

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Table of independent cementum increment counts for data analysed by three observers.

File Name: Supplementary Data 2

Description: Table of *Morganucodon* and *Kuhneotherium* specimens with cementum increment counts, with fissure of origin and element details.

File Name: Supplementary Data 3

Description: Table of physiological data for extant taxa plus literature source references.