Supplementary information

"Fossil evidence for an ancient divergence of lorises and galagos"

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Section 1. Descriptions, measurements, and hypodigms of *Karanisia clarki* and *Saharagalago misrensis* specimens

Karanisia clarki

Upper dentition. Only upper third and fourth premolars can be confidently attributed to *K. clarki*. Both are simple teeth, with no metacone or hypocone; the P^4 protocone is well-developed but that of P^3 is relatively reduced. Buccal and lingual cingula and a small parastyle are evident on P^4, but these features are not clearly developed on P^3 (the sole specimen representing this locus is, however, quite eroded, and depositional processes may have obscured these details).

M^{1-3} evidently decrease in size posteriorly if our identifications to locus are correct. The most distinctive features of the upper molars are the well-developed buccal and lingual cingula and the large hypocone lobe that protrudes from the distolingual aspect of the tooth; it is delimited buccally by a moderately deep concavity in the distal wall of the tooth, but it is not distended lingually far beyond the position of the protocone. Hypocones are very small on all upper molars and are placed only slightly lingual to the position of the protocone. The preprotocristae are confluent with small paraconules, and there is no development of hypoparacristae; the postprotocrista is trenchant on all upper molars and there is no development of a metaconule or pre- and post-metaconule cristae. Cusps are essentially crestiform with very little basal inflation.

Lower dentition. P_4 is unicuspid, and has continuous buccal and lingual cingula, a poorly developed talonid basin, and no trenchant cristid obliqua. The lower molars increase in length posteriorly. The metaconid on M_1 is shifted quite far distally with respect to the protoconid, and a weak premetacristid descends from its apex. On the type specimen tiny paraconids are evident on M_{1-3}, but on other specimens these cusps are either not developed or obscured by wear. Cingulids surround the entire buccal aspect of each lower molar, and ascend the distal aspect of the tooth to form a distobuccal cingulid. The oblique cristids meet the posterior trigonid wall lingual to the protoconids on all lower molars. On M_2, the entoconid is placed directly transverse to the hypoconid. There is quite a large hypoconulid lobe on M_3, and no cuspidate entoconid.

Karanisia clarki hypodigm: CGM 40249A (M_2), CGM 40255G (M^2), CGM 40255H (M^2), CGM 40265 (lower mandible with M_{1-3}), DPC 21214E (P^4), DPC 21249 (lower mandible with P_4 and M_2) DPC 21365C (M^3), DPC 21371B (P^3), DPC 21487B (lower canine), DPC 21636E (M^2), DPC 21639C (M^1), as well as uncatalogued specimens housed in the Egyptian Geological Museum.

Metric data for figured specimens of *Karanisia clarki*			
Locus	Specimen number	Mesiodistal length	Buccolingual width
Lower canine	DPC 21487B	0.75	1.3
M_1	CGM 40265	2.95	2.0 (Tri), 2.1 (Tal)
M_2	CGM 40265	2.9	2.1 (Tri), 2.2 (Tal)
M_3	CGM 40265	3.5	2.0 (Tri), 1.95 (Tal)
P^3	DPC 21371B	2.2	2.45
P^4	DPC 21214E	2.3	2.8
M^1	DPC 21639C	2.9	3.3
M^2	DPC 21636E	2.6	3.2
M^3	DPC 21365C	2.3	3.1

Means and standard deviations for specimens included in hypodigm of *Karanisia clarki*		
Locus	Mesiodistal length (st. dev.)	Buccolingual width (st. dev.)
M_1	2.92 (0.05)	1.92 (Tri) (0.06), 2.1 (Tal) (0.06)
M_2	2.8 (0.1)	2.05 (Tri) (0.05), 2.12 (Tal) (0.1)
M_3	3.5	2.0 (Tri), 1.95 (Tal)
P^3	2.2	2.45
P^4	2.3	2.78 (0.04)
M^1	2.83 (0.07)	3.35 (0.13)
M^2	2.57 (0.05)	3.17 (0.09)
M^3	2.3	3.1

Saharagalago misrensis

Lower molar. The single known lower molar of *S. misrensis* is very similar to the M_1 of *Karanisia clarki* – the metaconid is shifted far distally relative to the protoconid, a premetacristid descends from its apex, and there is a continuous cingulid surrounding the buccal aspect of the tooth. There is no paraconid, and the paracristid is oriented almost directly mesially but is recurved at its most mesial extent. The cristid obliqua meets the posterior trigonid wall at approximately the same point as does the same crest in *Karanisia clarki*.

Upper molar. As noted in the main text, the upper molar of *S. misrensis* exhibits a number of striking galagid synapomorphies – e.g., a deeply indented distal crown margin, a continuous prehypocrista, a long and buccally oriented postmetacrista, flaring of the molar wall buccal to the metacone, and no buccal or lingual cingula.

***Saharagalago misrensis* dental metrics**			
Locus	Specimen number	Mesiodistal length	Buccolingual width
M_1	DPC 21214B	2.35	1.6
M^1 or ^{2}	DPC 21487B	2.15	2.65

Section 2. Character descriptions and matrix

Character descriptions

Key to character references:
"D": Dagosto et al. (1999) Ann. Carnegie Mus. 68, 175-211
"R": Ross et al. (1998), J. Hum. Evol. 35, 221-306
"Y": Yoder (1994), Am. J. Phys. Anthropol. 94, 25-46
"YIP": Yoder et al. (2001) Syst. Biol. 50, 408-424
"MB": Masters & Brothers, Am. J. Phys. Anthropol. 117, 79-93.
Many scorings for cranial characters are derived from Tables 2-5 in C.F. Ross & H.H. Covert (2000), J. Hum. Evol. 39, 225-251.

"N"= missing data; "-"= inapplicable; polymorphisms in brackets ({01} indicates that states 0 and 1 occur within that taxon)

1-1140: cytochrome *b*
1141-2079: IRBP
2080-2358: morphological features
2359: continental biogeography

ordered characters: 2080, 2083, 2086, 2087, 2089 – 2091, 2095, 2096, 2100, 2107, 2110, 2117, 2118, 2121, 2124, 2125, 2127, 2128, 2131, 2132, 2134 – 2140, 2144, 2145, 2150, 2151, 2154, 2155, 2158 – 2161, 2164, 2167, 2169 – 2171, 2174 – 2178, 2183, 2184, 2189, 2190, 2193, 2194, 2196, 2198, 2200 – 2203, 2206, 2207, 2210 – 2214, 2218, 2223, 2224, 2229 – 2231, 2236, 2237, 2239 – 2240, 2253, 2254, 2257, 2258, 2261, 2268, 2269, 2278, 2284, 2287, 2291, 2293, 2294, 2308, 2321, 2328, 2342, 2343, 2347, 2352

2080. Lower incisor number (Y46,Ri1-1,modified):
0. three
1. two
2. one
3. none

2081. Lower incisor occlusal arrangement (Ri2-2):
0. arcuate battery in occlusal arrangement (U-shaped arcade)
1. cusp tips staggered (V-shaped arcade)

2082. Toothcomb (Y42,Ri13-13,modified):
0. lower canine is not incorporated into a toothcomb
1. lower canine is incorporated into a toothcomb

2083. i1:i2 proportions (Ri6-6):
0. i1 much smaller than i2 (<0.65)
1. i1 smaller than i2 (=>0.65, <0.82)
2. i1 almost as large as i2 (=>0.83, <1.00)
3. i1 larger than i2 (=>1.01,<1.25)
4. i1 much larger than i2 (=>1.25)

2084. i2 cross-sectional shape (ratio of mesiodistal length to buccolingual breadth) (Ri8-8):
0. rounded oval (=>0.64)
1. mesiodistally compressed (=<0.64)

2085. Lower incisor crown height (Ri9-9):

0. low-crowned
1. moderately high-crowned
2. high-crowned

2086. Lower incisor root orientation (Ri11-11):
0. erect or vertical
1. slightly procumbent
2. very procumbent

2087. Incisor crown orientation (Ri12-12):
0. erect or vertical
1. procumbent
2. very procumbent

2088. Lower incisor crown shape (Ri14-14):
0. spatulate
1. pointed or lanceolate

2089. Lower first incisor lingual cingulum (Ri17-17):
0. absent to weak
1. strong but incomplete
2. strong and complete

2090. Female C/c area (relative to molars) (Rc1-19):
0. very small (c1/m1<0.40)
1. moderate (=>0.4,<0.8)
2. large (=>0.8, <=1.2)
3. very large (=>1.2)

2091. C/c dimorphism (square root male c1 area/square root female c1 area) (Rc2-20):
0. low (<1.07)
1. moderate (>=1.07,<1.17)
2. high (>=1.17)

