

Supplementary Materials for **Planning tiger recovery: Understanding intraspecific variation for effective conservation**

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Table S19. Pairwise comparison between the two tiger subspecies *P. tigris tigris* and *P. tigris sondaica* for the pelage characteristics using the Mann-Whitney *U* test ($n_{tigris} = 89$, $n_{sondaica} = 25$).

Table S20. Pairwise comparison between the two tiger subspecies *P. tigris tigris* and *P. tigris sondaica* for the continuous ecological variables (climate) using the Mann-Whitney *U* test ($n_{tigris} = 428$, $n_{sondaica} = 50$).

Table S21. Pairwise comparison between the two tiger subspecies *P. tigris tigris* and *P. tigris sondaica* for the categorical ecological variables (functional prey groups and functional habitat) using Fisher's exact test ($n_{tigris} = 428$, $n_{sondaica} = 50$).

References (72–87)

Supplementary Materials

Fig S1. Summary of the work flow to predict the historical distribution of tigers.

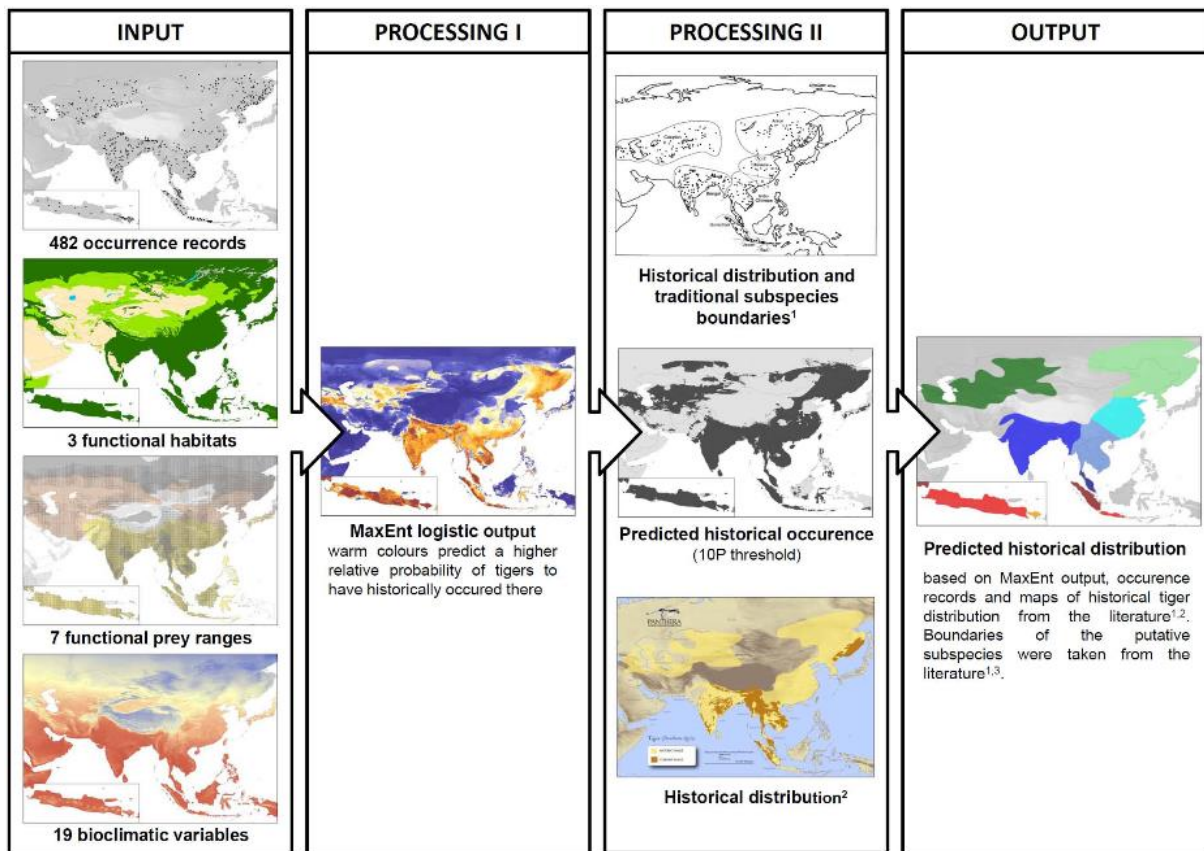


Fig S1. Summary of the work flow to predict the historical distribution of tigers.

Fig S2. Predicted historical distribution of tigers *P. tigris* (top left) and MaxEnt analysis for the nine putative subspecies.

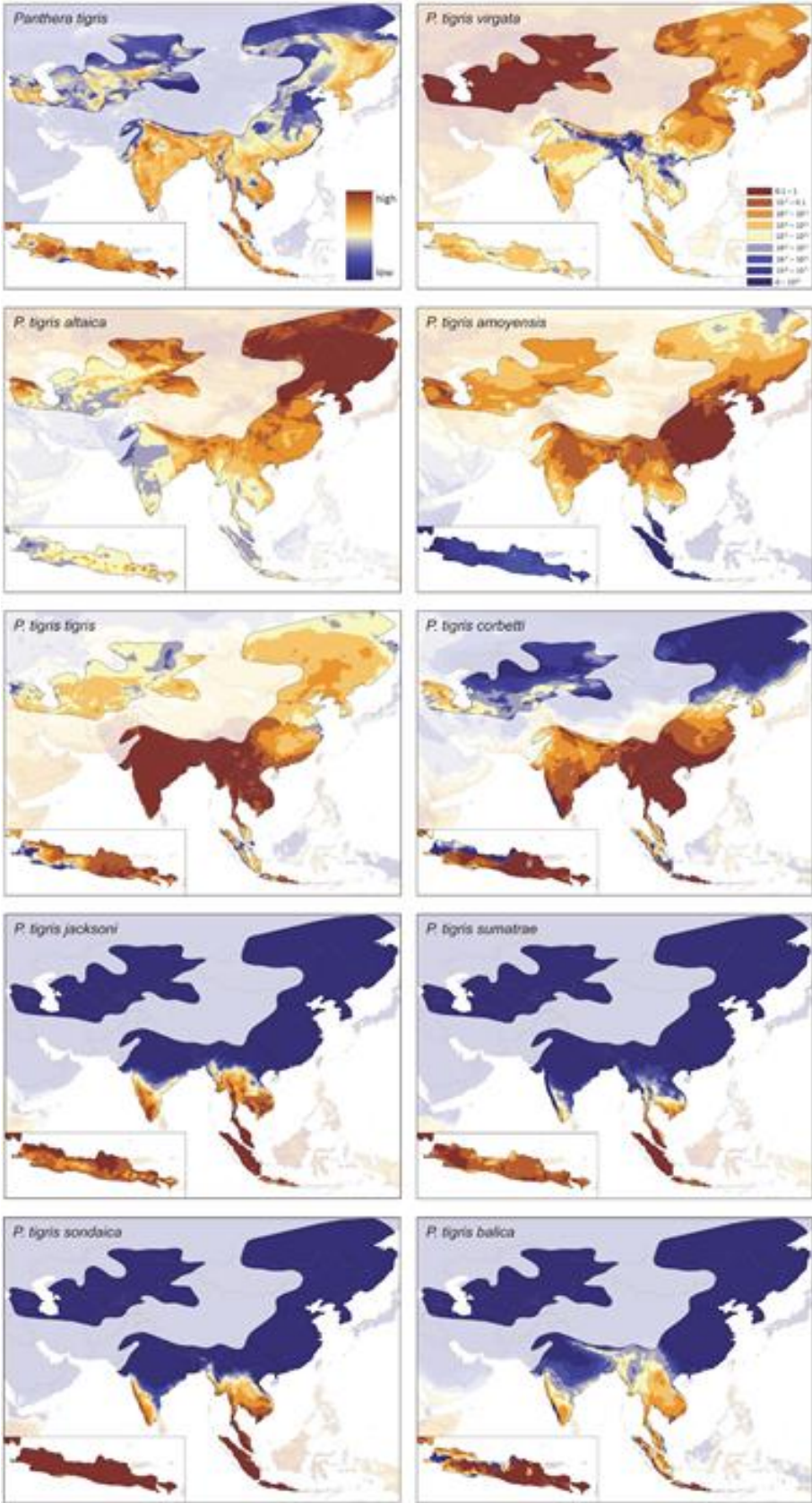


Fig S2. Predicted historical distribution of tigers *P. tigris* (top left) and MaxEnt analysis for the nine putative subspecies. These single models for the putative subspecies formed the basis for the niche similarity analysis using ENMTools.

Fig S3. Phenotypic space across all nine putative subspecies of tigers defined by principal components three and four.

