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THE NATIVES OF THE EASTERN PORTION OF BORNEO AND OF JAVA.

(PRELIMINARY NOTE.)

BY T. R. H. GARRETT, M.A., F.R.G.S.

1. INTRODUCTORY.

THE observations detailed in the following notes were made during the author's residence in Borneo during the years 1909 and 1910 (with the exception of the measurements of the subjects Nos. 1 to 23 (original) which were made at their homes in Java). The majority of the subjects were the author's coolies, who, as regards the Sundanese and Javanese, were to a certain extent picked men, *i.e.*, though they were not picked as to stature or strength, yet had passed a rather perfunctory medical examination as to general health and soundness. The Banjerese were not picked even to this extent, though the author would not have engaged a man who was obviously unfit to work. Subjects Nos. 1 to 23 (original) were casually taken as they came in response for subjects to be measured. Those numbered 89 to 94 (original) were also casually met with in the jungle.

The results of the observations fall into two main divisions: (1) general notes on the outward appearance and mode of life of the individuals classified according to tribes; (2) a portion of the measurements made and indices with a few comments on the outcome of the comparison of these with other data.

The author hopes to publish with the remainder of the measurements more detailed general ethnological observations on the Banjerese and Orang Bulongan.

2. GENERAL ETHNOLOGICAL OBSERVATIONS.

(a) *Banjerese.*

This term is used in Borneo to signify the original inhabitants of the south-east portion of the island who have embraced Mohammedanism (non-Mohammedans are called by such terms as Orang Bukit and that very much misused term Dyak). The Banjerese have to a certain extent intermarried with the natives of Singapore, Java, and the rest of Borneo, especially the south and east coasts, and to a very small extent with settlers from China, British India, etc., though these latter as a rule keep to themselves. They almost all speak Malay, but they also have a language of their own which originally was distinct from Malay, but now consists of Malay words and distinct words in about equal proportions; and all the different

districts (Kendangan, Amuntay, etc.) have distinctive words, so that it is possible to tell a man's district from the words he uses.

About fifty per cent. of the males can write, and of these about one-half can write in Malay characters, about one quarter in both Malay and Roman characters, and the other quarter in Roman characters only.

Physically, they are not very strong and do not care for continual manual labour, and hence are not greatly employed as general coolies when other labour is available. But they make skilful artizans (such as carpenters, blacksmiths, etc.), and are especially clever at work in the jungle or on the river: for such work one Banjereese is worth two or three Sundanese or Javanese.

They are very intelligent, being readily taught clerical or observational work (such as in the laboratory or elementary surveying). Their sense of responsibility is as high as, if not higher than, that of any Eastern people I have come in contact with.

Neatness of dress is a marked characteristic, many spending much on clothing; in fact, many would be rightly described as dandies.

(b) *Orang Balik Papan.*

On the immediate coast of East Borneo, and in the larger villages near the mouths of the rivers, the original population has been displaced by the Banjereese, Bugis, Bajau (and further north Sulu), or so mixed with them as to be unrecognizable. But occasionally in more unfrequented places, and especially on the smaller rivers about the limit of tidal influence, may be found a few small communities which represent the original inhabitants of the coast. One such I came across in the Orang Balik Papan, who live half a mile from the mouth of the Sungei Penjangulin which flows into the head of the Balik Papan Bay. They assert that they are the original inhabitants of the district. In appearance they are sparely built, without any superfluous flesh, and they do not trouble much about washing. They circumcize, but not till immediately before marriage. Their language closely resembles that spoken in Pasir, the district to the south of Balik Papan, so much so that one of my men who could speak the Pasir language could understand a little when the Orang Balik Papan were speaking amongst themselves. They do not understand Bugis or Bajau at all, and but very little Malay, with few exceptions.

In 1910 the Kampong community consisted of about half a dozen houses, but formerly it was much larger. They are very closely intermarried, and do not seem to marry outside of their own people. They are very improvident, when they have rice (grown or bought with the proceeds of the sale of rotan and rubber) they hold a succession of feasts until it is finished, when they seem to use as their staple food a tripang found in the mud at low water. When I was there the daughter of the Patinggi (head of the village) had just been married. A great feast had been held and everything eaten up, with the result that the men had to go into the jungle to get rotan and rubber, with which to buy rice, without any food: even the children had had nothing to eat the day I met them.

They wear the short Bugis trousers in the jungle, but in his house the Patinggi was wearing only a small chawat (waist cloth). The women wear an ordinary Malay type of home-made Kain Sarong.

They are not Mohammedans, and the Patinggi declared that he did not think religion was worth considering (*tidak perduli*): they eat pigs but not monkeys. In appearance and habits they are similar to the other people of the immediate neighbourhood.

Sondro is diminutive, almost a dwarf, and certainly a partial idiot; he does but little work, not enough to support a wife (one had divorced him after a year for this reason), now he lives mainly on his brother.

(c) *Orang Tarakan.*

The Orang Tarakan are the natives of the small island of Tarakan near the mouth of the Batang Kayan (or Bulongan River). The total number of these probably does not exceed three hundred, and they are much mixed with Bugis, Bulongan, Sulu, and Banjereese. Their language is a distinct one, and the Bulongan people cannot understand it; it is not written. In appearance the Orang Tarakan resemble the Bugis and Bajau.

(d) *Orang Bulongan.*

These live near the mouth of the Batang Kayan. They are extremely mixed with the Bugis, Bajau, Banjereese, Sulu, and some little Kayan. They are probably not the original inhabitants of the district, but immigrants who have forced the Kayan, Punan, Menglihat, and similar tribes away from the mouth of the river.

(e) *Bugis.*

These are all immigrants into Borneo: many naturally so, but there is a tradition that an epidemic of smallpox almost depopulated the east coast about the middle of the last century, and that the Rajahs, especially the Sultan of Kutei, bought Bugis from the Rajahs in Celebes, especially of Sidendreng, to repopulate their territories. At the present time I have observed that frequently praus come over from Celebes with Bugis who then clear a piece of ground and build a house and remain on the Kutei coast for about a couple of years; then others come over and take their place or build a house near at hand, and the old ones return home. There is also constant communication now by steamer with the coast ports of Celebes.

(f) *Batavian Malay.*

The people living near Batavia who call themselves Malay, as distinct from Sundanese and Javanese, are of very mixed origin.

3. PHYSICAL ANTHROPOLOGY.

The measurements were made with Martin's anthropometer, etc., while age, colour of skin, and eye were recorded in the manner described (see *legenda* to

Table 1). The results are embodied in Tables 1 and 2, which show a portion of the observations made, and in regard to these the following comments are appropriate :—

Comparison of Measurements and Indices.

a. Averages.

Of the Banjerese I have been unable to find any previous measurements, except one by Hagen, but Deniker¹ and Hagen² give some figures for the Javanese and Sundanese. Hagen divides his subjects into three groups: (1) under 20 years of age; (2) 20 to 34, and (3) 34 to 60. The figures quoted below have been obtained by combining groups (2) and (3).

	Stature.	Head.		Cephalic Index.
		Length.	Breadth.	
Banjerese	1569·6	181·2	147·4	81·48
Boyanese (Hagen)	1616·1	178·7	149·6	82·5
„ (Deniker)	1587	—	—	—
Javanese	1570·6	177·6	150·8	85·0
„ (Hagen)	1606·4	177·7	151·0	84·6
„ (Deniker)	1616	—	—	84·6
Sundanese	1591·3	176·9	151·2	85·5
„ (Hagen)	1588·2	174·4	152·4	86·9
„ (Deniker)	1591	—	—	86·3

The greatest difference between the sets of measurements is in the stature of the Javanese.

b. Standard deviation and Coefficient of Variability.

