Supplementary Materials:



**Figure S1.** Illustrative pictures of the study regions. Donaukanal study region in urban Vienna with the occurrence of *Ailanthus altissima* and *Populus x canadensis* (A, B). Donauinsel study region in peri-urban Vienna, with *Ailanthus altissima* growing in rip-rap structures (D). Sources: A: <https://touren.labut.at/donaukanal/>; B: [https://www.wien.gv.at/stadtentwicklung/projekte/-zielgebiete/donaukanal/projekte/leitlinien.html](https://www.wien.gv.at/stadtentwicklung/projekte/zielgebiete/donaukanal/projekte/leitlinien.html); C: [http://www.donauwanderweg.at/-neuedonaudonaustadt.html](http://www.donauwanderweg.at/neuedonaudonaustadt.html), D: http://www.oewav.at/home/Service/Neophyten.

**Table S1.** Alien and native woody species composition in the 75 study plots. Given are study region, name of the woody species, vegetation layer, and occurrence (in %) in the 75 plots.

Provided in a separate file (the Excel file).

**Table S2.** Survey data and explanatory variables used in the analyses. Given are plot number, study region (Donaukanal, Donauinsel, Tullner Becken), sampling date, level of disturbance (1 = low, 3 = high), proportion of urban habitats and human population density (in a radius of 500 m around the plot), and occurrence (presence / absence) of the five most wide-spread alien woody species in the study plots.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study Region** | **Plot ID** | **Sampling Date** | ***Ailanthus Altissima*** | ***Acer Negundo*** | ***Fraxinus Pennsylvanica*** | ***Populus x Canadensis*** | ***Robinia Pseudoacacia*** | **Proportion of Urban Habitat** | **Human Population Size** | **Disturbance** |
| Donaukanal | DK1 | 17.04.2018 | 0 | 1 | 0 | 1 | 0 | 94% | 52 | 2 |
| Donaukanal | DK2 | 17.04.2018 | 0 | 1 | 0 | 1 | 0 | 94% | 13 | 1 |
| Donaukanal | DK3 | 28.07.2018 | 0 | 0 | 1 | 1 | 0 | 84% | 7746 | 1 |
| Donaukanal | DK4 | 21.08.2018 | 0 | 1 | 1 | 1 | 0 | 75% | 7779 | 2 |
| Donaukanal | DK5 | 21.08.2018 | 0 | 0 | 0 | 1 | 0 | 81% | 9673 | 3 |
| Donaukanal | DK6 | 23.08.2018 | 1 | 0 | 1 | 1 | 0 | 96% | 11151 | 1 |
| Donaukanal | DK7 | 23.08.2018 | 0 | 1 | 0 | 1 | 0 | 95% | 12861 | 2 |
| Donaukanal | DK8 | 17.04.2018 | 0 | 1 | 0 | 1 | 0 | 83% | 1284 | 2 |
| Donaukanal | DK9 | 17.04.2018 | 0 | 1 | 0 | 1 | 0 | 73% | 970 | 2 |
| Donaukanal | DK10 | 17.04.2018 | 0 | 0 | 0 | 0 | 0 | 89% | 1205 | 2 |
| Donaukanal | DK11 | 02.05.2018 | 1 | 1 | 0 | 1 | 0 | 96% | 6983 | 3 |
| Donaukanal | DK12 | 02.05.2018 | 1 | 0 | 1 | 1 | 0 | 68% | 7396 | 3 |
| Donaukanal | DK13 | 02.05.2018 | 0 | 0 | 0 | 1 | 0 | 84% | 7821 | 3 |
| Donaukanal | DK14 | 02.05.2018 | 0 | 0 | 0 | 0 | 0 | 83% | 8498 | 3 |
| Donaukanal | DK15 | 02.05.2018 | 0 | 1 | 0 | 1 | 0 | 85% | 10832 | 3 |
| Donaukanal | DK16 | 02.05.2018 | 1 | 1 | 0 | 1 | 0 | 96% | 10843 | 2 |
| Donaukanal | DK17 | 02.05.2018 | 1 | 1 | 0 | 1 | 0 | 96% | 12822 | 3 |
| Donaukanal | DK18 | 02.05.2018 | 0 | 1 | 1 | 1 | 0 | 95% | 14330 | 2 |
| Donaukanal | DK19 | 02.05.2018 | 0 | 0 | 0 | 0 | 0 | 96% | 11975 | 3 |
| Donaukanal | DK20 | 02.05.2018 | 1 | 1 | 1 | 0 | 1 | 96% | 9018 | 3 |
| Donaukanal | DK21 | 08.05.2018 | 0 | 1 | 0 | 1 | 0 | 94% | 14197 | 3 |
| Donaukanal | DK22 | 08.05.2018 | 1 | 1 | 0 | 1 | 0 | 96% | 14496 | 3 |
| Donaukanal | DK23 | 08.05.2018 | 1 | 1 | 1 | 1 | 0 | 97% | 13605 | 2 |
| Donaukanal | DK24 | 08.05.2018 | 0 | 0 | 0 | 1 | 0 | 96% | 10329 | 3 |
| Donaukanal | DK25 | 08.05.2018 | 0 | 0 | 0 | 1 | 0 | 89% | 4770 | 2 |
| Donauinsel | DI1 | 08.05.2018 | 0 | 0 | 0 | 1 | 1 | 38% | 3091 | 2 |
