

Description of uploaded files

R scripts

These scripts are named in the order in which they were used; *Baur_MRA_functions* and *modified_BESTmcmc* should be placed in the working directory since they will be called upon by the other scripts.

01_SSD_indices – Calculating indices of sexual size dimorphism

02_FL_pairwise_comparisons – Testing intra and interspecific differences in forearm length

03_IS_pairwise_comparisons_compCases – Testing intra and interspecific differences in overall skull size

04_IS_pairwise_comparisons_imputedData – Testing intra and interspecific differences in overall skull size using multiple imputation to complete the dataset

Baur_MRA_functions – Functions needed to calculate isometric size axes for the cranial measurements

modified_BESTmcmc – Modified implementation of the BEST::BESTmcmc function that returns results in such a way that multiple runs can be pooled

CSV files

cranialF – Linear measurement data for nine cranial characters from 202 specimens

finalFLdataset – Forearm length measurement data for 860 specimens

csvCols – Description of all the variables in the cranial and forearm length datasets; also available in the table below.

Variables in the data tables

cranialF.csv – Cranial measurements (all measurements in millimeters)	
column	description
cat	collection catalog number, unique identifier. The prefix “MZFC” (museum initials) and leading zeros were stripped for ease of use.
BRH	Braincase height
MZB	maximum zygomatic breadth
POW	Postorbital width
Mast	Mastoid width
CC	Width across the upper canines
LMT	Length of the maxillary tooth row
BL	Bullae length
CBL	Condylbasal length
MSF	Width of the mesopterygoid fossa
sp	species
collector	project catalog number
sex	male or female
locality	locality name
finalFLdataset.csv – Forearm lengths	
cat	collection catalog number, unique identifier. The prefix “MZFC” (museum initials) and leading zeros were stripped for ease of use.
collector	project catalog number
species	species
sex	male or female
state	state
locality	locality name
longitude	longitude in decimal degrees
latitude	latitude in decimal degrees
elevation	elevation in meters above sea level
FL	forearm length in millimeters