

Metadata file for data presented by:

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File description: The dataset has 4437 records not including the header row and 103 fields. Missing data are indicated by the code 'NA'.

Spatial coverage: Global.

Taxonomic coverage: Class Mammalia.

Format and storage mode: UTF-8 text, comma delimited, not compressed.

Data description:

These dataset provides species-level information on dietary preferences (see Table 1 for description of all included variables). Dietary data represent three different datasets:

- (1) MammalDIET (Kissling *et al.*, 2014) is a large semi-quantitative database including observed dietary data for 2033 species. Data extrapolated from genus or family information for an additional 3331 species were not included in our analyses (and thus are not provided here). Diet is described for each species using ranked importance for each of 12 food categories: Mammal, Bird, Herptile (Reptile and Amphibian), Fish, Invertebrate, Fruit, Nectar, Leaf: woody (Woody), Leaf: herbaceous (Grass), Seed, Root, and Other. The importance of each item is ranked according to four levels (please note that we reassigned the original - Kissling *et al.*'s, absent value: 0 to 4 to generate an ordinal gradient): 1 (primary food item), 2 (secondary food item), 3 (occasional food item), and 4 (absent). Importance is also described as a binary trait: absent (original score of 0) or present (grouping original scores of 1, 2, or 3).
- (2) EltonTraits (Wilman *et al.*, 2014), describes semi-quantitative dietary information for 4352 mammalian species. Although not analysed here, EltonTraits also provides dietary data for bird species and for 1048 mammals for which diet is extrapolated from genus or family information. For each species, diet is described using ranked percentages (in 10% increments) reflecting the estimated relative usage of 10 food categories: unclassified or general vertebrates (Vert), mammal and bird (Vend), Herptile, Fish, Invertebrate, Carrion, Seed, Fruit, Nectar, and unclassified or general plant material (Plant). We also include a binary descriptor: absent (percentage =0) or present (percentage > 0).
- (3) CUFdiet is an unpublished compilation of dietary data for three families of large carnivores: Canidae, Ursidae, and Felidae (73 species). Dietary composition is described according to 12 food categories: Mammal, Bird, Herptile, Fish, Invertebrate, Fruit, Pollen, nectar and/or flower (Nectar), Leaf/branch (Woody), Grass, Seed, Root and/or tuber (Root), and Carrion. Dietary composition in CUFdiet was described using presence/absence data obtained from diverse types of evidence (e.g., direct observations, fecal samples, stomach contents) which included qualitative descriptions and quantitative estimates from the literature (the section CUFdiet references at the end includes a full list of consulted references). We defined a category as present in a species' diet if there was evidence from at least one study that the item was consumed even if infrequently. In addition, CUFdiet includes two quantitative estimates of dietary composition based on numerical frequency (proportion of the total items found per sample that belong to a given food category) and frequency of occurrence (proportion of samples that contained at least one item from a given food category). When multiple estimates

were available for a given species we recalculated the proportions considering the sample sizes for each study (weighted averages).

NOTE: we expect to make the full database (all individual records obtained from each source and used to estimate the species-level values) in a near future. Once available we will provide a link and/or upload the data here.

Table 1. Variable description and sources. References used to generate the CUFdiet database are listed in the section CUFdiet references at the end of this document.

