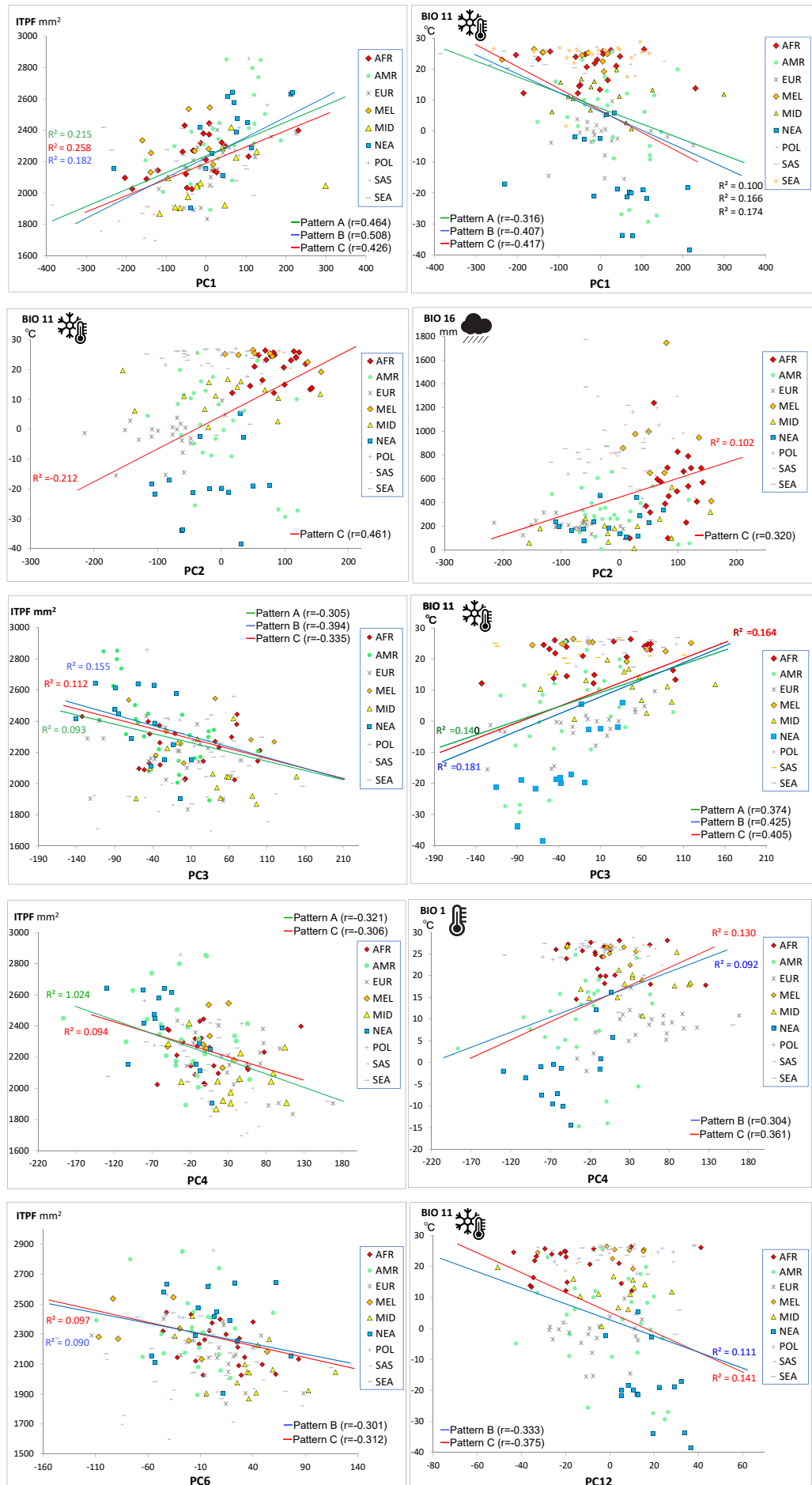


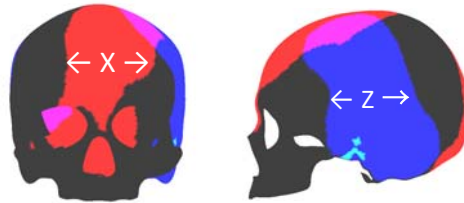


Supplementary Figure S1. The regression lines in scatter plots by 150 ethnic group averages between the highest correlated pair of PC scores and bioclimate (BIO) and/or mastication variables (ITPF) in Table 3. The correlation coefficients and lines are adopted from those generated from 405 individual data set.

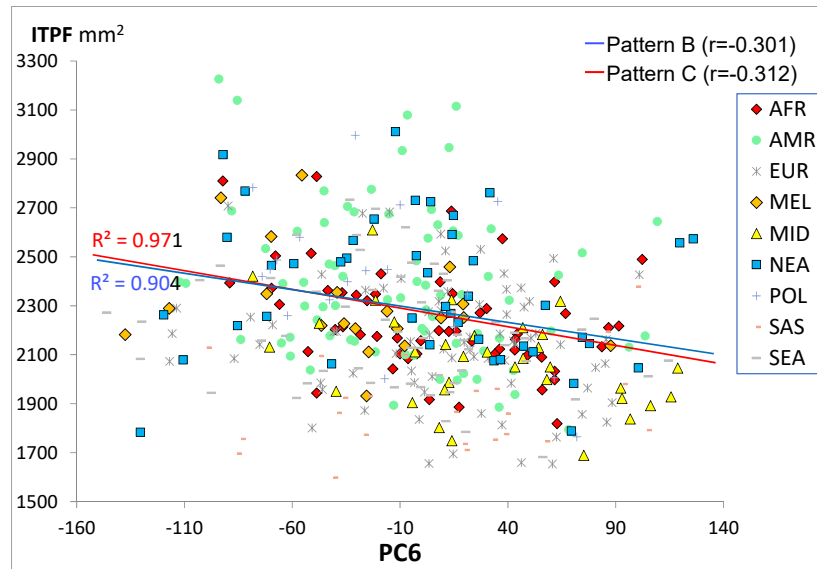
Larger infratemporal fossa
Narrower forehead