The Egyptian series of Myers³ and those of Sardinians, Cretans, and Corsicans, quoted by Duckworth,⁴ are the only figures for the living subject that I have been able to employ in my comparisons.

¹ “The Races of Man,” by J. Deniker, Sc.D.

² “Anthropologische Studien aus Insulinde,” von Dr. B. Hagen, *Natuurk., Natuurk. Verh. der Koninkl. Akademie*, Deel xxviii, Amsterdam, 1890.

³ “Contributions to Egyptian Anthropometry,” by Charles S. Myers, *Journal of the Anthropological Institute*, vol. xxxvi, 1906, pp. 237–271.

⁴ “A study of the Craniology of the Modern Inhabitants of Sardinia,” by W. L. H. Duckworth, *Zeitschrift für Morphologie und Anthropologie*, Band xii, Heft 3, ss. 439–504.

The remainder are taken from MacDonnell's¹ paper on the Human Skull.

			Head Length.		Head Breadth.		Vertical Radius.		Nasal Height.		Nasal Breadth.	
			σ	C.	σ	C.	σ	C.	σ	C.	σ	C.
Banjerese	...	...	6·22	3·44	6·77	4·59	4·76	3·59	3·19	7·18	2·68	6·89
Sundanese	...	...	5·28	3·93	5·24	3·47	6·62	4·97	2·39	5·30	2·45	6·27
Javanese	...	...	4·68	2·63	4·57	3·03	3·90	4·19	4·33	9·56	1·94	5·05
Moslems (Egypt)	...	...	6·09	3·13	4·34	3·01	4·65	2·83	—	—	—	—
Copts (Egypt)	...	...	6·13	3·17	5·09	3·56	4·15	2·83	3·41	7·14	2·72	7·57
English (Skulls)	...	...	6·27	3·31	5·28	3·75	4·28	3·73	2·60	5·08	2·16	8·89
Sardinians (Skulls)	...	...	6·43	3·48	5·32	4·03	3·99	3·53	3·75	7·50	2·12	8·89
Ainu ² (Skulls)	...	...	—	3·20	—	2·76	—	3·67	2·16	8·89	—	—

Taking the coefficient of variation, the Banjerese, as to the head length, resemble the Egyptian, English, Sardinian, and Ainu; whereas the Sundanese show slightly less, and the Javanese distinctly less, variability than these. But for the head breadth the variability of the Banjerese is markedly greater than that of any of the others, whilst that of the Sundanese is about the same as that of the English and Egyptians, distinctly less than that of the Sardinians and distinctly greater than that of the Ainu, and that of the Javanese is about the same as that of the Egyptians and Ainu, but very much less than that of the English and Sardinians. As regards the vertical radius, the variability of all three Malayan races is distinctly higher than that of the Egyptians, but the Banjerese resemble the English, Sardinians, and Ainu, whilst the Javanese are slightly more variable than these, and the Sundanese very much more so. The nose measurements of the English, Sardinian, and Ainu, having been made on the skull, are hardly comparable. In nasal height the Sundanese show distinctly less, the Banjerese about the same, and the Javanese distinctly more variability than the Copts, whilst in the breadth of the nose all three Malayan peoples show less variability than the Copts.

¹ "Variation and Correlation of the Human Skull with Special Reference to English Crania," by W. R. MacDonnell, LL.D., *Biometrika*, vol. iii, pp. 191-244.

² Alice Lee, *Phil. Trans.*, vol. clxxxvi, A, p. 230.

Turning now to the indices :—

			Cephalic.		Vertical.		Upper Facial.		Nasal.	
				C.		C.		C.		C.
Banjerese	...	...	4.46	5.47	2.81	3.84	2.92	6.26	7.81	8.88
Sundanese	...	...	3.18	3.72	3.22	4.27	2.65	5.76	7.76	8.93
Javanese...	...	...	3.45	4.06	3.46	4.59	3.70	7.98	9.18	10.72
Moslems (Egypt)	...	...	2.86	3.85	—	—	3.53	7.29	7.67	10.12
Copts (Egypt)	...	...	3.48	4.70	—	—	3.18	6.55	8.16	10.77
English (skulls)	...	...	3.26	4.38	3.22	4.61	—	—	4.58	9.64
Sardinians (skulls)	...	...	3.36	4.80	3.24	4.56	—	—	5.01	10.02
Ainu (skulls)	...	...	2.41	—	—	—	—	—	—	—
Sardinians (living), Livi	...	...	3.98	5.13	—	—	—	—	—	—
Cretans (living), Hawes	...	...	4.10	5.17	—	—	—	—	—	—
Corsicans (living)	...	...	2.90	3.82	—	—	—	—	—	—

The coefficient of variation for the breadth index of the Banjerese is very markedly higher than that of any of the others, except of the living Sardinians and Cretans, than whose it is only slightly higher ; whilst that of the Sundanese is slightly lower than that of the others, except the living Sardinians and Cretans, than whose it is distinctly lower ; whilst that of the Javanese is much about the same as that of the Egyptian Moslems, Corsicans, and English, but distinctly lower than that of the Sardinians and Cretans.

In the case of the vertical index I have only the English and Sardinian skulls with which to compare them, and here the Javanese show the same variability, the Sundanese slightly less, and the Banjerese distinctly less than these skulls.

As for the upper facial index the Javanese show more variability than the Egyptians, whilst the Banjerese and Sundanese show distinctly less. And in the nasal index the variability of the Javanese, whilst higher than that of the English and Sardinian skulls, is much about the same as that of the Egyptians, but that of Banjerese and Sundanese is distinctly less than that of the English, Sardinians, or Egyptians.

To sum up, with regard to their heads the Banjerese show distinctly less variability in the absolute measurements than do the Sardinian skulls, about the same as the Ainu skulls, slightly more than the Sundanese or the English skulls, and considerably more variability than the Egyptians and Javanese, whilst in the indices they show less variability than the Egyptians, Javanese, and the English skulls.

The Sundanese show less variability in the measurements than do the Sardinian skulls, about the same as the Egyptians, but less than the English and Ainu skulls, and considerably less than the Javanese, whilst in the indices the variability is much less than in any of the others.

The Javanese in the measurements show rather less variability than the Egyptians or the English skulls, about the same as the Sardinian skulls, and distinctly more than the Ainu skulls, whilst in the indices the variability is about the same as in the English and Sardinian skulls, and rather greater than that of the Egyptians.

Legenda to Table 1.

The only items which call for explanation are the following :—

Age.—Very few of the subjects could give their age exactly unless they had happened to be born about the time of some striking event, such as the Krakatau explosion. Hence, if the third molars were fully erupted I put the age at about 25, unless the appearance of the subject differed markedly from this age, or he himself was very certain that this was wrong.

Colour of Skin.—This is described according to Plate III in the British Association's *Notes and Queries on Anthropology*, 1899.

Colour of Eye.—This is described in accordance with the *Augenfarben Tafel* of Prof. Rud. Martin.

Legenda to Table 2.

