

# Supplementary information for Marine species do not need visas: the transboundary nature of the world's exploited marine species

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## Supplementary Figures

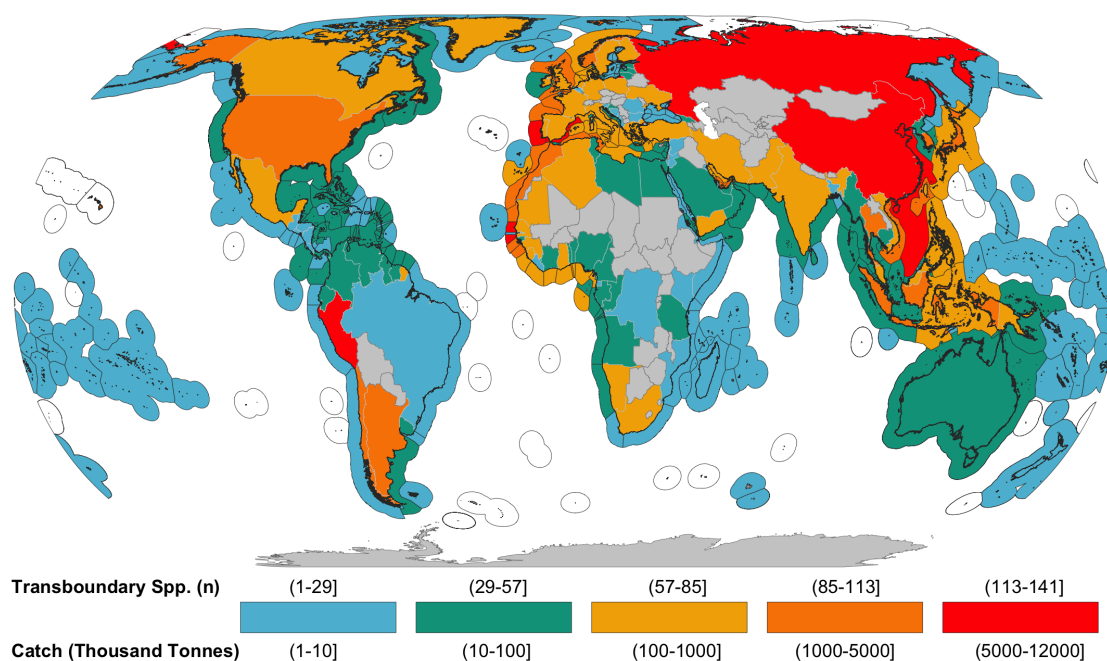


Figure 1: Number of transboundary species per EEZ and their contributions to countries' EEZ catch. The number of species is displayed in the EEZ while catch (in thousand tonnes) is displayed in the land polygon.

The number of grid cells in which a species is present (*Area Index*) is expected to directly influence whether or not a species is considered transboundary. Therefore, we tested the sensitivity of our results to the *Area Index* by estimating the number of transboundary species along a gradient of values (Supplementary Fig. S2). As expected, using a more relaxed value (e.g. the species is present within 10% or more of the EEZ) will result in a greater number of transboundary species (median of 40 EEZs shared per species), while a more restrictive value (e.g., 50%) results in a median estimate of 4. The current analysis utilized a 25% *Area Index* threshold (Supplementary Fig. S2 - darker histogram).