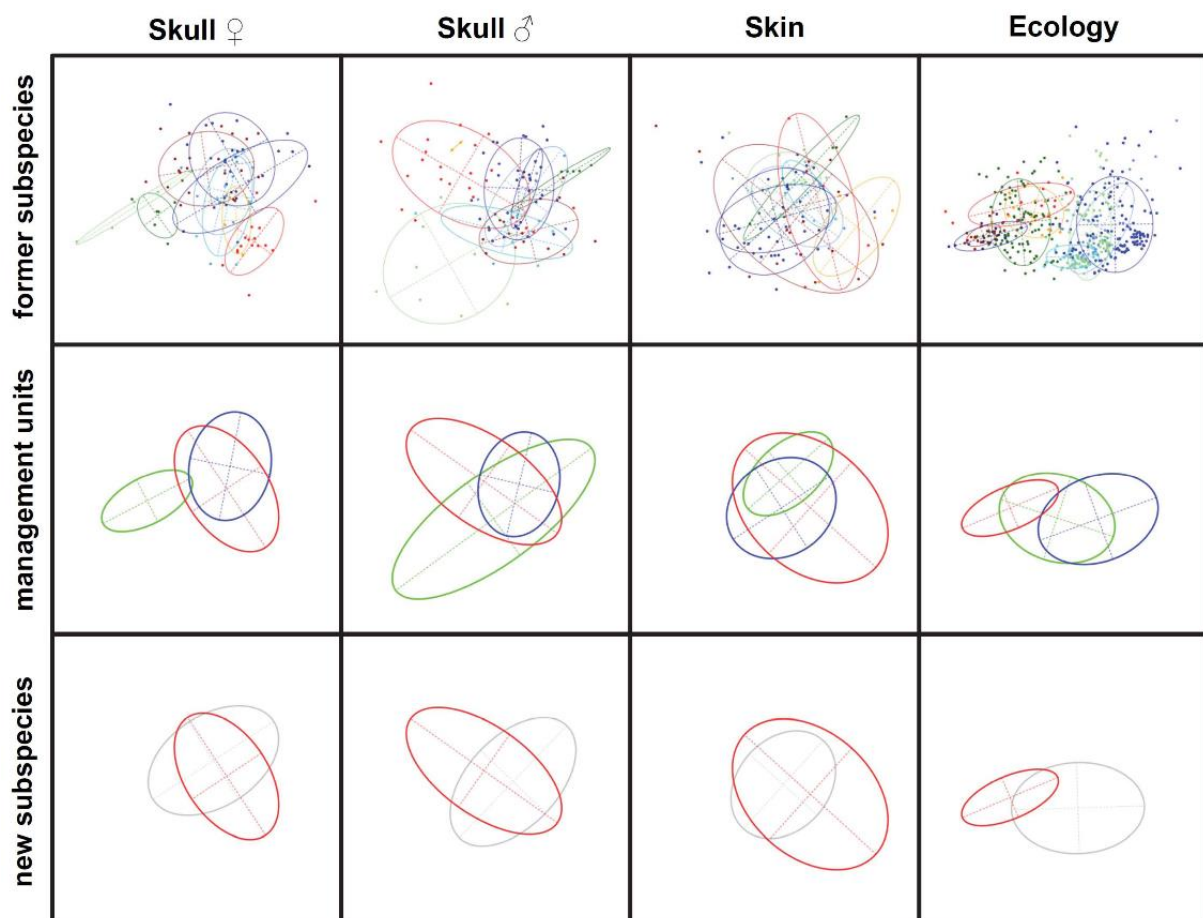


Fig S3. Phenotypic space across all nine putative subspecies of tigers defined by principal components three and four. Multivariate analyses of skull traits (females and males), pelage and ecological preferences depicted as the 1.5 inertia ellipse for all nine former subspecies, for the three management units and for the two new subspecies displayed on the plane defined by principal components three and four.

Fig S4. Comparison of the nine putative tiger subspecies.

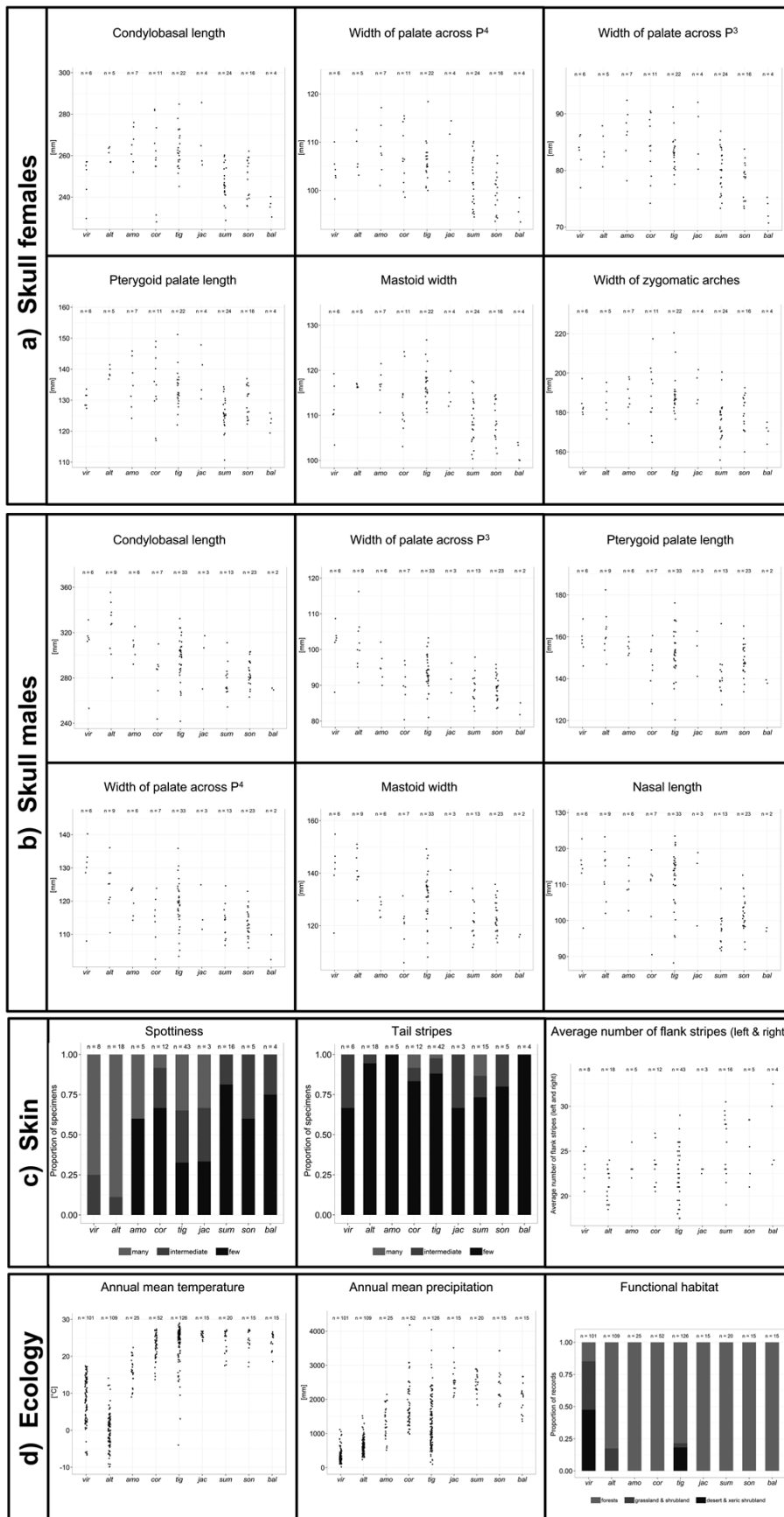


Fig S4. Comparison of the nine putative tiger subspecies. For skull (**a**, females, **b**, males) the raw measures of the six variables which explained most of the variance in the multivariate analyses are shown. For the three most important variables for **c** pelage and **d** ecology categorical and ordinal data are shown as bar charts.

Table S1: Sources and details of male specimens included in the craniodental analysis.

