

A MALE AND FEMALE DWARF FROM THE SEMLIKI FOREST.



THE UGANDA

PROTECTORATE

AN ATTEMPT TO GIVE SOME DESCRIPTION OF THE PHYSICAL GEOGRAPHY, BOTANY, ZOOLOGY, ANTHROPOLOGY, LANGUAGES AND HISTORY OF THE TERRITORIES UNDER BRITISH PROTECTION IN EAST CENTRAL AFRICA, BETWEEN THE CONGO FREE STATE AND THE RIFT VALLEY AND BETWEEN THE FIRST DEGREE OF SOUTH LATITUDE AND THE FIFTH DEGREE OF NORTH LATITUDE

BY

SIR HARRY JOHNSTON

G.C.M.G., K.C.B.

Gold Medallist Royal Scottish Geographical Society
Gold Medallist Zoological Society
Formerly Special Commissioner to the Uganda Protectorate
etc., etc.

IN TWO VOLS.

WITH

506 ILLUSTRATIONS FROM DRAWINGS AND PHOTOGRAPHS
BY THE AUTHOR AND OTHERS

48 FULL-PAGE COLOURED PLATES BY THE AUTHOR

9 MAPS BY J. G. BARTHOLOMEW AND THE AUTHOR

VOL. II.

LONDON: HUTCHINSON & CO.
PATERNOSTER ROW
1902

PRINTED BY
HAZELL WATSON, AND VINEY,
LONDON AND AYLESBURY



CONTENTS OF VOL. II

CHAPTER XIII	PAGE
Anthropology—Appendix: Analysis of Anthropometric Observations of Author, by Dr. F. Shrubsall	
CHAPTER XIV	
Pygmies and Forest Negroes—Appendix: Notes on a Bambute Pygmy Skeleton, by Dr. F. Shrubsall	's . 510
CHAPTER XV	
BANTU NEGROES: THE BAKONJO, BANYORO, BAHIMA, ETC	. 566
CHAPTER XVI	
BANTU NEGROES: THE BAGANDA AND BASOGA	. 636
CHAPTER XVII	
Bantu Negroes: Kavirondo, Masaba, etc	. 722
CHAPTER XVIII	
NILOTIC NEGROES	. 756

LANGUAGES-Appendices: Fifty Vocabularies and additional Philological

		CHA	PT	ER X	IX			
Masai, Turkana, Sü	k, Nandi,	ETC.						796
		СНА	PT	ER X	CX			

COLOURED ILLUSTRATIONS IN VOL. II

HILE.

268. A Munande (same individual as No. 267) .

NO.

BOURCE.

512

513

NO.		- 11	166.	550 100	10-2015								NAME OF THE PARTY	
43.	A male and female d	war	f from	the Ser	nlik	ki Fo	rest	•		Painting by	the			528
													To face p	616
44.	A Muhima of Mpóro	ro .		•				•		"	,,	**	**	624
45.	An Ankole bull .				٠		*	*		,, ,		**	**	824
46.	A Masai warrior .	æ		41			•	•		yy :		,,,	**	
47.	A Nandi									,, ,	,	**	**	860
48.	A Kámasia	,			٠					,,	,,	**	**	000
	3.6.3													
			7.5	PS	7	INT	17	OT		TT				
			IVI. A	LPS		III	V	OL.		11				
				14.00										
No.			1	TILE.										
8.	Uganda Protectorate	· cl	naracte	r and d	list	ributi	on of	the n	ati	ve races .			To face p.	486
9,	Uganda Protectorate		movel .	listriby	itio	n of l	angu	BOP OT	on	13			,,	884
.,	Oganda I rotectorate	, 8	and the c	Houring	icio	M OI	mri B c					-	**	
BI	LACK AND	W	тні	тЕ	П	LLI	US	TR	A'	TIONS	H	V	VOL.	11
	Dilor III.						-							
NO.			TITLE.								URCE.			PAGE
254.	A Pygmy of the Cor	ama	Karost						1	A Drawing	by t	he A	uthor,	472
		-			•	•	•	•		from Autho				473
255.									•	Photograph		the		474
256.		ngo	Forest			/TD.			•	**	"		••	475
257.				ount P	ugo	m (Da	igesu		*	n! . " .	, "			
258.					*	•	•			Photograph	by .	Mr.	Doggett	
259.						•				**	**		**	476
260.										***	**			478
261.							•						. 11	478 479
-262.									*	**	**		,,	478 479 480
		iyar	nwezi)							.;	"			478 479
263.	A good-looking ty	pe (of Bant	u: a :	nati	ive o	f Ko			••	"			478 479 480 481
	A good-looking ty (Kakumega) .	pe o	of Bant	u: a :	nati		f Ko		lo		"	the	,,	478 479 480 481 483
264.	A good-looking ty (Kakumega) . Acholi Nile Negroe	pe o	of Bant	u: a :	nati	ive o	f Ko			••	"	the		478 479 480 481
	A good-looking ty (Kakumega) . Acholi Nile Negroe Hima and Bantu:	pe o	of Bant	u: a :	nati	ive o	f Ka			Photograph	 by 	the	" Author	478 479 480 481 483 484
264. 265.	A good-looking ty (Kakumega) . Acholi Nile Negroe Hima and Bantu: 1. Hima of Ank	pe o	of Bant 2. M	u: a 1	nati	ive o	f Ka			Photograph	 by	the	" Author	478 479 480 481 483 484 485
264.	A good-looking ty (Kakumega) . Acholi Nile Negroe Hima and Bantu: 1. Hima of Ank A Muhima of Mpói	pe o es ole,	of Bant 2. M	u : a :	nati	ive o	f Ka	•		Photograph	 by 	the	" Author	478 479 480 481 483 484

