**Supplementary materials**

Table S4. Trend of flyway population (2) and impact of covariates (3-5) on the dependent variable – the ratio of the percentage of the numbers of a given species in the study area to the estimated total flyway population in a given year. (1) Target species, (2) trend of flyway population after Nagy et al. 2014; (3) direction of population index change in the ORE; (4) impact of ice cover in the ORE on the dependent variable; (5) impact of ice cover in the whole Baltic on the dependent variable.

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| --- | --- | --- | --- | --- |
| Target species (1) | Trend of flyway population (2) | Index trend in the ORE (3) | Impact of ice cover in the ORE (4) | Impact of ice cover in the whole Baltic (5) |
| Greater Scaup | ↓ | ↑ | ↓ | → |
| Tufted Duck | ↓ | ↑ | ↓ | → |
| Common Pochard | ↓ | ↓ | ↓ | ↓ |
| Common Goldeneye | ↑ | → | ↓ | → |
| Eurasian Coot | → | → | ↓ | ↓ |
| Smew | ↑ | ↓ | → | → |
| Goosander | → | → | → | → |