No	Putative subspecies	Institution	Specimen no.	Geographical origin
1	<i>altaica</i>	CN	5698	Knuthenborg Wildlife Park
2	<i>altaica</i>	CN	5687	Knuthenborg Wildlife Park
3	<i>altaica</i>	RMNH	19925	Leipzig Zoo/Blijdorp Diergarde
4	<i>altaica</i>	RMNH	n	Omgering, Vladivostok, 1897
5	<i>altaica</i>	SMF	55557	Weishaho St., East Mandchuria, China
6	<i>altaica</i>	ZMB	15640	Mandchuria, Southern Siberia
7	<i>altaica</i>	ALB ZOO	-	Captive stock, Aalborg Zoo
8	<i>altaica</i>	ALB ZOO	-	Captive stock, Aalborg Zoo
9	<i>altaica</i>	PC coll	-	Cast specimen, PC collection
10	<i>amoyensis</i>	BMNH	8.8.11.19	China
11	<i>amoyensis</i>	BMNH	56037	Hsinganfu, Shinsi, China
12	<i>amoyensis</i>	BMNH	52574	South China/Moscow Zoo
13	<i>amoyensis</i>	AMNH	45519	Fukien Province, Futsing, China
14	<i>amoyensis</i>	AMNH	45520	Fukien Province, Futsing, China
15	<i>amoyensis</i>	BMNH	8.8.11.20	China
16	<i>balica</i>	BMNH	1938.3.14.5	Bali
17	<i>balica</i>	BMNH	1937.12.1.2	Bali
18	<i>corbetti</i>	BMNH	30.1.4.2	Katha District, West Bhamo, Burma
19	<i>corbetti</i>	BMNH	17.7.8.1	Upper Chindwin, Burma
20	<i>corbetti</i>	BMNH	33.7.9.4	Thailand
21	<i>corbetti</i>	BMNH	10.3.10.8	Nhaliang, Vietnam
22	<i>corbetti</i>	BMNH	32.5.2.1	Lower Burma
23	<i>corbetti</i>	MNHN	1992-3	Indochina
24	<i>corbetti</i>	MNHN	1964-247	Bildahur Region, Indochina
25	" <i>jacksoni</i> "	SMF	21239	Southern Thailand, Frankfurt Zoo
26	" <i>jacksoni</i> "	BMNH	21.12.29.1	Malay Peninsula
27	" <i>jacksoni</i> "	BMNH	30.5.22.1	Malay Peninsula
28	<i>sondaica</i>	BMNH	67.4.12.194	Java
29	<i>sondaica</i>	BMNH	67.4.12.192	Java
30	<i>sondaica</i>	BMNH	67.4.12.198	Java
31	<i>sondaica</i>	BMNH	1937.12.1.1	Java
32	<i>sondaica</i>	BMNH	20.11.14.2	Java
33	<i>sondaica</i>	CN	19	Java
34	<i>sondaica</i>	CN	15	Java
35	<i>sondaica</i>	CN	23	Surabaya, Java
36	<i>sondaica</i>	RMNH	235/38	Udjun Kulon, Western Java
37	<i>sondaica</i>	RMNH	23088	South Banjoewangi, Eastern Java

38	<i>sondaica</i>	RMNH	264	Java
39	<i>sondaica</i>	RMNH	d	Java
40	<i>sondaica</i>	RMNH	59/33	Udjun Kulon, Western Java
41	<i>sondaica</i>	RMNH	1929	Java/ Blijdorp Diergarde, Rotterdam
42	<i>sondaica</i>	SMF	16263	Java
43	<i>sondaica</i>	SMF	16264	Java
44	<i>sondaica</i>	SMNS	31901	Java
45	<i>sondaica</i>	SMNS	7628	Java/Hamburg Zoo
46	<i>sondaica</i>	ZMB	56040	Drokja, Java
47	<i>sondaica</i>	ZMB	28793	Java
48	<i>sondaica</i>	ZMB	56039	Java
49	<i>sondaica</i>	ZMB	28794	Java
50	<i>sondaica</i>	ZMB	14365	Java
51	<i>sumatrae</i>	BMNH	39.334	Sumatra
52	<i>sumatrae</i>	BMNH	19.11.12.13	Sumatra
53	<i>sumatrae</i>	RMNH	2174	Deli, Sumatra
54	<i>sumatrae</i>	RMNH	11633	Omgeving, Central Sumatra
55	<i>sumatrae</i>	RMNH	23087	Eastern Sumatra/Blijdorp Diergarde
56	<i>sumatrae</i>	RMNH	38426	Sumatra
57	<i>sumatrae</i>	RMNH	23085	Eastern Sumatra/Blijdorp Diergarde
58	<i>sumatrae</i>	RMNH	3529	Bankinang, Western Sumatra
59	<i>sumatrae</i>	RMNH	4694	Boea, Western Sumatra
60	<i>sumatrae</i>	RMNH	24912	Tandjong Morawa, Deli, Sumatra
61	<i>sumatrae</i>	SMF	16262	Deli, Sumatra
62	<i>sumatrae</i>	ZMB	52482	Medan, Sumatra/Berlin Tierpark
63	<i>sumatrae</i>	ZMB	56050	Central Sumatra
64	<i>tigris</i>	BMNH	82.12.10.1	Bengal, India
65	<i>tigris</i>	BMNH	27.8.8.1	India
66	<i>tigris</i>	BMNH	27.7.18.2	India
67	<i>tigris</i>	BMNH	35.5.7.2	India
68	<i>tigris</i>	BMNH	7.10.18.1	India
69	<i>tigris</i>	BMNH	31.1.10.2	India
70	<i>tigris</i>	BMNH	32.5.7.3	India
71	<i>tigris</i>	BMNH	27.9.17.1	India
72	<i>tigris</i>	BMNH	33.9.7.1	India
73	<i>tigris</i>	BMNH	1938.8.12.5	India
74	<i>tigris</i>	BMNH	61.452	India
75	<i>tigris</i>	BMNH	30.3.2.2	Assam
76	<i>tigris</i>	BMNH	21.6.9.2	Assam
77	<i>tigris</i>	BMNH	58.6.24.120	Nepal
78	<i>tigris</i>	BMNH	30.3.2.3	Assam
79	<i>tigris</i>	BMNH	114b	Nepal
80	<i>tigris</i>	BMNH	45.1.8.28	India
81	<i>tigris</i>	BMNH	21.6.9.1	Bhutan
82	<i>tigris</i>	BMNH	83.10.23.1	Nepal
83	<i>tigris</i>	BMNH	32.4.16.1	Nepal
84	<i>tigris</i>	BMNH	1938.8.12.1	India
85	<i>tigris</i>	BMNH	1849.7.27.4	India
86	<i>tigris</i>	BMNH	1938.8.12.3	India
87	<i>tigris</i>	BMNH	1884.10.30.3	India
88	<i>tigris</i>	CN	772	Maraghat, India

89	<i>tigris</i>	CN	773	Jalpaiguri, India
90	<i>tigris</i>	CN	10	Bengal India
91	<i>tigris</i>	CN	CN774	Jalpaiguri, India
92	<i>tigris</i>	CN	CN21	Assam
93	<i>tigris</i>	SMNS	18921	India
94	<i>tigris</i>	ZMB	56041	India
95	<i>tigris</i>	ZMB	22150	Assam/Berlin Zoo 1915
96	<i>tigris</i>	ZMB	87040	Assam/Berlin Zoo 1915
97	<i>virgata</i>	BMNH	88.8.7.1	Afghanistan
98	<i>virgata</i>	ZMB	12057	Northern Iran/Berlin Zoo
99	<i>virgata</i>	ZML	8679	Uzbekistan
100	<i>virgata</i>	ZML	9387	Kazapa
101	<i>virgata</i>	ZML	33.110	Turkmenistan
102	<i>virgata</i>	ZML	14.977	Turkmenistan

* ALB ZOO: collections at Aalborg Zoo; AMNH: American Museum of Natural History (New York); BMNH: British Natural History Museum (London); CN: Zoological Museum (Copenhagen); MNHN: Museum National d'Histoire Naturelle (Paris); PC coll.: private collection of Per Christiansen; RMNH: National Museum of Natural History (Leiden); SMF: Naturmuseum Senckenberg (Frankfurt); SMNS: Staatliches Museum für Naturkunde (Stuttgart); ZMB: Museum für Naturkunde (Berlin); ZML: Zoological Institute of the Russian Academy of Sciences (St. Petersburg).

Table S2: Sources and details of female specimens included in the craniodental analysis.

No	Putative subspecies	Institution	Specimen no.	Geographical origin
1	<i>altaica</i>	ZMB	68380	Chabarowsk District, Ussuri River
2	<i>altaica</i>	ZMB	56038	Amur
3	<i>altaica</i>	ALB ZOO	-	Captive stock, Aalborg Zoo
4	<i>altaica</i>	ALB ZOO	-	Captive stock, Aalborg Zoo
5	<i>altaica</i>	ALB ZOO	-	Captive stock, Aalborg Zoo
6	<i>amoyensis</i>	BMNH	13.5.1.1	West, China, Szechuan
7	<i>amoyensis</i>	BMNH	7614	Amoy, S.E. China
8	<i>amoyensis</i>	ZMB	56036	Sao Kay, Tonkin, N.E. Vietnam
9	<i>amoyensis</i>	ZMB	56048	Nintschwang, China
10	<i>amoyensis</i>	ZMB	56026	Tonkin, N.E. Vietnam
11	<i>amoyensis</i>	AMNH	47863	Fujian Province, Nanping, China
12	<i>amoyensis</i>	AMNH	45516	China
13	<i>balica</i>	BMNH	1938.3.14.6	Bali
14	<i>balica</i>	SMF	2576	Den Pasar, Southern Bali (holotype)
15	<i>balica</i>	SMNS	18922	Poeloekan, Central Bali
16	<i>balica</i>	SMNS	18923	Medevi, Central Bali
17	<i>corbetti</i>	BMNH	30.1.3.1	Yu River, Upper Chindwin
18	<i>corbetti</i>	BMNH	30.1.4.3	Hangapru, Mergui, Burma
19	<i>corbetti</i>	BMNH	32.5.2.2	Lower Burma
20	<i>corbetti</i>	BMNH	56.5.6.54	Mergui, Burma
21	<i>corbetti</i>	BMNH	32.11.9.1	Thaungyin Valley, Burma
22	<i>corbetti</i>	BMNH	32.8.19.3	Upper Chindwin
23	<i>corbetti</i>	BMNH	32.8.19.1	Upper Chindwin