289. An "spe-like" Negro from the verge of the Congo Forest : (A Drawing by the Author,
Mubira or Munande rii

viii BLACK AND WHITE ILLUSTRATIONS IN VOL. II

NO.	TITLE,	The second secon	RCE.		CONTRACTOR STATE	PAGE
270. 271.	An "ape-like" Negro (same as No. 269)	Photograph	by t	he .	Author	514
211.	Bambute Pygmies from the Congo Forest (west of the Semliki River)					515
272.	Three Bambute Pygmies	::	**		•••	516
273.	An Mbute Pygmy from beyond Lupánzula's (Upper Ituri		"		"	
	District)	,,	**		••	517
274.	An Mbute Pygmy (same as No. 273)	,,	**		,,	518
275.	A Pygmy woman of the Mulese stock, Upper Ituri .	***	,,		.,	519
276.	A Pygmy woman from Mboga, west of Semliki	,,	1)		.,	520
277.	A group of Bambute Pygmies	••	**		,,	521
278.	Bambute Pygmies at Fort Mbeni, Upper Ituri	,,	••		••	522
279.	Bambute Pygmies at Fort Mbeni	**	**		•••	522
280.	Bambute Pygmies (to show attitudes).	***	**		••	523
281.	A Pygmy woman from Mboga (west of Semliki River, near Upper Ituri)					524
282.	An Mbute Pygmy, Upper Ituri	••	**		••	525
283.	An Mbute Pygmy, Upper Ituri	"	**		••	526
284.	A Pigmy women of the Babira group, Congo Forest	**	"		**	020
	(west of Albert Edward)		,,		,,	527
285.	A Pygmy woman of the Babira group	.,	,,		••	528
286.	A Pygmy woman, Mulese stock (same as No. 285)	,,,	**		**	529
287.	Two Bambute Pygmies. (The figure on the left is the one					
	who died in Uganda in March, 1900, and whose skeleton					200
288.	is described on p. 559)	,,	**		,,	530 531
289.	A Dwarf woman from Mboga A Dwarf woman from the Babira country	39	,,		**	533
290.	A Pygmy child from Mboga	,,	**		"	534
291.	A Pygmy child from Mboga	,,	"		"	535
292.	An Mbute Pygmy	. "	**		"	536
293.	Two Bambute Pygmies		**		"	537
294.	An old man Pygmy from near Lupánzula's (Upper Ituri	,,	**		,,	
	District)	**	**		**	538
295.	A Pygmy chief and his brother (Bambute). (The chief is					
	the individual on the left, and is 5 feet 1 inch in height)	**	**		**	539
296.	Pygmies dancing	**	**		,,	541
297.	Pygmies dancing	**	**		**	542
238.	Pygmies dancing: a halt to consider the next figure .	**	**		**	543
299.	Pygmies eating	,,	**		11	544
300.	Pygmy weapons and implements: dagger and scabbard, knives, chopper, arrows and quiver, a soft leather pad					
	or glove to guard left hand when the arrow is being		. 5			
	shot from the bow, bow and arrows	Photograph	by	Mr.	Doggett	545
301.						- 40
900	tusks	,,	"		**	546-
302.	네트 경기가 있었다면 하는 바다 하는 사람들이 이번 이 때문에 가장 하면서 하는 아니라 하는 아니라 하는 사람들이 아니라 하는 사람들이 하는 것이다.	Distant.	,"	42.	", d==d1===	547 548
304.		Photograph	by	the	Author	040
30%	with Hima invaders of past times)	Photograph	bu	Mr.	Doggett	549
305.			-5		2039000	0.0
	figure)	Photograph	by	the	Author	552
306.	An Mbubs of the Ituri Forest, with ox horn trumpet .	.,	,,		**	554
307.	. Natives of the Upper Congo, near Aruwimi mouth (show-					
000	ing cicatrisation and teeth-sharpening).	. "	,,		,,	555-
308.	An Mbuba playing on a bow-string, the most primitive of man's instruments					KAT
309.		,,	**		,,	558-
310.		. "	"		"	000
(13.3)	individual whose skeleton is here described).		**		,,	559
311.		Photograph	by	Mr.	Dogget	
312		, ,,	,,,	41 19	***	568
17 (1)	WORLD STREET TO AND ADDISON THE TOTAL TO SEE THE TOTAL T					

BLACK AND WHITE ILLUSTRATIONS IN VOL. II ix

o.	TITLE.		ALCOHOLOGIC CONTRACTOR	URCE.	102075-041-0-1	PAGE
313.	A Mukonjo (showing raised weals—cicatrisation)		. Photograph	by the	Author	569
314.	A Mukonjo woman with grass armlets		,	,,	**	570
315.	Two Bakonjo		. ,,	,,	**	571
316.	A Mukonjo woman		. ,,	**	**	572
317.	A Mukonjo man from the south of Ruwenzori .		. ,,	**	"	573
318.	A Mukonjo (showing baboon skin mantle)			••	**	574
319.	A Konjo house, south west slopes of Ruwenzori		Photograph Major Site		late }	575
320.	In a Konjo village, western slopes of Ruwenzori				.,	576
321.	Collocasia arums, the root of which is eaten by	natives o			_	
	West and West Central Africa		. Photograph	T. 1		577
322.	A Mukonjo smoking tobacco from a pipe made o leaf stalk	f banana	- { A Drawing \(\) . \(\) from Autho			578
323.	A Konjo shield, Ruwenzori		. Photograph	by the	Author	579
324.	Toro peasants (tall and short)		. ,,	**	**	530
325.	A woman of Toro				**	581
326.	A chief's wife, Toro		. "	,,	,,	582
327.	A king's messenger, Toro		. "	,,	,,	583
328.	Chiefs of Mboga (a territory west of the Semliki	River				584
		TELVES /	• ••	**	**	585
329.	A Munyoro man (of Kabarega's family)	•	. ,,	**	,,	586
330.	A Munyoro man (of Kabarega's family)		. "	,,	**	
331.	A Munyoro		. "	**	"	587
332.	A ram and ewe of the large fat-tailed Unyoro	breed o	of .			#00
	sheep		. ,,	,,	**	588
133.	A fat-tailed sheep from Unyoro		. A Drawing	by the	Author	589
334.	Kasagama, king of Toro, and his mother (a p Unyoro)	rincess o	of . Photograph	by the	Author	599
335.	A Mu-iro and a Mu-hima: (a) is the Mu-iro (Ba-iro); (b) is the Mu-hima (l	Ba hima	,,	,,	,,	608
336.	Ba-hima and Ba-iro (the two middle figures are I	Ba-hima)		**	**	611
337.	The mixed type : half Hima, half Iro (Negro) .	V. 1000 -	. ,,	**	**	612
338.	A crowd in Ankole: half Ba hima, half Ba-iro .					613
339.	A Muhima of Mpóroro		. "	"	"	614
340.	A Muhima of Mpóroro (same individual as No. 3	39)	A Drawing			615
	로 보는 보고 있는 것이 하면 하면 되었다. 그 보고 해를 보고 있는 것이 되어 보고 있는 것이 되었다. 그런 보고 있는 것이 되었다. 그런 보고 있는 것이 없는 것이 없는 것이 없는 것이 없는 것 	00,	· \ from Autho	-	7	
341.	A Muhima of Ankole	•	. Photograph			617
342.	A Muhima woman of Ankole		. Photograph	by Mr.	Doggett	618
343.	An old Muhima woman, Ankole		. ,,	* *1	**	619
344.	A Muhima woman, Ankole		. ,,	**	**	621
345.	A Muhima woman, Uganda	٠.	. "	,,	,,	622
346.	Muhima man, after herding cattle, smeared with	kaolin	. Photograph	by Mr.	Doggett	623
347.	Hima cattle		. Photograph			624
348.	Hima weapons and implements: spears, bows quivers, shields, women's grass aprons, "milk'	, arrow	s			
	choppers		. Photograph	bu Mr.	Doggett	625
349.	Hima and Iro spears	4	,	"	"	627
	***		Photograph burgh Mu			
350.	Hima quiver and arrows		and Art,			628
351.	Hima "beer" pot in blackened clay			h. 16.	Donnett	629
352.	그래말 그렇게 되었다. 그리고 있었다면 그리고 그가 있었다. 그리고 말했다면 하다 하는 그리고 그리고 그리고 그 그리고 있다.	ant flam	. Photograph	og lar.	Doggett	029
002.	on the left is the prime minister, the second	irst figur and is th	е			
989	young king)		. Photograph	by the	Author	633
353.	A man of Toro	•	• •,	**	**	634
354.	A Muganda			***	**	637
355.	A Muganda		• •	***	18	639
356.	Baganda soldiers of the King's African Rifles .		. ,	**	**	641
357.	A Muganda woman		. Photograph	by Mr.	Doggett	643
358.	A Muganda woman	100	A . 1946 1 14 11 11	19 2. 10		645
	a regression with the communication of the communic		The state of the s	110	**	