Smaller infratemporal fossa

- Broader forehead
- Sagittally shorter temporal region
- Inclined orbital openings



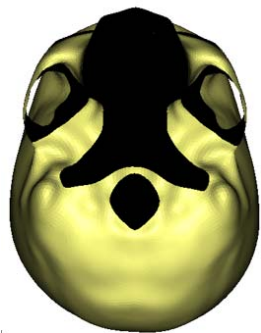
Surface Area with Correlation > 0.30



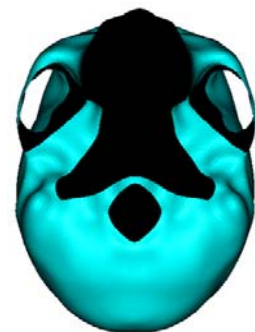
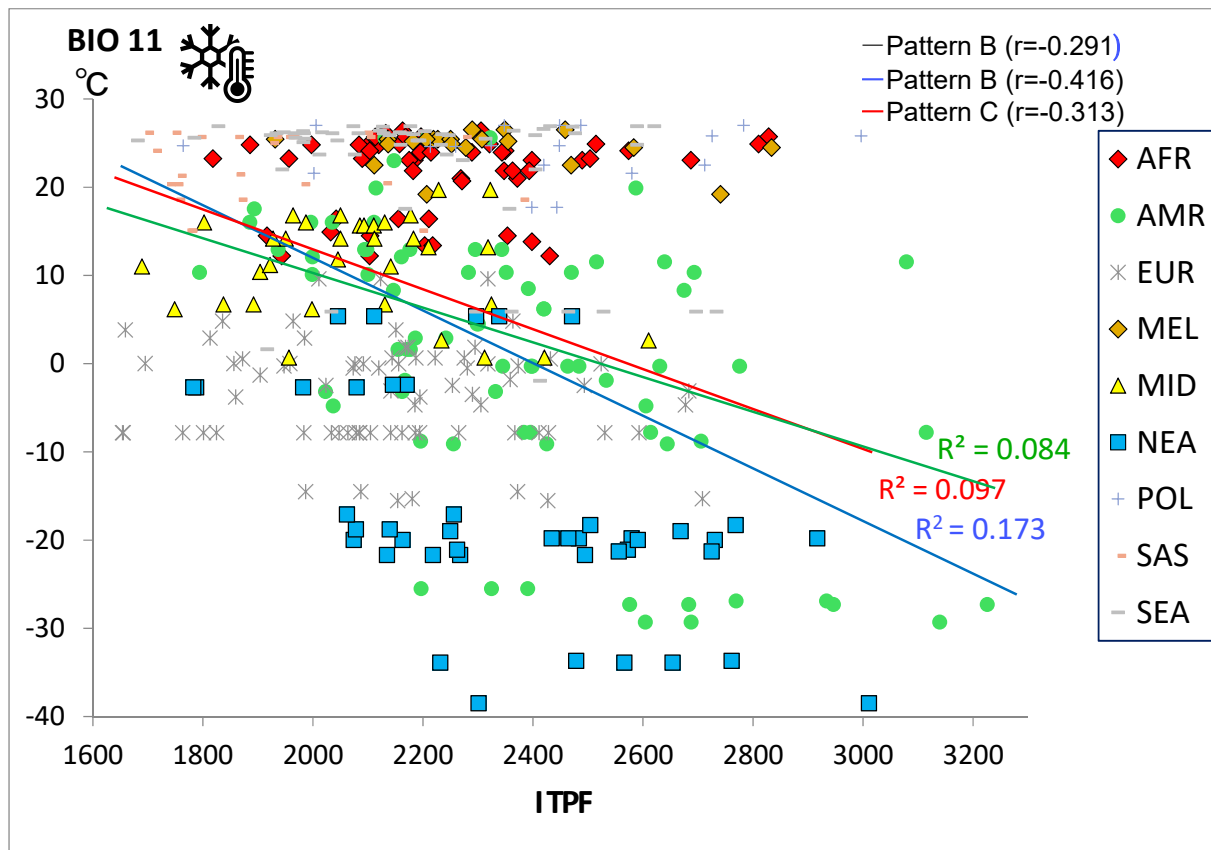
-3SD

+3SD

Supplementary Figure S2. The regression lines between PC6 scores and masticatory variables: the area of infratemporal fossa (ITPF). The color map of cranial surface at the top of graph indicates highly correlating vertices with PC6. Virtual shapes with PC6 scores of ± 3 SD are also shown. The scale is given as a green colored sphere of 50 mm in diameter. Abbreviations: see Tables 1 and 2.



-3SD



+3SD

Supplementary Figure S3. The regression slopes in scatter plots by individuals between bioclimate (BIO11) and mastication (ITPF) variables in Supplementary Table S6. Abbreviations: see Tables 1 and 2.