**S2 Table. Genetic differentiation (*FST*) between pairs of *Fucus* populations in the Baltic Sea.**

(a) *FST* between all 14 *F. radicans* populations. (b) *FST* values between all 12 *F. vesiculosus* populations. The four unassigned populations (R, S, T, U) are included in both matrices. Bold figure indicates *FST* estimate is significant after Bonferroni correction.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **a)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | C | D1 | E1 | F1 | G | H | I | J | K | L | M | R | S | T | U | V1 | W1 |
| D1 | **0.03** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E1 | **0.06** | 0.09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F1 | **0.01** | **0.02** | **0.05** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G | **0.06** | **0.05** | **0.17** | **0.07** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H | **0.12** | **0.09** | **0.18** | **0.12** | **0.02** |  |  |  |  |  |  |  |  |  |  |  |  |
| I | 0.04 | **0.04** | **0.11** | **0.04** | **0.02** | **0.01** |  |  |  |  |  |  |  |  |  |  |  |
| J | 0.13 | **0.09** | **0.21** | **0.13** | **0.00** | 0.00 | **0.06** |  |  |  |  |  |  |  |  |  |  |
| K | **0.06** | **0.02** | **0.11** | **0.02** | 0.01 | 0.02 | **0.04** | **0.00** |  |  |  |  |  |  |  |  |  |
| L | **0.09** | **0.11** | 0.12 | **0.05** | **0.11** | 0.08 | **0.07** | 0.12 | **0.04** |  |  |  |  |  |  |  |  |
| M | **0.11** | **0.13** | **0.15** | **0.08** | **0.14** | **0.13** | 0.12 | 0.16 | **0.05** | 0.01 |  |  |  |  |  |  |  |
| R | **0.13** | **0.14** | **0.14** | **0.10** | **0.18** | **0.16** | **0.14** | **0.23** | 0.11 | **0.14** | **0.14** |  |  |  |  |  |  |
| S | **0.18** | **0.21** | **0.17** | **0.16** | **0.26** | **0.23** | **0.20** | **0.32** | **0.19** | 0.16 | 0.16 | 0.02 |  |  |  |  |  |
| T | **0.17** | **0.20** | 0.16 | **0.15** | **0.22** | **0.21** | **0.18** | 0.27 | **0.17** | **0.20** | **0.20** | 0.04 | 0.05 |  |  |  |  |
| U | **0.15** | **0.18** | 0.13 | 0.12 | **0.21** | **0.20** | **0.17** | **0.27** | 0.15 | 0.17 | **0.17** | **0.03** | **0.03** | 0.01 |  |  |  |
| V1 | **0.25** | **0.28** | **0.17** | **0.23** | **0.32** | **0.31** | **0.28** | **0.35** | **0.24** | 0.23 | **0.23** | **0.17** | **0.16** | 0.17 | **0.16** |  |  |
| W1 | **0.22** | **0.21** | **0.17** | **0.18** | **0.27** | **0.26** | **0.24** | **0.31** | 0.17 | **0.22** | **0.20** | **0.08** | **0.11** | **0.09** | **0.08** | **0.16** |  |
| X | **0.24** | **0.23** | **0.20** | **0.21** | **0.29** | **0.28** | **0.26** | **0.32** | 0.20 | **0.23** | **0.21** | **0.10** | **0.13** | **0.11** | **0.11** | **0.16** | **0.01** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **b)**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | A | B | D2 | E2 | F2 | N | O | P | Q | R | S | T | U | V2 | W2 |
| B | **0.09** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D2 | **0.13** | 0.16 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E2 | **0.11** | **0.18** | **0.11** |  |  |  |  |  |  |  |  |  |  |  |  |
| F2 | **0.12** | **0.17** | **0.18** | **0.27** |  |  |  |  |  |  |  |  |  |  |  |
| N | 0.21 | **0.28** | **0.23** | **0.25** | **0.30** |  |  |  |  |  |  |  |  |  |  |
| O | **0.11** | **0.18** | **0.18** | **0.16** | **0.17** | **0.07** |  |  |  |  |  |  |  |  |  |
| P | **0.11** | **0.14** | **0.14** | **0.15** | **0.15** | **0.08** | **0.01** |  |  |  |  |  |  |  |  |
| Q | **0.15** | **0.21** | **0.19** | **0.19** | **0.18** | **0.07** | **0.01** | **0.02** |  |  |  |  |  |  |  |
| R | **0.07** | **0.12** | **0.14** | **0.19** | **0.15** | **0.27** | **0.19** | **0.17** | **0.22** |  |  |  |  |  |  |
| S | **0.08** | **0.14** | **0.16** | **0.24** | **0.15** | **0.31** | **0.20** | **0.19** | **0.23** | **0.02** |  |  |  |  |  |
| T | **0.11** | **0.14** | **0.18** | **0.23** | **0.20** | **0.30** | **0.23** | **0.21** | **0.25** | **0.04** | **0.05** |  |  |  |  |
| U | 0.09 | **0.13** | **0.15** | **0.21** | **0.16** | **0.28** | **0.20** | **0.18** | **0.22** | **0.03** | **0.03** | **0.01** |  |  |  |
| V2 | **0.18** | **0.17** | **0.21** | **0.26** | **0.23** | **0.26** | **0.15** | **0.14** | **0.17** | **0.23** | **0.23** | **0.23** | **0.23** |  |  |
| W2 | **0.13** | 0.21 | **0.14** | **0.17** | **0.24** | **0.22** | **0.19** | **0.18** | **0.21** | **0.15** | **0.16** | **0.16** | **0.14** | **0.27** |  |
| Y | **0.06** | **0.14** | **0.17** | **0.13** | **0.21** | **0.24** | **0.16** | **0.17** | **0.22** | **0.10** | **0.14** | **0.11** | **0.11** | **0.23** | **0.09** |