2092. lower canine cross-sectional shape (Rc3-21):
0. rounded oval
1. mesiodistally compressed
2. buccolingually compressed

2093. Canine paracristid (Rc5-23, modified):
0. oblique to occlusal plane
1. nearly horizontal to occlusal plane
2. forms part of cropping mechanism with i1-2
3. is oriented in line with buccal face of adjacent incisor

2094. Lower canine height (females) (Rc6-24):
0. low, squat
1. narrow, short
2. tall, at or above toothrow
3. high-crowned but very procumbent

2095. Lower premolar number (Y48,Rp1/2-25/26):
0. four
1. three
2. two
3. one

4. none

2096. p2 protoconid height and shape (Rp13-34):
0. extremely short, shorter than p3
1. not projecting, in line with p3
2. slender, projects above protoconids of p3-4
3. massive, projects above protoconids of p3-4

2097. p2 roots (Rp3-27):
0. one
1. two

2098. p3 paraconid (Rp6-30, modified):
0. negligible or absent
1. present

2099. p3 lingual cingulum:
0. present
1. absent

2100. p3 metaconid (contains information similar to that in Rp16-37):
0. absent
1. present

2101. p3 length/sexual dimorphism (contains information similar to Rp41 and Rp42):
0. p3 shorter than or equal in length to p4
1. p3 distinctly longer and taller than p4 in males

2102. p3 roots (Rp4-28, in part):
0. one
1. two
2. three

2103. p3 root orientation (contains information similar to Rp45-62):
0. mesial root placed directly mesial to distal root
1. mesial root placed lateral to distal root

2104. p3 hypoconid (Rp25-46, in part):
0. very small, absent, or incorporated into talonid as an indistinct cusp
1. large and well-defined, projects above other talonid cusps

2105. p3 shape:
0. protoconid upright, mesial aspect of tooth does not protrude far beyond the alveolar bone mesial to mesial root
1. protoconid mesially procumbent, mesial aspect of tooth protrudes far beyond the alveolar bone mesial to mesial root

2106. p3 entoconid and lingual talonid crest (Rp19-40):
0. absent
1. lingual talonid crest present but an entoconid does not stand out above it
2. entoconid is a small discrete cusp

2107. p4 metaconid size (Rp17-38):

0. absent or trace
1. small
2. large

2108. Mesiodistal position of p4 metaconid with respect to protoconid:
0. distal
1. transverse

2109. p4 paraconid (Rp7-31, modified):
0. present
1. very small or absent

2110. p4 protocristid morphology (contains information similar to Rp21):
0. no development of a trenchant horizontal protocristid
1. metaconid well-separated from protoconid, trenchant protocristid present
2. metaconid and protoconid bases widely separated, trenchant protocristid present

2111. p4 premetacristid (Rp18):
0. premetacristid absent or poorly developed
1. premetacristid present

2112. p4 lateral protocristid orientation (Rp23-44):
0. transversely oriented
1. distolingually oriented

2113. p4 postprotoconid ridge (Rp36-55):
0. weak or absent
1. moderate
2. very strong

2114. p4 postmetaconid ridge (or, if no metaconid present, medial protocristid) crest development (contains information similar to Rp37-56):
0. weak or absent
1. moderate
2. very strong

2115. p4 entoconid and lingual talonid crest (Rp20-41):
0. absent or a trace
1. lingual talonid crest present but an entoconid does not stand out above it
2. entoconid is a small discrete cusp

2116. Height of p4 talonid:
0. no aspect of the talonid is at level of m1 trigonid basin
1. hypoconid extends to level of m1 trigonid basin
2. entire talonid basin extends to level of m1 trigonid basin

2117. p4 talonid length (ratio of midline md length of trigonid to md length of talonid) (Rp31-52):
0. tri:tal=>1.61
1. =>1.27, <1.61
2. =>0.92, <1.27
3. <0.91

2118. Morphology of p4 talonid (contains information similar to that in Rp11 and Rp26):
0. talonid basin poorly defined, hypoconid is indistinct or poorly differentiated from distal cingular structures
1. hypoconid present, talonid basin is buccolingually narrow and situated lingually
2. hypoconid present and buccally placed; talonid is buccolingually broad

2119. p4 hypocristid shearing development (Rp27-48):
0. absent
1. weak
2. strong

2120. p4 cristid obliqua:
0. absent or indistinct
1. present, meets trigonid distal to protoconid
2. present, meets trigonid between metaconid and protoconid
3. present, meets trigonid distal to metaconid

2121. Lower premolar crowding (Rp5-29):
0. no crowding
1. slightly crowded
2. very crowded

2122. Buccal cingulum on p4:
0. absent or indistinct
1. present and distinct

2123. p4 lingual cingulum:
0. absent or discontinuous
1. present

2124. m1 paraconid (contains information similar to Rm20-81):
0. absent or crestiform
1. present, small
2. present, large

2125. m1 length/width (Rm55-111):
0. 1.0-1.15
1. 1.16-1.22
2. 1.23-1.32
3. >1.33

2126. m1 metaconid position (Rm19-80):
0. transverse to protoconid
1. slightly distal to protoconid

2127. m1 cristid obliqua orientation (Rm32-93):
0. reaches trigonid wall at a point distal to protoconid
1. reaches trigonid wall at a point distolingual to protoconid
2. reaches trigonid wall at a point distal to metaconid

2128. m2 cristid obliqua orientation (Rm33-94):
0. reaches trigonid wall at a point distal to protoconid
1. reaches trigonid wall at a point distolingual to protoconid

2. reaches trigonid wall at a point distal to metaconid

2129. m1 premetacristid (contains information similar to Rm18-79):
0. premetacristid absent or indistinct
1. premetacristid present

2130. Orientation of paracristid on m1:
0. paracristid oriented mesially or only slightly lingual, lingual aspect recurved
1. paracristid curves gradually lingually
2. paracristid poorly developed

2131. m1-2 hypocristid development (Rm38-99):
0. absent or indistinct
1. weak
2. strong

2132. m1 trigonid height (ratio of trigonid height to talonid height) (Rm16-77):
0. higher than talonid (=>1.20)
1. slightly higher than talonid (=>1.10, <1.20)
2. trigonid and talonid of similar height

2133. m1 area (m54-110):
0. 1.10-2.00 mm
1. 2.10-3.00 mm
2. 3.10-4.00 mm
3. 4.10-5.00 mm
4. 5.10-6.00 mm
5. 6.10-7.00 mm
6. 7.10-8.00 mm
7. 8.10-9.00 mm
8. >9.10 mm

2134. m2 trigonid width (ratio of buccolingual breadths of trigonid and talonid) (Rm6-67):
0. much wider than talonid (=>1.11)
1. width similar (<1.11,>0.90)
2. much narrower than talonid (=<0.90)

2135. Hypoconulid position on m1 (contains information similar to Rm30-91):
0. twinned with, or most closely situated next to, entoconid
1. central
2. closer to hypoconid than to entoconid

2136. Hypoconulid position on m2 (contains information similar to Rm30-91):
0. twinned with, or most closely situated next to, entoconid
1. central
2. closer to hypoconid than to entoconid

2137. Position of entoconid relative to hypoconid on m2 (contains information similar to Rm57-113):
0. mesial to hypoconid
1. transverse to hypoconid
2. distal to hypoconid

2138. m2 paraconid (contains information similar to Rm20):
0. absent
1. present, small
2. present, large

2139. m3 paraconid:
0. absent
1. present, small
2. present, large

2140. Morphology of distolingual aspect of m2 (contains information similar to Rm26 and Rm41):
0. no postentoconid sulcus
1. hypoconulid closely situated next to entoconid and postentoconid sulcus present, entoconid confluent with distal talonid wall
2. distolingual fovea present, entoconid confluent with posterior talonid wall
3. distolingual fovea present, entoconid mesiodistally abbreviated and not confluent with posterior talonid wall

2141. Accessory cusps on distolingual aspect of m2:
0. absent
1. present

2142. m3 cristid obliqua:
0. trenchant, well-defined
1. indistinct or absent

2143. m3 trigonid width (based on relative buccolingual breadths) (Rm7-68):
0. much wider than talonid (=>1.20)
1. trigonid and talonid widths similar (=<1.20-1.05)
2. trigonid narrower than talonid (<1.05)

2144. m2 length/m3 length (Rm53-109):
0. m3 much longer than m2 (0.71-0.80)
1. m3 longer than m2 (0.81-0.90)
2. m3 equal to m2 (0.91-1.00)
3. m3 smaller than m2 (1.01-1.12)
4. m3 much smaller than m2 (=>1.13)
5. m3 absent

