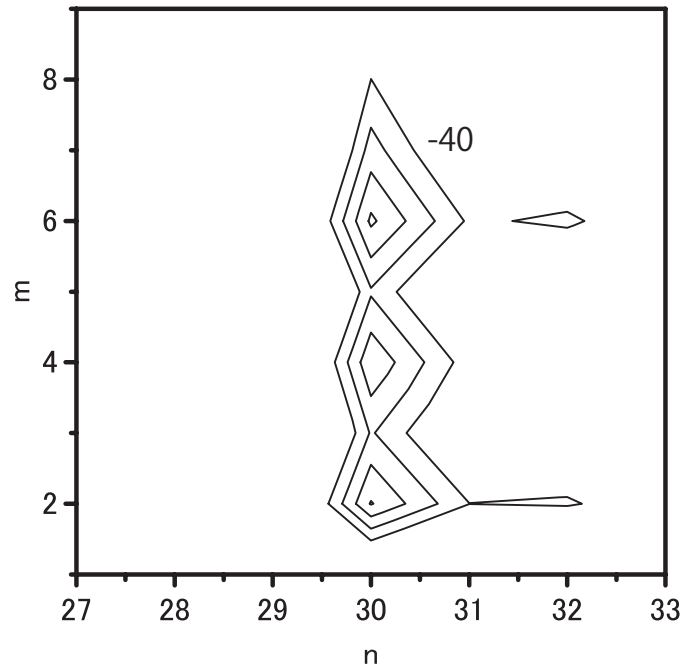




Additional file 1 AIC as a function of n (degree of polynomial function) and m (degree of trigonometric functions) (see text) for the position time series at site 0437, whose location is shown in Fig. 1b. The contour interval is -40. We estimate the optimal n and m that minimize AIC.