24	<i>corbetti</i>	CN	3446	Bandon District, South Thailand
25	<i>corbetti</i>	CN	7390	North Thailand
26	<i>corbetti</i>	CN	1371	Thailand
27	<i>corbetti</i>	MNHN	1949-331	Laos
28	" <i>jacksoni</i> "	BMNH	30.5.22.1	Malay Peninsula
29	" <i>jacksoni</i> "	CN	7389	Malaysia ("Malaya")
30	" <i>jacksoni</i> "	USNM	49478	Malaysia
31	" <i>jacksoni</i> "	ZMB	56044	East Malacca
32	<i>sondaica</i>	BMNH	67.4.12.199	Java
33	<i>sondaica</i>	BMNH	1939.1643	Java
34	<i>sondaica</i>	BMNH	67.4.12.200	Java
35	<i>sondaica</i>	BMNH	67.4.12.201	Java
36	<i>sondaica</i>	CN	20	Java
37	<i>sondaica</i>	MNHN	624	Java
38	<i>sondaica</i>	MNHN	A1878	Java
39	<i>sondaica</i>	RMNH	15755	Tjeuri, Java
40	<i>sondaica</i>	RMNH	j	Java
41	<i>sondaica</i>	RMNH	n	Java
42	<i>sondaica</i>	RMNH	4695	Toeloeng Agoeng, Eastern Java
43	<i>sondaica</i>	SMF	16261	Java
44	<i>sondaica</i>	ZMB	7620	Java
45	<i>sondaica</i>	ZMB	56045	Java
46	<i>sondaica</i>	ZMB	14367	Java
47	<i>sondaica</i>	ZMB	14369	Java
48	<i>sumatrae</i>	BMNH	39.335	Sumatra
49	<i>sumatrae</i>	BMNH	47.449	Sumatra
50	<i>sumatrae</i>	BMNH	30.3.3.2	Sumatra
51	<i>sumatrae</i>	BMNH	35.4.6.2	Sumatra
52	<i>sumatrae</i>	BMNH	35.4.6.3	Sumatra
53	<i>sumatrae</i>	BMNH	47.450	Sumatra
54	<i>sumatrae</i>	BMNH	35.4.6.1	Sumatra
55	<i>sumatrae</i>	CN	7391	East Sumatra
56	<i>sumatrae</i>	CN	883	Sumatra
57	<i>sumatrae</i>	RMNH	23089	Northern Sumatra/Blijdorp Diergarde
58	<i>sumatrae</i>	RMNH	g	Padang, Central Sumatra
59	<i>sumatrae</i>	RMNH	872	Painan, Pedang, Western Sumatra
60	<i>sumatrae</i>	RMNH	17655	Pedang, Western Sumatra
61	<i>sumatrae</i>	RMNH	315b	Sumatra
62	<i>sumatrae</i>	RMNH	3319	Sumatra
63	<i>sumatrae</i>	RMNH	315a	Sumatra
64	<i>sumatrae</i>	RMNH	4697	Boea, west coast of Sumatra
65	<i>sumatrae</i>	RMNH	4696	Pajakambo, Padang, Western Sumatra
66	<i>sumatrae</i>	RMNH	2202	Palembang, Southern Sumatra
67	<i>sumatrae</i>	SMF	7021	Bunga-Banda, Sumatra
68	<i>sumatrae</i>	SMF	15735	Sumatra
69	<i>sumatrae</i>	SMF	7020	Bunga-Banda, Sumatra
70	<i>sumatrae</i>	SMF	16265	Sumatra
71	<i>sumatrae</i>	SMF	92259	Sumatra/Frankfurt Zoo
72	<i>tigris</i>	BMNH	10.7.21.1	SW. India
73	<i>tigris</i>	BMNH	78.2456	S. India
74	<i>tigris</i>	BMNH	29.9.23.1	India

75	<i>tigris</i>	BMNH	78.2452	India
76	<i>tigris</i>	BMNH	32.5.7.4	India
77	<i>tigris</i>	BMNH	24.10.5.2	India
78	<i>tigris</i>	BMNH	24.10.5.1	India
79	<i>tigris</i>	BMNH	1938.8.12.4	India
80	<i>tigris</i>	BMNH	34.10.18.1	India
81	<i>tigris</i>	BMNH	83	India
82	<i>tigris</i>	BMNH	114e	Nepal
83	<i>tigris</i>	BMNH	58.6.24.122	Nepal
84	<i>tigris</i>	BMNH	32.4.16.3	Nepal
85	<i>tigris</i>	BMNH	32.4.16.2	Nepal
86	<i>tigris</i>	BMNH	46.829	India
87	<i>tigris</i>	CN	11	Bengal, India
88	<i>tigris</i>	CN	969	India, Copenhagen Zoo
89	<i>tigris</i>	CPH ZOO	-	Captive stock, Copenhagen Zoo
90	<i>tigris</i>	MNHN	624B	Bengal, India
91	<i>tigris</i>	SMNS	6870	India
92	<i>tigris</i>	ALB ZOO	-	Captive stock, Aalborg Zoo
93	<i>tigris</i>	PC coll	-	Cast specimen, PC collection
94	<i>virgata</i>	BMNH	82.11.3.1	Northern Iran
95	<i>virgata</i>	BMNH	86.10.15.1	Afghanistan
96	<i>virgata</i>	ZMB	12413	Northern Iran/Berlin Zoo
97	<i>virgata</i>	ZMB	13138	Petrowsk-Surdaya, Turkestan/Berlin Zoo
98	<i>virgata</i>	ZML	No nr	Turmenistan
99	<i>virgata</i>	ZML	No nr	Uzbekistan

* See Table S1 and CPH ZOO: collections at Copenhagen Zoo; USNM: US National Museum of Natural History (Smithsonian Institution, Washington DC).

Table S3: The 41 craniodental characters and their contribution to the first four principal components. Values with very high loadings are marked in bold and with high loadings in italic.

No	Character	PC 1		PC2		PC3		PC4	
		♀	♂	♀	♂	♀	♂	♀	♂
1	Condylbasal length	-0.921	-0.940	-0.081	-0.025	0.076	-0.049	0.005	-0.098
2	Posterior length	-0.583	-0.395	-0.205	-0.154	0.185	0.113	-0.125	-0.461
3	Facial length	<i>-0.700</i>	<i>-0.700</i>	0.150	-0.304	0.172	-0.262	0.369	-0.080
4	Upper canine width	-0.662	-0.694	0.079	-0.207	0.420	-0.327	0.138	-0.092
5	Height variable A ^a	-0.674	<i>-0.714</i>	0.048	-0.295	0.169	-0.275	0.046	-0.006
6	Height variable B ^b	<i>-0.712</i>	-0.658	-0.083	-0.340	0.091	0.102	0.372	0.149
7	Height variable C ^c	<i>-0.712</i>	-0.548	-0.110	-0.437	-0.058	0.161	0.364	0.009
8	Height variable D ^d	<i>-0.784</i>	<i>-0.782</i>	-0.330	-0.319	0.192	-0.033	0.110	-0.217
9	Zygomatic width ^e	-0.636	-0.447	-0.199	-0.412	-0.024	-0.230	0.016	-0.482
10	Nasal width ^f	<i>-0.717</i>	-0.652	-0.188	-0.452	-0.370	0.115	-0.123	-0.009
11	Nasal width ^g	-0.543	-0.468	-0.435	-0.397	-0.356	0.577	0.290	0.208
12	Width of muzzle	<i>-0.779</i>	<i>-0.777</i>	-0.203	-0.249	0.122	-0.280	-0.144	-0.130
13	Interorbital width	<i>-0.799</i>	<i>-0.758</i>	-0.424	-0.496	-0.160	0.150	-0.091	0.200