2145. m3 entoconid:
0. present and cuspidate
1. greatly reduced or absent

2146. Morphology of m3 hypoconulid:
0. large and at least moderately "lobate"
1. lobe greatly reduced

2147. Molar centroconids (contains information similar to Rm37-98):
0. absent
1. present

2148. Sulci between metaconid and protoconid on molars (contains

information similar to Rm22/23-83/84):
0. absent
1. present

2149. Paraconid position (if present on any molars) (contains information similar to Rm8-10):
0. mesial to metaconid
1. slightly labial to metaconid
2. mesial to protoconid

2150. Cusp basal inflation on m2 (contains information similar to Rm17-78 and Rm44-105):
0. crestiform
1. moderate basal inflation
2. cusp bases bulbous

2151. Lower molar metastylids (Rm12-73, modified):
0. absent
1. present

2152. Orientation of lateral protocristid on m2 (contains information similar to Rm21-82):
0. not directed towards hypoflexid
1. directed towards the hypoflexid

2153. Size of m1-2 hypoconulids (contains information similar to Rm27/28-88/89):
0. absent
1. small
2. large and distinct

2154. m1-2 buccal cingulum development (Rm45-106):
0. absent to trace
1. partial, discontinuous
2. complete

2155. Enamel crenulation on lower molars (contains information similar to Rm15-76):
0. absent or weakly developed
1. well developed

2156. Interincisal diastema (RCr42-224):
0. very broad
1. narrow

2157. I1-I2 interstitial contact (RI1-114):
0. absent, teeth widely spaced
1. present as a narrow contact
2. I2 tightly packed against I1, I1 paracrista abbreviated

2158. I1:I2 area (RI4-117):
0. areas approximately equal or I1 smaller than I2 (=<1.00)
1. I1 slightly larger than I2 (>1.00,<1.40)
2. I1 much larger than I2 (>1.40)

2159. I1-2 lingual cingulum (RI11-124):
0. weak, discontinuous

1. moderate, continuous
2. strong

2160. I1 occlusal shape (mesiodistal length/buccolingual breadth) (RI6-119):
0. rounded oval (<1.05)
1. buccolingually compressed (>1.05, <1.30)
2. extremely compressed (>1.30)

2161. I1 crown shape (RI8-121):
0. spatulate (no apparent occlusal cusp, mesial and distal edges continuous and rounded)
1. semi-spatulate (central cusp present, but blunt with discernable mesial and distal occlusal crests)
2. central occlusal cusp pointed, occlusal edges steep

2162. I1 occlusal edge orientation (spatulate incisors only) (RI10-123):
0. occlusal edge orthogonal to long axis of root
1. occlusal edge wears at a steep angle to long axis of root
2. crown with pronounced mesial asymmetry (=mesial process) in unworn state

2163. I2 occlusal shape (mesiodistal length/buccolingual breadth) (RI7-120):
0. rounded oval (=<1.05)
1. slightly buccolingually compressed (>1.05, <1.30)
2. extremely buccolingually compressed (=>1.30)

2164. I2-C diastema (RI3-116):
0. present
1. absent

2165. Upper incisor number (Y43):
0. two in each quadrant
1. one or none in each quadrant

2166. Upper canine shape (contains information similar to RC1-127):
0. round in cross-section
1. oval
2. strongly compressed buccolingually

2167. C1 mesial groove (females) (RC3-129):
0. shallow or absent
1. deep

2168. C1 lingual cingulum (RC4-130):
0. weak or absent
1. strong
2. very strong

2169. Upper canine occlusion (RC2-128):
0. wears against p1-2
1. wears against p2
2. wears against p2-3
3. wears against p3

2170. Upper premolar number (Y45):
0. four
1. three
2. two
3. one

2171. P2 occlusal outline (RP6-136):
0. triangular
1. suboval with the long axis buccolingual
2. suboval with the long axis mesiodistal
3. round

2172. P2 protocone (RP12-142, modified):
0. present
1. absent

2173. P2 area relative to P3 area (contains information similar to that in RP4-134):
0. much smaller than P3
1. approximately the same size, or only slightly smaller, than P3
2. much larger than P3

2174. Height of P2 relative to P3:
0. smaller than, or subequal in height (P2 height/P3 height <=1.1)
1. P2 slightly taller than P3 (P2 height/P3 height =>1.11, <1.5)
2. P2 much taller than P3 (P2 height/P3 height >1.51)

2175. P2 root number (RP1-131):
0. one
1. two
2. three

2176. P3 protocone (RP9-139, modified):
0. absent
1. present, small
2. present, distinct

2177. P3 root number (RP2-132):
0. one
1. two
2. three

2178. P4 metacone (RP10-140):
0. present
1. absent

2179. P4 occlusal outline (RP7-137):
0. triangular
1. suboval
2. squared

2180. P3-4 parastyles (RP15-145):
0. present
1. absent

2181. P3-4 metastyles (RP16-146):
0. absent
1. present

2182. P4 area:M1 area (RP5-135):
0. P4<<M1 (<=0.66)
1. P4<M1 (>0.66,<=0.76)
2. P4=M1 (0.77-1.05)
3. P4>M1 (>1.06)

2183. Premolar hypocones (RP13-143):
0. absent
1. present on P4 only
2. present on P3-4
3. present on P2-4

2184. P2-3 distal crown margin (RP18-148):
0. smoothly rounded
1. waisted between buccal and lingual cusps

2185. P3-4 buccal cingulum development (RP21-151):
0. absent or weak
1. strong

2186. Upper premolar paraconules (contains information similar to RP14-144):
0. absent or indistinct
1. present

2187. Upper premolar lingual cingula around protocone (contains information similar to RP19-149):
0. present
1. absent

2188. M1-2 root number (RM1-152):
0. three or more, three or more
1. three, two
2. two, two

2189. M2 shape (bl/md) (RM3-154):
0. very broad (>1.65)
1. broad (<1.65,>1.30)
2. squared (=<1.30)

2190. M1 area:M2 area (RM4-155):
0. M1>>M2 (=>1.40)
1. M1>M2 (<1.40,>1.0)
2. M1=<M2 (=<1.0)

2191. M1 mesiobuccal fovea delimited by trenchant parahypocrista:
0. absent
1. present

2192. M1-2 Nannopithex fold (RM5-156):
0. absent
1. weak

2. strong

2193. Hypocone size on M1-M2 (contains information similar to RM10/11-160/161):
0. no hypocones, or very small hypocones
1. small hypocones
2. large hypocones (subequal to protocone)

2194. M1-2 hypocone position (RM12-162):
0. distal, slightly lingual to protocone
1. distal, far lingual to protocone

2195. M1-2 prehypocrista development (RM13-163):
0. absent
1. weak
2. strong -- reaches to postprotocrista, encloses the talon lingually

2196. M1-2 paraconule position (RM15-165):
0. attached to preprotocrista
1. not attached to preprotocrista

2197. Convex distal lobe for M1-2 hypocone:
0. absent
1. present, distal crown margin weakly concave
2. present, distal crown margin deeply notched

2198. Lingual extension of hypocone lobe:
0. lobe does not extend lingually far beyond protocone
1. lobe does extend far lingually past protocone

2199. M1 paraconule size (RM37-180):
0. absent
1. small-moderate (smaller than paracone)
2. large (nearly as large as protocone)

2200. M1-2 metaconule size (RM16-166):
0. absent
1. small
2. moderate
3. large

2201. Shape of M1-2 centrocrista:
0. straight, aligned with mesiodistal plane
1. crests are more buccally oriented, meet at an angle
2. crests form a mesostyle

2202. Buccal cingulum on M1-2 (contains information similar to RM24-172):
0. absent
1. present but poorly developed
2. present and distinct
3. extensive buccal "shelf"

2203. M2 postmetacrista:
0. short, indistinct, or absent
1. long, trenchant, and labially extended

2204. M1-2 postprotocrista development (RM18-168):
0. strong, runs to base of metaconule or metacone
1. strong but short, does not reach to base of metacone
2. absent

2205. P4-M1 pericones (RM20-170):
0. absent
1. small
2. large

2206. M1-3 lingual cingulum development (RM22-171):
0. absent
1. weak, broken
2. strong, complete

2207. M1-2 premetaconule cristae (RM27-173):
0. absent or weak
1. strong

2208. M1-2 postmetaconule cristae (RM28-174):
0. absent or weak
1. strong

2209. Molar protocone lingual inflation (RM31-176):
0. not inflated
1. slightly inflated
2. very inflated

2210. M2 buccal expansion of paracone (RM33-177):
0. no expansion
1. slight expansion
2. considerable expansion

2211. M3 metacone (RM34-178):
0. absent or very small
1. moderate (but smaller than paracone)
2. large (equal to paracone)

