General information

name of the dataset: PanTHERIA
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:


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 database 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
Dataset: PanTHERIA

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:
    first, last name: Kate Jones
    email: kate.jones@ioz.ac.uk

  scientific contact person:
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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]
Dataset: PanTHERIA

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:**

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**General data specifications**

**regional coverage of the dataset:**
- scale of the dataset: *global*

**available distribution data:**

**comments:**

*This dataset covers all extant and recently extinct mammals, not only freshwater ones.*
## Biological data

**biological data origin:**

- General compilation
- Literature and collections

**organism group addressed:**

- Mammals
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
Dataset: PanTHERIA

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