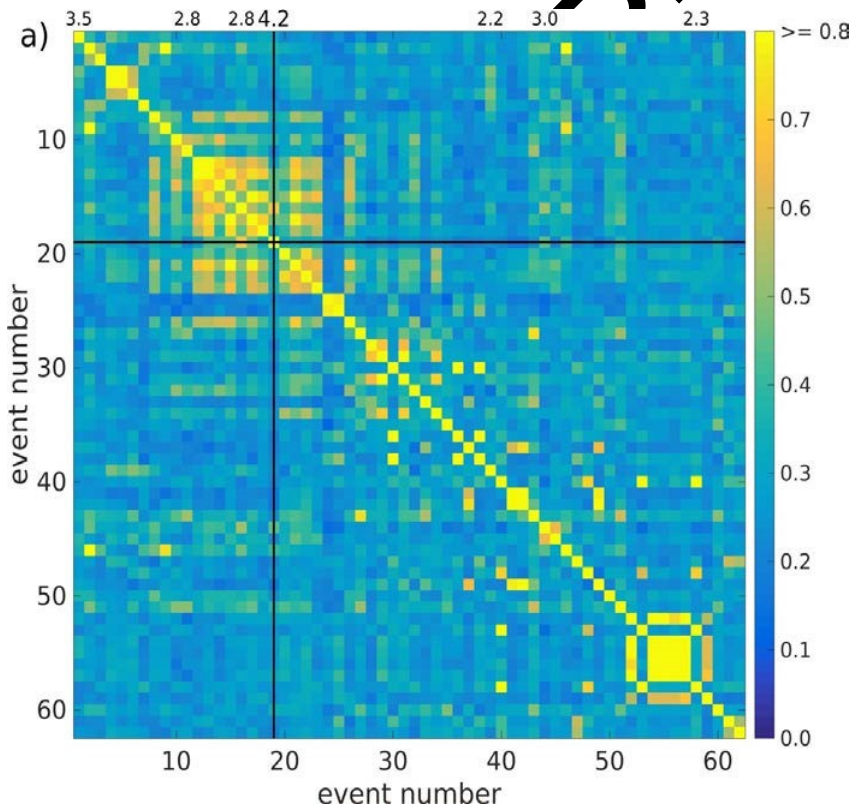


**Figure 1.** The June 25, 2016,  $M_w$ 4.2 earthquake (yellow star) where the NAFZ branches into the Armutlu and the Princes Islands segments. Locations of GONAF borehole arrays indicated in red. The sketch on the left shows the TESV sensor distribution. The black rectangle enlarged on the lower right shows seismicity during the last decade (black) and the eight strongest events (red) of the  $M_w$ 4.2 sequence.



**Figure 2.** The color-coded waveform cross-correlation matrix of pairwise correlation of the 62-event sequence. The events are listed in chronological order along the left and bottom edges of the matrix. The matrix is symmetric about the diagonal, along which their autocorrelations lie. The correlation color scale is cut off at 0.8 in order to better display the variability in the coefficients. The  $M_w$ 4.2 mainshock is shown by the black lines.