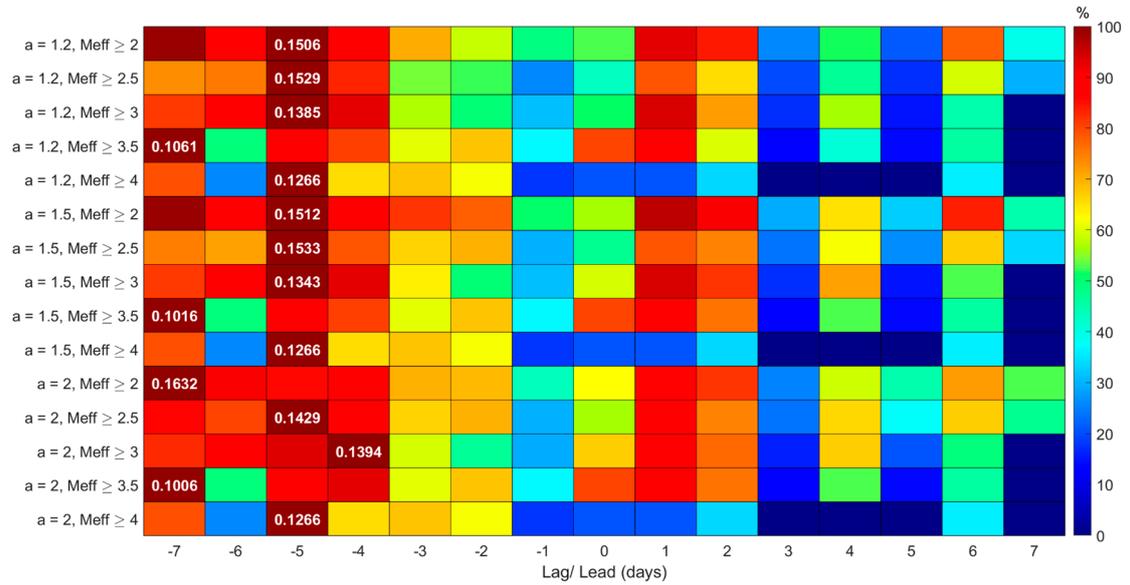
**Figure S32.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-STU path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



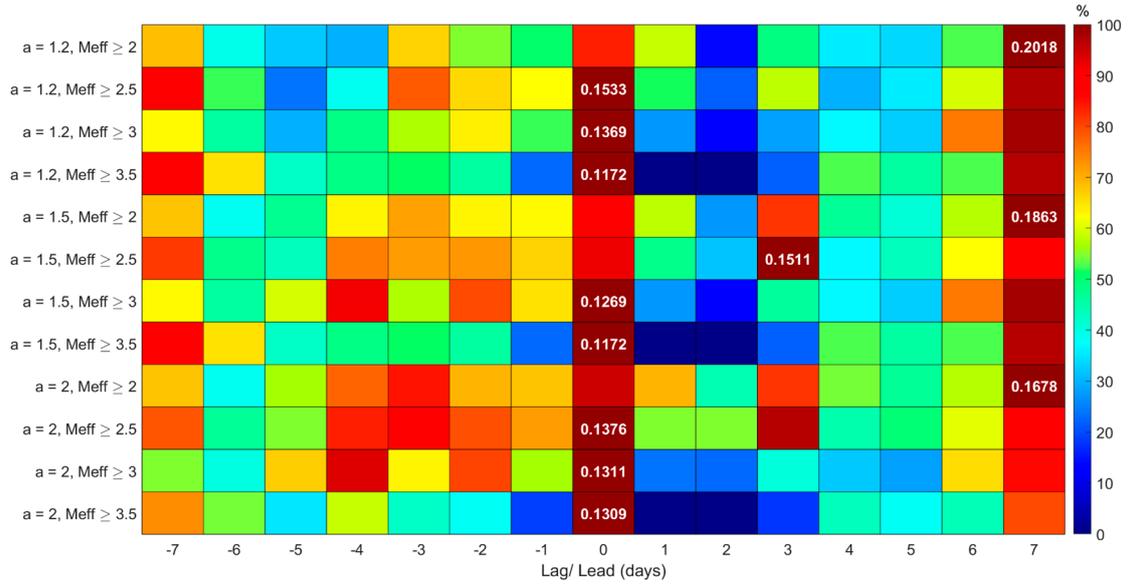
**Figure S33.** Tabular heat map of the cross-correlation between the morning TT of the JJI-NSB path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