Variable	Description	Source
Species	Scientific name of species	(Jones <i>et al.</i> , 2009)
binomial_tree	Scientific name of species as listed in the Mammalian supertree phylogeny	(Fritz <i>et al.</i> , 2009)
binomial_IUCN	Scientific name of species as listed by the IUCN	(IUCN, 2010)
Order	Taxonomic order	(Wilson & Reeder, 2005)
SMALL_ORDERS	Numerical code to identify taxonomic orders with few species which were aggregate for analyses	NA
Family	Taxonomic family	(Wilson & Reeder, 2005)
Pantheria_ID	Numerical identifier for species as listed by the trait database Pantheria	(Jones <i>et al.</i> , 2009)
Adult_body_mass_g	Average adult body mass in grams. Data from EltonTraits with additional values for Canidae, Ursidae and Felidae based on literature review	EltonTraits and CUFdiet references below
Gestation_length_days	Average duration in days of the gestation period. Data from Pantheria	(Jones <i>et al.</i> , 2009)
Home_range_size_km2	Average size of an individual home range in km2. Data from Pantheria	(Jones <i>et al.</i> , 2009)
Group_size_ind	Average group size (number of individuals). Data from Pantheria	(Jones <i>et al.</i> , 2009)
Distribution_range_area_km2	Global current native distribution range area in km2. Data from the IUCN	(IUCN, 2010)
MammalDIET	Numerical identifier for data availability: 0 no diet data in MammalDIET, 1 diet data in MammalDIET	NA
EltonTraits	Numerical identifier for data availability: 0 no diet data in EltonTraits 1 diet data in EltonTraits	NA
CUFdiet	Numerical identifier for data availability: 0 no diet data in CUFdiet 1 diet data in CUFdiet	NA
binomial_MammalDIET	Scientific name as listed in MammalDIET	MammalDIET
MD_Diet_breadth	Estimate of diet breadth from MammalDIET	MammalDIET
MD_vend	Presence (1) or absence (0) of mammals and/or birds in the diet	MammalDIET
MD_mammal	Presence (1) or absence (0) of mammals in the diet	MammalDIET
MD_bird	Presence (1) or absence (0) of birds in the diet	MammalDIET
MD_herptile	Presence (1) or absence (0) of reptiles and/or amphibians in the diet	MammalDIET
MD_fish	Presence (1) or absence (0) of fish in the diet	MammalDIET
MD_invertebrate	Presence (1) or absence (0) of invertebrates in the diet	MammalDIET
MD_seed	Presence (1) or absence (0) of seed in the diet	MammalDIET
MD_fruit	Presence (1) or absence (0) of fruit in the diet	MammalDIET
MD_nectar	Presence (1) or absence (0) of nectar in the diet	MammalDIET
MD_root	Presence (1) or absence (0) of root in the diet	MammalDIET
MD_woody	Presence (1) or absence (0) of woody materials in the diet	MammalDIET
MD_grass	Presence (1) or absence (0) of grass/herbaceous materials in the diet	MammalDIET
MD_other	Presence (1) or absence (0) of other unclassified elements in the diet	MammalDIET

Variable	Description	Source
MD_Mammal_quant	Ranked presence (from 1 abundant to 4 absent) of mammals in the diet	MammalDIET
MD_Bird_quant	Ranked presence (from 1 abundant to 4 absent) of birds in the diet	MammalDIET
MD_Herptile_quant	Ranked presence (from 1 abundant to 4 absent) of reptiles and/or amphibians in the diet	MammalDIET
MD_Fish_quant	Ranked presence (from 1 abundant to 4 absent) of fish in the diet	MammalDIET
MD_Invertebrate_quant	Ranked presence (from 1 abundant to 4 absent) of invertebrates in the diet	MammalDIET
MD_Seed_quant	Ranked presence (from 1 abundant to 4 absent) of seed in the diet	MammalDIET
MD_Fruit_quant	Ranked presence (from 1 abundant to 4 absent) of fruit in the diet	MammalDIET
MD_Nectar_quant	Ranked presence (from 1 abundant to 4 absent) of nectar in the diet	MammalDIET
MD_Root_quant	Ranked presence (from 1 abundant to 4 absent) of root in the diet	MammalDIET
MD_Woody_quant	Ranked presence (from 1 abundant to 4 absent) of woody materials in the diet	MammalDIET
MD_Grass_quant	Ranked presence (from 1 abundant to 4 absent) of grass/herbaceous materials in the diet	MammalDIET
MD_Other_quant	Ranked presence (from 1 abundant to 4 absent) of other unclassified elements in the diet	MammalDIET
binomial_EltonTraits	Scientific name as listed in EltonTraits	EltonTraits
ET_Diet_breadth	Estimate of diet breadth from MammalDIET	EltonTraits
ET_Levins_stand	Estimate of Levin's standardized index of diet diversity from EltonTraits	EltonTraits
ET_vert_unclassified	Presence (1) or absence (0) of unclassified vertebrates in the diet	EltonTraits
ET_vend	Presence (1) or absence (0) of mammals and/or birds in the diet	EltonTraits
ET_herptile	Presence (1) or absence (0) of reptiles and/or amphibians in the diet	EltonTraits
ET_fish	Presence (1) or absence (0) of fish in the diet	EltonTraits
ET_invertebrate	Presence (1) or absence (0) of invertebrates in the diet	EltonTraits
ET_seed	Presence (1) or absence (0) of seed in the diet	EltonTraits
ET_fruit	Presence (1) or absence (0) of fruit in the diet	EltonTraits
ET_nectar	Presence (1) or absence (0) of nectar in the diet	EltonTraits
ET_plant_unclassified	Presence (1) or absence (0) of unclassified plant material in the diet	EltonTraits
ET_carrion	Presence (1) or absence (0) of carrion in the diet	EltonTraits
ET_Vert_uncl_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of unclassified vertebrates in the diet	EltonTraits
ET_Vend_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of mammals and/or birds in the diet	EltonTraits
ET_Herptile_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of reptiles and/or amphibians in the diet	EltonTraits
ET_Fish_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of fish in the diet	EltonTraits
ET_Invertebrate_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of invertebrates in the diet	EltonTraits
ET_Fruit_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of seed in the diet	EltonTraits
ET_Nectar_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of fruit in the diet	EltonTraits
ET_Seed_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of nectar in the diet	EltonTraits
ET_Plant_unc_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of unclassified plant material in the diet	EltonTraits
ET_Carrion_quant	Semiquantitative presence (from 0 to 100 in 10% intervals) of carrion in the diet	EltonTraits
binomial_CUFdiet	Scientific name as listed in CUFdiet	CUFdiet
CUF_Levins_stand	Estimate of Levin's standardized index of diet diversity from CUFdiet based on numerical frequency data	CUFdiet
CUF_Diet_breadth	Estimate of diet breadth from CUFdiet	CUFdiet
CUF_vend	Presence (1) or absence (0) of mammals and/or birds in the diet	CUFdiet
CUF_mammal	Presence (1) or absence (0) of mammals in the diet	CUFdiet