In Table 2 the figures at the heads of the columns have the following significations :—

1. Stature.
2. Span of Arms.
3. „ „ Ratio of, to Stature 1,000.
4. Height sitting.
5. „ „ Stature 1,000.
6. Chest, Circumference, Deep Inspiration.
7. „ „ „ „ Stature 1,000.
8. „ „ Complete Expiration.
9. „ „ „ „ Stature 1,000.
10. „ Lateral Diameter, Deep Inspiration.
11. „ „ „ „ Stature 1,000.
12. „ „ „ Complete Expiration.
13. „ „ „ „ Stature 1,000.
14. „ Antero-Posterior Diameter, Deep Inspiration.
15. „ „ „ „ Stature 1,000.
16. „ „ „ Complete Expiration.
17. „ „ „ „ Stature 1,000.

TABLE 1. DESCRIPTIVE CHARACTERS.

NUMBER SER. ORIG.	NAME	QTR	BREPLACE FATHER'S	MOTHER'S	AGE	SKIN	COLOUR	EYES	COLOUR	HAIR	CHARACTER	SHAPE OF FACE	PHOGNATHISM	LIPS	REMARKS
1	KARIM	GUNONG	GUNONG	GUNONG	23c	BETWEEN 4 & 5	SLIGHTLY DARKER THAN 5	DO.	DO.	STRAIGHT	DO.	WEDGE-SHAPE	VERY SLIGHT	UPPER, THIN	FIRST COUSIN TO BOTH (3) & (4)
2	SINGH	PADANG BESAL (AMUNTAY)	PADANG BESAL	PADANG BESAL	30c	SLIGHTLY DARKER THAN 5	DO.	DO.	DO.	CURLY	DO.	LONG	SLIGHT	UPPER, THIN	
3	KHARIS	TABALANG MATI (AMUNTAY)	TABALANG MATI	TABALANG MATI	20c	DO.	DO.	DO.	DO.	STRAIGHT	DO.	WEDGE-SHAPE	SLIGHT	THICK BUT SMALL	
4	KUTAY	KELUDAN (AMUNTAY)	KELUDAN	KELUDAN	27c	BETWEEN 4 & 5	3	DO.	DO.	CURLY	DO.	DO.	DO.	THIN	
5	JANJAY	AMUNTAY	AMUNTAY	BERIH (AMUNTAY)	28c	DO.	BETWEEN 2 & 3	DO.	DO.	STRAIGHT	DO.	DO.	VERY SLIGHT	UPPER, MEDIUM	
6	DOLLAH	PAGAT (AMUNTAY)	PAGAT	PAGAT	21	DO.	DO.	DO.	DO.	DO.	DO.	MEDIUM	SLIGHT	LOWER, THICK	RATHER STUPID & WEAK
7	ACHUD	AMUNTAY	AMUNTAY	AMUNTAY	28c	DO.	DO.	DO.	DO.	DO.	DO.	LONG & NARROW	DO.	THIN	
8	TAHIR	SUNGUR DURIAN (AMUNTAY)	SUNGUR DURIAN	SUNGUR DURIAN	21c	DO.	BETWEEN 2 & 3	DO.	DO.	DO.	DO.	MEDIUM	MEDIUM	THICK	
9	JANUH	AMUNTAY	AMUNTAY	AMUNTAY	32c	DO.	BETWEEN 3 & 4	DO.	DO.	SLIGHTLY WAVY	DO.	DO.	DO.	MEDIUM	
10	KARIM	PANASTAN (TANJONG)	PANASTAN	PANASTAN	30c	DO.	BETWEEN 2 & 3	DO.	DO.	STRAIGHT	DO.	WEDGE-SHAPE	DO.	DO.	
11	TARIS	PANARANGANG (TANJONG)	PANARANGANG	PANARANGANG	24c	BETWEEN 4 & 5	DO.	DO.	DO.	DO.	DO.	MEDIUM	VERY SLIGHT	THIN	VERY NERVOUS
12	MAM	MANGOSSIP (TANJONG)	MANGOSSIP	MANGOSSIP	27c	BETWEEN 4 & 5	DO.	DO.	DO.	DO.	DO.	SHORT	DO.	DO.	
13	SULAK	HARUS (TANJONG)	HARUS	HARUS	21c	DO.	SLIGHTLY DARKER THAN 3	DO.	DO.	DO.	DO.	WEDGE-SHAPE	DO.	DO.	
14	UTIL	PANARANGANG (TANJONG)	PANARANGANG	PANARANGANG	27c	DO.	DO.	DO.	DO.	DO.	DO.	LONG & NARROW	MEDIUM	MEDIUM	
15	USMAN	BERAHANG (BERABAY)	BERAHANG	BERAHANG	28c	SLIGHTLY DARKER THAN 5	SLIGHTLY DARKER THAN 2	DO.	DO.	VERY SLIGHTLY	DO.	BROAD & SQUARE	SLIGHT	THICK	