14	Postorbital width	-0.588	-0.631	-0.491	-0.460	-0.427	0.155	-0.100	0.170
15	Postorbital constriction	-0.607	-0.488	-0.309	-0.302	-0.184	0.398	-0.030	0.166
16	Braincase width	-0.732	-0.646	-0.133	-0.255	0.212	0.088	-0.271	0.398
17	Nasal length	-0.823	-0.883	-0.246	-0.079	0.094	0.108	0.162	0.097
18	Pterygoid palate length	-0.873	-0.904	0.009	0.023	0.006	-0.179	-0.191	0.063
19	Ventral posterior length	-0.788	-0.872	-0.187	0.012	0.054	0.189	0.057	-0.089
20	Width of incisors	-0.575	-0.637	0.091	0.286	0.051	-0.235	-0.497	0.304
21	Width between canines	-0.773	-0.881	-0.353	0.037	-0.118	-0.140	-0.143	-0.012
22	Width of palate across P ³	-0.912	-0.912	-0.060	0.088	-0.100	-0.080	-0.007	-0.109
23	Width of palate across P ⁴	-0.914	-0.890	0.030	0.120	-0.068	0.038	-0.018	0.043
24	Pterygoid palate width	-0.575	-0.565	-0.196	0.065	0.188	-0.476	-0.393	0.422
25	Width of zygomatic arches	-0.840	-0.855	-0.265	-0.229	-0.027	-0.129	-0.203	0.231
26	Mastoid width	-0.844	-0.890	-0.163	-0.030	-0.049	-0.038	0.024	0.060
27	Occipital condyle width	-0.663	-0.586	-0.008	0.241	-0.115	0.126	0.032	0.181
28	Canine height	-0.710	-0.738	-0.096	-0.178	0.300	0.168	0.212	0.053
29	Length of P ³	-0.763	-0.845	0.507	0.338	-0.205	-0.025	0.038	-0.209
30	P ³ metacone length	-0.550	-0.460	0.363	-0.169	-0.189	0.008	0.149	-0.496
31	P ³ paracone length	-0.557	-0.643	0.509	0.291	-0.250	-0.014	0.064	-0.334
32	P ³ parastyle length	-0.306	-0.595	0.408	0.457	-0.381	-0.008	-0.190	0.017
33	Width of P ³ at paracone	-0.572	-0.715	0.519	0.459	-0.156	-0.144	-0.196	-0.138
34	Width of P ³ at metacone	-0.652	-0.788	0.523	0.371	-0.134	-0.064	-0.205	-0.117
35	Length of P ⁴	-0.781	-0.710	0.412	0.491	0.045	0.283	0.134	-0.079
36	P ⁴ metastyle length	-0.474	-0.557	0.372	0.522	0.155	0.227	0.053	-0.029
37	P ⁴ paracone length	-0.744	-0.637	0.439	0.363	0.164	0.002	-0.060	-0.025
38	P ⁴ parastyle length	-0.351	-0.306	0.471	0.451	-0.426	0.595	0.298	-0.044
39	Width of P ⁴ protocone	-0.414	-0.563	0.017	0.341	0.133	0.486	0.504	-0.094
40	Width of P ⁴ at protocone	-0.574	-0.441	0.386	0.569	0.427	-0.294	-0.189	0.313
41	Width of P ⁴ at paracone	-0.579	-0.542	0.436	0.503	0.127	-0.091	-0.106	0.161
Percentage of variance		48.0	48.2	9.4	10.9	4.5	5.6	4.4	4.5
(Total PC 1-4: ♀ = 66.2; ♂ = 69.1)									

^a A: Height of narial aperture from ventral part of I³ alveolus to ventral part of nasal; ^b B: Dorsoventral height of snout, taken just posterior to C¹; ^c C: Dorsoventral height of cranium taken at P³/P⁴; ^d D: Dorsoventral height of cranium taken at pterygoid; ^e Height of anterior part of zygomatic arch at jugal/maxilla junction; ^f Width across nasals at narial aperture; ^g Width across nasals at maxilla/frontal suture.

Table S4: Sources and details of the specimens or photographs included in the pelage analysis.

No	Putative subspecies	Institution [§]	Specimen no.	Geographical origin
1	<i>altaica</i>	BMNH	70.2.10.1	Manchuria
2	<i>altaica</i>	RMNH	19925	Captive Leipzig
3	<i>altaica</i>	RMNH	k	Nord-est de l'Asie environs de Vladivostock
4	<i>altaica</i> type	RMNH	13/f	Corai
5	<i>altaica</i>	CN	CN5698	Zoo
6	<i>altaica</i>	CN	CN5697	Zoo
7	<i>altaica</i>	NMS	Z.2001.49	Vostok II, Krasnoyarmeysky Raion, Primorsky Krai, Russia
8	<i>altaica</i>	*	-	Amur-Ussuri Region
9	<i>altaica</i>	ZMM*	S50146	L tributary C Amur
10	<i>altaica</i>	ZIASSP*	3029	Sidemi River, S Ussuri region
11	<i>altaica</i>	ZIASSP*	2980	C Amur
12	<i>altaica</i>	ZMM*	S55281	Khabarovsk region
13	<i>altaica</i>	ZMM*	S55280	Khabarovsk region
14	<i>altaica</i>	ZMM*	S55279	Khabarovsk region
15	<i>altaica</i>	ZMM*	S29654	Amur
16	<i>altaica</i>	ZMM*	S55284	Khabarovsk region
17	<i>altaica</i>	ZMM*	S29664	Khar River tributary of Pikhtsy, tributary of Amur River
18	<i>altaica</i>	ZMB	68380	Khabarovsk region
19	<i>amoyensis</i>	ZMB	52574	South China
20	<i>amoyensis</i>			Fuzhou
21	<i>amoyensis</i>			Unknown
22	<i>amoyensis</i>			Qinlin, Shanxi
23	<i>amoyensis</i>			Zhejiang
24	<i>balica</i>	BMNH	1938.3.14.5	Bali
25	<i>balica</i>	BMNH	1937.12.1.2	Sandang, Bali
26	<i>balica</i>	RMNH	26135	Sendang, Bali
27	<i>balica</i>	MZB	6834	Bali
28	<i>corbetti</i> holotype	BMNH	33.4.1.203	Luangtri, Annam
29	<i>corbetti</i>	BMNH	33.4.1.204	Laobao, Annam
30	<i>corbetti</i>	BMNH	32.11.9.1	Thaungyiu Valley, Amherst, Burma
31	<i>corbetti</i>	BMNH	71.2464	Thailand
32	<i>corbetti</i>	BMNH	50.503	Sumprabum, Upper Burma
33	<i>corbetti</i>	Photo	confiscated	Thailand3
34	<i>corbetti</i>	Photo	confiscated	Thailand1
35	<i>corbetti</i>	Photo	confiscated	Thailand2
36	<i>corbetti</i>	ZMB	56034	Tonkin, China
37	<i>corbetti</i>	ZMB	56028	Tonkin, China
38	<i>corbetti</i>	ZMB	56026	Tonkin, China
39	<i>corbetti</i>	RMNH	16774	Siam
40	“ <i>jacksoni</i> ”	BMNH	1937.1.2.1	Perak, Federal Malay States

41	<i>"jacksoni"</i>	BMNH	51.755	Takau Estate, Rantau, Federal Malay States
42	<i>"jacksoni"</i>	BMNH	50.31	Federal Malay States
43	<i>sondaica</i> lectotype	RMNH	39216/c.	Partie occid. de Java
44	<i>sondaica</i>	RMNH	1929	Java
45	<i>sondaica</i>	ZMB	3387	Java
46	<i>sondaica</i>	MZB	6033	Blita, West Java
47	<i>sondaica</i>	Private		Java
48	<i>sumatrae</i> holotype	BMNH	12.11.10.1	Deli, Sumatra
49	<i>sumatrae</i>	RMNH	925	Deli, Sumatra
50	<i>sumatrae</i>	BMNH	35.4.6.1	Laboen Matingsi, S Sumatra
51	<i>sumatrae</i>	BMNH	35.4.6.2	Laboen Maringsi, S Sumatra
52	<i>sumatrae</i>	BMNH	35.4.6.3	Kota Boeni, S Sumatra
53	<i>sumatrae</i>	BMNH	50.30	Sumatra
54	<i>sumatrae</i>	BMNH	39.335	Korinchi, Sumatra
55	<i>sumatrae</i>	BMNH	39.334	Bencoolen, SW Sumatra
56	<i>sumatrae</i>	RMNH	unreg. (400 no.14)	Sumatra
57	<i>sumatrae</i>	RMNH	17655	Padang, Sumatra
58	<i>sumatrae</i>	RMNH	unreg. (7046)	Sumatra
59	<i>sumatrae</i>	RMNH	24912	Tandjung Morawa, Deli, Sumatra
60	<i>sumatrae</i>	RMNH	e	Atjeh, Sumatra
61	<i>sumatrae</i>	ZMB	56033	Medan, Sumatra
62	<i>sumatrae</i>	ZMB	56035	Central Sumatra
63	<i>sumatrae</i>	MZB	6827	Hatam Tegimamam, Sumatra
64	<i>tigris</i>	BMNH	1938.8.12.4	Kathiawar, Pal, N India
65	<i>tigris</i>	NMS	unregistered	India
66	<i>tigris</i>	BMNH	34.11.28.1	near Mercara, Coorg, S India
67	<i>tigris</i>	BMNH	1938.8.12.7	Damoh, C. Provinces, C. India
68	<i>tigris</i>	BMNH	1939.1643	C India
69	<i>tigris</i>	BMNH	42.8.6.5	Deccan, S india
70	<i>tigris</i>	BMNH	32.3.2.1	Travancore, S India
71	<i>tigris</i>	BMNH	1983.307	Seoni, C. Provinces, India
72	<i>tigris</i>	BMNH	82.12.10.1	Bengal, N India
73	<i>tigris</i>	BMNH	1938.8.12.6	Ghodasgaou, E india
74	<i>tigris</i>	BMNH	24.10.5.2	Palaman, E India
75	<i>tigris</i>	BMNH	30.10.14.1	C India
76	<i>tigris</i>	BMNH	32.4.16.1	Nepal Terai
77	<i>tigris</i>	NMS	Z.1961.62.Mc Neil 972	India
78	<i>tigris</i>	RMNH	45	Bengale
79	<i>tigris</i>	BMNH	2007.355	Assam
80	<i>tigris</i>	BMNH	1938.8.12.2	Motipur
81	<i>tigris</i>	BMNH	24.10.5.1	Palamau, Chota Nagpur
82	<i>tigris</i>	BMNH	1938.8.12.1	Sohelwa=Sohela
83	<i>tigris</i>	BMNH	42.1	Gaya, Bihar
84	<i>tigris</i>	BMNH	29.9.6.1	Sohagpur, Rewa state
85	<i>tigris</i>	BMNH	78.2440	Kakartulla, Jubbelpore
86	<i>tigris</i>	BMNH	0.10.27.1	Mirzapore