2212. M3 hypocone (RM36-179):
0. absent or very small
1. small
2. large

2213. M3 size relative to M1 (RM46-182):
0. very small (half the size of M1 or less)
1. small (two thirds)
2. large (approximately as large)

2214. Mandibular symphyseal fusion (Y57,RCr39-221):
0. absent
1. present

2215. Shape of the mandibular angle (Y40):
0. sharply hooked
1. smoothly rounded
2. rounded but noticeably expanded

2216. Shape of masseteric fossa:
0. shallow
1. deeply excavated

2217. Mandibular depth (Y39,RCr45-227):
0. shallow (less than 1.8 times as deep @ m2 as md length of m2)
1. deep (more than 1.8 times as deep @ m2 as md length of m2)
2. very deep (more than 2.2 times as deep @ m2 as md length of m2)

2218. Height of coronoid process relative to condyle (RCr43-225):
0. very high above
1. slightly above or equal

2219. Condyle height relative to toothrow (RCr44-226):
0. at level of toothrow
1. slightly above
2. well above toothrow

2220. Scapular morphology (Y64):
0. long and narrow
1. broad and mediolaterally shortened

2221. Curved ridge along inferior border of infraspinous fossa (Y65):
0. absent
1. present

2222. Relative sizes of infraspinous and supraspinous fossae (Y66):
0. supraspinous fossa larger than infraspinous fossa
1. fossae roughly equivalent
2. infraspinous fossa approximately two times as large as the supraspinous fossa
3. infraspinous fossa approximately three times as large as the supraspinous fossa

2223. Position of humeral head relative to tubercles:
0. humeral head is expanded dorsal to tubercles
1. humeral head and tubercles are approximately equal in height
2. tubercles are expanded above humeral head

2224. Shape of intertubercular sulcus:
0. narrow and deep
1. narrow and shallow
2. shallow and wide

2225. Shape of humeral trochlea (contains information similar to RH1):
0. conical, medial aspect of trochlea flares distally
1. cylindrical, distomedial aspect of trochlea is straight

2226. Capitular shape:
0. globular
1. ovoid

2227. Relative width of capitulum (contains information similar to

RH5):
0. maximum ventral articular width less than 2.5 times longer than maximum capitular width
1. maximum ventral articular width greater than 2.5 times longer than maximum capitular width

2228. Trochlear-capitular junction:
0. trochlea and capitulum are confluent, with no distinct trochleo-capitular ridge
1. lateral aspect of trochlea is offset from capitulum by a weak ridge
2. lateral aspect of trochlea is separated from capitulum by a deep gutter

2229. Olecranon fossa morphology (Y78, contains information similar to RH12):
0. deep, open and unossified
1. moderately deep, thinly ossified and nearly transparent
2. robustly ossified

2230. Humerofemoral index:
0. <59
1. 60-69
2. 70-79
3. 80-89
4. 90-100

2231. Entepicondylar foramen (Y77,RH6-237):
0. present
1. absent

2232. Mediolateral position of entepicondylar foramen (Seiffert et al., 2000):
0. lateral wall of medial strut defining foramen is confluent with medial edge of the trochlea
1. foramen more medial, and lateral wall of medial strut defining foramen is not confluent with medial edge of the trochlea

2233. Capitular tail:
0. elongate and distinct
1. short or absent
2. proximodistally tall capitular flange is present

2234. Dorsal placement of medial epicondyle (RH9-240):
0. parallel
1. slight dorsal angle
2. large dorsal angle

2235. Dorsoepitrochlear fossa (RH11-242):
0. present
1. small, shallow
2. absent

2236. Supinator crest (Y76, contains information similar to RH13-244):
0. absent or poorly developed
1. moderately developed

2. well-developed

2237. Size of centrale, orientation of centrale trapezoid facet, and articulation with hamate (RW1-249):
0. small centrale, facet faces distally, no articulation with hamate
1. large centrale, facet faces distoradially, articulation with hamate

2238. Ulnar-pisiform articulation (RW2-250):
0. no ulnar-pisiform articulation
1. facet on pisiform for ulnar styloid process is roughly equal in size to that for triquetrum
2. facet on pisiform for ulnar styloid process is much enlarged and deeply excavated

2239. Styloid process (Y80):
0. no discernable styloid process
1. present but only moderately developed
2. long and well-developed

2240. Pedal grooming claw (Y82,RO2):
0. absent
1. nail present

2241. Second digit of hand (Y81):
0. of normal length
1. drastically reduced

2242. Prehallux (RO3-284):
0. present
1. absent

2243. Lateral astragalar trochlear asymmetry (Seiffert & Simons, 2001):
0. absent
1. present

2244. Morphology of fibular facet (RA2, modified):
0. facet slopes obliquely and gradually laterally
1. facet is flat (vertical) and has a small pointed process plantarly
2. dorsal aspect of facet is subvertical and has a long ventral process that projects laterally

2245. Astragalar cotylar fossa (Seiffert & Simons, 2001):
0. shallow
1. deep, medially projecting

2246. Shape of proximal aspect of medial tibial facet on astragalus (RA6, modified):
0. dorsoventrally deep, extends to plantar aspect of astragalus
1. dorsoventrally restricted, confined to dorsal half of astragalar body

2247. Relative astragalar head width:
0. astragalar head less than 1.3 times wider than high

1. astragalar head more than 1.3 times wider than high

2248. Plantarflexion of astragalar head:
0. absent
1. present

2249. Posterior astragalar shelf (D20; contains information similar to RA4):
0. present
1. absent

2250. Position of groove for flexor fibularis (RA1):
0. plantad to astragalar trochlea
1. lateral to astragalar trochlea

2251. Shape of calcaneocuboid joint surface (Gebo et al., 2000):
0. no nonarticular wedge on medioplantar surface of joint, pivot central
1. nonarticular wedge on medioplantar surface of joint present, pivot medial
2. cuboid pivot very shallow or absent

2252. Relative length of posterior calcaneal facet:
0. length/width <1.8
1. 1.81-2.00
2. 2.01-2.20
3. >2.21

2253. Anterior calcaneal elongation (length of calcaneus distal to astragalocalcaneal facet/total calcaneal length x 100) (RC1, scoring from D22 addendum):
0. not elongate (ACL or anterior calcaneal ratio <40)
1. moderate (ACL=>40-45)
2. long (45-60)
3. >60

2254. Navicular length relative to width (contains information similar to RN1):
0. short
1. long (150% longer than wide)

2255. Morphology of the naviculocuboid articulation (RN3):
0. cuboid facet contacts only the ectocuneiform
1. cuboid facet contacts the ectocuneiform and the mesocuneiform

2256. Peroneal tubercle of MT1 (RMT1-286):
0. very large
1. large
2. small

2257. Hallux length relative to digit three length (RMT2):
0. less than 70% the length of the three phalanges of digit III
1. 71-80%
2. 81% or longer

2258. Tibial process for peroneus longus:
0. absent or poorly developed
1. present and distinct

2259. Retroflexion of proximal tibial articulation:
0. absent, articular surface of tibial condyles perpendicular to long axis of tibial shaft
1. moderate retroflexion present
2. proximal articular surface is strongly retroflexed

2260. Tibiofibular joint (contains information similar to RT1):
0. tibiofibular syndesmosis extends 15% or less along the length of the distal tibial shaft
1. tibiofibular syndesmosis or synostosis extends 25% or more along the length of the distal tibial shaft
2. complete distal tibiofibular fusion

2261. Shape of distal surface of tibia (RT3-264):
0. square
1. triangular

2262. Rotation of the medial malleolus (RT4-265):
0. none
1. slight
2. strong

2263. Shape of the medial malleolar articular surface (RT5-266):
0. flat
1. anteriorly convex, posteriorly flat
2. all convex

2264. Shape of distal tibial shaft (RT6-267):
0. no compression
1. anteroposteriorly compressed

2265. Fovea capitis (Y75):
0. small and insignificant
1. present and well-developed

2266. Patellar margin asymmetry:
0. absent
1. present

2267. Knee index (contains information similar to RF5):
0. 100 or higher
1. 90-99
2. 80-89
3. 70-79

2268. Gluteal tuberosity (Y74):
0. present, large
1. present, small and reduced to a thin crest
2. absent

2269. Position of gluteal tuberosity:
0. proximal to, or at level of, lesser trochanter
1. distal to lesser trochanter

2270. Anteroposterior angulation of proximal femur (contains information similar to RF8):
0. bent anteriorly
1. not bent anteriorly

2271. Crista paratrochanterica:
0. absent
1. present

2272. Femoral neck (Y71):
0. absent, femoral head elongate with articular surface extending onto "neck"
1. present

2273. Intertrochanteric fossa (contains information similar to RF11):
0. long and distally "open"
1. long and walled off by an intertrochanteric crest that meets the lesser trochanter
2. short and restricted to small fossa proximal to lesser trochanter