16	DUHASSAN	BERAHANG (BERABAY)	LUDJOK (BERABAY)	BERAHANG	28c	DO.	SLIGHTLY LIGHTER THAN 2	DO.	DO.	STRAIGHT	DO.	MEDIUM	VERY SLIGHT	UPPER, THIN	ACCIDENT TO 2ND. FINGER R.H. SPAN ESTIMATED FROM DIFFERENCE OF FINGERS OF L.H.
17	RUHANG	PABAN (BERABAY)	PABAN	PABAN	45	5	DO.	DO.	DO.	DO.	DO.	WEDGE-SHAPE	SLIGHT	DO.	
18	HAJI MOHAMMAD	SUNGUR DURIAN (BERABAY)	SUNGUR DURIAN	PABAN	45c	BETWEEN 6 & 9	BETWEEN 3 & 4	DO.	DO.	DO.	DO.	DO.	DO.	THIN	
19	ADUL	BUKAS (BERABAY)	BUKAS	BUKAS	27	BETWEEN 4 & 6	SLIGHTLY DARKER THAN 3	DO.	DO.	DO.	DO.	MEDIUM	MARKED	THICK	
20	ANONG	BERIKIN (BERABAY)	BERIKIN	BERIKIN	26	5	BETWEEN 2 & 3	DO.	DO.	DO.	DO.	DO.	VERY SLIGHT	THIN	
21	KATIRANG	HAMANG (BERABAY)	BERABAY	HAMANG	35c	BETWEEN 5 & 6	BETWEEN 3 & 4	DO.	DO.	DO.	DO.	WEDGE-SHAPE	MARKED	THICK	SUBJECT'S MOTHER IS 1ST COUSIN TO IRIK (27)
22	DUKASIM	HAUWAY (BERABAY)	HAUWAY	HAUWAY	21c	BETWEEN 4 & 5	BETWEEN 2 & 3	DO.	DO.	DO.	DO.	DO.	ABSENT	THIN	
23	UDAL	BERABAY	BERABAY	BERABAY	26c	DO.	DO.	DO.	DO.	DO.	DO.	DO.	SLIGHT	DO.	
24	AMIP	RANTAU KENDANGAN	BERUMPAI	BERUMPAI	24c	DO.	SLIGHTLY DARKER THAN 3	DO.	DO.	SLIGHTLY WAVY	DO.	MEDIUM	VERY SLIGHT	MEDIUM	
25	ILOH	RANTAU	KENDANGAN	RANTAU	23c	DO.	DO.	DO.	DO.	STRAIGHT	DO.	DO.	DO.	DO.	
26	MANUT	RANTAU	RANTAU	RANTAU	22c	DO.	DO.	DO.	DO.	DO.	DO.	LONG & BROAD	ABSENT	THIN	VERY STUPID
27	IPK	PADANGBATONG (BERABAY)	PADANGBATONG	PADANGBATONG	27c	4	DO.	DO.	DO.	DO.	DO.	MEDIUM	SLIGHT	MEDIUM	
28	TARSIN	DO.	DO.	DO.	35c	BETWEEN 4 & 5	BETWEEN 2 & 3	DO.	DO.	DO.	DO.	WEDGE-SHAPE	MEDIUM	DO.	
29	TAMIN	BANJERMASIN	NECARA	BANJERMASIN	45c	4	DO.	DO.	DO.	DO.	DO.	DO.	DO.	THICK	
30	KATILLI	HAJI DEBANG (BERUMPAI)	HAJI DEBANG	PANGONG BAHU	32c	6	SLIGHTLY DARKER THAN 3	DO.	DO.	DO.	DO.	BROAD	DO.	THIN	
31	ASSIT	BANJERMASIN	BERUMPAI	BANJERMASIN	27c	5	DO.	DO.	DO.	DO.	DO.	LONG & NARROW	DO.	THICK	STAMMERS VERY BADLY
32	CHOKIA	BANJERMASIN	BANJERMASIN	BANJERMASIN	24c	BETWEEN 4 & 5	BETWEEN 2 & 3	DO.	DO.	DO.	DO.	MEDIUM	VERY SLIGHT	DO.	
33	TAIP	PENGARON	PENGARON	PENGARON	22	DO.	DO.	DO.	DO.	DO.	DO.	LONG & NARROW	MARKED	DO.	
34	USMAN	HAUWAY (BULONGAN)	BERABAY	BULONGAN	20c	BETWEEN 4 & 5	SLIGHTLY DARKER THAN 3	DO.	DO.	DO.	DO.	MEDIUM	SLIGHT	UPPER, THIN	
35	TAHIR	TANJONG PLAS (BULONGAN)	MATAPURA	TANJONG PLAS	17c	BETWEEN 5 & 6	DO.	DO.	DO.	CURLY	DO.	WEDGE-SHAPE	DO.	LOWER, THIN	
															A CROSS: FATHER BANJARESE; MOTHER BULONGAN
															DO.
															DO.
															A MARK.