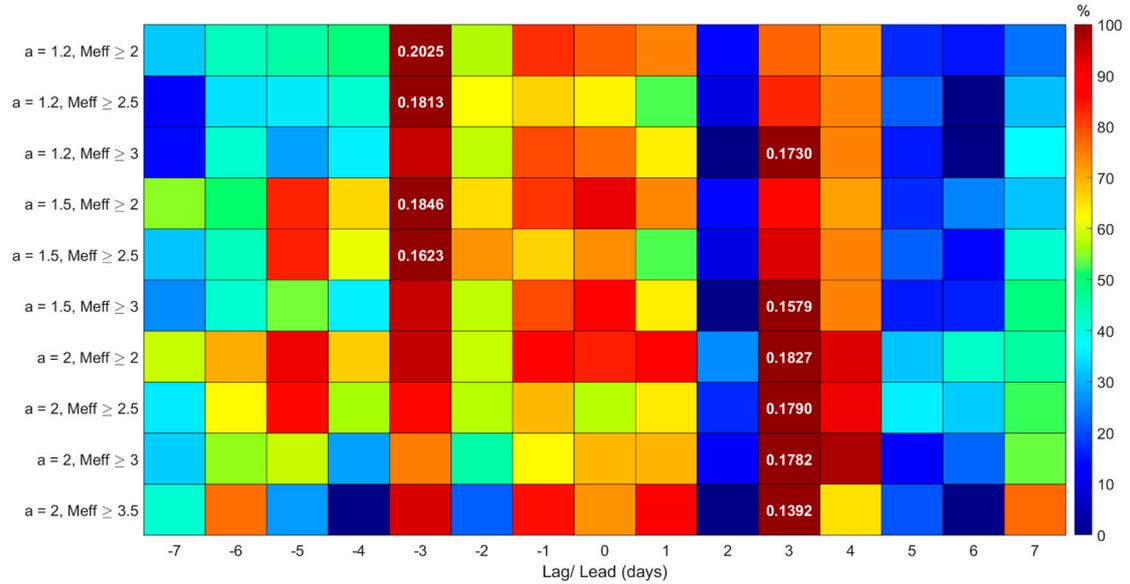
**Figure S34.** Tabular heat map of the cross-correlation between the evening TT of the JJI-NSB path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



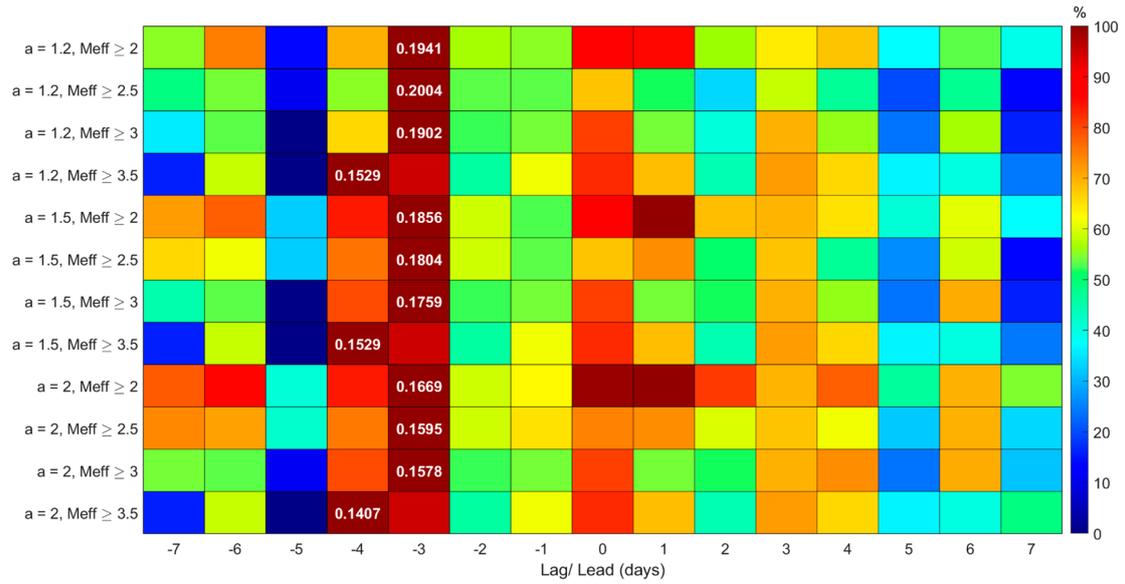
**Figure S35.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-NSB path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



