

Table 3.4 Published and unpublished computed ranges of dental crown areas (mm²) of modern and fossil *Pongo* teeth from different sites:
number of samples in parentheses with mean and standard deviation.

Tooth Type		P ⁴	M ³	I ₂	P ₃	P ₄	M ₁	M ₂
Modern								
<i>Pongo abelii</i> ¹	(M)	80.2-143.2 (9); 118.9±18.7	136.2-208.8 (7); 169.7±25.8	104.2-104.9 (2); 104.5±0.5	100.6-171.5 (9); 125.2±23.9	86.5-150.8 (9); 115.0±24.4	124.0-193.5 (9); 148.8±22.5	149.9-223.3 (9); 175.9±22.0
	(F)	79.9-103.2 (3); 93.3±12.0	111.1-115.9 (3); 114.0±2.6	67.0-81.3 (3); 75.2±7.4	82.8-112.1 (3); 94.7±15.4	79.1-114.5 (3); 93.9±18.4	114.0-154.56 (3); 129.8±21.7	128.6-157.8 (3); 138.8±16.5
	(M)	91.3-145.2 (29); 117.7±11.3	143.4-217.8 (6); 175.3±26.9	96.7 (1)	97.7-171.6 (25); 138.6±19.1	85.9-148.5 (25); 119.6±15.0	121.9-188.9 (25); 152.4±18.5	136.8-208.6 (25); 170.0±21.4
	(F)	81.8-130.0 (22); 102.0±10.4	89.4-176.1 (12); 126.9±23.8	85.7 (1)	86.3-143.0 (22) ; 111.5±15.4	77.3-124.3 (21); 100.8±12.9	120.5-169.4 (21); 137.3±10.9	117.7-185.8 (22); 145.1±17.8
Prehistoric								
<i>Pongo</i> sp. Punung fissure fillings, Java ³		66.7-142.1 (30); 111.1±19.0	114.0-196.5 (25); 148.3±23.1		95.9-162.8 (10); 124.9±22.1	85.6-171.1 (19); 121.3±22.8	130.0-155.4 (4); 138.2±11.6	126.0-222.9 (29); 176.9±21.5
<i>Pongo pygmaeus</i> Niah Caves, Borneo ⁴								
(Unsexed)		131.7-141.0 (2); 136.3±6.6	121.0-194.4 (3); 164.0±38.3	117.6 (1)	139.2-169.0 (4); 152.3±14.6	153.7 (1)	117.6-155.3 (3); 140.6±20.2	167.8-219.4 (5); 194.4±19.2
(F)		108.3-123.2 (2); 115.7±10.5			120.4-141.9 (2); 131.2±15.2	126.1 (1)	145.0 (1)	165.8 (1)
<i>Pongo pygmaeus</i> <i>Palaeosumatrensis</i> Padang Highlands Caves, Sumatra ⁵		84.2-225.5 (267); 138.4±23.8	103.9-316.2 (226); 164.1±32.8	73.1-156.5 (96); 106.9±18.5	98.4-303.0 (233); 170.2±37.6	91.3-232.4 (263); 151.8±26.0	130.0-234.9 (190); 175.5±23.2	154.6-349.0 (209); 217.8±32.8

Table 3.4 continued

Tooth Type	P ⁴	M ³	I ₂	P ₃	P ₄	M ₁	M ₂
<i>Pongo</i> sp. Tham Khuyen Cave, Vietnam ⁶							
(Morph 1)	114.3-132.5 (2); 123.4±12.8	195.1 (1)					*229.7-242.2 (4); 236.2±5.4
(Morph 2a)	169.4-177.2 (2); 173.3±5.5			202.2-226.1 (5); 210.2±10.2	163.3-196.6 (3); 174.8±19.0		*238.2-253.8 (2); 246.0±11.0
(Morph 2b)	116.4 (1) 143.0±4.4			138.3-147.1 (3);			
Lang Trang caves, Vietnam ⁷							*148.0-334.3 (36); 223.8±46.8
Unnamed cave, Hoa Binh, Vietnam ⁸ (possibly female)	174.0 (1)	234.1 (1)	113.5 (1)	150.7 (1)	147.3 (1)	184.5 (1)	228.8 (1)
South China caves ⁹	132.1-206.4 (18); 161.3±21.0	122.2-215.3 (13); 173.9±34.9		147.1-255.3 (15); 176.8±32.7	94.9-234.6 (48); 151.1±24.7	151.0-245.6 (11); 192.8±25.3	171.7-316.3 (20); 227.1±28.6
Mulanshan Cave, South China ¹⁰		160.8 (1)			134.1-142.8 (2);	150.1 (1) 138.4±6.2	206.9-241.2 (2); 224.1±24.3
Thum Wiman Nakin, Thailand ¹¹	130.3 (1)	206.8-148.5 (2); 177.7±41.2	82.7 (1)	76.5-123.2 (2); 99.9±33.0			209.3-250.5 (2); 229.9±29.2
Trinil, Java ¹²		163.0 (1)					
Sangiran, Java ¹³						140.8 (1)	169.6-172.4 (2); 171.0±2.0
In this study Batu Caves^	115.7-189.1 (2); 152.4±51.9	198.1(1)	113.0 (1)		141.3 (1)		*260.5 (1)
Lenggong Valley^	119.6 (1)			159.0 (1)	111.6 (1)		*205.0 (1)

Table 3.4, continued

¹ NHM + NL + Hooijer (1948).

² NHM + Hooijer (1948).

³ Badoux (1959).

⁴ Hooijer (1960).

⁵ Hooijer (1948).

⁶ Schwartz *et al.* (1994).

⁷ De Vos & Long (1993).

⁸ Bacon & Long (2001).

⁹ Wang *et al.* (2009).

¹⁰ Zhao *et al.* (2009).

¹¹ Tougard (1998).

¹² Dubois Collection No. 11621, Hooijer (1948).

¹³ Kaifu *et al.* (2001), Aziz & Saefudin (1996).

* The measurements are for the unclassified group (M1+M2+M3)

^ Refer to (Table 3.3) for more details

Note: NHM: Natural History Museum (London), NL: National Museum of Natural History (Leiden).

