

Taxonomic coverage of the harmonized trait datasets

Regarding the taxonomical coverage, the New Zealand dataset has, as expected, the smallest taxon pool (478 taxa, Table 1). By contrast, the largest taxon pool is spanned by the European trait dataset with 4110 taxa followed by the North American trait dataset that contained trait information on 3753 taxa. The Australian dataset contains 1402 taxa. The European, New Zealand, and North American datasets have most taxa on the highest taxonomical resolution while the Australian dataset has a similar number of taxa on species and genus-level.

Table 1: Number of taxa per harmonized database and per taxonomic level. Numbers in parenthesis show relative frequencies in percentage.

Database	Nr. of taxa	Species	Genus	Family	Nr. aquatic taxa
EU	4110	3848 (93.63)	237 (5.77)	25 (0.61)	3579 (87.08)
NOA	3753	2414 (64.32)	1163 (30.99)	176 (4.69)	3305 (88.06)
AUS	1402	564 (40.23)	578 (41.23)	260 (18.54)	1016 (72.47)
NZ	478	404 (84.52)	47 (9.83)	27 (5.65)	443 (92.68)

Completeness of trait information

The amount of entries with available information for the selected grouping features varied strongly for the European, North American, and Australian datasets (Table 2). By contrast, the New Zealand dataset contained complete trait information for most of the investigated grouping features (between 94 % and 100 %).

Table 2: Displayed is the percentage of entries that have information for the individual grouping features per dataset.

Database	Body form	Oviposition	Voltinism	Locomotion	Size	Respiration	Feeding mode
EU	7	16	24	33	11	56	65
NOA	28	13	47	52	73	44	63
AUS	5	48	51	42	78	70	99
NZ	100	94	100	99	100	100	99