SUPPLEMENTARY MATTERIAL

**Environmental variables**

The original data of the sampling cruises are available online through the LifeWatchGreece platform, using the following link:

http://ipt.medobis.eu/resource?r=zoobenthos\_in\_amvrakikos\_wetl﻿ands﻿﻿

**Results of the restricted dataset genetic analysis**

The section includes results of analysis performed using restricted dataset of longer sequences (~610bp). The restricted dataset included 115 sequences. The results of the analysis did not show outstanding differences compared to the ones of the larger dataset with the shorter sequences used in the paper.

The analysis performed to test whether the *N. hombergii* is represented by cryptic species, included calculation of the pairwise distances (Table S1), estimation of groups through the ABGD method (Figure 3) and calculation of the K/θ index. The index was found to be 0.96 (<4). Results by all three methods do not support cryptic speciation in *N. hombergii*.

Figure legends

**Fig. S1.** The phylogenetic network formed by the restricted dataset of the longer sequences. Colors on the pies of the networks represent the different lagoons of the study. Numbers represent the different haplotypes.

**Fig. S2.** The phylogenetic network formed by the restricted dataset of the longer sequences. Colors on the pies of the networks represent the different sampling seasons. Numbers represent the different haplotypes (numbering is the same as in Figure S1).

**Fig. S3.** Neighbor-Joining tree obtained by the ABGD method. Dashed lines show the different groups as defined by the analysis. All the haplotypes of *N. hombergii* were assembled in one group.