2274. Greater trochanter shape (Y72):
0. hook-shaped
1. rounded

2275. Shape of manubrium (Y83):
0. sternal head elongate
1. shortened and triangular in shape

2276. Transpedicular foramina (Y85):
0. absent
1. present

2277. Number of thoraco-lumbar vertebrae:
0. 18
1. 19
2. 20
3. 21
4. 22
5. 23
6. 24

2278. Anticlinal vertebra (Y84):
0. T10
1. T11
2. T12
3. L1
4. no anticlinal vertebra

2279. Anterior inferior iliac spine (Y70):
0. present
1. absent

2280. Ilium shape (Y67):
0. narrow
1. markedly flared

2281. Ischial flaring (Y69):
0. absent
1. present

2282. Pubic bone flaring (Y68):
0. absent
1. present

2283. Tail length (Y86):
0. long tail
1. reduced
2. absent

2284. Shape of glenoid fossa (RCr40-222):
0. gutter or trough-like
1. wide and biconcave

2285. Postglenoid process (Y25):
0. present
1. absent

2286. Postglenoid process-auditory bulla relationship (Y26):
0. not confluent
1. partially fused
2. postglenoid process fused to lateral aspect of bulla

2287. Entoglenoid process (RCr41-223):
0. robust
1. indistinct or absent

2288. Nasal septum (Y20):
0. forms a connection with the posteromedial edge of the palate
1. nasal septum is recessed within the nasal fossa

2289. Position of pyramidal processes (RCr35-217):
0. medially placed
1. laterally placed

2290. Position of the anteriormost point on the palatine/maxillary suture of the palate (Y19):
0. medial to space between M2 and M3
1. medial to M2
2. medial to space between M1 and M2
3. medial to M1
4. medial to the space between P4 and M1

2291. Posterior palatine torus (RCr34-216):
0. present
1. absent

2292. Position of the posteromedial edge of the palate in relation to M3 (Y24):
0. anterior to M3
1. medial to M3
2. posterior to M3

2293. Shape of medial pterygoid plate (Y22, contains information similar to RCr36)):
0. lateral pterygoid protrudes more deeply than the medial pterygoid
1. medial and lateral pterygoids are equally deep
2. relatively deep and protrudes ventrally when compared to the lateral pterygoid plate

2294. Lateral pterygoid-bullar overlap (RCr18-200):
0. laminar
1. absent
2. abutting

2295. Extent of contact between the lateral pterygoid plate and the bullar wall (RCr19-201):
0. slight
1. very extensive

2296. Position of foramen ovale (Y28):
0. lateral side of lateral pterygoid
1. medial to lateral pterygoid

2297. Central stem of basicranium (D47):
0. narrow
1. broad

2298. Choanal shape (D50):
0. broad
1. peaked

2299. Morphology of anterior extension of bulla (Y35):
0. smooth and rounded
1. pointed

2300. Basioccipital flange (contains information similar to RCr20-202):
0. present, extensive
1. absent or minimal

2301. Encroachment of auditory bulla on pterygoid fossa (RCr17-199):
0. present
1. absent

2302. Shape of external auditory meatus (D38):
0. tubular
1. not tubular

2303. Suprameatal foramen (RCr21-203):
0. present
1. absent

2304. Ascending pharyngeal artery (Y52):
0. if present is poorly developed
1. present and enlarged

2305. Vascular plexus associated with ascending pharyngeal artery (Y53):

0. absent
1. present

2306. Relative size of stapedial and promontory arteries (contains information similar to RCr11-193):
0. stapedial and promontory arteries present, stapedial larger than promontory
1. stapedial absent or highly reduced relative to promontory
2. stapedial and promontory absent
3. stapedial and promontory of equal size

2307. Mediolateral position of posterior carotid foramen (RCr6-188):
0. lateral
1. midline of bulla
2. medial

2308. Rostrocaudal position of posterior carotid foramen with respect to fenestra cochleae (contains information similar to RCr8-190):
0. anterior to fenestra cochleae
1. posterior to fenestra cochleae

2309. Ventrodorsal position of posterior carotid foramen relative to fenestra cochleae (RCr7-189):
0. dorsal
1. ventral

2310. Position of pathway for internal carotid artery or nerve relative to fenestra cochleae (RCr9-191):
0. runs across ventral lip of fenestra cochleae, shielding it from ventral view
1. does not shield fenestra cochleae

2311. Presence or absence of canal for internal carotid artery or nerves (RCr13-195):
0. absent
1. present

2312. Morphology of promontory canal (RCr12-194):
0. complete canal
1. open trough
2. absent

2313. Perbullar pathway for internal carotid artery (RCr4-186):
0. present
1. absent

2314. Transverse septum defining caudal wall of anterior accessory cavity (contains information similar to RCr1):
0. absent
1. present, forms lateral wall of AAC pneumatized from tympanic cavity
2. present, forms lateral wall of AAC pneumatized from epitympanic recess

2315. Composition of bulla:
0. petrosal
1. entotympanic

2316. Epitympanic crest (RCr48-230):
0. absent
1. present

2317. Morphology of annular bridge (RCr16-198):
0. absent
1. complete
2. linea semicircularis

2318. Position of ventral edge of tympanic bone (RCr14-196):
0. extrabullar
1. intrabullar

2319. Parotic fissure (RCr22-204):
0. patent
1. closed

2320. Pneumatization of mastoid (from epitympanic recess) (RCr3):
0. absent
1. present, moderately inflated
2. present, greatly inflated

2321. Paroccipital processes (Y23):
0. absent
1. present

2322. Foramen on the mastoid-basioccipital suture (Y34):
0. present
1. absent

2323. Disposition of hypoglossal canal and posterior foramen of jugular complex (Y30):
0. distinct and separate
1. share a shallow fossa

2324. Jugular foramen morphology (Y29):
0. two foramina
1. one foramen

2325. Emissary foramina on lateral edge of parietals (Y33):
0. present
1. absent

2326. Interparietal bone (Y14):
0. no visible suture
1. separate from supraoccipital in adult specimens

2327. Pattern of sagittal cresting:
0. temporal lines converge on frontal
1. temporal lines converge on the parietals, forming short sagittal crest
2. temporal lines are not confluent, no sagittal crest present

2328. Metopic sutural fusion in adults (RCr31-213):
0. present
1. absent

2329. Frontal-maxillary contact :
0. present
1. absent due to intervening lacrimal
2. absent due to intervening premaxilla

2330. Degree of orbital convergence (contains information similar to RCr32-214):
0. less than 120 degrees
1. greater than 120 degrees

2331. Expansion of ethmoturbinals (YIP89):
0. no anteromedial expansion
1. anterior and medial expansion

2332. Pronounced interorbital constriction:
0. absent
1. present below CN I

2333. Orbit size/inferred or confirmed activity pattern (contains information similar to RCr23-205):
0. diurnal, or orbit size indicative of diurnal activity pattern
1. nocturnal, or orbit size indicative of nocturnal activity pattern

2334. Foramen rotundum (Y12,RCr29-211):
0. confluent with the superior orbital fissure
1. present

2335. Lacrimal foramen morphology (Y11):
0. surrounded by lacrimal bone
1. foramen lies on lacrimal/maxillary suture
2. foramen lies on the lacrimal/maxillary suture but is primarily surrounded by maxilla

2336. Position of lacrimal foramen (RCr30-212):
0. inside the orbit
1. on rim, or outside of, orbit

2337. Zygomatic-lacrimal contact (Y6, RCr26-208):
0. present
1. absent

2338. Lacrimal-palatine contact (Y5, contains information similar to RCr28-210):
0. no contact
1. contact present

2339. Fissure in orbit between the ethmoid and maxilla (Y13):
0. absent
1. present

2340. Ethmoid exposure within orbit (Y7):
0. absent
1. present

2341. Infraorbital foramina (Y2):
0. one
1. two
2. three

2342. Location of infraorbital foramina (Y3):
0. above P2-3
1. above P3-4
2. above P4
3. above P4-M1
4. above M1

2343. Morphology of zygomatic portion of postorbital bar (Y18, contains information similar to RCr24-25):
0. no postorbital bar
1. slender and delicate
2. wide and robust
3. contributes to postorbital septum

2344. Morphology of frontal segment of the postorbital bar (Y17, contains information similar to RCr24-25):
0. partial frontal process but no postorbital bar
1. slender and delicate
2. wide and robust
3. incorporated into postorbital septum