x BLACK AND WHITE ILLUSTRATIONS IN VOL. II

NO.		TITLE.								URCE			PAGE
359.	Making bark-cloth								Photograph				649
360.	The "clothed Baganda								Photograph	by	the	Author	650
361.	An Ugands crowd								,,	**		**	651
362.	The Special Commission			wd o	f Ba	gand	a gue	sts					
	on the late Queen's	birthday							Photograph	by	Mr.	Doggett	652
363.	An Uganda house		*						Photograph	by	the	Author	653
364.	Chief's house, Uganda									**		**	654
365.	Peasant's hut, Uganda								**	**		**	655
366.	Framework of an Ugan	nda hous	е.						**				656
366A.	Plans of Uganda build	ings .						1	Drawing by	Mr	. F.	Pordage	
		•										o face p.	656
367.	A house and courtyard	. Ugand	n.		2				Photograph	bu			657
368.	Interior of a native chi					- 5	100						658
369.	An Uganda canoe	08		100	20			100	,,	**			659
400.	An Oganda Canoo					•			(Photograph	1	110	Vdin \	0.70
									burgh Mus				7270272
370.	Model of an Uganda c	anoe .				18			and Art,				660
								-	collection)	
371.	The first attempt of U												
	vehicle. (This littl	e cart be	longs	to th	e pr	ime r	ninis	ter,	14			_	
	Apolo)		•						Photograph				662
-	. "			Ç					(Photograph	by	the	Edin-	
372.	Uganda pottery (a m	ilk-pot a	nd t	obacc	o p	ipes)	and	an	burgh Mu	seun	a of S	Science 1	663
	Uganda flute .			*	•				ana Art,	Iroi	n A	thor's	-
373.	A hand of music, days								Collection	1		4	nes
	A band of music: dru			des	*	•		•	Photograph				665
374.	The "amadinda" (a x	cytopnone	2)			1.5	-	•	Photograph				667
× .									Photograph				
375.	An Uganda shield		28						burgh Mu and Art,				669
									collection	jioi	n A	action s	
376.	Method of carrying pi	ne slung	over	the le	ft al	hould	or		A Drawing	7	Mr	Doggett	675
377.		are (beg						œo.	11 Drawing	00		Dolline	010
	the Muhammadan												
	wanya (a regent)	Kangav	VO (rege	ent)	; a11	"0	ve-					
	sadza" (governor	of a dis	strict); P	aul	Muk	wend	la;	22.0	2			
	and another Owesa	den .			•				Photograph				683
378.	Hegenda women .			٠.		٠.			Photograph				
379.		gent and	prin	ne mi	niste	er of	Ugai	ida	Photograph	by	the	Author	696
380.	A Musoga								**	**		**	715
381.	"Tall, peaked fetish					ed g	Tass	ex-	2 -27 32			2.72	
1000	tinguishers" over		liba	tions					A Drawing				717
392.	An albino child in Bus								Photograph	ь'n	the	Author	
383.	A woman of the Bosia						Elgo	n.	,	**		**	723
384.	Bagesu (Bakonde, Ma	saba) pec	ple o	of We	st E	lgon			***	**		,,	725
385.	A Kakumega chief, sou	th of Nz	oia R	iver,	Nor	th K	viro	ndo	**	**		**	727
386.	Kavirondo women, Na	zoia Rive	r.						٠,,	,,			729
387.	Kavirondo woman, N	zoia Rive	r.							••		**	730
388.	Kavirondo men (shov	ving orn	amen	tal d	esig	ns in	clay	on					
	the legs)								**	**		,,,	731
389.	Kavirondo men and t	heir ador	nmer	ats					**	• • •		**	732
390.	A " matinée hat": K	avirondo	(in I	Caku	negs	cou	ntry)					**	733
391.	Plan of a Kavirondo								A Drawing	1 60	the	Author	734
392.	In a Kavirondo villag			4.5					Photograph	by		Author	
393.	A walled village in K	avirondo	nor	th of	Nzoi	a Ri	ver	- 5		- 65			736
394.	Gate of a walled town	- A SHOW						.=0	,,	**			737
393.	'Arched gateway of a		wn 1	Kavi-	onde				.,,	"		,,	738
396.	Peaks of the roofs of t	he Mare	ha h	MIROS	W	at P	lann		A Prawing	, ,,	, +1.		10000
397	A field of sorghum (de			vuotti,		. II	ROIL						
396					. "			*	Photograph	Oy	the	Auctor	
-	Tama female ostriche	e in agun	ITH B	AIRE	e, A	MAJLO	mao		,,	**		,,	741

BLACK AND WHITE ILLUSTRATIONS IN VOL. II xi

NO.	TITLE.						OURCE.		PAGE
399.	Warriors and shields, Kavirondo			•		Photograph			743
400.	A Kavirondo wizard		1.5			Photograph			751
401.	A Kavirondo musician, with lyre					Photograph			753
402.	A dance in Kavirondo					Photograph	by Mr.	Doggett	
403.	A pas de deux in a Kavirondo dane	e. '	*			,, '	,,	**	755-
404.	A Bari Negro, Gondokoro, White I					Photograph	by the	Author	757
405.	A Bari Negro, Gondokoro, White I					,,	**	**	758
406.	Karamojo and Nilotic Negroes fr	om 1	northe	rn pa	rt of				
100.	Karamojo and Nilotic Negroes fr Central Province. (The second	figur	e fron	n the	right		100		.==0
	shows typical shape of Nile Neg	ro's le	egs)			**	**	**	759
407.	A Logbwari (Madi) Negro (mixed r	ace o	f Nile	Neg	o and		t		
	Bantu)					**	**	**	760
408.	Karamojo Negroes (showing "pen	cils "	thru	st int	to the		- 0		2
	lower lips)					,,	11	,,	761
409.	A Dinka Nila Norra					(Photograph	by Mr.	E. N.	762
400.	A Dinka Nile Negro			•	. 37	Buxton		,	
410.	A Dinka					,,	**	**	763
411.	A Bari Negro from Bedden, White	Nile				Photograph	by the	Author	764
412.	A Madi chief, Acholi District, Nile	Prov	ince			**	**	**	765
413.	An Acholi (Nilotic) Negro					,,	**	,,	766
414.	An Acholi Negro					,,	,,	**	767
415.	Madi woman					Photograph	by Mr.	Doggett	768
416.	Madi women at their hair-dressing					,,	,,	,,	769
417.	Madi woman pounding corn in a wo	ooden	morta	ar			**	,,	770
418.	Aluru woman and child from Wade						"	,,	771
419.	Aluru woman and child from Wade			54		.,	,,	,,	772
420.	Lendu woman (probably of mixed I		and l	Madi	stock)	,,	,,		
720.	from west coast of Lake Albert					**	**	**	778-
421.	Lendu woman (probably of mixed I	Lendt	and l	Madi	stock)	,,		4.7	
	from west coast of Lake Albert		•			,,	,,	**	774
422.	In a Dinka village (to show mode of	of tha	tching	huts	char-	(Photograph	by Mr.	E. N.)	775
	acteristic of the Nile Negroes)					Buxton			110
						(A Drawing			-
423.	Ground plan of an Acholi house .	0.00				from Ma			776
			2000.0			cliffe's inf			
424.	Sudanese selling fried termites (whi			•		Photograph	by the	Author	777
425.	Head of Bukedi ox with crossed horn	ns fro	m Lan	go co	untry,				
	Central Province	•				A Drawing	oy · the	Autror	778
426.	A Lango chief wearing a helmet of	kauri	shells			"	,,	"	779
427.	A raft made of papyrus bundles, W	hite I	Nile		2 7	f Photograph	by Mr.	E. N.	780
3775				10	A. A.	Buxton			50-75/5
428.	Husband and wife, Ja-luo		1.5			Photograph	by the	Author	781
420.	Ja-luo women: tails and aprons.		6			,,	"	11	782
***	D					A Drawing			=00
430.	Pattern frequently shaved on men's	head	s (Ja-	luo)		from Mr		s in-	783
431.	A To law word with any sign					(formation	ACCURATE PROPERTY	442	704
432.	A Ja-luo man with ear-rings	•	•			Photograph	by the	Author	784
433.	A Ja-luo man with ear-rings .	•	1 65	٠.,		,,	**	**	.785
435.	Head-dress of feathers and neck and wire of Ja-luo men. (Note the p								
	teeth, due to the lower incisors h	wing	remov	ed)	HCISOL	- 20		of Vice	786
434.			1011101	cuj		Distance l		77	
435.	Ja-luo fisherwomen and their baske					Photograph	oy Mr.	Dogaett	788
100.	Ja-luo out fishing in Kavirondo Bay stalks	with	seines	or pa	pyrus				789
436.	Emptying the fish-baskets (Ja-luo)	2.0	4 *			31 ∈ ×	**	91	791
437.		mth.	ide of	V	irondo	. ,,	,,,	*1	191
-04.	A medicine man from Nyakach, so Bay	outh (arde or	Lav	LONGO	Photograph	by the	Author	793
438.	The game of "bao," played all over	er Fa	st Cen	tral	frice	- wood apr	9 0100	21 Wildi	
- 2	(The players here are Yao soldie	rs fro	m Bri	tish C	entrel	57725			19 19
	Africa)					Photograph	by Mr.	Casson	.795
	24 F W								7

