

Centrality measures of current network of invasive species management in the German North Sea and Wadden Sea

| Id | Label           | Eccentricity | closenesscentrality | harmonicclosenesscentrality | betweennesscentrality | eigencentality | Degree |
|----|-----------------|--------------|---------------------|-----------------------------|-----------------------|----------------|--------|
| 1  | Aquaecology     | 5            | 0.486842            | 0.569144                    | 0                     | 0.639028       | 16     |
| 2  | Austernkompanie | 6            | 0.286822            | 0.310135                    | 0                     | 0.010371       | 1      |
| 3  | AWI Bhv         | 6            | 0.359223            | 0.404505                    | 0.25                  | 0.093428       | 3      |
| 4  | AWI Sylt        | 5            | 0.548148            | 0.670495                    | 485.726923            | 0.85248        | 33     |
| 5  | BASt            | 6            | 0.379487            | 0.415315                    | 0                     | 0.055715       | 1      |
| 6  | BFG             | 6            | 0.38342             | 0.424324                    | 73                    | 0.056742       | 2      |
| 7  | BfN             | 5            | 0.486842            | 0.569144                    | 0                     | 0.673351       | 18     |
| 8  | Bioconsult      | 5            | 0.5                 | 0.587162                    | 59.983333             | 0.689333       | 20     |
| 9  | BLANO           | 5            | 0.486842            | 0.569144                    | 0                     | 0.639028       | 16     |
| 10 | BMUV            | 6            | 0.355769            | 0.389414                    | 0                     | 0.047238       | 1      |
| 11 | BSH             | 5            | 0.606557            | 0.739189                    | 978.948718            | 1              | 41     |
| 12 | BUKEA           | 6            | 0.318966            | 0.343694                    | 0                     | 0.022605       | 1      |
| 13 | Bundeswehr      | 8            | 0.23125             | 0.252622                    | 0                     | 0.001683       | 1      |
| 14 | CWSS            | 5            | 0.510345            | 0.611937                    | 17.24359              | 0.761051       | 22     |
| 15 | EBA             | 6            | 0.379487            | 0.415315                    | 0                     | 0.055715       | 1      |
| 16 | Geomar          | 5            | 0.493333            | 0.582658                    | 90.730769             | 0.646901       | 18     |
| 17 | GMARIS          | 5            | 0.4625              | 0.528604                    | 0                     | 0.384809       | 11     |
| 18 | HELCOM          | 6            | 0.393617            | 0.449099                    | 89.538462             | 0.074608       | 7      |
| 19 | IfAÖ            | 5            | 0.486842            | 0.569144                    | 0                     | 0.639028       | 16     |
| 20 | LFU SH          | 5            | 0.532374            | 0.638964                    | 270.89359             | 0.818451       | 27     |
| 21 | LUNG MVP        | 5            | 0.486842            | 0.569144                    | 0                     | 0.639028       | 16     |
| 22 | Meereszoologe   | 7            | 0.220896            | 0.239318                    | 0                     | 0.001422       | 1      |
| 23 | Mellumrat       | 5            | 0.354067            | 0.38491                     | 0                     | 0.04815        | 3      |
| 24 | Muschelfischer  | 6            | 0.286822            | 0.310135                    | 0                     | 0.010371       | 1      |
| 25 | NABU Bund       | 7            | 0.222222            | 0.248327                    | 73                    | 0.002147       | 2      |
| 26 | NABU NS         | 8            | 0.182266            | 0.198986                    | 0                     | 0.000917       | 1      |
| 27 | NABU SH         | 6            | 0.282443            | 0.316216                    | 215                   | 0.007237       | 5      |
| 28 | NL LwM          | 6            | 0.379487            | 0.415315                    | 0                     | 0.055715       | 1      |
| 29 | NL Rws          | 5            | 0.4625              | 0.528604                    | 0                     | 0.384809       | 11     |
| 30 | NLWKN           | 5            | 0.548148            | 0.664865                    | 448.5                 | 0.853532       | 31     |
| 31 | NP DK           | 5            | 0.4625              | 0.528604                    | 0                     | 0.384809       | 11     |
| 32 | NP HH           | 5            | 0.465409            | 0.53536                     | 73                    | 0.407853       | 14     |
| 33 | NP NS           | 4            | 0.544118            | 0.650901                    | 526.99359             | 0.824891       | 29     |
| 34 | NP SH           | 5            | 0.532374            | 0.638964                    | 270.89359             | 0.818741       | 27     |
| 35 | OSPAR           | 6            | 0.387435            | 0.428829                    | 0                     | 0.065152       | 4      |
| 36 | Schutzstation   | 5            | 0.379487            | 0.418243                    | 282.4                 | 0.060858       | 5      |
| 37 | Senckenberg     | 5            | 0.486842            | 0.569144                    | 0                     | 0.639028       | 16     |
| 38 | HL              | 6            | 0.420455            | 0.511036                    | 144                   | 0.262706       | 13     |
| 39 | Taucher NS      | 7            | 0.299595            | 0.338642                    | 73                    | 0.016691       | 2      |
| 40 | UBA             | 5            | 0.486842            | 0.569144                    | 0                     | 0.639028       | 16     |
| 41 | UM DK           | 5            | 0.4625              | 0.528604                    | 0                     | 0.384809       | 11     |
| 42 | UM NL           | 5            | 0.4625              | 0.528604                    | 0                     | 0.384809       | 11     |
| 43 | Uni Kiel        | 5            | 0.354067            | 0.38491                     | 0                     | 0.044936       | 1      |
| 44 | VDR             | 6            | 0.420455            | 0.515541                    | 145                   | 0.267315       | 15     |
| 45 | W               | 6            | 0.355769            | 0.390991                    | 0                     | 0.046742       | 1      |
| 46 | W               | 6            | 0.355769            | 0.390991                    | 0                     | 0.046742       | 1      |
| 47 | W               | 6            | 0.355769            | 0.390991                    | 0                     | 0.046742       | 1      |
| 48 | W               | 6            | 0.355769            | 0.390991                    | 0                     | 0.046742       | 1      |