2345. Zygomatic arch depth:
0. slender
1. dorsoventrally deep

2346. Malar foramen in zygomatic bone (Y16):
0. absent
1. present, small
2. present, large

2347. Snout length (RCr37):
0. long snout
1. short snout

2348. Maxillary depth (RCr38):
0. deep
1. shallow

2349. Facial profile (MB31):
0. straight
1. dished

2350. Position of anterior palatine foramina relative to incisors (MB2):
0. foramina sit behind anterior incisors
1. foramina intrude between medial incisors

2351. Rostral projection of premaxilla (MB12):
0. no extension of premaxilla beyond anterior incisors
1. mild premaxillary projection
2. considerable projection, forming a tubular anterior rostrum

2352. Ascending wing of premaxilla (RCr49):
0. narrow
1. broad

2353. Retia mirabilia of the proximal limb vessels (YIP87):
0. absent
1. present

2354. Nasal morphology (Y62, contains information similar to R289):
0. lateral cleft between medial and lateral nasal processes
1. lateral cleft fused and rhinarium covered with dry hairy skin

2355. Vibrissae (Y61):
0. present
1. absent

2356. Retinal fovea (Y60, R288):
0. absent
1. present

2357. Tapetum lucidum (Y59, R290):
0. present
1. absent

2358. Placentation (Y58):
0. choriovitelline placenta
1. no choriovitelline placenta

2359. Continental biogeography:
0. North America
1. Europe
2. Asia
3. Afro-Arabia
4. Madagascar
5. South America

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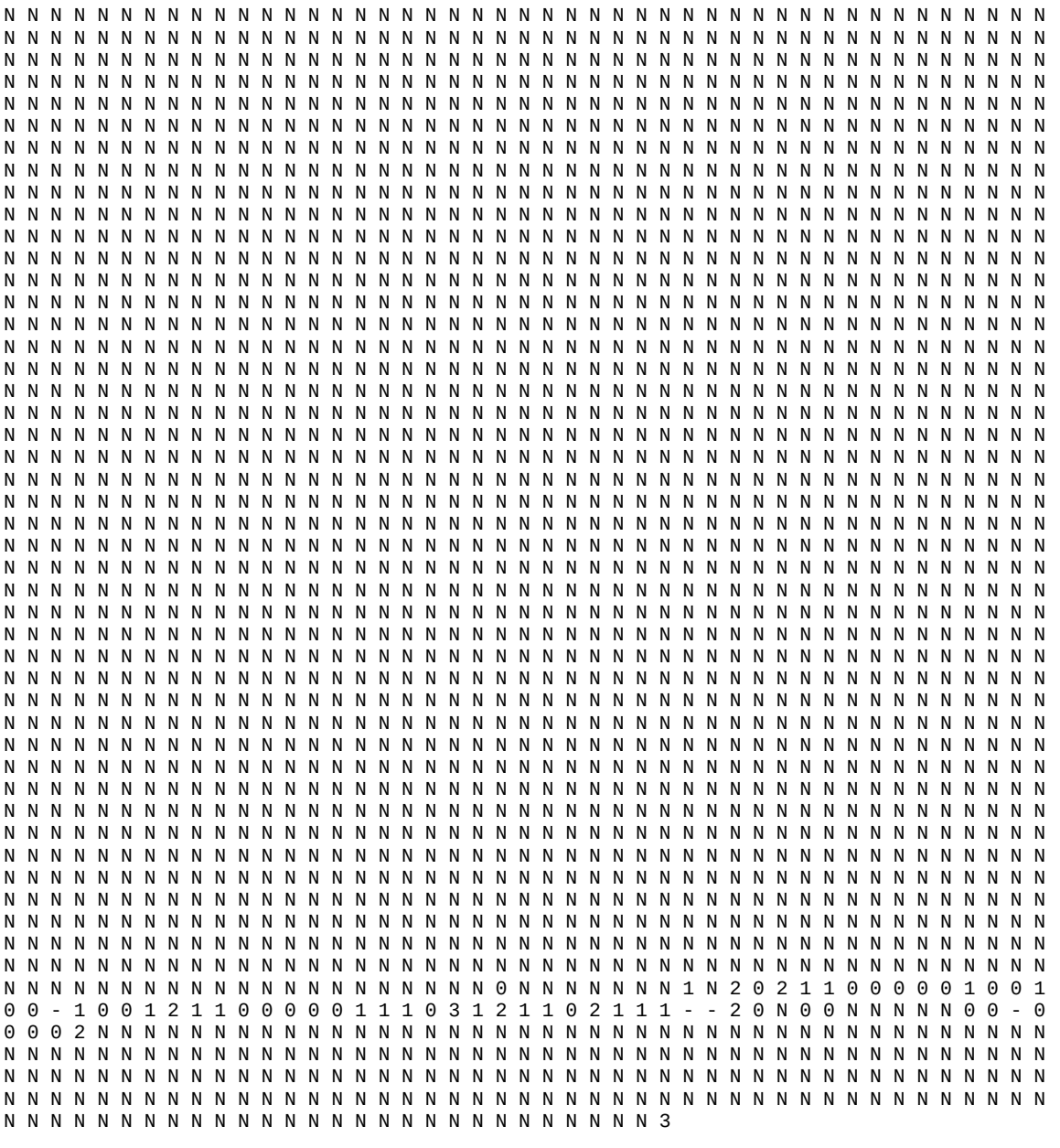

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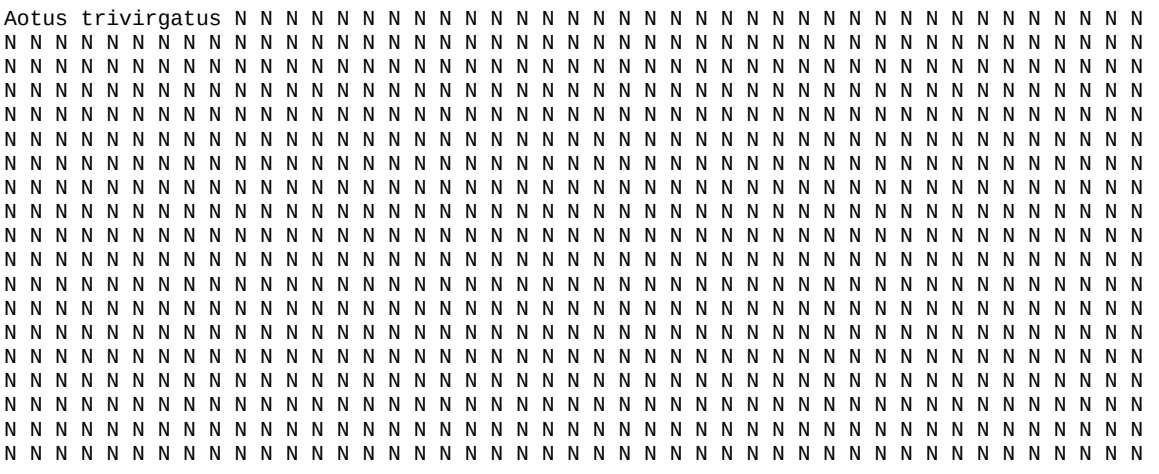