xii BLACK AND WHITE ILLUSTRATIONS IN VOL. II

NO. 439.	:Gwas' Ngishu Masai (bowmen)					Photograph	RCE		Author	797
440.	Pastoral Masai (warriors) of Naivasha			•	•	Photograph				799
441.	Enjámusi (Nyarusi) agricultural Masai	•		•		Photograph				801
	그 계계기가 되었는 경험을 받는데 가지 않는 사람들이 가지를 하는데 하는데 되었다. 그 그리고 가게 하지만 하는데 하고 있다.	*	•	•		A Drawing				802
442.	A Masai warrior (Naivasha)	•	•	•	•	1000 1000 1000 1000 1000 1000 1000 100		the		803
443.	A Masai warrior (Naivasha)			•		••	"		"	804
444.	Tattooing round a Masai woman's eyes		•	•		,,	"		**	805
445.	Masai elder with fur cape		•	•		71/-1	,"		"	
446.	Masai woman of Naivasha	٠.	:	•		Photograph	O,II	the	Author	806
447.	Young Masai women. (One of them is so she is having iron wire coiled round				у,	Photograph	Lui	Mr	Dogasti	807
448.	Masai matron		CBa)			Photograph				809
449.	Houses of the pastoral Masai	507		ė		18/1.37/	.,	· · · · · ·	**	811
450.	Houses of the agricultural Masai (Enjámu	si)	•			"				812
451.	A village of the agricultural Masai (Enján			•	188	,,	"		.,	813
452.	Masai cattle, Nakuro	,	20		10		**			814
453.	Masai sheep and goats						**		"	815
454.	Masai sheep		9			.,	"		•••	816
455.	Masai donkevs	•		•		.,	,,		"	817
456	Spears of Masai warriors. (Some of the	men	are	plavi	ner		,,,		"	
200	the game of draughts, illustrated on p.					Photograph	bn	Mr.	Doggett	819
457.	A Masai warrior with long spear .					Photograph	by	the	Author	820
458.	Bows of Gwas' Ngishu Masai					Photograph	by	Mr.	Doggett	821
459.	Warriors of the Gwas' Ngishu Masai .			Q.		Photograph	bu	the	Author	823
460.	Masai shields					**	**		**	824
461.	Masai warriors			9		,,			**	825
462.	Masai chief and medicine man (the late Te	erere)		. {	Photograph Stordy	Ьµ	Dr.	R. T.	831
463.	A Masai forge and blacksmith (Enjámusi)					Photograph	Ly	Mr.	Doggett	835
464.	Karamojo people		ŷ.	4	41	Photograph	by	the	Author	836
465.	A Karamojo woman					**	,,		**	837
466.	A Karamojo woman					,,	,,		,,	838
467.	Turkana and Sak men from the vicinity	of the	e Ril	bo Hi	11s					
~~~~~	and the River Kerio				(6)	***	,,		**	839
468.	A Suk from near Lake Sugota	*	٠			,,	**		**	840
469.	A Sak chignon					**	**		**	842
470.	Two tall Suk elders				•	22	,,		1)	843
471.	A Suk chief from north of Baringo .		20			**	**		**	844
172.	A group of Sak (showing tattooing on arm	is)		*		,,	."			845
173.	Ostrich egg and antelope "knuckle-b	'	,	alelaa		Photograph				
110.	Turkana, River Kerio	one .	ne	CKIAC	e : ,	burgh Mu and Art,				847
	2 11 11 11 11 11 11 11 11 11 11 11 11 11	7.	3.0		- ")	collection	J			
174.	A Suk stool			100	100	A Drawing	by	Mr.	Doggett	848
	•					Photograph	611	the	Edin-	
175.	A Turkana shield					burgh Mu	seu.	m of A	Science	850
	1 March 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997					and Art,	fro	m Ar	thor's	
176.	Suk dancing					Photograph	1		Authon	851
177.	Sük daneing	•		•	•	1 notograpa	U	une	Author	852
178.	를 보면 없는데 없는데 하면 없는데 이번에 가장 보면 보다 하면 없는데 보면 없는데 보고 있다. 그리고 있다면 보고 있다면 하는데 없는데 없는데 없다면 없다면 없다면 없다면 없다면 없다면 없다면 다른데 없다면				.,	**	"		"	002
E10.	Sak about to dance. (Note the lip-rin upper lip)	g in	·	• ma	ns	,,	**		,,	853
179.	A dance of the Suk people. (Note the fi	gures	jun	nping	in					
100	the air)					"	,,		"	854
180.	Elgumi people (sometimes called Wamia)					A Drawing				
181.	An Andorobo man of the Hamitic type	٠.	1.0			Photograph	by	the	Author	
182.	Two Audorobo of the Hamitic type .	•				,,	,,		**	858
183.	An Andorobo of the Pygmy type .	٠.			•	. "	***	100	**	859
184.	An Andorobo (same as No. 481)					, ,	**		**	860
185.	A Nandi					**	**		**	861
	(1) 이용 (1) 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1									

#### BLACK AND WHITE ILLUSTRATIONS IN VOL. II xiii

NO.				TITLE							801	RCE			PAGE
486.	A Nandi										Photograph	by	the	Author.	862
487.	Two Nandi e	hiefs		*							,,	**		••	863
488.	A Nandi										••	**		**	864
489.	A Nandi		190			4	20				,,	••		,,	865
490.	A Kamásia			2							A Drawing	by	the	Author	866
491.	A Kamásia										Photograph	by	the	Author	867
492.	A Sabei man	of the	Nandi	stoc	k. N	orth .	Elgo	n.			"	**		**	869
493.	Plan of Nand	li interi	or								A Drawing	by	the	Author	870
494.	House of Nor			gony	i), of	Sout	h E	gon			Photograph'	by	the	Author	871
495.	House of Sa								to	the					
1.552.00	dwellings of	of the l	Masal	nt Ba	intu)						"	,,		**	872
496.	Acoca athera s	chimpe	ri.								A Drawing	by	Mr.	Doggett	873
497.	"The fleshy,	juicy le	aves	of a l	cind	of sag	ge"				,,	**		**	874
498.	Slips of bark like black									ich,	,,	,,		,,	875
499.	A zingiberace by the A gluing on	ndorobe	for	smea	ring	bran	ches,	and	also	o for					
	with featl	iers glu	ed on								**	**		,.	876
500.	An Andorobo	game-	pit, w	ith g	TRES	cover	ing 1	emov	red		A Drawing	by	the	Author	877
501.	Sword ("sim Andorobo		d scal			long		er of	east	tern	Photograph	Ьи	Mr.	Doggett	878
502.	Spears of the							-							879
503,	A Kamásia w			ion's	skin	head	-dres	44 .	22				2		830
504.	Arrows and								ndo	robo					
	Kamásia										Photograph	bu	Mr.	Doggett	881
505.	Sketch map	of the	range	e of	lang	uages	illu	strate	d in	the					
	Vocabula	ries .									A Drawing	by	the	Author	900

### UGANDA PROTECTORATE

#### CHAPTER XIII

#### ANTHROPOLOGY

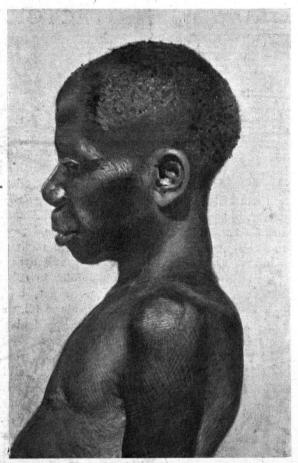
LL the researches made into the natural history of the human race practically result in our agreeing to recognise three main types, which here and there have interbred and produced hybrid peoples difficult to classify. These types are the yellow-skinned Mongolian, with narrow eyes, high cheek-bones, narrow, flattened nose, a tendency to paucity of hair on the face and body and, on the contrary, to long and coarse hair on the head (Mongolians, Chinese, Malays, Polynesians, and American Indians); a brown or white Caucasian type, with a distinct tendency to be hairy about the face and body, with head-hair long though inclined to be curly and usually fine of texture, of handsome features, full eyes, straight welldeveloped nose; and the Negro type, never lighter in colour than dark vellow, and strongly inclining to be black, with flat, bridgeless, widewinged nose, high cheek-bones, poor chin, and, above all, with head- and body-hair closely curled, woolly, and differing in this particular sharply from the Caucasian and Mongolian races of men.*