BANJERESE.
TABLE I. MEASUREMENTS.

SERIAL NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
1	1518	1397	1032	820	540	820	540	794	523	283	286	869	177	222	146	169	124	169	146	130	98	95	63	136	41	56	35	77.3	68.7	46.7	85.4	49	
2	1697	1801	1080	856	514	976	805	784	470	304	282	275	165	219	131	190	108	191	143	139	94	95	65	134	46	40	37	74.8	72.6	48.5	80.4	56.5	
3	1552	1651	1063	828	538	910	522	771	496	279	180	258	166	205	132	183	118	181	159	125	94	96	61	131	43	38	36	76.6	69.1	46.6	83.7	46.5	
4	1572	1631	1038	808	514	950	540	780	498	283	180	270	172	200	127	175	111	181	144	132	94	96	57	132	38	33	37	75.6	72.9	42.8	97.4	50	
5	1594	1665	1043	853	538	842	588	800	508	273	171	287	161	203	127	190	118	168	138	136	94	102	56	136	40	36	40	73.4	71.8	41.3	100.0	51.8	
6	1611	1737	1078	845	525	868	549	825	512	310	192	293	182	207	128	177	116	175	154	131	97	100	62	138	46	42	38	68.0	74.9	44.9	88.6	56	
7	1620	1624	1068	790	590	822	541	765	477	272	179	260	171	194	126	172	113	197	145	134	97	102	65	136	45	44	39	73.5	71.6	46.1	86.6	46	
8	1555	1632	1064	815	531	842	549	765	498	278	181	284	172	193	126	180	112	172	147	132	90	105	62	133	42	37	38	75.5	70.9	46.6	90.5	47	
9	1510	1621	1075	801	530	872	578	809	536	279	185	283	174	200	132	188	124	171	142	129	86	95	67	133	47	37	38	83.0	75.4	50.4	83.0	48.5	
10	1565	1655	1068	799	511	830	580	801	512	287	183	269	172	198	128	176	112	177	143	128	103	118	72	134	47	44	39	80.8	72.3	53.7	83.0	47	
11	1576	1606	1060	863	546	868	543	764	465	300	190	282	170	121	176	113	163	147	138	126	95	104	63	136	44	38	40	80.5	74.3	46.3	90.9	50.5	
12	1567	1620	1024	822	555	880	588	820	523	300	191	283	161	201	119	107	110	142	138	126	86	82	56	127	36	34	36	76.9	71.1	44.1	100.0	50.5	
13	1569	1652	1053	890	542	881	568	816	522	287	183	271	173	203	136	193	123	176	142	130	90	101	65	136	44	40	32	80.7	73.9	47.8	72.7	51.5	
14	1531	1623	1070	840	600	822	846	725	488	281	183	266	172	182	118	177	132	154	142	136	90	97	62	132	44	39	38	84.0	77.9	47.0	79.6	42	
15	1556	1603	1037	805	541	880	538	845	517	305	197	290	177	217	133	200	185	154	184	104	111	66	147	46	41	42	83.2	72.4	44.9	91.3	46.5		
16	1562	1653	1066	793	501	870	577	846	540	300	198	290	166	206	132	194	124	176	145	140	90	95	58	136	45	30	40	82.4	73.5	42.8	88.9	47	
17	1547	1610	1041	817	528	820	587	770	456	275	178	283	162	172	182	118	177	139	138	126	87	88	68	136	43	36	37	76.5	71.2	45.6	86.1	44.5	
18	1564	1684	1063	790	500	885	548	820	510	290	183	274	173	187	118	173	109	189	143	129	96	101	63	133	50	48	40	75.7	68.3	47.4	80.0	50.5	
19	1685	1747	1036	895	531	884	583	838	491	281	167	284	157	214	127	207	123	194	142	136	90	97	62	132	44	39	38	84.0	77.9	47.0	79.6	42	
20	1591	1643	1043	823	517	918	564	846	520	298	187	274	172	210	132	199	185	159	183	126	94	97	68	139	43	39	37	81.0	68.8	44.6	86.1	52.5	
21	1625	1697	1040	857	528	862	530	800	493	291	179	278	171	262	144	176	108	182	161	130	98	104	68	141	46	42	38	88.5	74.7	46.2	82.6	55	
22	1597	1727	1081	883	522	910	570	851	535	300	200	305	191	205	129	169	118	175	153	138	97	95	56	138	39	35	41	87.4	78.9	40.6	105.1	57	
23	1490	1651	1041	833	560	827	555	792	532	274	164	282	176	205	133	195	131	179	150	128	90	100	58	133	40	36	41	83.8	71.5	42.1	102.5	43.5	
24	1511	1723	1070	841	522	911	565	818	507	283	182	284	157	214	127	207	123	194	142	136	90	97	62	132	44	39	44	87.5	79.0	44.5	100.0	59	
25	1544	1685	1027	800	518	825	535	765	496	284	190	282	183	198	128	185	190	181	170	138	95	100	61	132	46	40	35	92.9	74.5	46.2	78.3	51	
26	1606	1755	1093	767	478	936	558	854	522	307	191	290	181	211	131	204	127	187	144	132	90	97	63	135	44	41	39	77.0	70.5	48.1	88.7	54.5	
27	1487	1522	1028	775	529	828	565	759	518	284	190	240	170	188	128	178	117	177	144	138	96	100	62	131	45	40	43	81.4	74.6	47.3	96.3	43	
28	1489	1660	1110	781	525	866	583	785	538	283	190	270	181	183	123	187	112	176	145	126	97	108	63	137	45	41	40	82.4	71.6	46.0	86.9	50	
29	1605	1696	1057	847	527	880	511	771	480	282	176	266	168	204	117	183	130	153	140	108	115	71	142	44	40	42	80.5	73.7	80.0	96.5	51.5		
30	1680	1784	1101	857	529	943	582	899	560	310	191	298	184	226	139	194	120	181	154	136	96	102	66	146	48	42	41	85.1	75.1	44.6	89.4	61	
31	1576	1664	1056	847	537	857	544	765	465	292	185	273	173	203	129	190	121	189	147	132	95	99	69	133	44	41	37	77.8	69.9	51.9	84.1	49.5	
32	1588	1599	1040	811	528	871	567	785	510	283	184	266	173	208	136	191	124	180	140	131	95	105	65	136	50	46	38	77.8	72.8	48.1	78.0	50.5	
33	1544	1624	1051	769	511	905	586	865	560	297	192	270	175	222	144	209	135	176	150	130	98	119	68	137	40	43	44	85.2	73.9	49.6	89.8	56.5	
MAXIMUM	1653	1801	1110	895	548	943	588	900	560	323	205	305	191	226	146	208	135	194	170	140	110	72	148	50	49	44	92.9	79.5	53.7	105.1	66.5		
MINIMUM	1457	1522	1020	767	478	810	499	725	468	254	147	249	137	183	118	167	108	169	138	122	86	82	57	127	36	33	32	72.4	68.3	40.6	72.7	42	
RANGE	216	279	90	128	70	133	89	155	92	59	58	56	34	43	28	41	27	85	32	18	13	15	12	15	12	12	15	12	30.5	11.2	13.1	32.4	24.5
MEAN	1569.64	1466.94	1055.88	823.94	525.05	862.05	549.42	802.24	511.18	890.45	184.91	273.39	174.84	203.67	136.54	118.56	181.18	147.45	132.42	94.48	100.77	63.38	126.06	44.33	39.57	30.85	81.48	73.09	46.58	88.01	51.32	10.62	
STANDARD DEVIATION	48.61	64.25	21.89	31.40	14.89	31.96	16.94	36.28	21.30	14.05	7.02	13.40	7.50	10.77	5.92	10.88	6.31	6.22	6.77	4.76	4.24	7.09	4.27	4.46	3.19	3.60	2.68	4.46	2.31	2.92	7.81	5.31	
COMPT. VARIABILITY	3.10	3.68	2.07	3.81	2.64	2.70	3.45	4.52	4.16	4.84	3.60	4.90	4.32	5.29	4.66	5.37	3.44	4.69	3.59	4.31	7.04	6.74	4.01	7.18	8.76	6.89	5.47	3.84	6.86	8.80	10.34		
	15.26	10.32	10.17	10.22	10.24	10.31	10.29	10.77	10.35	10.40	10.30	10.46	10.44	10.36	10.44	10.30	10.46	10.44	10.29	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	
34	1529	1584	997	840	550	831	544	786	515	281	184	259	176																				

