



Metadata

PanTHERIA

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General information

name of the dataset:

full name of the dataset: *PanTHERIA*

dataset short name: *PanTHERIA*

type of dataset ([more information](#)): *biological or ecological traits/information database*

data type: *descriptive data*

short description of the dataset/summary:

Data from the paper: Jones, Kate E., Jon Bielby, Marcel Cardillo, Susanne A. Fritz, Justin O'Dell, C. David L. Orme, Kamran Safi, Wes Sechrest, Elizabeth H. Boakes, Chris Carbone, Christina Connolly, Michael J. Cutts, Janine K. Foster, Richard Grenyer, Michael Habib, Christopher A. Plaster, Samantha A. Price, Elizabeth A. Rigby, Janna Rist, Amber Teacher, Olaf R. P. Bininda-Emonds, John L. Gittleman, Georgina M. Mace, Andy Purvis, and W. K. Michener. 2009. PanTHERIA: a species-level database of life history, ecology, and geography of extant and recently extinct mammals.

Ecology

90:2648-2668. doi:10.1890/08-1494.1]

Paper abstract: Analyses of life-history, ecological, and geographic trait differences among species, their causes, correlates, and likely consequences are increasingly important for understanding and conserving biodiversity in the face of rapid global change. Assembling multispecies trait data from diverse literature sources into a single comprehensive data set requires detailed consideration of methods to reliably compile data for particular species, and to derive single estimates from multiple sources based on different techniques and definitions. Here we describe PanTHERIA, a species-level data set compiled for analysis of life history, ecology, and geography of all known extant and recently extinct mammals. PanTHERIA is derived from a database capable of holding multiple geo-referenced values for variables within a species containing 100740 lines of biological data for extant and recently extinct mammalian species, collected over a period of three years by 20 individuals. PanTHERIA also includes spatial databases of mammalian geographic ranges and global climatic and anthropogenic variables. Here we detail how the data fields are extracted and defined for PanTHERIA using a customized data input format (MammalForm); how data were collected from the literature, species names and sources tracked, error-checking and validation procedures applied, and how data were consolidated into species-level values for each variable. Tables of the consolidated species-level values are made

available for each of two recent species-level taxonomic classifications of mammals, as well as associated taxonomic synonymy conversion and data-input files. This study provides a useful guide to prospective researchers on how to structure and codify life-history, ecological, geographic, and taxonomic data and methods to extract meaningful species-level traits. It also provides comprehensive information on traits like size, diet, environmental conditions, and ecology to permit macroecological and macroevolutionary analyses of this important clade.

*Read More: <http://www.esajournals.org/doi/abs/10.1890/08-1494.1#aff1>
Data available at: <http://esapubs.org/archive/ecol/E090/184/default.htm>
Related data at: <http://www.utheria.org/>*

*Info on metadata:
<http://www.esapubs.org/Archive/ecol/E090/184/metadata.htm>*

science keywords according to [GCMD](#):

topic: *Biosphere*

keywords: *Mammals, life-history, ecological traits, geographic traits*

ISO topic category according to [ISO 19115](#):

Biota

Technical and administrative specifications

data format: *txt*
operating system: *all operating systems*
data language: *English*
current access level: *web (public)*
web address (URL): *http://esapubs.org/archive/ecol/E090/184/default.htm*
others/details: *Also see: http://www.utheria.org/*
comments: *info not available*
update level: *completed*
others/details: *Updated version at http://www.utheria.org/ ?*

documentation:
type: *scientific paper*
language: *English*

Do you plan to publish the data on the Freshwater Biodiversity data portal:

media for data delivery: *online internet (HTTP)*
web address: *http://esapubs.org/archive/ecol/E090/184/default.htm*

contact details:

metadata contact person:
first, last name: *Kate Jones*
email: *kate.jones@ioz.ac.uk*

technical contact person:
scientific contact person:
first, last name: *Kate Jones*
email: *kate.jones@ioz.ac.uk*

comments: *[This entry is currently filled by the BioFresh team by reading the paper and needs to be validated by one of the data holders]*

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact email: *kate.jones@ioz.ac.uk*

data contributors to/owners of this dataset:

single

criteria for using the data in a publication/scientific analysis:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but must be acknowledged and cited correctly.

citation of this dataset:

author(s): *Jones et al. (see full citation details in database related references)*

title: *PanTHERIA: a species-level database of life history, ecology, and geography of existant and recently extinct mammals*

year: *2009*

citation of the metadata:

General data specifications

regional coverage of the dataset:

scale of the dataset: *global*

available distribution data:

comments:

This dataset covers all exsitant and recently extinct mammals, not only freshwater ones.

Biological data

biological data origin:

specify method:	<i>general compilation</i>
	<i>literature and collections</i>
organism group addressed:	<i>mammals</i>

Species related information

mammals:

taxonomic resolution: *species*

taxonomic coding:

taxalist according to: *Wilson and Reeder 1993, 2005*

full reference: *see info on <http://www.esapubs.org/Archive/ecol/E090/184/metadata.htm>*

availability of specific ecological/biological information:

dispersal capacity, temperature preferences, life history characteristics

Other specifications

quality control procedures:

Were any quality control procedures applied to your dataset?

yes

quality control protocols and comments:

<http://www.esapubs.org/Archive/ecol/E090/184/metadata.htm>