The Negro race certainly originated in Southern Asia, possibly in India, not far from the very centre where man himself emerged in some form similar to the Pithecanthropos erectus from a branch of the anthropoid apes. Perhaps on the whole the Negro retains more simian characteristics than any other existing type of humanity. On the other hand, some of his peculiarities depart from the simian, and would indicate a line of development on his own account, possibly somewhat on the down-grade. As regards hairiness of body, the European and Asiatic races belonging to the Caucasian type come much nearer to the anthropoid apes than does the Negro, though all Negroes perhaps exhibit more body-hair in a natural state than is usually supposed to be the case, it being a widespread custom throughout most Negro tribes (except the most degraded) to remove by artificial means the hair on face and body. The crimped or woolly

VOL. II.

^{*} There are anatomical details in which the Negro approximates more to the white race than to the Mongolian. 471

appearance of Negro hair is not, of course, an ape-like characteristic; indeed, the anthropoid apes have head-hair more resembling in appearance that of the Mongolian type of humanity, though in some chimpanzees I have noticed a tendency to wavy, "crimped" hair. In the shape of the skull,



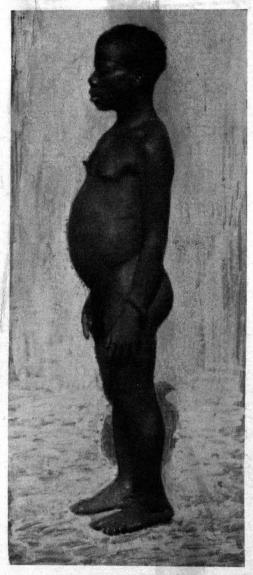
254. A PYGMY OF THE CONGO FOREST

in the foot, in the relative proportion of the limbs, the Negro species (which, it must be remembered, includes the ancient inhabitants of Tasmania, the Negritoes and Papuans of Eastern Asia and Polynesia) is less divergent from the ape than other living races of mankind.

The Negro type which originated in Southern Asia was possibly of an under-sized appearance, his skin, however, being rather yellower than black.

He must have wandered across the peninsula of Arabia, following, no doubt, the anthropoid apes which preceded him along the same route (Arabia then being well watered and covered with vegetation) into Eastern Africa, and in all probability he made his first permanent home within the limits of the Uganda Protectorate. In Arabia he either mingled with the Caucasian race from the north, or himself evolved a nobler and handsomer type. In one or other way arose the Hamite.* that negroid race which was the main stock of the ancient Egyptian, and is represented at the present day by the Somali, the Gala, and some of the blood of Abyssinia and of Nubia, and perhaps by the peoples of the Sahara Desert.

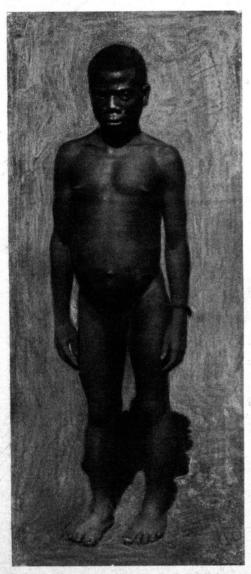
The Negro who first reached Uganda was an ugly dwarfish creature of ape-like appearance, very similar, I fancy, to the Pygmy-Prognathous type which lingers at the present day in the forests of Western and Central Africa. From some such stock as this, which is the underlying stratum of all Negro races, may have arisen, in Somaliland, perhaps, the ancestors of the Bushmen-Hottentot group, which found its way down through Eastern Africa to Africa south



255. A PYGMY OF THE CONGO FOREST

of the Zambezi, in the western parts of which Bushmen and Hottentots still linger. Then developed the high-cheek-boned, tall, thin-legged Negro of the Sudan, and the blubber-lipped, coarse-featured, black-skinned Negro

^{*} And from this possibly the Arab or Semitic type.



256. A PYGMY OF THE CONGO FOREST

of the West African coast-lands, and later the Bantu type, which is little else than the West African Negro tinged in varying degrees with the results of Hamitic intermixture (the Hamites being either a half-way stage in the evolution of a white man* from the Negro, or an invasion from Asia of a Caucasian people which ages ago mixed considerably with Negroes till it had acquired very marked negroid characteristics).

At the present day the negro and negroid inhabitants digenous to the Uganda Protectorate may for general purposes be divided into five races or types, these divisions and groupings being based mainly on measurements of the body and other physical characteristics. though to some extent they are also supported by community of habits and customs, and even relationships in language. fully aware that language often a misleading guide anthropological classification. Negro may be found speaking an Aryan language or a member of the white race may have adopted a form of speech usually associated with Mongolian men. Still, I should say that in about six cases out of ten, especially in the minor divisions of human-

ity, community of language accompanies physical characteristics held

^{*} I write advisedly "a" white man, because white races may have arisen twice or thrice or four times independently from Mongol, Negro, and the Neanderthal-Australoid type.

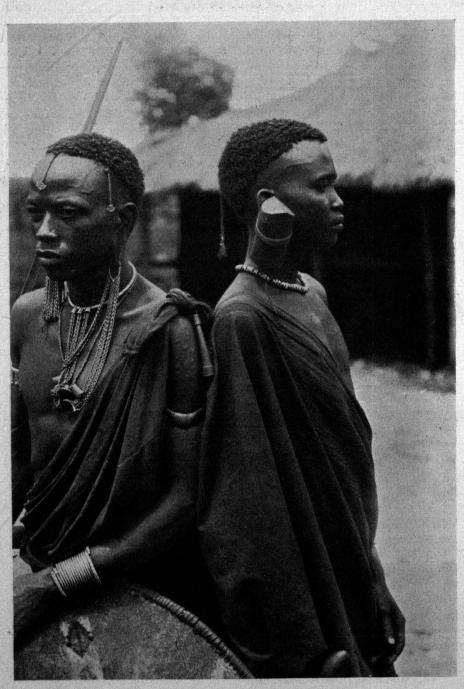
in common. Thus Dr. Shrubsall, in analysing my anthropometrical observations, has discovered an interesting fact in regard to the two sections of the Kavirondo people who dwell in the Central and Eastern Provinces of the Uganda Protectorate. For some time past it has been observed that one section of the Kavirondo people spoke a language which was practically identical with the Nilotic Acholi tongue, while the other folk in the Kavirondo country used Bantu dialects, the languages of the two sections being as far apart as English and Turkish. Now in all the Kavirondo people speaking a Nilotic language, Dr. Shrubsall has found that



257. NATIVES OF WESTERN SLOPES OF MOUNT ELGON (BAGESU)

the physical characteristics were those of the Acholi people, living 200 or 300 miles distant in the Nile Province; whereas the measurements of the Bantu-speaking Kavirondo classed that people with the general Bantu type of the southern half of Africa. On the other hand, we have the Bahima, a race which physically is most closely allied to the Somali, the Gala, and the ancient Egyptian—all of which peoples spoke what we call Hamitic languages—using at the present day the Bantu dialect of Unyoro, a language closely related to the tongue of Uganda, and belonging to a group of tongues usually associated with a Negro people.