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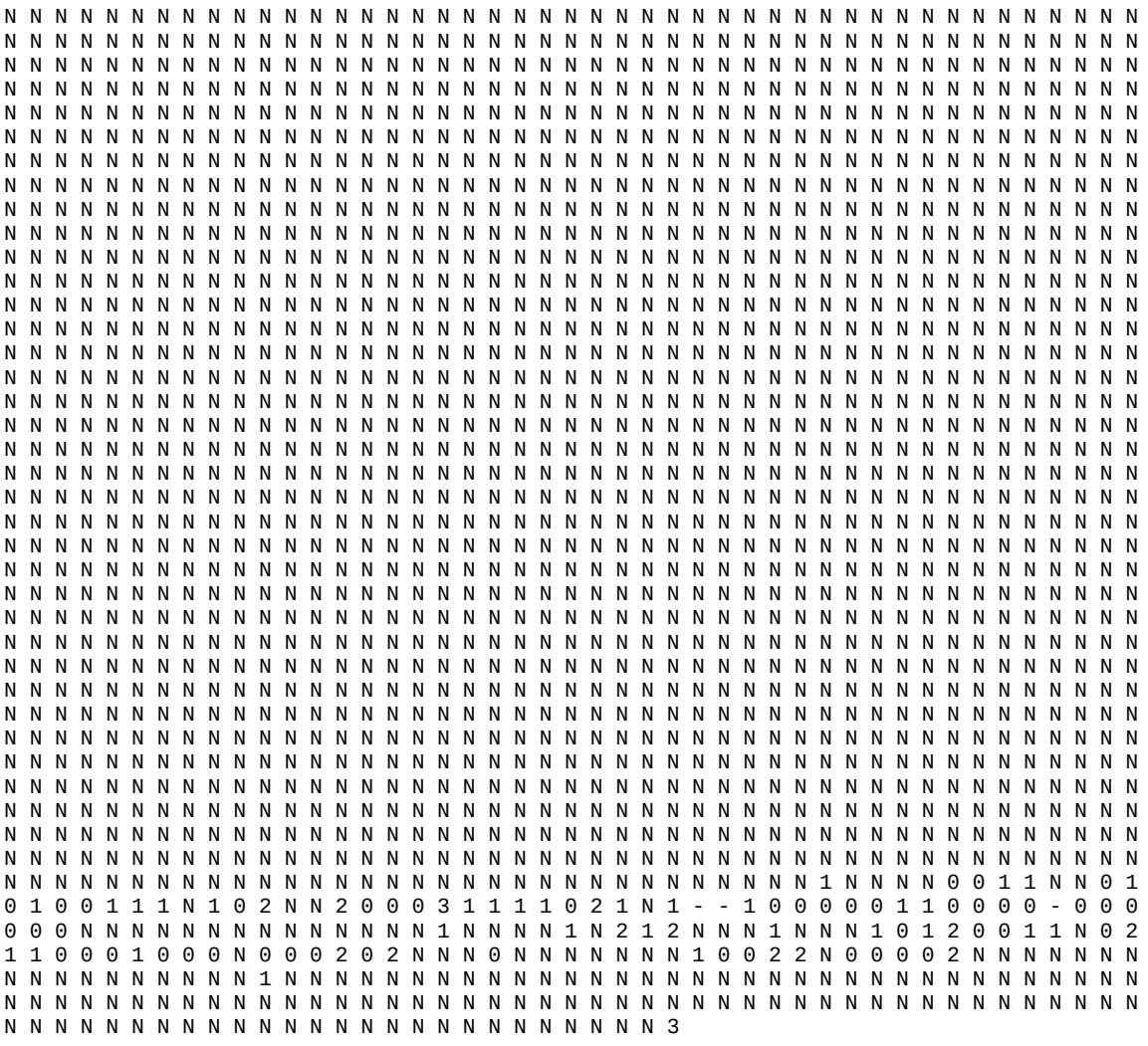

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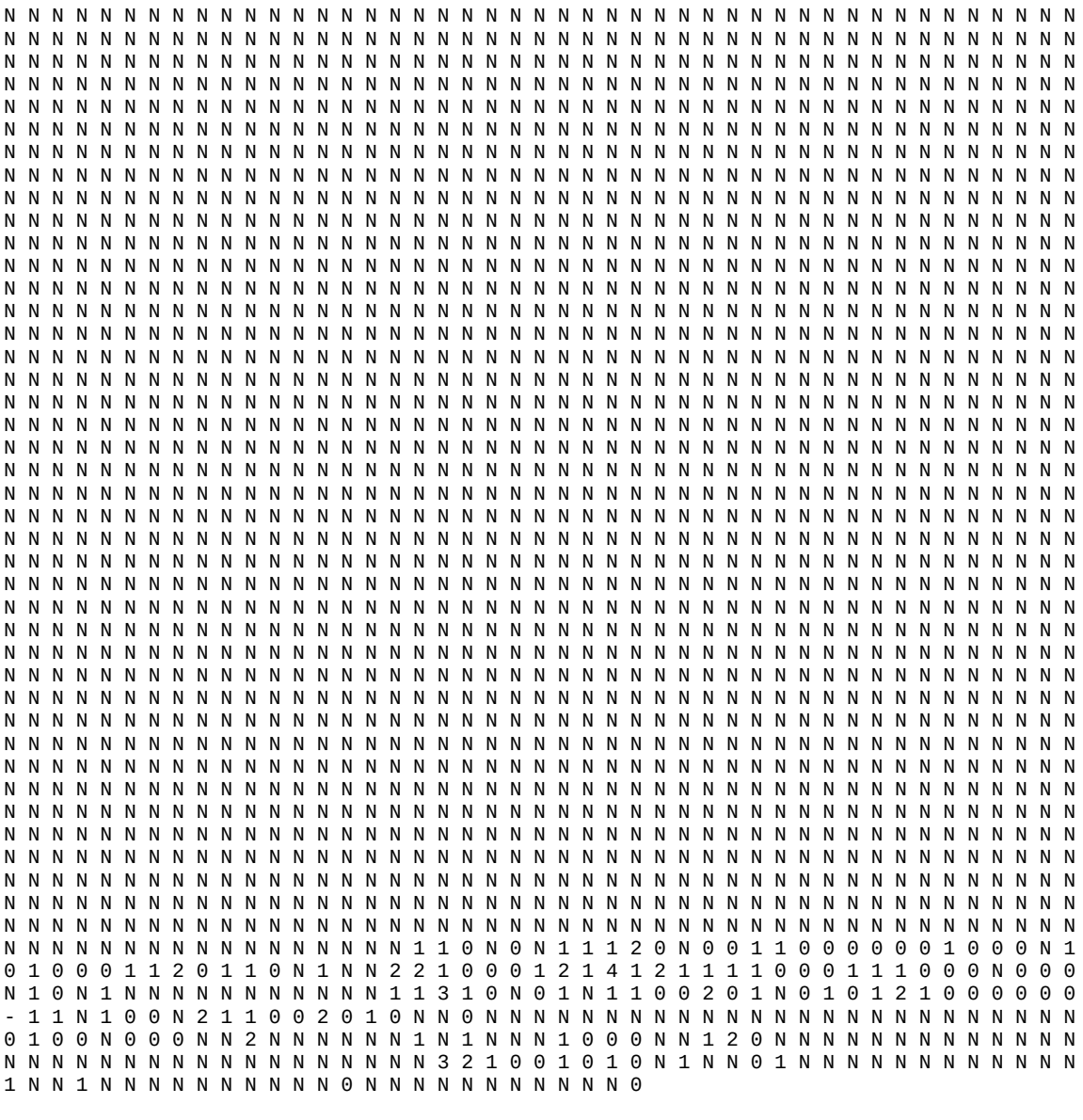

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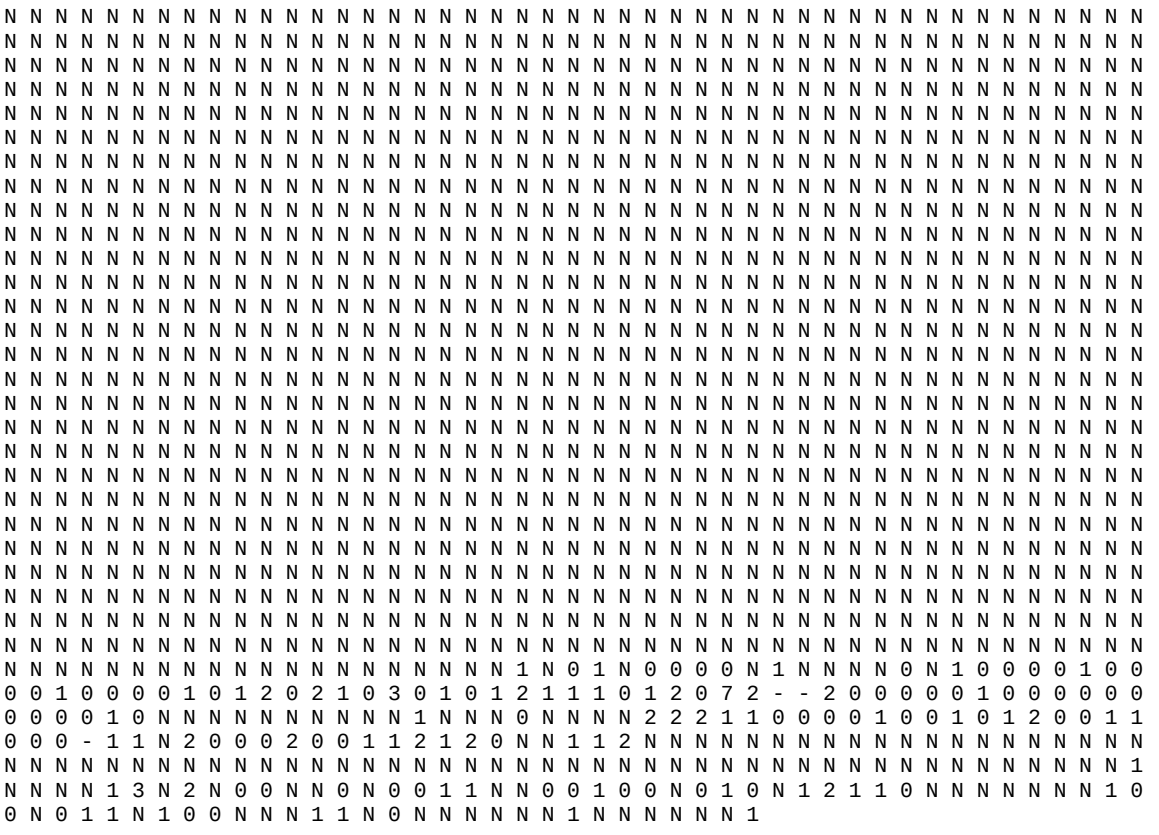