87	<i>tigris</i>	BMNH	7.10.18.2	Pennghot, Mirzapore, UP
88	<i>tigris</i>	BMNH	33.9.7.1	Kotah state, Rajputana
89	<i>tigris</i>	BMNH	31.1.6.2	UP, India
90	<i>tigris</i>	BMNH	32.5.7.5	Nepal Terai, UP, India
91	<i>tigris</i>	BMNH	82.950	Bangladesh
92	<i>tigris</i>	BMNH	70.1014	Terai Jungles, Bahraich, UP
93	<i>tigris</i>	BMNH	70.1015	Terai Jungles, Bahraich, UP
94	<i>tigris</i>	BMNH	1938.8.12.5	Katernian Ghat
95	<i>tigris</i>	BMNH	1998.370	Peshawar, NWFP, India
96	<i>tigris</i>	BMNH	1998.372	Peshawar, NWFP, India
97	<i>tigris</i>	BMNH	28.10.30.1	Danta, Mahikanta, Gujerat
98	<i>tigris</i>	BMNH	49.398	South India
99	<i>tigris</i>	BMNH	39.311	Godavery River, CP
100	<i>tigris</i>	BMNH	32.5.7.4	Balaghat District, CP
101	<i>tigris</i>	BMNH	32.5.7.2	Raipur District, CP
102	<i>tigris</i>	BMNH	49.397	Sankos River, S of Bhutan
103	<i>tigris</i>	RZSS	Rajah	Edinburgh Zoo 1964
104	<i>tigris</i>	RZSS	Ranee	Edinburgh Zoo 1964
105	<i>tigris</i>	NMS	Z.2000.147	Sada River, India
106	<i>tigris</i>	ZMB	66394	Assam
107	<i>virgata</i>	BMNH	7.7.5.1	N slopes of Mt Elburz
108	<i>virgata</i>	BMNH	1886.10.15.1	Karaol Khana on Bala Murghab R N of Heart, Afghanistan
109	<i>virgata</i>	ZIASSP*	3027	Kirgiz Steppe, prob. Semirech'e
110	<i>virgata</i>	ZMM*	S33151	Lower Ili, 250km Nof
111	<i>virgata</i>	ZIASSP*	2983	Lobnor, e turkestan
112	<i>virgata</i>	ZIASSP*	8679	Ferghana
113	<i>virgata</i>	ZIASSP*	2981	Turkestan
114	<i>virgata</i>	ZMM*	S52871	Upper Pyandzh, Tadjikistan

[§] see table S1 and S2 and MZB (Museum Zoologicum Bogoriense, Indonesia); NMS (National Museums Scotland); RZSS (Royal Zoological Society of Scotland photos); ZIASSP (Zoological Institute, Academy of Sciences, St Petersburg); ZMM (Zoological Museum, Moscow State University).

* from photos in Heptner and Sludskii (72).

Table S5: Means and SDs for the six pelage characters across the nine putative subspecies.

Putative subspecies	Flank stripes		Tail stripes*		Spots*		Stripe thickness*		Stripes on quarters*		Loops on flanks*	
	N	Mean ± SD	N	Mean ± SD	N	Mean ± SD	N	Mean ± SD	N	Mean ± SD	N	Mean ± SD
<i>altaica</i>	18	21.25 ±1.76	18	1.06 ±0.24	18	2.89 ±0.32	18	1.67 ±0.84	18	1.33 ±0.49	18	1.39 ±0.70
<i>amoyensis</i>	5	23.40 ±1.52	5	1 NA	5	1.8 ±1.10	5	2 NA	5	1 NA	5	1.4 ±0.89
<i>balica</i>	4	27.50 ±4.45	4	1.00 NA	4	1.25 ±0.50	4	1.00 NA	4	2.00 ±1.15	4	1.50 ±1.00
<i>corbetti</i>	11	23.18 ±2.15	11	1.27 ±0.65	11	1.45 ±0.69	11	1.64 ±0.81	11	1.64 ±0.67	11	1.64 ±0.67
<i>jacksoni</i>	3	22.83 ±0.29	3	1.33 ±0.58	3	2.00 ±1.00	3	1.67 ±1.15	3	2.33 ±0.58	3	1.67 ±1.15
<i>sondaica</i>	5	25.2 ±3.42	5	1.20 ±0.45	5	1.40 ±0.55	5	1.40 ±0.55	5	1.80 ±0.84	5	2.00 ±1.00
<i>sumatrae</i>	17	25.41 ±3.32	16	1.38 ±0.72	17	1.18 ±0.39	17	1.88 ±0.70	17	2.12 ±0.78	17	1.88 ±0.99
<i>tigris</i>	43	22.19 ±2.73	43	1.14 ±0.42	43	2.02 ±0.83	43	2.05 ±0.82	43	2.09 ±0.81	43	1.53 ±0.63
<i>virgata</i>	8	24.00 ±2.20	6	1.33 ±0.52	8	2.75 ±0.46	8	1.13 ±0.35	8	1.88 ±0.83	8	1.88 ±0.64

* measured in a semi-quantative scale.

Table S6: The six pelage characters and their contribution to the first four principal components. Values with high loadings are marked in italic.

No	Character	PC 1	PC2	PC3	PC4
1	Average number of flank stripes (left and right)	-0.535	-0.401	0.548	0.040
2	Tail stripes	-0.611	-0.101	-0.549	0.255
3	Spottiness	<i>0.703</i>	0.110	-0.213	0.388
4	Stripe thickness	-0.014	-0.689	-0.553	-0.119
5	Stripes on quarters	-0.228	0.553	-0.271	-0.665
6	Loops on flanks	-0.455	0.522	-0.084	0.546
Percentage of variance (Total PC 1-4 = 77.5)		23.5	22.4	16.2	15.5

Table S7: Number of occurrence records including the references for each of the nine putative subspecies used for the PCA and for the species distribution modeling (see Materials and Methods for details).

Reference	VIR	ALT	AMO	COR	TIG	JAC	SUM	SON	BAL
Kitchener & Dugmore (13) based on Mazak (43)	101	106	25	49	128	12	15	10	1
Added occurrence records from the Tiger Conservation Landscapes (3)	-	6	-	2	-	3	5	-	-
Added occurrence records from localities of museum specimens (73)	-	-	-	-	-	-	-	2	5
randomly added points within their former distribution	-	-	-	-	-	-	-	3	9
Total = 482	101	112	25	51	128	15	20	15	15

Table S8: Definitions of the four functional habitats and the eco-regions assigned to them.

Functional habitat	comprising the following eco-regions
forest	Tropical and subtropical moist broadleaf forests; Tropical and subtropical dry broadleaf forests; Tropical and subtropical coniferous forests; Temperate broadleaf and mixed forests; Temperate Coniferous Forests; Boreal forests/taiga; Mediterranean forests, Woodlands and scrub; Mangroves
grasslands & shrublands	Tropical and subtropical grasslands, savannas and shrublands; Temperate grasslands, savannas, and shrublands; Flooded grasslands and savannas; Montane grasslands and shrublands
deserts and xeric shrublands	Deserts and xeric shrublands

Table S9: List of the tiger prey species. Prey species were grouped into seven functional groups.