| Donauinsel | DI2 | 08.05.2018 | 0 | 1 | 0 | 0 | 0 | 39% | 4255 | 2 |
| Donauinsel | DI3 | 08.05.2018 | 0 | 0 | 0 | 0 | 0 | 45% | 5173 | 2 |
| Donauinsel | DI4 | 08.05.2018 | 0 | 0 | 1 | 0 | 0 | 40% | 2976 | 1 |
| Donauinsel | DI5 | 08.05.2018 | 0 | 1 | 0 | 0 | 0 | 40% | 4130 | 2 |
| Donauinsel | DI6 | 27.05.2018 | 0 | 0 | 0 | 0 | 1 | 32% | 231 | 2 |
| Donauinsel | DI7 | 27.05.2018 | 0 | 0 | 0 | 1 | 0 | 20% | 23 | 1 |
| Donauinsel | DI8 | 27.05.2018 | 1 | 1 | 0 | 0 | 0 | 29% | 2192 | 1 |
| Donauinsel | DI9 | 27.05.2018 | 0 | 1 | 1 | 0 | 0 | 34% | 3951 | 2 |
| Donauinsel | DI10 | 27.05.2018 | 1 | 1 | 0 | 0 | 0 | 38% | 7877 | 2 |
| Donauinsel | DI11 | 07.06.2018 | 0 | 1 | 0 | 0 | 0 | 32% | 3751 | 1 |
| Donauinsel | DI12 | 07.06.2018 | 0 | 0 | 0 | 0 | 1 | 41% | 2550 | 2 |
| Donauinsel | DI13 | 07.06.2018 | 0 | 1 | 0 | 0 | 0 | 38% | 3239 | 2 |
| Donauinsel | DI14 | 06.07.2018 | 0 | 0 | 1 | 0 | 0 | 27% | 2835 | 2 |
| Donauinsel | DI15 | 06.07.2018 | 0 | 1 | 0 | 1 | 0 | 24% | 2114 | 2 |
| Donauinsel | DI16 | 17.06.2018 | 0 | 0 | 0 | 0 | 1 | 35% | 511 | 2 |
| Donauinsel | DI17 | 17.06.2018 | 0 | 0 | 0 | 1 | 1 | 33% | 406 | 1 |
| Donauinsel | DI18 | 17.06.2018 | 0 | 0 | 0 | 0 | 0 | 32% | 544 | 2 |
| Donauinsel | DI19 | 17.06.2018 | 0 | 0 | 1 | 0 | 0 | 23% | 55 | 2 |
| Donauinsel | DI20 | 17.06.2018 | 0 | 1 | 1 | 0 | 1 | 22% | 24 | 2 |
| Donauinsel | DI21 | 17.06.2018 | 0 | 0 | 0 | 1 | 0 | 21% | 25 | 2 |
| Donauinsel | DI22 | 17.06.2018 | 0 | 0 | 0 | 0 | 1 | 21% | 8 | 1 |
| Donauinsel | DI23 | 17.06.2018 | 0 | 0 | 0 | 0 | 0 | 6% | 52 | 1 |
| Donauinsel | DI24 | 17.06.2018 | 0 | 1 | 1 | 1 | 0 | 11% | 11 | 1 |
| Donauinsel | DI25 | 08.05.2018 | 0 | 0 | 0 | 1 | 0 | 7% | 3 | 1 |
| Tullner Becken | TB1 | 20.07.2018 | 0 | 0 | 0 | 1 | 0 | 7% | 74 | 2 |
| Tullner Becken | TB2 | 20.07.2018 | 0 | 0 | 1 | 1 | 0 | 6% | 2 | 1 |
| Tullner Becken | TB3 | 20.07.2018 | 0 | 1 | 0 | 0 | 0 | 1% | 0 | 1 |
| Tullner Becken | TB4 | 20.07.2018 | 0 | 0 | 0 | 1 | 0 | 0% | 0 | 1 |
| Tullner Becken | TB5 | 20.07.2018 | 0 | 0 | 1 | 0 | 0 | 0% | 0 | 1 |
| Tullner Becken | TB6 | 20.07.2018 | 0 | 0 | 0 | 0 | 1 | 7% | 76 | 2 |
| Tullner Becken | TB7 | 20.07.2018 | 0 | 0 | 0 | 1 | 0 | 0% | 0 | 1 |
| Tullner Becken | TB8 | 20.07.2018 | 0 | 1 | 0 | 0 | 1 | 0% | 406 | 1 |
| Tullner Becken | TB9 | 20.07.2018 | 0 | 1 | 0 | 1 | 1 | 0% | 0 | 1 |
| Tullner Becken | TB10 | 20.07.2018 | 0 | 1 | 0 | 0 | 0 | 0% | 0 | 1 |
| Tullner Becken | TB11 | 20.07.2018 | 0 | 0 | 0 | 0 | 1 | 0% | 20 | 1 |
| Tullner Becken | TB12 | 20.07.2018 | 0 | 0 | 0 | 0 | 0 | 0% | 17 | 1 |
| Tullner Becken | TB13 | 20.07.2018 | 0 | 1 | 1 | 0 | 1 | 0% | 12 | 2 |
| Tullner Becken | TB14 | 20.07.2018 | 0 | 0 | 0 | 0 | 0 | 0% | 2 | 2 |
| Tullner Becken | TB15 | 20.07.2018 | 0 | 0 | 1 | 0 | 0 | 0% | 0 | 1 |
| Tullner Becken | TB16 | 20.07.2018 | 0 | 0 | 1 | 0 | 0 | 0% | 5 | 1 |
| Tullner Becken | TB17 | 20.07.2018 | 0 | 1 | 0 | 0 | 0 | 24% | 79 | 2 |
| Tullner Becken | TB18 | 20.07.2018 | 0 | 0 | 0 | 0 | 0 | 32% | 149 | 2 |
| Tullner Becken | TB19 | 20.07.2018 | 0 | 0 | 0 | 0 | 0 | 28% | 94 | 2 |
| Tullner Becken | TB20 | 20.07.2018 | 0 | 0 | 0 | 0 | 0 | 42% | 27 | 2 |
| Tullner Becken | TB21 | 20.07.2018 | 0 | 0 | 0 | 0 | 0 | 46% | 401 | 2 |
| Tullner Becken | TB22 | 20.07.2018 | 0 | 0 | 1 | 0 | 0 | 16% | 221 | 2 |
| Tullner Becken | TB23 | 20.07.2018 | 0 | 0 | 1 | 1 | 1 | 0% | 78 | 2 |
| Tullner Becken | TB24 | 20.07.2018 | 0 | 0 | 1 | 1 | 0 | 3% | 347 | 2 |
| Tullner Becken | TB25 | 20.07.2018 | 0 | 0 | 0 | 0 | 0 | 0% | 241 | 1 |