The five main stocks from which the elements of the native races in



258. ANDOROBO OF THE RIFT VALLEY

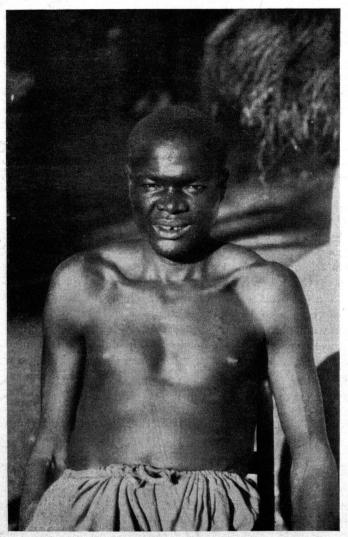
Uganda are derived are the following: (1) The Pygmy-Prognathous type; (2) the Bantu; (3) the Nile Negro; (4) the Masai; (5) the Hamite.

The "Pygmy-Prognathous" type would include not only the Dwarf races of the Congo and other Central African forests and the Dwarf element met with in other parts of Uganda, on Mount Elgon, among the Andorobo,* and perhaps the Doko tribe of Lake Stephanie, but also those people of normal height which are found on the fringe of the Congo Forest from the Semliki River to the vicinity of Lake Kivu. This was the pariah race of Banande which Messrs. Grogan and Sharp and the author of this book have been instinctively and independently compelled to call "ape-like" from their strange, wild, degraded appearance and furtive habits. An examination of the measurements made of this supposed ape-like people, however, and a criticism of the photographs taken of them, does not establish the existence in them of any feature that is exceptionally simian, more than is the case with many other Negro types; but there seems to be sufficient community of physical features between them and the Pygmies to enable one to class them together, and as prognathism is a marked feature in these ape-like individuals, I propose to class them with the Congo Pygmies as the "Pygmy-Prognathous" group. It might perhaps be stated briefly here (though the question will be discussed at greater length in the next chapter) that after careful consideration the author of this book is not inclined to assert the existence of any close relationship between the Pygmies of the Congo Forest and the Bushmen tribes of South Africa. As often occurs amongst the Congo Pygmies, individuals or sections of tribes amongst the Bushmen not infrequently attain a height that may be called normal. A great many of the primitive races of mankind, no doubt, who are struggling under the disadvantages of their environment develop dwarfed or stunted forms, but in all probability the earliest types of humanity when emerging from ape-like creatures were not Dwarfs from our point of view. Therefore, the mere fact that most of the Pygmies and the majority of the Bushmen are below the normal height does not necessarily establish a direct relationship between them.

This Pygmy-Prognathous element forms, I am convinced, an element more or less obvious in the Negro population of Africa, and it probably resembles pretty closely the original type of Negro that entered the African continent from Arabia and India. Just as in our European population there crop up from time to time Neanderthaloid and Mongolian types, reminiscences of and reversions to some earlier stocks which peopled Europe, so the Pygmy-Prognathous type may show itself in most parts of

^{*} The Pygmy element in the Andorobo and some other East African tribes may be due to a "Bushman-Hottentot" stock rather than to the differently featured Congo Pygmy.

Negro Africa among races in which the normal individual belongs to a much handsomer example of the Negro race. But in some parts of the

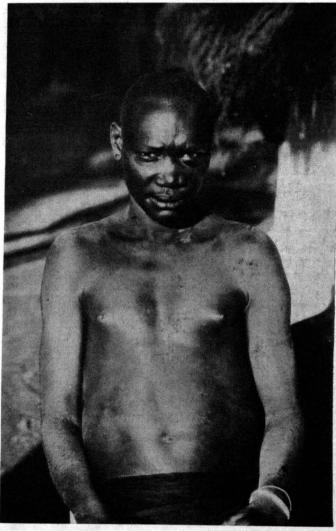


259. A BANTU NEGRO (MNYAMWEZI)

Uganda Protectorate, as in the Congo basin and jungle districts of West Africa,* the Pygmy-Prognathous type is so marked and of such frequent

* Dr. Robinson in his travels through Hausaland remarks on the very ape-like appearance of the wild mountain tribes in the Bauchi country, north of the River Benue.

occurrence as to suggest that these regions have only been partially overrun by later invasions of superior Negro types. This is the case in



260. A BANTU NEGRO (MNYAMWEZI)

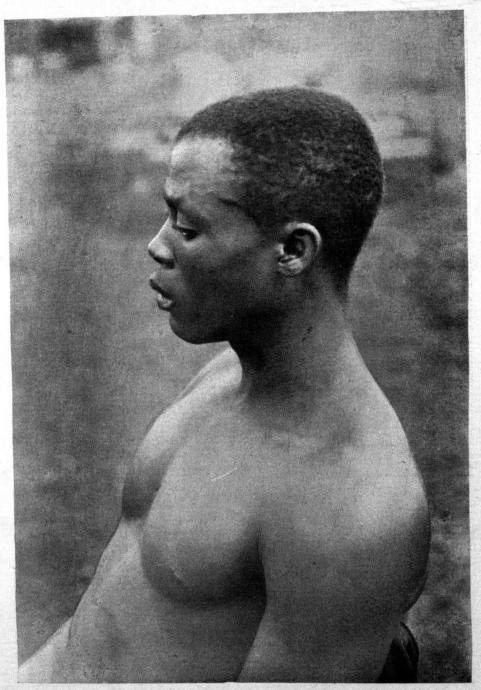
Uganda as regards the population on the western flanks of Mount Elgon, in the Kiagwe Forest, here and there among the Andorobo, and in the Semliki Valley and on the western slopes of Ruwenzori. According to this evidence, and also to native tradition, it would seem as though the first

Stanley, amongst others, for some reason difficult to understand, set himself with such vehemence some years ago to denounce the use of the term "Bantu" and to deny that there was any homogeneous Negro type which could be divided off from the other Negro families under that designation, that many writers on Africa lost courage, and although it was impossible, in deference to the wishes of Stanley and others, to give up the use of the word "Bantu" as representing the most clearly marked and homogeneous division of African languages, the use of the same word to describe a type of Negro like the Zulu Kaffir, native of the Congo, or of South Central Africa was abandoned.

Recently, however, owing to the researches of Dr. Shrubsall,* who has examined a large number of skulls of Bantu Negroes and has compared them with other sections of the Negro race, such as the people of Ashanti (as representing a West African type), the Nile Negroes, and the Masai, I have come to the conclusion that amongst most of the Negroes who speak Bantu languages there are more physical characteristics shared in common (between, say, the Muganda and the Zulu, the native of Angola and of Nyasaland), than is the case between any of these people and the folk of West Africa and the Upper Nile. I am therefore encouraged once more to speak of the Bantu type as a physical distinction as well as applying to that sharply defined family of languages. Dr. Shrubsall considers that the average Bantu represents a Negro stock like that of the west coast of Africa, which has received more or less intermingling with negroid races who have invaded the southern half of Africa in ancient and modern times from various points between Somaliland on the east and Senegal on the west. It is probable, however, that the Hamitic intermixture with the full-blooded Negro which has created the modern Bantu type has come almost entirely from the northern parts of the Uganda Protectorate, though it may have penetrated due west to the vicinity of the Cross River (Old Calabar) and south to Zululand. Every now and then there are specimens in average Bantu tribes who resemble Congo Dwarfs, others who are hardly to be told from the most exaggerated type of West African on the coast of Guinea, while others, again, have the clear-cut profile, the finely developed nose and European features of the Hamite. The average Bantu, however, resembles very much the picture which I give here of a Bantu Kavirondo from the Nzoia River.