Variable	Description	Source
CUF_bird	Presence (1) or absence (0) of birds in the diet	CUFdiet
CUF_herptile	Presence (1) or absence (0) of reptiles and/or amphibians in the diet	CUFdiet
CUF_fish	Presence (1) or absence (0) of fish in the diet	CUFdiet
CUF_invertebrate	Presence (1) or absence (0) of invertebrates in the diet	CUFdiet
CUF_fruit	Presence (1) or absence (0) of fruit in the diet	CUFdiet
CUF_nectar	Presence (1) or absence (0) of nectar in the diet	CUFdiet
CUF_woody	Presence (1) or absence (0) of woody materials in the diet	CUFdiet
CUF_seed	Presence (1) or absence (0) of seed in the diet	CUFdiet
CUF_grass	Presence (1) or absence (0) of grass/herbaceous materials in the diet	CUFdiet
CUF_root	Presence (1) or absence (0) of root in the diet	CUFdiet
CUF_carrion	Presence (1) or absence (0) of carrion in the diet	CUFdiet
CUF_Vend_num_freq	Numerical frequency estimates (0 to 1) of mammals and/or birds in the diet	CUFdiet
CUF_Mammal_num_freq	Numerical frequency estimates (0 to 1) of mammals in the diet	CUFdiet
CUF_Bird_num_freq	Numerical frequency estimates (0 to 1) of birds in the diet	CUFdiet
CUF_Herptile_num_freq	Numerical frequency estimates (0 to 1) of reptiles and/or amphibians in the diet	CUFdiet
CUF_Fish_num_freq	Numerical frequency estimates (0 to 1) of fish in the diet	CUFdiet
CUF_Invertebrate_num_freq	Numerical frequency estimates (0 to 1) of invertebrates in the diet	CUFdiet
CUF_Fruit_num_freq	Numerical frequency estimates (0 to 1) of fruit in the diet	CUFdiet
CUF_Nectar_num_freq	Numerical frequency estimates (0 to 1) of nectar in the diet	CUFdiet
CUF_Woody_num_freq	Numerical frequency estimates (0 to 1) of woody materials in the diet	CUFdiet
CUF_Seed_num_freq	Numerical frequency estimates (0 to 1) of seed in the diet	CUFdiet
CUF_Grass_num_freq	Numerical frequency estimates (0 to 1) of grass/herbaceous materials in the diet	CUFdiet
CUF_Carrion_num_freq	Numerical frequency estimates (0 to 1) of carrion in the diet	CUFdiet
CUF_Mammal_freq_occu	Frequency of occurrence estimates (0 to 1) of mammals in the diet	CUFdiet
CUF_Bird_freq_occu	Frequency of occurrence estimates (0 to 1) of birds in the diet	CUFdiet
CUF_Herptile_freq_occu	Frequency of occurrence estimates (0 to 1) of reptiles and/or amphibians in the diet	CUFdiet
CUF_Fish_freq_occu	Frequency of occurrence estimates (0 to 1) of fish in the diet	CUFdiet
CUF_Invertebrate_freq_occu	Frequency of occurrence estimates (0 to 1) of invertebrates in the diet	CUFdiet
CUF_Fruit_freq_occu	Frequency of occurrence estimates (0 to 1) of fruit in the diet	CUFdiet
CUF_Woody_freq_occu	Frequency of occurrence estimates (0 to 1) of woody materials in the diet	CUFdiet
CUF_Seed_freq_occu	Frequency of occurrence estimates (0 to 1) of seed in the diet	CUFdiet
CUF_Grass_freq_occu	Frequency of occurrence estimates (0 to 1) of grass/herbaceous materials in the diet	CUFdiet
CUF_Carrion_freq_occu	Frequency of occurrence estimates (0 to 1) of carrion in the diet	CUFdiet

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