SUNDANESE.

TABLE 1. DESCRIPTIVE CHARACTERS.

NUMBER SER. ORIG.	NAME	OWN	MIDDLEPLACE FATHER'S	MOTHER'S	AGE	SKIN	COLOUR	EYES	COLOUR	HAIR	SHAPE OF FACE	PROGNATHISM	LIPS	REMARKS	
36 72	USMAN	JASIVA (BUTENZORG)	BANAN (SIRANG)	JASIVA	25c	4	BETWEEN 4 & 5	SLIGHTLY DARKER THAN 3	DO.	SLIGHTLY WAVY	MEDIUM	MEDIUM	MEDIUM		
37 50	SABAN	RADENYOK (SIRANG)	KADERYOK	KADERYOK	21c	BETWEEN 2 & 3	DO.	BETWEEN 2 & 3	DO.	DO.	WEDGE-SHAPE	SLIGHT	DO.		
38 96	SABAR	CHUDERANG (MINES)	CHUDERANG	CHUDERANG	25c	DO.	BETWEEN 3 & 4	DO.	DO.	CURLY	SLIGHTLY WEDGE-SHAPE	DO.	THICK		
39 46	ALIMARA	RANGAS BITUNG (CHIMARA)	NANGCHING	RANGAS BITUNG	21c	DO.	SLIGHTLY DARKER THAN 4	SLIGHTLY LIGHTER THAN 4	DO.	STRAIGHT	DO.	DO.	UPPER, THIN LOWER, THICK		
40 44	ARSTIAN	PANUNG-PANANG	PANUNG-PANANG	PANUNG-PANANG	25c	SLIGHTLY DARKER THAN 4	SLIGHTLY DARKER THAN 4	BETWEEN 3 & 4	DO.	DO.	MEDIUM	DO.	DO.		
41 51	AMAT	BETENG (TANGERANG)	BETENG	KAMAT (TANGERANG)	21c	BETWEEN 4 & 5	4	SLIGHTLY DARKER THAN 3	DO.	DO.	WEDGE-SHAPE	DO.	THIN		
42 39	WENGO	BUTENZORG	BUTENZORG	BUTENZORG	25c	BETWEEN 6 & 7	4	BETWEEN 4 & 5	DO.	DO.	DO.	MEDIUM	UPPER, THICK LOWER, THIN		
43 41	SIMAN	BARAVIA	BUTENZORG	BUTENZORG	21	BETWEEN 4 & 5	3	DO.	DO.	VERY SLIGHTLY STRAIGHT	DO.	SLIGHT	MEDIUM		
44 73	AMAT	BUTENZORG	BUTENZORG	BUTENZORG	22c	DO.	3	DO.	DO.	STRAIGHT	DO.	MASKED	THICK		
45 108	ALI	BUTENZORG	BUTENZORG	BUTENZORG	24c	5	3	DO.	DO.	DO.	LONG	VERY SLIGHT	MEDIUM		
46 116	JIMAN	CHIBARUSSA (BUTENZORG)	CHIBARUSSA	CHIBARUSSA	30c	BETWEEN 4 & 5	3	DO.	DO.	SLIGHTLY WAVY	MEDIUM	MEDIUM	THICK		
47 74	MIDAN	BRAGI (BUTENZORG)	BRAGI	BRAGI	30c	5	SLIGHTLY DARKER THAN 3	SLIGHTLY DARKER THAN 3	DO.	WAVY	WEDGE-SHAPE	SLIGHT	MEDIUM		
48 81	MAS JAVARETA	WANNATASSA	KEMANG	WANNATASSA	35c	5	BETWEEN 3 & 4	DO.	DO.	DO.	DO.	DO.	DO.		
49 47	LIAN	RENGAS BANDUNG (SIRANG)	RENGAS BANDUNG	RENGAS BANDUNG	21c	BETWEEN 3 & 4	3	DO.	DO.	STRAIGHT	MEDIUM	MEDIUM	VERY THICK		
50 8	UREBIN	PAGADONGAN (CHIRILIT)	PAGADONGAN	PAGADONGAN	25	BETWEEN 4 & 5	3	DO.	DO.	DO.	BROAD	SLIGHT	THIN		
51 3	AMIAN	PURAKARETA (SIRANG)	MARACHANG (SIRANG)	MARACHANG	18	DO.	BETWEEN 3 & 4	DO.	DO.	DO.	LONG & NARROW	DO.	UPPER, THIN LOWER, THICK		
52 5	JAMURI	PURAKARETA	PURAKARETA	PURAKARETA	36c	DO.	SLIGHTLY DARKER THAN 3	DO.	DO.	DO.	WEDGE-SHAPE	DO.	DO.		
53 55	ATA	RENGAS BENDOLK (SIRANG)	PURAKARETA	SUKAPERA (SIRANG)	20c	DO.	DO.	DO.	DO.	DO.	DO.	VERY SLIGHT	MEDIUM		
54 8	RAESUL	DEKON (ORANGDAN)	CHITTEKON (PLEBED)	DEKON	30	DO.	BETWEEN 3 & 4	DO.	DO.	SLIGHTLY WAVY	DO.	DO.	THIN		
55 23	ASHEN	TEGALJUMTI	TEGALJUMTI	TEGALJUMTI	21	5	DO.	DO.	DO.	DO.	DO.	SLIGHT	UPPER, THIN LOWER, THICK		
56 10	ANGGA	WANNATASSA	WANNATASSA	WANNATASSA	21	BETWEEN 4 & 5	4	DO.	DO.	DO.	DO.	DO.	THICK		
57 12	JUREI	DO.	DO.	BANDUNG	17	BETWEEN 4 & 5	3	DO.	DO.	WAVY	DO.	VERY SLIGHT	MEDIUM		
58 13	MAS SUMINTA KASOMA	DO.	DO.	WANNATASSA	20	DO.	BETWEEN 3 & 4	DO.	DO.	STRAIGHT	DO.	ASSENT	DO.		
59 14	MAS SUBITA	DO.	DO.	DO.	21	BETWEEN 9 & 10	11	PLAIN	WAVY	DO.	DO.	DO.	THIN	"ORANG BULL" DO.	
60 15	MAS ABUL	NANGGERANG (WANNATASSA)	NANGGERANG	NANGGERANG	26	10	11	DO.	DO.	CURLY	BROAD	SLIGHT	UPPER, THICK LOWER, THIN		
61 16	MAS SUBADIRAJA	WANNATASSA	WANNATASSA	WANNATASSA	24	BETWEEN 4 & 6	3	BLACK	STRAIGHT	STRAIGHT	VERY BROAD	ASSENT	MEDIUM		
62 17	MATSALI	DO.	DO.	DO.	25	BETWEEN 4 & 5	3	DO.	DO.	WAVY	BROAD	SLIGHT	DO.		
63 18	SURA MANGALA	DO.	DO.	DO.	50	DO.	3	DO.	DO.	STRAIGHT	WEDGE-SHAPE	DO.	THICK		
64 19	ALI PRATA	DO.	DO.	DO.	27	5	BETWEEN 3 & 4	DO.	DO.	WAVY	DO.	DO.	MEDIUM		
65 20	SUTA	DO.	DO.	DO.	22	BETWEEN 4 & 5	BETWEEN 2 & 3	DO.	DO.	SLIGHTLY WAVY	LONG & NARROW	DO.	UPPER, THIN LOWER, THICK		
66 22	KASULU	CHISALAK	CHISALAK	CHISALAK	40c	DO.	3	DO.	DO.	WAVY	DO.	DO.	MEDIUM		
67 7	ANAS	BRANDAN	CHILANUR	BRANDAN	41	DO.	BETWEEN 3 & 4	DO.	DO.	STRAIGHT	WEDGE-SHAPE	HARDED	UPPER, THIN LOWER, THICK		
68 54	SOLDAN	KRAWANG	DO	PEKALONGAN	21c	BETWEEN 4 & 6	DO.	SLIGHTLY DARKER THAN 3	DO.	DO.	DO.	MEDIUM	THICK		
69 4	JUSAN	SUMEDANG (BANDUNG)	SUMEDANG	SUMEDANG	40	BETWEEN 4 & 5	3	DO.	DO.	DO.	DO.	ASSENT	THIN		
70 9	KATEA	CHIKALONG (BANDUNG)	CHIKALONG	CHIKALONG	18	DO.	DO.	SLIGHTLY DARKER THAN 3	DO.	DO.	DO.	DO.	DO.	DO.	
71 49	ARANI	CHITTEPUS (KASIK MALATA)	RACHA	RACHA	38	BETWEEN 6 & 8	DO.	SLIGHTLY DARKER THAN 4	DO.	SLIGHTLY CURLY	BROAD	SLIGHT	VERY THIN		
72 79	ARTASIK	CHITTEPUS (BANDUNG)	CHITTEPUS	CHITTEPUS	26c	6	3	DO.	DO.	STRAIGHT	BROAD	DO.	THIN		
73 43	AMAT	YAMAN TINGGI (BARAVIA)	BUTENZORG	BARAVIA	50c	BETWEEN 5 & 6	BETWEEN 2 & 5	DO.	DO.	DO.	MEDIUM	MEDIUM	DO.	A CROSS. FATHER SUNDANESE, MOTHER MALAY	
74 107	MALL	CHICHINDAY (CHILANUR)	WELABER (CHILANUR)	CHICHINDAY	28c	BETWEEN 4 & 5	DO	DO.	DO.	DO.	BROAD	VERY SLIGHT	DO.	DO.	

JAVANESE.