The third element in the Uganda population is the Nilotic Negro. This is a tall type of man with long legs but poorly developed calves, rather prominent cheek-bones, but not as a rule a repulsive physiognomy or a great degree of prognathism. The Nile Negro constitutes the bulk of the population in the valley of the White Nile from Lake Albert Nyanza

^{*} Of St. Bartholomew's Hospital and the Anthropological Institute.



263. A GOOD-LOOKING TYPE OF BANTU: A NATIVE OF KAVIRONDO (KAKUMEGA)



264. ACHOLI NILE NEGROES

down to within a couple of hundred miles of Khartum, and from the western slopes of the Abyssinian Plateau across the Bahral-Ghazal to Wadelai and Lake Chad. The type may even extend through Hausaland towards Senegambia.* Here and there, of course, there has been intermixture, ancient or recent, with Hamites, and consequently the result may be an improvement in physical beauty; or there has been mingling with the Pygmy-Prognathous, or the West African, Negro, or the Bantu. From these crosses arise tribes like the Nvam-Nyam, the Lendu, and the Madi. This Nilotic Negro type penetrates southeastwards into the Uganda Protectorate, and has left an isolated colony in the countries round Kavirondo Bay.

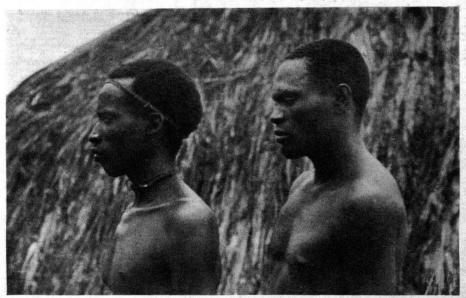
The fourth of these

racial divisions is the Masai, a section which stands very much apart from other Negro races. Perhaps on the whole its physical appearance may be explained by an ancient intermixture between the Hamite and Negro, followed by a period of isolation which caused the Masai to develop special features of their own. Related to the Masai are the Sūk-Turkana—the tall, almost gigantic tribes that dwell between Lake Baringo and the north-west of Lake Rudolf—and the Nandi-Lumbwa, with their offshoot, the somewhat mongrel tribe of Andorobo.

The fifth and last amongst these main stocks is the Hamitic, which

^{*} Many of the Hausa and of the Kanuri (Bornu) are strikingly like the Nile Negroes in appearance.

is negroid rather than Negro. This is the division of African peoples to which the modern Somali and Gala belong, and of which the basis of the population of ancient Egypt consisted. These Hamites are represented by the remarkable Bahima aristocracy of the western portions of the Uganda Protectorate, and possibly by certain tribes at the north end and on the east coast of Lake Rudolf. Of course the Bahima of Western Uganda have mingled to some extent with the Negro races amongst whom they dwell, and the descendants of these unions have influenced the modern type with Negro characteristics that are slightly more marked than is the



265. HIMA AND BANTU
(1) Hima of Ankole. (2) Muiro of Ankole.

case amongst the Somali or the ancient Egyptians. The head-hair of the Bahima is often quite woolly, though it may grow longer than it would in purely Negro races. Yet there are individuals among the Bahima who, woolly hair notwithstanding, are nearer to the Egyptian type in their facial features and in the paleness of their skins than is the case even amongst Gala and Somali. If deductions from native tradition and legend are trustworthy to any extent, the Bahima entered what is now the Uganda Protectorate from the north-east between two and three thousand years ago, remaining for several centuries in the Lango (Acholi) countries east of the Victoria Nile. But the ancestors of the Bahima were probably only the last in a series of Hamitic invaders of Negro

Africa. Yet, though in this way superior races coming from the more arid countries of Southern Abyssinia and Galaland have continually leavened the mass of ugly Negroes pullulating in the richly endowed countries between and around the Nile lakes, it is very doubtful whether the ancient Egyptians ever penetrated directly up the Nile beyond the vicinity of Fashoda, or had any direct intercourse with Uganda (though their traders may have gone south-westward towards the Bahr-al-Ghazal). Rather it would seem as though ancient Egypt traded and communicated directly with what is now Abyssinia and the Land of Punt (Somaliland), and that the Hamitic peoples of these countries facing the Red Sea and Indian Ocean carried a small measure of Egyptian culture into the lands about the Nile lakes. In this way, and through Uganda as a half-way house, the totally savage Negro received his knowledge of smelting and working iron, all his domestic animals and cultivated plants (except those, of course, subsequently introduced by Arabs from Asia and Portuguese from America), all his musical instruments higher in development than the single bowstring and the resonant hollowed log, and, in short, all the civilisation he possessed before the coming of the white man-Moslem



266. А МИНІМА ОГ МРО́КОГО

or Christian-1,000 years ago. The establishment by sea of gold-working colonies of South Arabians in Southern Zambezia, that commenced to take place perhaps 2,500 years ago, introduced a local civilisation which did not spread to any appreciable extent, perhaps because it was planted among brutish Hottentots and apish These Sabæan colonies Bushmen. in South-Eastern Africa were finally swamped between the fifth and seventh centuries of the present era by the Bantu-at any rate by the Zulu-invasion of Southern Africa. Their influence, from whatever cause,*