Prey group	Genera
Very large ruminant	<i>Alces</i> (43, 74) <i>Bos</i> (43, 75–79)
Small ruminant	<i>Capreolus</i> (43, 74) <i>Moschus</i> (43, 74) <i>Muntiacus</i> (43, 75, 77–81)
Medium ruminant	<i>Axis</i> (43, 75, 76, 78, 82, 83) <i>Capricornis</i> (74, 77, 81) <i>Cervus</i> (43, 74) <i>Rucervus</i> (43, 76) <i>Rusa</i> (43, 75–83)
Primates	<i>Macaca</i> (76, 77, 80) <i>Semnopithecus</i> (75, 78, 83, 84)
Small difficult-to-catch mammals	<i>Arctonyx</i> (77) <i>Hystrix</i> (75, 77, 80, 81)
Pigs	<i>Sus</i> (75–81, 83)
Small mammals	<i>Lepus</i> (43, 75, 78)

Table S10: The 29 ecological variables and their contribution to the first four principal components. The functional prey groups (variables 20 – 26) are defined in Table S9; the functional habitats (variables 27 – 29) are defined in Table S8. Values with very high loadings are marked in bold and with high loadings in italic.

No	Covariates	PC 1	PC2	PC3	PC4
Continuous variables					
1	Annual mean temperature	0.904	0.407	0.033	-0.071
2	Mean diurnal range	-0.479	0.455	0.095	0.227
3	Isothermality [§]	0.860	-0.121	-0.249	0.046
4	Temperature seasonality [#]	-0.953	-0.089	0.040	-0.006
5	Max. temperature of warmest month	0.481	<i>0.791</i>	0.062	-0.116
6	Min. temperature of coldest month	0.950	0.266	-0.056	-0.053
7	Temperature annual range [†]	-0.954	0.019	0.095	0.015
8	Mean temperature of wettest quarter [‡]	0.690	0.102	0.432	-0.253
9	Mean temperature of driest quarter [‡]	<i>0.772</i>	0.524	-0.228	0.048
10	Mean temperature of warmest quarter [‡]	0.646	0.670	0.076	-0.142
11	Mean temperature of coldest quarter [‡]	0.944	0.297	-0.005	-0.043
12	Annual precipitation	<i>0.839</i>	-0.443	0.100	0.193
13	Precipitation of wettest month	<i>0.725</i>	-0.233	0.448	0.317
14	Precipitation of driest month	0.532	-0.519	-0.533	-0.153
15	Precipitation seasonality [†]	-0.016	0.427	<i>0.759</i>	0.214
16	Precipitation of wettest quarter [‡]	<i>0.754</i>	-0.263	0.425	0.319
17	Precipitation of driest quarter [‡]	0.575	-0.524	-0.507	-0.126
18	Precipitation of warmest quarter [‡]	0.489	-0.563	0.262	0.279
19	Precipitation of coldest quarter [‡]	0.545	-0.369	-0.502	-0.063
Categorical variables					
20	Very large ruminant absent	0.619	0.505	-0.360	0.105
20	Very large ruminant present	-1.526	-1.245	0.887	-0.258
21	Small ruminant absent	-2.205	3.085	-2.253	0.935
21	Small ruminant present	0.341	-0.477	0.348	-0.144
22	Medium ruminant absent	3.589	-1.276	-1.125	0.803
22	Medium ruminant present	-1.086	0.386	0.340	-0.243
23	Primates absent	-2.807	-0.519	0.137	0.005
23	Primates present	2.257	0.417	-0.110	-0.004
24	Small difficult to catch mammals absent	-3.427	-0.227	-0.519	0.003
24	Small difficult to catch mammals present	2.850	0.189	0.432	-0.002
25	Pigs absent	-2.964	-0.806	0.919	1.499
25	Pigs present	0.271	0.074	-0.084	-0.137
26	Small mammals absent	-0.922	1.311	-1.901	0.773
26	Small mammals present	0.279	-0.396	0.575	-0.234
27	Forest	0.950	-0.608	0.441	-0.123
28	Grasslands & shrublands	-3.688	-0.152	-0.541	0.287
29	Deserts & xeric shrublands	-1.459	3.093	-1.684	0.353
Percentage of variance		43.4	16.2	11.6	4.3
(Total PC 1-4 = 75.6)					

[§](Mean diurnal range/ temperature annual range)*100; [#]standard deviation of annual mean temperature *100; [†]Max. temperature/precipitation of warmest/wettest month - Min. temperature/precipitation of coldest/driest month; [‡]period of three months

Table S11: Simulation of bootstrap values of nodes pooling two, three, or four putative subspecies in the neighbor-joining tree. Subspecies were permuted in the Euclidean distance matrices for each of 1000 bootstrap runs the mean, median and 95 % confidence intervals (CI) were calculated.

Character	No of pooled "subspecies"	No of pooled		
		2	3	4
Skull ♂	Mean	7	2	1
	Median	6	2	1
	95%CI low	2	1	0
	95%CI high	23	5	2
Skull ♀	Mean	7	2	1
	Median	6	2	1
	95%CI low	3	1	0
	95%CI high	13	4	2
Skin	Mean	8	2	1
	Median	7	2	1
	95%CI low	2	0	0
	95%CI high	17	5	2
Ecology	Mean	7	2	1
	Median	6	1	1
	95%CI low	2	1	0
	95%CI high	17	4	3

Table S12: Niche overlap between putative subspecies as computed by ENMTools.

I \ D*	VIR	ALT	AMO	COR	TIG	JAC	SUM	SON	BAL
VIR	-	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00
ALT	0.19	-	0.06	0.00	0.01	0.00	0.00	0.00	0.00
AMO	0.19	0.21	-	0.23	0.07	0.00	0.00	0.00	0.00
COR	0.01	0.03	0.45	-	<i>0.34</i>	0.21	0.01	0.16	0.22
TIG	0.03	0.07	0.26	<i>0.64</i>	-	0.05	0.00	0.02	0.05
JAC	0.01	0.00	0.00	0.33	0.11	-	0.62	<i>0.38</i>	0.22
SUM	0.01	0.00	0.00	0.06	0.01	0.86	-	0.57	<i>0.29</i>
SON	0.00	0.00	0.00	0.34	0.08	<i>0.71</i>	0.82	-	0.58
BAL	0.00	0.00	0.00	0.41	0.12	0.40	<i>0.55</i>	0.80	-

* bold numbers indicate a very high niche overlap ($I > 0.75$ and $D > 0.5$) and italic numbers indicate high niche overlap ($I > 0.5$ and $D > 0.25$)

Table S13: Sources and details of specimens included in the molecular analysis in addition to the sequences from Luo *et al.* (8), Driscoll *et al.* (16), and GenBank accession no. JF357969 (11) (SUM9).

No	Haplotype	Museum*	Specimen No	Geographical origin
1	BAL1	ZMH	S9350	Bali
2	BAL2	SMNS	18923	Bali, Medewi
3	BAL2	SMNS	18922	Bali, Poeloekan
4	SON1	MTD	B16443	Java
5	SON2	ZMB	14367	Java
6	SON2	ZMB	56039	Java
7	SON3	ZMB	3387	Java
8	SON3	ZMB	14365	Java
9	SON3	ZMB	14369	Java
10	SON3	ZMB	28793	Java
11	SON3	IRSNB	908C	Java
12	SON3	IRSNB	908B	Java
13	SON4	ZMB	14366	Java
14	SON5	ZMB	56042	Java
15	SON6	IRSNB	907F	Java

* see Table S1, S2 and S4 and ZMH: Zoological Museum Hamburg; MTD: Senckenberg Naturhistorische Sammlungen, Dresden; IRSNB: Institut Royal des Sciences Naturelles de Belgique, Brussels.

Table S14: Details of mitochondrial primer sets used in addition to the eight primer sets described by Driscoll *et al.* (16).

Name	Sequence
PTI-cytb-1-F	ATGCACGTAGGACGAGGAAT
PTI-cytb-1-R	TTTGGCCTCATGGTAAGACA
PTI-ND1-1-F	TTATTTTTTCGGAGCATTCCA
PTI-ND1-1-R	TCATAGGAGGTGCATTAATTGG
PTI-ND5-2-F	CAACTCCCTAAGCCCAATCA
PTI-ND5-2-R	CCACGAGGTTAAGCTCTAATGC
PTI-12S-1-F	CCCTAAACCTAGATAGTTAACCCAAA
PTI-12S-1-R	AAGATACTTGTGCTTACTTTTCTTCC

Table S15. Population summary statistics calculated for the short and long mtDNA data sets.

Group	Dataset	N	S	H	Hd	π	tD	D*	F*	Fs
<i>Panthera tigris</i>	1772bp	121	36	23	0.892 (0.018)	0.00342 (0.00011)	-0.292	0.537	0.242	-1.68
<i>Panthera tigris</i> – AMO1	1772bp	119	31	22	0.888 (0.018)	0.00336 (0.00011)	0.083	0.285	0.245	-1.367
Continental tigers – AMO1	1772bp	87	16	11	0.807 (0.029)	0.00266 (0.00012)	1.377	1.618*	1.82*	2.272
Sunda tigers	1772bp	32	13	13	0.869 (0.036)	0.00132 (0.00017)	-0.904	-1.200	-1.299	-3.251
<i>Panthera tigris</i>	3968bp	121	58	31	0.930 (0.011)	0.00251 (0.00005)	-0.246	-0.022	-0.140	-1.812
<i>Panthera tigris</i> – AMO1	3968bp	119	51	30	0.927 (0.012)	0.00247 (0.00005)	0.089	-0.322	-0.182	-1.571
Continental tigers – AMO1	3968bp	87	58	31	0.930 (0.011)	0.00251 (0.00005)	-0.246	-0.022	-0.140	-1.812
Sunda tigers	3968bp	32	16	12	0.885 (0.032)	0.00065 (0.00009)	-1.177	-1.491	-1.635	-3.757

N: Number of individuals; S: Number of Polymorphic Sites. H: Number of haplotypes. Hd: haplotype diversity (SD); π : Nucleotide diversity(SD); tD: Tajima's D. D*: Fu and Li's D* test. F*: Fu and Li F* test Statistics. Fs: Fu's Fs Statistics. *: significant at the 5% level.