TABLE 1. DESCRIPTIVE CHARACTERSE

NUMBER SER. ORIG.	NAME	OWN	BREIFLACE FATHER'S	MOTHER'S	AGE	SKIN	COLOUR	EYES	COLOUR	HAIR CHARACTER	SHAPE OF FACE	PROGNATHISM	LIPS
75 77	MOGAH	CHIBELUT (BANGK)	CHIBELUT	BANJAN	20c	BETWEEN 4 & 5	2		BLACK	STRAIGHT	MEDIUM	MEDIUM	THIN
76 6	BAREN SOGA KINATA	POWAKERTA	POWAKERTA	POWAKERTA	55	DO.	3		GREY	DO.	WEDGE-SHAPE	ABSENT	DO.
77 48	DARSAD	LOGARI (CHEITRON)	LOGARI	LOGARI	35c	BETWEEN 3 & 4	3		BLACK	DO.	DO.	VERY SLIGHT	VERY THIN
78 109	GAJAT	PATAKAN (CHURITON)	PATAKAN	PATAKAN	25c	BETWEEN 4 & 5	BETWEEN 2 & 3		DO.	DO.	BROAD	MEDIUM	THICK
79 1	MAUNA	CHIFALAN (PUTWAKERTA)	TEGAL	TEGAL	46c	DO.	DO.		DO.	DO.	MEDIUM	ABSENT	THIN
80 84	SINGOTOSO	BANJINGAN (BANJUNAS)	BANJINGAN	BANJINGAN	31	DO.	3		DO.	DO.	BROAD	MEDIUM	MEDIUM
81 88	MAS SOMWANDONO	WONGSARI (MUTO-ARJO)	PAGERANGAN (KARANG ANTEN)	WONGSARI	24	BETWEEN 6 & 7	BETWEEN 2 & 3		DO.	DO.	MEDIUM	DO.	THIN
82 53	SLAMET	BONGAS (JOCJA)	BONGAS	BONGAS	19c	4	3		DO.	WAVE	WEDGE-SHAPE	DO.	DO.
83 70	MERTODIKORO	SLATMAN (JOCJA)	SLATMAN	SLATMAN	25c	BETWEEN 3 & 4	BETWEEN 2 & 3		DO.	STRAIGHT	DO.	VERY SLIGHT	DO.
84 60	SALEM	NABOMEN (SOLOJERTA)	NABOMEN	NABOMEN	40c	BETWEEN 4 & 5	4		DO.	DO.	DO.	SLIGHT	THICK
85 61	SUPOTIKROMO	KALI ORSO (SOLID TIGA)	KALI ORSO	BATAVIA	33c	DO.	3		DO.	DO.	DO.	DO.	MEDIUM
86 69	SARIP	GETAS (SAMATANG)	GETAS	GETAS	23c	BETWEEN 4 & 5	4		DO.	DO.	DO.	MEDIUM	DO.
87 64	SAPPAN	SAMARANG	SAMARANG	SAMARANG	25c	BETWEEN 4 & 5	2		DO.	SLIGHTLY WAVY	DO.	DO.	UPPER, MEDIUM LOWER, THIN
88 43	KANDRI	SURABAYA	SURABAYA	SURABAYA	26	DO.	3		DO.	STRAIGHT	DO.	SLIGHT	THICK
89 52	MAITO	BUMPI (LANDOAN)	BUMPI	BUMPI	19c	5	3		DO.	SLIGHTLY CURLY	BROAD	VERY SLIGHT	THIN
90 68	SARIDIN	SUWALAN (SURABAYA)	SUWALAN	SUWALAN	25c	BETWEEN 4 & 5	BETWEEN 2 & 3		DO.	STRAIGHT	WEDGE-SHAPE	SLIGHT	THICK
91 71	LAUT	AT SEA	KAPUTRAN (SURABAYA)	KAPUTRAN	25c	DO.	DO.		DO.	DO.	MEDIUM	MEDIUM	MEDIUM

JAVANESE.

TABLE 2. MEASUREMENTS.

CRANIAL POUNDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
75	1510	1505	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502
76	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
77	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
78	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
79	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
80	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
81	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
82	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
83	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
84	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
85	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
86	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
87	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
88	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
89	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
90	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
91	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
MAXIMUM	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
MINIMUM	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
RANGE	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505
WEIGHT	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00	1505.00
PERCENTAGE	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05
STANDARD DEVIATION	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
PERCENTAGE	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05	15.05
CORR. VARIABILITY	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
 

MISCELLANEOUS.

TABLE 1. DESCRIPTIVE CHARACTERS.

NUMBER GEN. ORIG.	NAME	OWN	BIRTHPLACE FATHER'S	MOTHER'S	SKIN	COLOUR	EYES	HAIR CHARACTER	SHAPE OF FACE	PROGNATHISM	LIPS	REMARKS
ORANG BAKIK PAPAN.												
92	69 KUMUT	SUNG-PENJANGULIN	SUNG-PENJANGULIN	DO.	DO.	DO.	DO.	DO.	WEDGE-SHAPE	DO.	DO.	SON OF (95), MARRIED TO SISTER OF (94).
93	90 PUNAY	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	MARRIED TO DAUGHTER OF (95).
94	91 SINDRAY	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	SUBJECT'S BROTHER IS BROTHER OF FATHER OF (93).
95	92 SINDUN	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	FATINGSKI (CHIEF) OF SUNGEL PENJANGULIN.
96	93 SINDONO	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	BROTHER OF (94).
97	94 MAKAI	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	SON OF (93).
ORANG TIRAMAN.												
98	76 SIAPIT	TARAKAN	TARAKAN	DO.	DO.	DO.	DO.	DO.	WEDGE-SHAPE	DO.	DO.	UPPER, THIN LOWER, THICK
99	77 ULANG	SILIN BATU (BULONGAN)	LINGKAS (TARAKAN)	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	UPPER, THIN LOWER, THICK
ORANG BULONGAN.												
100	56 MOHAMMAD	TANJONG PLAS	BULONGAN	DO.	DO.	DO.	DO.	DO.	LONG & NARROW	DO.	DO.	SAID HE WAS SMALL BECAUSE VERY ILL WHEN YOUNG.
101	80 ILIS	TANJONG PLAS	TANJONG PLAS	DO.	DO.	DO.	DO.	DO.	BROAD	DO.	DO.	SKIN DISEASE FOR THE LAST 10 YEARS. SKIN PELLIN
102	82 UMAR	DO.	DO.	DO.	DO.	DO.	DO.	DO.	WEDGE-SHAPE	DO.	DO.	A CROSS. FATHER WITH FOOTGORESE, MOTHER WITH
103	65 LONGKA	BULONGAN	AUBON	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	NAME CHANGED TO SALEH BECAUSE OF ILLNESS, BUT
104	86 ACHMAD	TANJONG SATOR	PONTIANAK	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	STILL USE ACHMAD A CROSS. PONTIANAK-BULONGAN.
105	62 MOHAMMAD SAHID	SENGKAWIT	PAMTADAN (SULU)	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	A CROSS. SUGU-BULONGAN
BUGIS.												
106	100 JANIRAO	MANGKASSAR	BANTAI (MANGKASSAR)	DO.	DO.	DO.	DO.	DO.	VERY SLIGHTLY BROAD	DO.	DO.	A CROSS. FATHER BUGIS, MOTHER BULONGAN. SON'S
107	106 LOSIN	DO.	MANGKASSAR	DO.	DO.	DO.	DO.	DO.	VERY SLIGHTLY WAVY	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
108	58 SIANGUN	TANJONG PLAS	DONGALA	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	A CROSS; FATHER BUGIS, MOTHER BULONGAN. SON'S
109	63 UMAR	SENGKAWIT	PAIR PAIR	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
110	81 SANGHE	TANJONG PLAS	TUPRE (SANGHE)	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	A CROSS; FATHER BUGIS, MOTHER BULONGAN. SON'S
111	83 SINJAR	TANJONG PLAS	TINPE	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
BANTAYAN MALAY.												
112	11 IDIE	PURWAKATA	MESTER CORNELIS	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
113	78 JALIRUN	PULAU GADING	PULAU GADING	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
114	104 EKONG	MESTER CORNELIS	MESTER CORNELIS	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
115	67 SANIP	KEBIN KLAPA	KEBIN KLAPA	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
116	105 ALI	KEBIN KLAPA	KEBIN KLAPA	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
117	75 NASAN	KEBIN KLAPA	KEBIN KLAPA	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
118	45 AYMAN	BEKASI	BEKASI	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	GRANDMOTHER SISTER OF GRANDMOTHERS OF (110) & (111)
SUMATRA MALAY.												
119	36 ABUN	MAGA BEHALI (EAST SUMATRA)	MAGA BEHALI	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	POSBALING TWISTED AT THE ELBOWS.

