A) Spring

$$y = 0.0034x + 3.0201$$
$$R^2 = 0.0078$$

B) Upper tufa barrier

$$y = 0.0037x + 5.3239$$
$$R^2 = 0.002$$

C) Lower tufa barrier

$$y = -0.0007x + 5.1832$$
$$R^2 = 8E\text{-}05$$

Figure S1. Euclidian distance triangular resemblance matrix of dipteran communities over time regression with monthly time-lags (points represent communities compared among themselves with increasing time steps). Plot shows seasonal, non-directional dipteran community dynamics with 18 aquatic true fly families over 156 time steps (12 months x 13 years) for three longitudinally connected sites: (**A**) Spring (IBR = Spring of Bijela Rijeka River), (**B**) Upper (upstream) tufa barrier (BL = Tufa barrier Labudovac), (**C**) Lower (downstream) tufa barrier (BKM = Tufa barrier Kozjak-Milanovac). Different shades of grey are plotted for visualization purposes only. .