Table S16. Nucleotide diversity of pantherine cats.

Species	N	mtDNA loci	Length [bp]	π	Reference
<i>Panthera tigris</i>	121	multiple	1772	0.00342 (0.00011)	this study
<i>Panthera tigris</i>	121	multiple	3986	0.00251 (0.00005)	this study
<i>Panthera onca</i>	37	Control region	715	0.00771 (0.0001)	(85)
<i>Panthera pardus</i>	69	ND5 & Control region	611	0.0121 (0.0062)	(86)
<i>Panthera leo</i>	357	12S & 16S	1882	0.0066	(87)
<i>Neofelis nebulosa</i>	58	ATPase8, Cytb & Control region	849	- 0.00057 (0.00055)	(26)
<i>Neofelis diardi</i>	31	ATPase8, Cytb & Control region	846	0.0037 (0.00219)	(26)

N: Number of individuals; π : Nucleotide diversity(SD).

Table S17. Divergence dates in years before present derived from the short and long mtDNA data sets.

Clade	Dataset	Mean	Median	Geometric Mean	5% lower boundary	95% upper boundary
<i>Panthera tigris</i>	1772bp	157,350	139,480	143,770	53,343	296,010
<i>Panthera tigris</i> – AMO1	1772bp	108,860	99,611	101,330	41,783	192,010
Sunda region	1772bp	45,259	41,012	41,183	13,564	84,759
<i>Panthera tigris</i>	3968bp	150,630	131,470	137,130	54,622	292,800
<i>Panthera tigris</i> – AMO1	3968bp	104,220	93,951	96,883	42,104	189,790
Sunda region	3968bp	36,465	32,356	33,061	11,458	70,774

Table S18: Pairwise comparison between the two tiger subspecies *P. tigris tigris* and *P. tigris sondaica* for the craniodental characteristics using the Mann-Whitney *U* test (♂: $n_{tigris} = 64$, $n_{sondaica} = 38$; ♀: $n_{tigris} = 55$, $n_{sondaica} = 44$).

No	Character	♂			♀		
		U	p	signifi- cance	U	p	signifi- cance
1	Condylbasal length	506	<0.001	***	376	<0.001	***
2	Posterior length	872	0.017	*	778	0.002	**
3	Facial length	662	<0.001	***	488	<0.001	***
4	Upper canine width	789	0.003	**	948	0.066	ns
5	Height variable A ^a	487.5	<0.001	***	442	<0.001	***
6	Height variable B ^b	409	<0.001	***	456	<0.001	***
7	Height variable C ^c	322	<0.001	***	412	<0.001	***
8	Height variable D ^d	537.5	<0.001	***	496	<0.001	***
9	Zygomatic width ^e	976	0.097	ns	698.5	<0.001	***
10	Nasal width ^f	705	<0.001	***	691	<0.001	***
11	Nasal width ^g	669.5	<0.001	***	673	<0.001	***
12	Width of muzzle	868	0.016	*	947	0.065	ns
13	Interorbital width	432	<0.001	***	432	<0.001	***
14	Postorbital width	690	<0.001	***	607	<0.001	***
15	Postorbital constriction	580.5	<0.001	***	634	<0.001	***
16	Braincase width	822	0.006	**	704	<0.001	***
17	Nasal length	288.5	<0.001	***	428	<0.001	***
18	Pterygoid palate length	654	<0.001	***	466	<0.001	***
19	Ventral posterior length	533	<0.001	***	542	<0.001	***
20	Width of incisors	986	0.112	ns	789	0.003	**
21	Width between canines	625	<0.001	***	586	<0.001	***
22	Width of palate across P ³	485	<0.001	***	437	<0.001	***
23	Width of palate across P ⁴	530	<0.001	***	492	<0.001	***
24	Pterygoid palate width	1221	0.975	ns	1081.5	0.367	ns

25	Width of zygomatic arches	571	<0.001	***	468	<0.001	***
26	Mastoid width	505	<0.001	***	345	<0.001	***
27	Occipital condyle width	818.5	<0.001	***	618	<0.001	***
28	Canine height	341.5	<0.001	***	475	<0.001	***
29	Length of P ³	551	<0.001	***	377	<0.001	***
30	P ³ metacone length	840.5	0.009	**	538	<0.001	***
31	P ³ paracone length	605.5	<0.001	***	657.5	<0.001	***
32	P ³ parastyle length	1101	0.428	ns	1033	0.214	ns
33	Width of P ³ at paracone	996	0.129	ns	891	0.025	*
34	Width of P ³ at metacone	597	<0.001	***	492	<0.001	***
35	Length of P ⁴	695	<0.001	***	276	<0.001	***
36	P ⁴ metastyle length	1027	0.192	ns	712.5	<0.001	***
37	P ⁴ paracone length	772	0.002	**	438	<0.001	***
38	P ⁴ parastyle length	1093	0.397	ns	1010	0.160	ns
39	Width of P ⁴ protocone	768.5	0.002	**	815	0.005	**
40	Width of P ⁴ at protocone	1441	0.120	ns	1030	0.206	ns
41	Width of P ⁴ at paracone	1105	0.444	ns	780	0.002	**

^a A: Height of narial aperture from ventral part of I³ alveolus to ventral part of nasal; ^b B: Dorsoventral height of snout, taken just posterior to C¹; ^c C: Dorsoventral height of cranium taken at P³/P⁴; ^d D: Dorsoventral height of cranium taken at pterygoid; ^e Height of anterior part of zygomatic arch at jugal/maxilla junction; ^f Width across nasals at narial aperture; ^g Width across nasals at maxilla/frontal suture.

***: p<0.001; **: p<0.01, *: p < 0.05, ns = not significant

Table S19: Pairwise comparison between the two tiger subspecies *P. tigris tigris* and *P. tigris sondaica* for pelage characteristics using the Mann-Whitney *U* test ($n_{tigris} = 89$, $n_{sondaica} = 25$).

Pelage characteristic	U	p	significance
Flank stripes	1700	<0.001	***
Tails stripes	1121	0.295	ns
Spots	469	<0.001	***
Stripe thickness	987	0.357	ns
Stripes on quarter	1325	0.121	ns
Loops on flanks	1227	0.384	ns

Table S20: Pairwise comparison between the two tiger subspecies *P. tigris tigris* and *P. tigris sondaica* for continuous ecological variables (climate) using the Mann-Whitney *U* test ($n_{tigris} = 428$, $n_{sondaica} = 50$).

Ecological variable	U	p	significance
Annual Mean Temperature	16597	<0.001	***
Mean Diurnal Range	5958	<0.001	***
Isothermality	21013	<0.001	***
Temperature Seasonality	275	<0.001	***
Max Temperature of Warmest Month	10010	0.456	ns
Min Temperature of Coldest Month	19834	<0.001	***
Temperature Annual Range	607	<0.001	***
Mean Temperature of Wettest Quarter	14224	<0.001	***
Mean Temperature of Driest Quarter	16465	<0.001	***
Mean Temperature of Warmest Quarter	11289	0.525	ns
Mean Temperature of Coldest Quarter	19359	<0.001	***
Annual Precipitation	19524	<0.001	***
Precipitation of Wettest Month	16304	<0.001	***
Precipitation of Driest Month	20334	<0.001	***
Precipitation Seasonality	3342	<0.001	***
Precipitation of Wettest Quarter	16857	<0.001	***
Precipitation of Driest Quarter	20375	<0.001	***
Precipitation of Warmest Quarter	17657	<0.001	***
Precipitation of Coldest Quarter	20110	<0.001	***

Table S21: Pairwise comparison between the two tiger subspecies *P. tigris tigris* and *P. tigris sondaica* for categorical ecological variables (functional prey groups and functional habitat) using Fisher's exact test ($n_{tigris} = 428$, $n_{sondaica} = 50$).

Ecological variable	p	significance
Very large ruminant	<0.001	***
Small ruminant	<0.001	***
Medium ruminant	<0.001	***
Primates	<0.001	***
Small difficult to catch mammals	<0.001	***
Pigs	0.015	*
Small mammals	<0.001	***
Functional habitat	<0.001	***

***: $p < 0.001$; **: $p < 0.01$, *: $p < 0.05$, ns = not significant