|    |                     |   |          |          |           |          |    |
|----|---------------------|---|----------|----------|-----------|----------|----|
| 49 | W                   | 6 | 0.355769 | 0.390991 | 0         | 0.046742 | 1  |
| 50 | WWF                 | 5 | 0.4      | 0.457658 | 184.5     | 0.179214 | 7  |
| 51 | GoConsult           | 5 | 0.490066 | 0.575901 | 31.230769 | 0.643963 | 17 |
| 52 | Jotum               | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 53 | Hasytec             | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 54 | Hansetaucher        | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 55 | Baltic              | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 56 | Retzlaff            | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 57 | Fraunhofer Institut | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 58 | UB HB               | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 59 | HB HH               | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 60 | BMDV                | 6 | 0.41573  | 0.502027 | 0         | 0.261209 | 12 |
| 61 | Wasserschutzpolizei | 6 | 0.349057 | 0.380856 | 0         | 0.044408 | 1  |
| 62 | Whv Hafen           | 1 | 1        | 1        | 1         | 0.002587 | 3  |
| 63 | Wadden Sea Forum    | 2 | 0.666667 | 0.75     | 0         | 0.001045 | 1  |
| 64 | MCN                 | 2 | 0.666667 | 0.75     | 0         | 0.00209  | 2  |
| 65 | IMO                 | 7 | 0.297189 | 0.330759 | 0         | 0.032749 | 2  |
| 66 | HB Bü               | 7 | 0.261484 | 0.280985 | 0         | 0.003051 | 1  |
| 67 | LKN                 | 6 | 0.352381 | 0.389865 | 73        | 0.045206 | 2  |
| 68 | University of Tartu | 6 | 0.342593 | 0.388739 | 2.166667  | 0.083271 | 6  |
| 69 | LK Leer             | 6 | 0.355769 | 0.389414 | 0         | 0.047238 | 1  |
| 70 | BeachExplorer       | 5 | 0.373737 | 0.416441 | 2.333333  | 0.1631   | 8  |
| 71 | WattführerGemNS     | 6 | 0.352381 | 0.389865 | 73        | 0.048591 | 4  |
| 72 | Soltwaters          | 5 | 0.354067 | 0.38491  | 0         | 0.044936 | 1  |
| 73 | GDWS                | 7 | 0.278195 | 0.298552 | 0         | 0.004765 | 3  |
| 74 | ICS                 | 7 | 0.297189 | 0.330759 | 0         | 0.016375 | 1  |
| 75 | ICES                | 6 | 0.341014 | 0.381982 | 0.666667  | 0.045384 | 3  |
| 76 | W                   | 7 | 0.261484 | 0.280985 | 0         | 0.00334  | 1  |
| 77 | Mekun               | 6 | 0.349057 | 0.380856 | 0         | 0.044385 | 1  |
| 78 | JRC                 | 7 | 0.283525 | 0.307561 | 0         | 0.005135 | 1  |