**Supplementary materials for:**

**Consistency of impact assessment protocols for non-native species**

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**Fig S1.** Spearman correlation matrix and hierarchical cluster of the species rankings for the six protocols common to all taxonomic groups (GISS,GB-NNRA, Harmonia+, EICAT, GABLIS, NGEIAAS) separately calculated for the following species groups: all species, plants, terrestrial invertebrates and aquatic animals (see Table S1 for species in each group). The colour scale indicates the degree of pair-wise correlation between the species rankings obtained for each protocol. In brackets, the mean of all pair-wise Spearman correlations between protocols for each group. See main text for abbreviations.

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**Figure S2.** Spearman correlation matrix and hierarchical cluster of the species scorings for plants and aquatic animals without correcting for sample size bias. The color scale indicates the correlation between the species scorings obtained for each protocol pair. In brackets, the mean of all pairwise correlations per group.

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**Table S1.** List of non-native species considered in the study grouped by Taxonomic group indicating by columns: the number of independent assessments per protocol, the number of protocols considered for each species, the group with the same protocols considered (Group common protocols), the number of records in the Web of Science (WoS) using the accepted scientific name as a query (Records WoS), the mean and coefficient of variation (CV) of the level of expertise across the assessors that evaluated the species, the number of European countries where the species is considered established according to DASIE database, and whether the species is native to part of Europe (yes/no).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Number assess. per protocol** | **Group common protocols** | **Records WoS** | **Mean expertise** | **CV expertise** | **Countries DAISIE** | **Native to part of Europe** | **Nu. Protocol** | **BINPAS** | **EICAT** | **EPPO-EIA** | **EPPO-PRI** | **FISK (et al.)** | **GABLIS** | **GB-NNRA** | **GISS** | **Harmonia+** | **ISEIA** | **NGEIAAS** |
| **Freshwater fish** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Australoheros facetus* | 6 | Aquatic animals | 22 | 1.17 | 0.35 | 0 | No | 9 | x | x |  |  | x | x | x | x | x | x | x |
| *Carassius auratus* | 6 | Aquatic animals | 13767 | 2.33 | 0.22 | 8 | No | 9 | x | x |  |  | x | x | x | x | x | x | x |
| *Oncorhynchus mykiss* | 6 | Aquatic animals | 47437 | 2 | 0.32 | 0 | No | 9 | x | x |  |  | x | x | x | x | x | x | x |
| **Freshwater invertebrates** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Dikerogammarus villosus* | 5 | Aquatic animals | 283 | 2 | 0.5 | 7 | No | 9 | x | x |  |  | x | x | x | x | x | x | x |
| *Dreissena polymorpha* | 5 | Aquatic animals | 6913 | 2.17 | 0.35 | 23 | Yes | 9 | x | x |  |  | x | x | x | x | x | x | x |
| *Hemimysis anomala* | 5 | Aquatic animals | 111 | 2 | 0.5 | 6 | No | 9 | x | x |  |  | x | x | x | x | x | x | x |
| *Pomacea canaliculata* | 5 | Aquatic animals | 654 | 1.6 | 0.56 | 0 | No | 8 | x | x |  |  | x | x | x | x | x | x | x |
| *Procambarus clarkii* | 5 | Aquatic animals | 6879 | 2 | 0.5 | 11 | No | 9 | x | x |  |  | x | x | x | x | x | x | x |
| **Freshwater plants** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Azolla filiculoides* | 7 | Plants | 284 | 1.86 | 0.37 | 17 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Eichhornia crassipes* | 6 | Plants | 1781 | 1.83 | 0.41 | 6 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Hydrocotyle verticillata* | 6 | Plants | 11 | 1.5 | 0.37 | 1 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Myriophyllum heterophyllum* | 8 | Plants | 44 | 1.5 | 0.36 | 2 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Pistia stratiotes* | 7 | Plants | 572 | 1.43 | 0.55 | 3 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| **Insects** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Aedes albopictus* | 5 | Terr. invertebrates | 9803 | 1.8 | 0.25 | 19 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |
| *Anoplophora chinensis* | 5 | Terr. invertebrates | 60 | 2 | 0.5 | 4 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Cameraria ohridella* | 5 | Terr. invertebrates | 394 | 2.2 | 0.38 | 12 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| **Species** | **Number assess. per protocol** | **Group common protocols** | **Records WoS** | **Mean expertise** | **CV expertise** | **Countries DAISIE** | **Native to part of Europe** | **Nu. Protocol** | **BINPAS** | **EICAT** | **EPPO-EIA** | **EPPO-PRI** | **FISK (et al.)** | **GABLIS** | **GB-NNRA** | **GISS** | **Harmonia+** | **ISEIA** | **NGEIAAS** |
| *Cydalima perspectalis* | 5 | Terr. invertebrates | 52 | 2.17 | 0.19 | 10 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Diabrotica virgifera* | 5 | Terr. invertebrates | 1202 | 1.8 | 0.61 | 16 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Drosophila suzukii* | 7 | Terr. invertebrates | 219 | 1.67 | 0.31 | 6 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Dryocosmus kuriphilus* | 5 | Terr. invertebrates | 218 | 2 | 0.5 | 7 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Harmonia axyridis* | 6 | Terr. invertebrates | 1592 | 2.5 | 0.22 | 28 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |