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G T A G C T G A C C T T A T C A C A C T C A C A T G A A T C G G T G G A C A A C C T G T T
G A A C A C C C A T T C A T T C T T A T C G G C C A A G T A G C C T C A G T C C T A T A C
T T T G C A A T C A T C A T C A T C C T A A T A C C A C T A G C C G G T T G A T T A G A A
A A T T A C C T A A T G A A G T G A T A G N G C A T T T G A C A G C C T C A C C C A G G A
G G A G C T G C T C A C C C A T C T G C A G G A G G G C A T C C G C C A T G A G G T C C T
G G A G G G C A A T G T G G G C T A C C T G C G A C T G G A C G A C C T C C C A A A C C A
G G A G G T G C T G A A C C A G C T G G G G G C G T T C C T G G T G A C C C A C G T C T G
G A T G A A G C T C A T G G G C A C C T C G G C C T T G G T G C T G G A C C T C C G A C A
C T G C A C T A G G G G C C A C G T C T C C G G C A T C C C C T A C G T C A T C T C C T A
C C T G C A C C C G G G G A G C A C G G T C C T G C A T G T G G A C A C C A T C T A C A A
C C G C C C C T C C A A C A C C A C C A C G G A G C T C T G G A C C C T G C C C C A G A T
C C C G G G A G A G A G G T A C A G T G C C A A C A A G G A C G T G G T G G T C C T C A C
C A G C A G C C A C A C T G G G G G C G T G G C C G A G G A C A T C G C C T A C A T C C T
C A A G C A G A T G C G C A G A G C C A T C G T G G T G G G C G A G C G C A C C G T G G G
G G G G G C C C T G G A C C T T C A G A A G C T G A G G A T C G G C C A G T C C G A C T T
C T T C T T C A C G G T G C C C G T G T C T A G G T C C C T A G G G C C C C T G G G T G G
G G G C A G C C A G A C C T G G G A G G G A A G C G G G G T C C T G C C C T G T G T G G G
G A C G C C C G C G G A G A A G G C C C T G G A G A A A G C C T T G G C C A T C C T C A C
A C T G C G C C G A G C C C T G C C G G G G G G T G G T G C A C C G T C T G A A G G A G G C
C C T G C A G G A A T A C T A C A C G C T G G T G G A C C G C G T G C C C G C G C T G C T
G C G C C A C C T G G C C G G C A T G G A C T T C T C C G A G G T G G T C T C T G A G G A
G G G C C T G G T C A G C A G G C T C A A T G C T G G C C T G C A G G C A G T G T C C G A
G G A T C C C C G G C T G C T G G T G C G G G C A G T C A A G C C C A G A G A A G C C T C
C G T G G A G C C T G A G G C C G G A G C T G A C A A T G C C C C G G G A G A G G C C C C
G G T G T T A C C C A C A G A 0 0 0 2 0 2 2 2 1 0 0 0 0 N N 1 1 0 0 1 0 0 1 0 0 0 1 1 0 0
0 0 N N N 1 0 N 1 0 N 0 N N 2 3 0 1 1 0 1 2 0 7 1 0 0 0 2 2 0 0 0 0 N N 1 0 0 0 0 0 0 1 0
0 0 0 1 0 1 1 1 2 0 0 2 0 0 1 1 2 1 0 N 1 0 2 1 0 0 N 0 0 1 1 0 1 0 1 1 0 0 0 0 0 N 0 - 0
0 N 3 1 1 0 0 0 N 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 N 0 1 0 N 2 2 0 1 1 0 2 0 0 1 0 0 0 0 1 1
1 1 1 0 1 0 2 N 0 0 0 2 0 N N 0 0 0 0 N 0 0 1 0 1 1 0 1 1 0 0 0 N 0 0 0 0 0 0 0 1 0 0 1 0 0
3 0 2 1 1 - 0 1 0 0 1 1 N 0 0 0 3 2 1 0 0 1 0 1 0 1 1 2 1 0 0 0 1 0 1 0 N 2 0 0 0 N 0 0 0
0 1 0 1 0 0 N 0 1 1 0 2 0 1 0 N N 1 N 0 0 0 0 0 2

Section 3. GenBank accession numbers for nucleotide sequences included in parsimony analysis

Taxon	cytochrome b	IRBP
Cheirogaleus major	U53570	AF271421
Daubentonia madagascariensis	U53569	AF271422
Galago moholi	AF271410	AF271415
Galagoides demidoff	AF271411	AF271416
Lemur catta	U53575	AF081058
Loris tardigradus	U53581	AF271418
Nycticebus coucang	U53580	AF271419
Otolemur crassicaudatus	U53579	Z11805
Perodicticus potto	AF271413	AF271420
Propithecus tattersalli	U53573	AF081053
Saimiri sciureus	U53582	AF271424
Tarsius bancanus	AB011077	AF271423
Tupaia belangeri	NC_02521[1]	
Tupaia glis		Z11808

[1]region 14131-15270

Section 4. Additional information from quartet dating

Estimates based on 38 Ma date for galagid-Asian lorisid and equivalent crown lemuriform split

Quartets:	Rate	Rate 2	Date	Low	High	lnL
((*Daubentonia*,*Cheirogaleus*),(*Nycticebus*,*Otolemur*))	0.002321	0.858109	49.670563	46.853563	53.010563	-5986.985719
((*Daubentonia*,*Cheirogaleus*),(*Loris*,*Otolemur*))	0.002314	0.809185	50.194135	47.309935	53.615135	-5951.732003
((*Daubentonia*,*Propithecus*),(*Nycticebus*,*Otolemur*))	0.002173	0.92415	50.285316	47.372316	53.738316	-5923.128485
((*Daubentonia*,*Cheirogaleus*),(*Nycticebus*,*Galagoides*))	0.002302	0.854468	50.669265	47.739965	54.133265	-6011.288001
((*Daubentonia*,*Lemur*),(*Nycticebus*,*Otolemur*))	0.002223	0.901675	50.675069	47.734069	54.152069	-5957.913862
((*Daubentonia*,*Lemur*),(*Loris*,*Galago*))	0.002238	0.843706	50.680211	47.691211	54.221211	-5921.220194
((*Daubentonia*,*Lemur*),(*Loris*,*Otolemur*))	0.002241	0.841582	50.760442	47.772442	54.298442	-5916.671515
((*Daubentonia*,*Cheirogaleus*),(*Loris*,*Galago*))	0.002317	0.812983	50.815896	47.829896	54.348896	-5969.78015
((*Daubentonia*,*Propithecus*),(*Loris*,*Otolemur*))	0.002183	0.861406	50.965064	47.953064	54.534064	-5891.418638
((*Daubentonia*,*Cheirogaleus*),(*Loris*,*Galagoides*))	0.002301	0.835332	51.049363	48.053363	54.591363	-5997.439488
((*Daubentonia*,*Propithecus*),(*Nycticebus*,*Galagoides*))	0.002176	0.91178	51.034416	48.020416	54.599416	-5948.688845
((*Daubentonia*,*Lemur*),(*Loris*,*Galagoides*))	0.002223	0.863282	51.051559	48.043459	54.607559	-5948.63053
((*Daubentonia*,*Lemur*),(*Nycticebus*,*Galagoides*))	0.002223	0.89077	51.220845	48.203545	54.782845	-5976.75855
((*Daubentonia*,*Propithecus*),(*Loris*,*Galago*))	0.002182	0.866407	51.19987	48.13957	54.82487	-5902.788108
((*Daubentonia*,*Propithecus*),(*Loris*,*Galagoides*))	0.002177	0.879162	51.831227	48.719927	55.505227	-5935.74931
((*Daubentonia*,*Cheirogaleus*),(*Nycticebus*,*Galago*))	0.002319	0.758277	52.43628	49.21228	56.24128	-5932.213495
((*Daubentonia*,*Propithecus*),(*Nycticebus*,*Galago*))	0.002184	0.811517	53.071488	49.729488	57.014488	-5866.467862
((*Daubentonia*,*Lemur*),(*Nycticebus*,*Galago*))	0.002235	0.789735	53.286251	49.940051	57.228251	-5898.946981