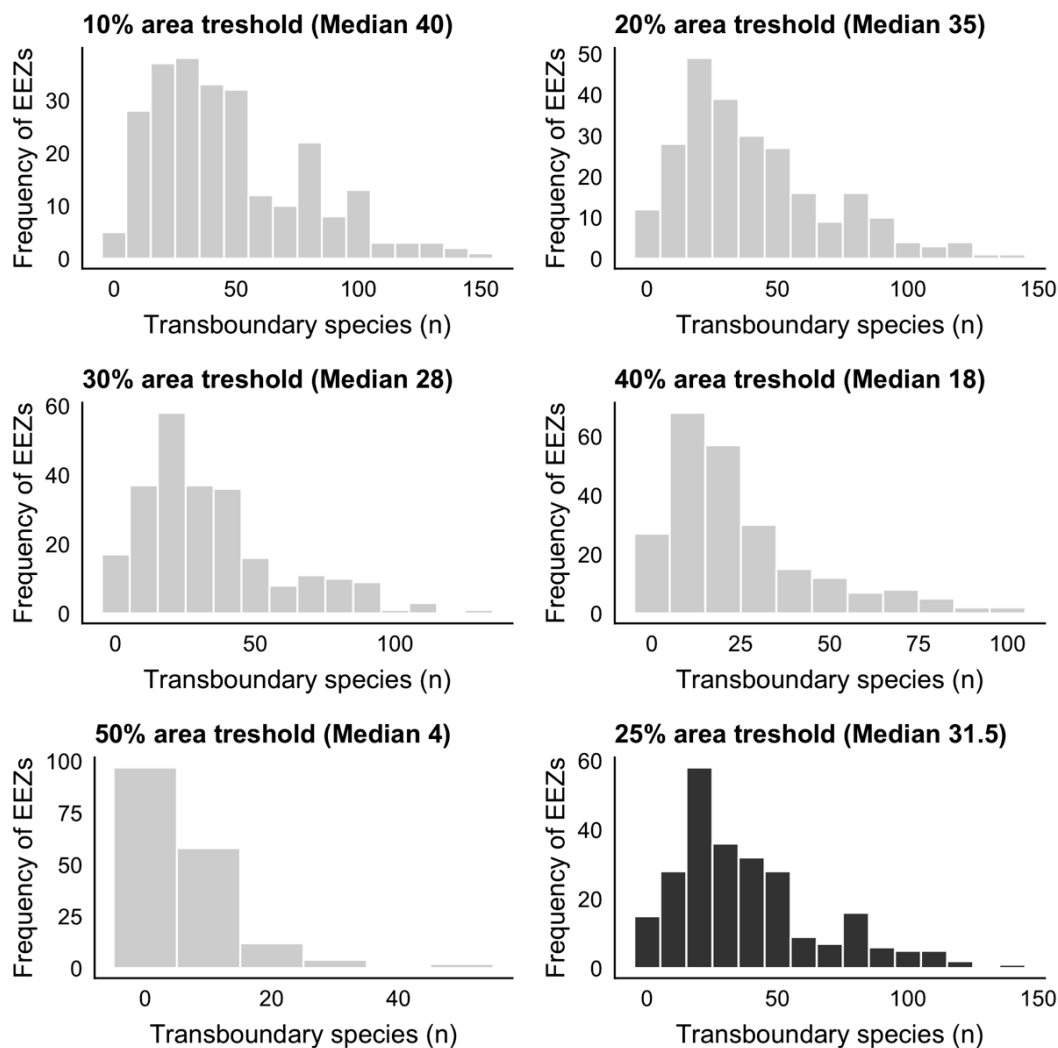


Figure 2: Histogram of number of transboundary species using different Area Index threshold values. The darker histogram represents the threshold (25%) used in the present analysis

## Supplementary Tables

Table 1: Size of all the EEZs in each sub region determined by the United Nations

UN sub region	Area of EEZs (Km <sup>2</sup> )
Australia and New Zealand	12282183
Eastern Asia	7329899
Eastern Europe	7777970
Latin America and the Caribbean	20723420
Melanesia	7525195
Micronesia	8313054
Northern Africa	1423774
Northern America	22081778
Northern Europe	6401144
Polynesia	9577373
South-eastern Asia	11098246
Southern Asia	4206953
Southern Europe	2484760
Sub-Saharan Africa	12349817
Western Asia	1744784
Western Europe	2018481

Table 2: Average  $\pm$  (standard deviation) number of shared and non-shared transboundary species per EEZ for each catch trend category

Category	Mean shared	Mean not-shared
Category A	8.19 $\pm$ (7.94)	3.95 $\pm$ (3.77)
Category B	14.16 $\pm$ (13.61)	6.86 $\pm$ (7.76)
Category C	25.12 $\pm$ (20.4)	12.45 $\pm$ (14.61)