**Table S3.** Overview on the recorded woody species in the 75 plots. Given are scientific name, and the biogeographic status (native / alien).

|  |  |
| --- | --- |
| **Species** | **Biogeographic Status** |
| *Acer campestre* | native |
| *Acer negundo* | alien |
| *Acer platanoides* | native |
| *Acer pseudoplatanus* | native |
| *Acer pseudoplatanus* f. *purpureum* | native |
| *Acer saccharinum* | alien |
| *Aesculus hippocastanum* | alien |
| *Ailanthus altissima* | alien |
| *Alnus glutinosa* | native |
| *Amorpha fructicosa* | alien |
| *Betula pendula* | native |
| *Berberis thunbergii* | alien |
| *Buddleja davidii* | alien |
| *Celtis occidentalis* | alien |
| *Clematis vitalba* | native |
| *Cornus alba* | alien |
| *Cornus sanguinea* | native |
| *Corylus avellana* | native |
| *Corylus colurna* | alien |
| *Crataegus monogyna* | native |
| *Euonymus europaea* | native |
| *Ficus carica* | alien |
| *Frangula alnus* | alien |
| *Fraxinus excelsior* | native |
| *Fraxinus pennsylvanica* | alien |
| *Gleditsia triacanthos* | alien |
| *Hedera helix* | native |
| *Juglans nigra* | alien |
| *Juglans regia* | alien |
| *Koelreuteria paniculata* | alien |
| *Laburnum anagyroides* | native |
| *Ligustrum vulgare* | native |
| *Lonicera xylosteum* | native |
| *Mahonia aquifolium* | alien |
| *Malus domestica* | alien |
| *Morus alba* | alien |
| *Parthenocissus inserta* | alien |
| *Populus alba* | native |
| *Populus x canadensis* | alien |
| *Populus nigra* | native |
| *Prunus avium* | native |
| *Prunus cerasifera* | native |
| *Prunus cerasifera nigra* | native |
| *Prunus mahaleb* | native |
| *Prunus padus* | native |
| *Prunus spinosa* | native |
| *Pyrus pyraster* | native |
| *Quercus robur* | native |
| *Robinia pseudoacacia* | alien |
| *Rosa canina* agg*.* | native |
| *Rubus fruticosus* | native |
| *Salix alba* | native |
| *Salix cinerea* | native |
| *Salix eleagnos* | native |
| *Salix fragilis* | native |
| *Salix purpurea* | native |
| *Sambucus nigra* | native |
| *Sorbus domestica* | native |
| *Symphoricarpos albus* | alien |
| *Tilia cordata* | native |
| *Tilia platyphyllos* | native |
| *Ulmus campestris* | native |
| *Ulmus glabra* | native |
| *Ulmus laevis* | native |
| *Ulmus minor* | native |
| *Viburnum lantana* | native |
| *Viburnum rhytidophyllum* | alien |
| *Viscum album* | native |
| *Viburnum opulus* | native |