

**Table S7.** Kappa values, match percentages, and levels of agreement, for the level of risk and ecological status across index combinations utilised in this research.

Indices	Kappa value	%Match	Levels of agreement
AMBI/BENTIX	0.504	71.43	Moderate
AMBI/BOPA	0.642	79.59	Good
AMBI/BPI	0.317	59.18	Low
AMBI/M-AMBI	0.31	67.35	Low
AMBI/PLI	0.014	38.78	Null
AMBI/ $PI_{Nemerow}$	0	65.31	Null
BENTIX/BOPA	0.664	83.67	Good
BENTIX/BPI	0.434	75.51	Fair
BENTIX/M-AMBI	0.343	67.35	Low
BENTIX/PLI	-0.021	59.18	Null
BENTIX/ $PI_{Nemerow}$	0	36.73	Null
BOPA/BPI	0.569	79.59	Good
BOPA/M-AMBI	0.346	67.35	Low
BOPA/PLI	0.116	59.18	Very Low
BOPA/ $PI_{Nemerow}$	0	44.9	Null
BPI/M-AMBI	0.258	63.27	Low
BPI/ PLI	0.007	71.43	Null
BPI/ $PI_{Nemerow}$	0	24.49	Null
M-AMBI/PLI	-0.078	46.94	Null
M-AMBI/ $PI_{Nemerow}$	0	48.98	Null
PLI/ $PI_{Nemerow}$	0	12.24	Null