| *Leptinotarsa decemlineata* | 5 | Terr. invertebrates | 2941 | 1 | 0 | 38 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Leptoglossus occidentalis* | 6 | Terr. invertebrates | 195 | 2 | 0.45 | 12 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Linepithema humile* | 6 | Terr. invertebrates | 761 | 2 | 0.45 | 15 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |
| *Tuta absoluta* | 5 | Terr. invertebrates | 446 | 1.8 | 0.46 | 26 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Vespa velutina* | 6 | Terr. invertebrates | 129 | 1.17 | 0.35 | 1 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |
| **Marine** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Caulerpa cylindracea* | 5 | Algae | 107 | 2 | 0.5 | 11 | No | 7 | x | x |  |  |  | x | x | x | x |  | x |
| *Conomurex persicus* | 5 | Aquatic animals | 18 | 2 | 0.45 | 0 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Crepidula fornicata* | 5 | Aquatic animals | 710 | 2.2 | 0.38 | 15 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Mnemiopsis leidyi* | 5 | Aquatic animals | 813 | 2 | 0.5 | 6 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Percnon gibbesi* | 5 | Aquatic animals | 71 | 2.2 | 0.38 | 4 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Plotosus lineatus* | 5 | Aquatic animals | 89 | 1.5 | 0.56 | 1 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Rapana venosa* | 5 | Aquatic animals | 287 | 1.8 | 0.61 | 5 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Rhopilema nomadica* | 5 | Aquatic animals | 43 | 1.67 | 0.49 | 4 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Siganus luridus* | 6 | Aquatic animals | 118 | 2.5 | 0.22 | 10 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| *Stephanolepis diaspros* | 5 | Aquatic animals | 24 | 2 | 0.5 | 11 | No | 8 | x | x |  |  | x | x | x | x | x |  | x |
| **Other terrestrial insects** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Arion vulgaris (=lusitanicus)* | 5 | Terr. invertebrates | 320 | 1.8 | 0.61 | 10 | Yes | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Arthurdendyus triangulatus* | 5 | Terr. invertebrates | 37 | 1 | 0 | 0 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Bursaphelenchus xylophilus* | 5 | Terr. invertebrates | 1365 | 1 | 0 | 3 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Fascioloides magna* | 5 | Terr. invertebrates | 298 | 1.4 | 0.64 | 2 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| **Species** | **Number assess. per protocol** | **Group common protocols** | **Records WoS** | **Mean expertise** | **CV expertise** | **Countries DAISIE** | **Native to part of Europe** | **Nu. Protocol** | **BINPAS** | **EICAT** | **EPPO-EIA** | **EPPO-PRI** | **FISK (et al.)** | **GABLIS** | **GB-NNRA** | **GISS** | **Harmonia+** | **ISEIA** | **NGEIAAS** |
| **Pathogens** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Hymenoscyphus fraxineus* | 5 | Pathogen | 78 | 2 | 0.45 | 0 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Phytophthora alni* | 6 | Pathogen | 47 | 2.17 | 0.19 | 19 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| *Phytophthora plurivora* | 7 | Pathogen | 30 | 1.86 | 0.37 | 0 | No | 8 |  | x | x |  |  | x | x | x | x | x | x |
| **Terrestrial plants** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Acacia dealbata* | 5 | Plants | 182 | 2 | 0.35 | 8 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Ambrosia artemisiifolia* | 8 | Plants | 1049 | 2.25 | 0.31 | 14 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Baccharis halimifolia* | 5 | Plants | 103 | 1.6 | 0.56 | 5 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Cortaderia selloana* | 5 | Plants | 53 | 1.8 | 0.46 | 8 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Heracleum mantegazzianum* | 6 | Plants | 175 | 2 | 0.45 | 17 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Lupinus polyphyllus* | 5 | Plants | 178 | 1.4 | 0.39 | 16 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Opuntia ficus-indica* | 6 | Plants | 1604 | 2 | 0.32 | 12 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Robinia pseudoacacia* | 6 | Plants | 1583 | 2.33 | 0.22 | 32 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Sicyos angulatus* | 5 | Plants | 49 | 1.8 | 0.46 | 3 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| *Solanum elaeagnifolium* | 5 | Plants | 146 | 1.4 | 0.39 | 6 | No | 9 |  | x | x | x |  | x | x | x | x | x | x |
| **Terrestrial vertebrates** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Lithobates catesbeianus*  | 5 | Terr. Vertebrates | 380 | 1.8 | 0.46 | 8 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |
| *Psittacula krameri*  | 5 | Terr. Vertebrates | 500 | 1.6 | 0.34 | 18 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |
| *Threskiornis aethiopicus*  | 6 | Terr. Vertebrates | 119 | 1.33 | 0.39 | 2 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |
| *Trachemys scripta*  | 5 | Terr. Vertebrates | 1612 | 1.6 | 0.34 | 15 | No | 7 |  | x |  |  |  | x | x | x | x | x | x |

*Abbreviations. Terr.: terrestrial; WoS: Web of Science; CV: Coefficient of Variation*

**Table S2.** Pearson correlation coefficients among the continuous variables used in the regression analyses to explain the coefficient of variation of scores across assessors with species and protocol characteristics. Significance values: \*\**P*<0.01, \*\*\* *P*<0.001

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | Number of questions | Records WoS | Expertise required | Mean assessor expertise |
| Records WoS | 0.04 |  |  |  |
| Expertise required | **0.51\*\*\*** | 0.03 |  |  |
| Mean assessor expertise | 0.05 | **0.15\*\*** | 0.05 |  |
| CV assessor expertise | 0.04 | **-0.16\*\*\*** | 0.03 | 0.09\* |
| *WoS: Web of Science; CV: Coefficient of Variation* |