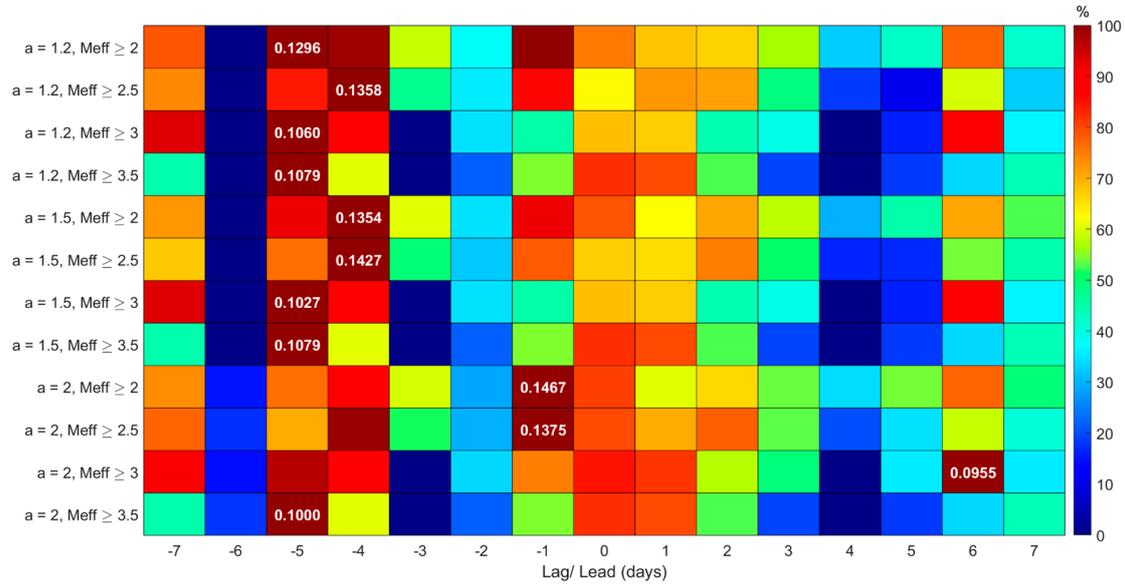
**Figure S36.** Tabular heat map of the cross-correlation between the morning TT of the JJI-WKN path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