MISCELLANEOUS.																																	
TABLE 2. MEASUREMENTS.																																	
SERIAL NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
ORANG BATHI PAPUAN.																																	
92	1546	1677	1085	798	517	902	593	825	824	807	199	894	184	210	136	195	126	176	155	132	95	108	70	144	47	42	40	88.1	75.0	49.6	85.1	5r	
93	1601	1703	1064	854	533	924	576	791	494	314	196	294	184	190	119	178	111	183	152	139	92	96	67	142	47	41	40	83.1	76.0	47.2	85.0	49	
94	1559	1667	1083	768	500	854	605	805	685	288	187	279	181	182	128	118	170	147	124	91	99	60	137	43	39	40	86.5	73.0	43.8	92.1	44		
95	1584	1698	1071	797	503	905	571	819	518	288	182	272	172	214	136	201	127	179	147	126	94	95	66	137	49	47	40	82.1	76.0	40.2	81.7	49	
96	1443	1550	1055	741	513	807	559	781	641	291	181	252	175	156	136	195	129	172	132	110	90	97	55	128	39	33	37	76.7	64.0	43.0	94.8	41	
97	1501	1646	1095	744	495	885	556	789	585	282	188	286	177	168	124	179	119	175	148	139	87	93	60	134	43	38	37	84.6	79.4	44.0	86.1	41	
MEAN	1535.50	1831.67	1076.00	783.67	510.17	871.17	568.67	801.67	522.33	290.00	188.17	274.50	179.67	197.83	129.00	186.83	124.67	176.83	146.83	120.00	91.17	96.00	63.00	137.00	44.67	40.00	39.00	83.52	73.90	45.93	87.63	45.67	
ORANG TAIKIAN.																																	
98	1593	1696	1084	826	518	845	589	770	488	237	180	275	172	168	118	169	106	126	122	144	133	94	99	64	140	45	39	39	79.1	73.1	45.7	86.7	50.5
99	1541	1608	1041	773	501	777	604	737	478	286	198	284	188	198	137	197	121	180	153	124	96	104	65	140	47	42	40	85.0	80.9	46.4	85.1		
ORANG BULOAN.																																	
100	1528	1600	1047	762	493	825	540	768	818	270	179	255	167	156	128	197	122	179	146	135	96	98	61	122	44	40	37	81.6	74.3	47.7	84.1	42	
101	1589	1708	1074	850	555	883	556	822	518	302	190	283	178	206	139	190	120	178	150	137	95	104	64	138	46	40	40	86.7	79.2	46.3	87.0	55.5	
102	1548	1702	1103	831	539	860	551	770	499	270	175	253	164	210	136	195	126	176	151	138	90	101	58	133	40	35	39	85.8	78.4	43.6	87.5	46.5	
103	1621	1721	1061	846	556	866	546	804	496	276	170	270	168	216	135	199	123	177	156	135	101	98	71	138	50	46	37	86.1	75.1	51.5	74.0	51.5	
104	1599	1686	1054	818	512	924	578	832	520	290	181	280	175	225	141	182	120	173	157	120	106	67	129	50	47	37	90.8	76.8	46.2	74.0	60		
105	1587	1656	1044	837	527	881	583	810	510	270	170	251	158	217	127	196	123	171	145	127	89	100	62	133	48	40	39	83.6	74.3	46.6	90.7	50.5	
MEAN	1577.67	1679.00	1055.83	825.33	531.33	874.33	564.83	804.33	520.50	275.67	178.17	266.33	166.00	228.00	134.00	193.17	122.33	174.83	150.50	135.00	95.17	103.17	63.81	134.82	45.50	41.33	38.17	86.10	75.80	47.50	84.56	51.00	
BOSIA.																																	
106	1501	1515	1008	854	540	905	577	817	810	308	192	297	185	218	138	202	126	180	159	131	104	109	70	148	52	46	39	83.8	72.8	47.3	75.0	59.5	
107	1518	1600	1055	782	580	931	548	765	504	269	177	259	171	198	126	169	111	188	156	145	99	100	58	133	40	36	39	83.0	77.1	43.6	87.5	46	
108	1505	1584	1055	783	520	902	600	658	570	297	197	270	179	206	136	197	131	188	148	126	95	104	59	137	39	34	37	77.1	65.6	43.0	94.8	51	
109	1582	1740	1040	836	528	980	555	844	535	288	179	271	171	224	141	190	133	171	147	124	95	103	71	136	45	42	39	86.0	72.5	46.2	86.7	55.5	
110	1578	1666	1056	835	559	876	556	800	507	285	179	266	169	208	128	182	122	182	153	129	96	104	61	136	45	38	36	84.1	70.9	46.3	80.0	51.5	
111	1482	1577	1044	769	519	876	590	868	559	276	186	281	176	217	146	202	126	179	146	134	94	99	61	135	43	35	39	81.6	74.8	45.2	90.8	46.5	
MEAN	1544.33	1631.67	1036.50	813.17	526.83	901.50	571.00	818.67	520.50	284.00	185.00	270.67	175.17	206.83	136.00	196.33	126.50	185.00	151.50	131.60	97.17	103.17	63.82	137.82	44.00	38.83	38.17	83.35	72.80	46.27	87.47	51.67	
BAKUTAN MALAY.																																	
112	1582	1540	973	836	526	820	518	780	493	273	172	245	155	186	117	174	110	176	156	128	85	94	64	126	46	43	41	86.6	72.7	47.0	89.1	49	
113	1686	1707	1045	886	542	922	564	872	533	300	183	286	175	214	131	202	123	185	157	139	98	110	69	146	49	43	42	84.9	75.1	47.3	85.7	64	
114	1687	1704	1010	894	520	900	533	880	504	309	193	286	175	209	124	200	119	172	151	130	88	102	67	138	46	40	33	87.8	75.6	48.5	82.6	64	
115	1684	1691	1016	847	509	845	508	794	471	275	166	258	155	206	123	135	111	173	144	135	90	103	73	132	47	44	37	83.2	70.0	55.3	78.8	51.5	
116	1634	1733	1051	827	512	912	558	829	507	284	168	212	191	217	133	202	124	189	157	140	99	108	62	140	42	39	39	83.1	74.1	44.3	92.9	60	
117	1607	1691	1052	846	528	900	560	835	500	293	182	275	171	217	136	200	124	178	152	136	92	100	63	140	39	35	38	85.4	76.4	45.0	97.5	60	
118	1631	1670	1022	836	513	892	546	849	500	298	183	282	173	214	131	190	121	179	153	138	93	102	60	133	44	41	34	86.5	73.8	45.1	77.3	61	
MEAN	1634.43	1676.57	1025.29	864.71	523.14	904.43	541.00	889.43	505.86	296.00	180.86	279.00	170.71	208.71	127.71	194.43	119.66	176.66	152.66	134.29	98.14	102.71	65.45	137.86	44.71	40.71	38.45	85.50	75.10	47.50	86.27	58.5	
119	1547	1584	1055	815	526	890	575	845	546	286	185	268	173	211	136	199	122	182	152	132	103	116	69	129	43	38	41	83.5	72.5	49.6	95.4	55	

18. Head, Length.
19. „ Breadth.
20. „ Radii, Vertical.
21. „ „ Upper Nasal.
22. „ „ Alveolar.
23. Face, Upper Length.
24. „ Maximum Inter-Zygomatic Breadth.
25. Nose, Height.
26. „ Length.
27. „ Breadth.
28. Indices, Cephalic.
29. „ Vertical.
30. „ Facial.
31. „ Nasal.
32. Weight in kilogrammes.

All of these measurements were made in accordance with the Report of the Anthropometric Committee of the British Association, published by the Royal Anthropological Institute.