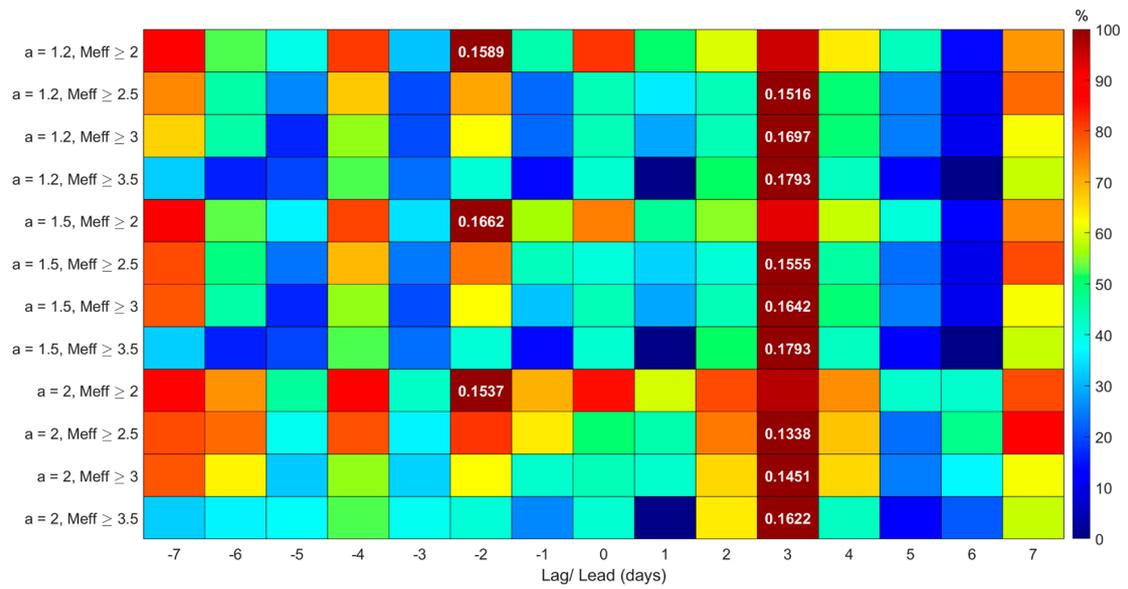
**Figure S37.** Tabular heat map of the cross-correlation between the evening TT of the JJI-WKN path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



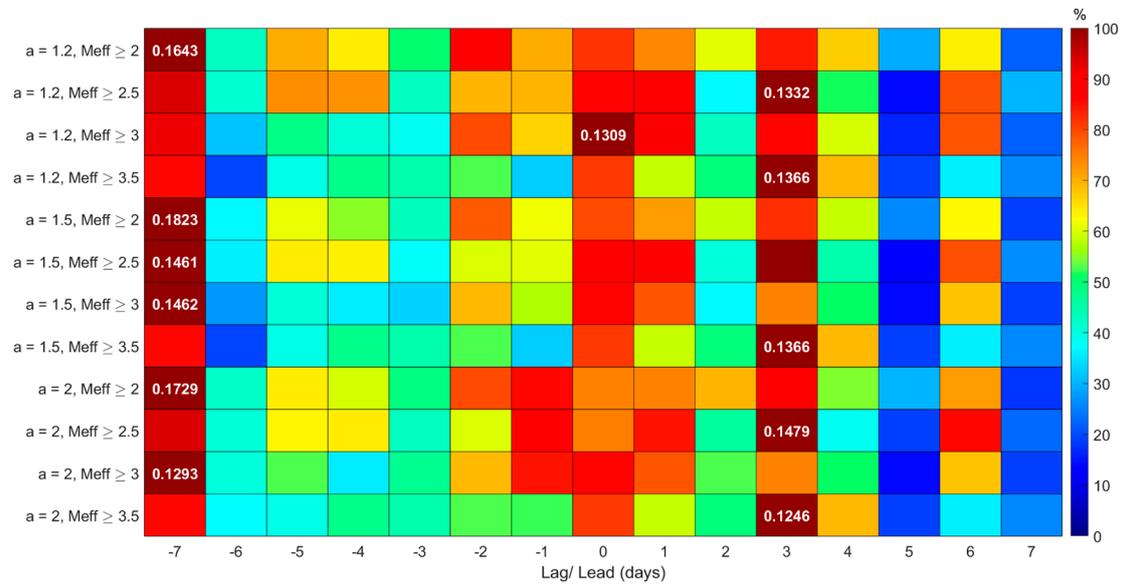
**Figure S38.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-WKN path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



**Figure S39.** Tabular heat map of the cross-correlation between the morning TT of the JJI-NMR path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



**Figure S40.** Tabular heat map of the cross-correlation between the evening TT of the JJI-NMR path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.



**Figure S41.** Tabular heat map of the cross-correlation between the VLF daylength of the JJI-NMR path and the daily seismicity ( $M_{eff}$ ). Figure format is that same as in Figure S1.