* Perhaps because the trend of Negro and negroid migrations and race movements has always been—with only two well-known exceptions—the eastward march of the Fulahs and the northward raids of the Zulus—from north to south and from east to west, and it would be difficult for foreign influence to travel against the current.



was singularly restricted and fruitless, and died out, leaving no permanent legacy of religious beliefs, arts, and industries, domestic animals, or

cultivated plants among the Negro races.

The Negro, in short, owes what little culture he possessed, before the advent of the Moslem Arab and the Christian white man, to the civilising influence of ancient Egypt; but this influence (except a small branch of it in the Bahr-al-Ghazal) travelled to him, not directly up the White Nile,* but indirectly, through Abyssinia and Somaliland; and Hamites, such as the stock from which the Gala and Somali sprang, were the middlemen whose early traffic between the Land of Punt and the countries round the Victoria Nyanza was the main, almost the sole, agency by which the Negro learnt the industries and received the domestic animals of Egypt, and by which the world outside tropical Africa first heard of the equatorial lakes and snow mountains.

#### REMARKS ON THE ANTHROPOMETRIC OBSERVATIONS

MADE BY

#### SIR HARRY JOHNSTON AND MR. DOGGETT;

WITH THE SAID OBSERVATIONS REDUCED TO TABULAR AND COMPARATIVE FORM

#### By FRANK C. SHRUBSALL, M.B., M.B.C.P.,

FELLOW OF THE ANTHROPOLOGICAL INSTITUTE.

THE anthropometric observations fall naturally into two groups, dealing with the

proportions of the head and body respectively.

The measurements of the cranium taken comprise the maximum length and breadth and the vertical projection from the vertex to the tragus of the ear. These enable an estimate to be formed of the size and shape of the head proper. The table of measurements appended shows that the largest individual heads are to be met among measurements appended shows that the largest individual heads are to be met among the Masai, Karamojo, and Bahima, the smallest among the Acholi and the Congo Dwarf people. By adding together the three dimensions, length, breadth, and height, and dividing by three, a number known as a modulus is obtained, which expresses the average dimension, and the volume is found to vary proportionately with this. From this it would appear that the Lendu have the smallest and the Masai the largest skulls in the series examined. Greater interest attaches to the relative proportions of the different dimensions, and especially to the cephalic index, obtained by multiplying the maximum breadth by 100 and dividing by the maximum length; a similar index is also constructed to show the relation of the length, and height. The average results for this constructed to show the relation of the length and height. The average results for this series are shown in the table appended. The longest, most dolichocephalic head, occurs among the Lendu (index 69), the broadest among the Sūk (index 84). The index numbers are divided into groups, heads with an index of 75 or under being known as dolichocephalic, those between 75 and 80 as mesaticephalic, and those of 80

^{*} Doubtless because the Nile of Uganda in those days created vast, untraversable swamps between Fashoda and the fourth degree of north latitude.

and over as brachycephalic. The distribution of the series now under examination in these groups is as follows:—

	TR	IBE.			DOLICHOCEPHALIC.	MESATICEPHALIC.	BRACHYCEPHALIC.
Banande						_	2
Bambute					1	4	3
Baamba					- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1	1
Baganda					7	1	_
Basoga					2	2	_
Bahima					4	1	_
Wanyamy	vezi				2	4	
Swahili					1	_	_
Kavironde	o. Ba	ntu s	spee	ch.	1	2	1
Kavironde	o. Ja	-luo	spee	ch.		4	
Acholi, Ba	ari. A	luru			2	3	1
Lendu	, ,			Yan	2	4	_
Karamojo		5.00			4	1	
Sūk .	10			1	5	4	1
Masai				-	6	2	_
Andorobo					3	8	-
Kamásia					1	3	1
Nandi		1	of a sign	ar the Strange	5	9	
Limiter			1			2	_

These results may be usefully compared with Count Schweinitz's (1) observations on living natives of German East Africa, and with Mense's (2) studies of the people of the Middle Congo, expressed in similar tabular form below.

"Zeitschrift für Ethnologie," 1893.
 " " 1887.

TRIBE.		Dolic	HOCEPHALIC.	MESATICEPHALIC.	BRACHYCEPHALIC.
East Africa.					
Wagogo			7	6	
Wangoni			9	5	2
Wanyema			4	2	2
Wanyamwe	zi		3	1	g 1
Watusi			2	2	_
Wasukuma			3	7	_
Wasinja			. 7	4	
Wasiba			5	2	
			40	29	5
Congo.			-		_
Bateke			30	16	_
Bayansi			6	8	2
Bakongo			8	4	
Bangala			10	5	_
Balali			3	1	
			57	34	2
				-	
Bantu Cra	nia	(Shrubsall)		30	1
Masai Cra	nia	(Virchow)	13	. 3	-

From these tables uniformity rather than diversity of head form would seem to be the great characteristic of the African black races, while a broad-headed element can be seen to affect the population of the Nile Valley and forest zone.

Turning from the cranial to the facial skeleton, a greater range of variation becomes

A similar tabulation of the length-height index is subjoined.

	TRIBI	E	CHAMÆCEPHALIC, (Under 60,)	ORTHOCEPHALIC. (60°1—65,)	Hypsicephalic. (65:1-70.)	HYPERHYPSICEPHALIC. (70°1 and over.)
Banande Bambute			: =	$\frac{1}{1}$	1 5	1 2

	TRIBE			Cı	HAMÆCEPHALIC. (Under 60.)	ORTHOCEPHALIC. (60°1—65.)	Нурвісернаціс. (65·1—70.)	Hyperhypsicephalic. (70.1 and over.)
Baamba					_	-	1	1
Baganda					_	1	6	1
Basoga .					_	_	3	1
Wanyamwe	zi				1	2	*2	2
Bahima					-	3	2	_
Kavirondo,	Bant	tu spe	eech		_		3	1
Kavirondo,	Ja-lı	o spe	$\operatorname{eech}$		-	-	_	4
Aluru, Acho						2	1	3
Lendu .					- 1	3	2	4 1
Karamojo					1	1	3	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Sūk .						3	3	2
Masai .					_	3	4	1
Andorobo					-	1	3	7
Kamásia					_	1	3	1
Nandi .					1	_	3	3
comp	ared	with	Sch	veir	nitz:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Wagogo					3	4	6	_
Wangoni					3	9	3	1
Wanyema					2	2	3	1
Wanyamwe	zi				4	-	_	1
Watusi.					2	2		
Wasukuma					3	6	1	-
Wasinja						5	4	1
Wasiba.					_	5	2	8

Considerable importance in anthropometry is attached to a study of the nose. This is described as being negroid (Form No. 7 of Table in *Notes and Queries*), broad and flat, with prominent alse in all the series examined save the Masai and the Bahima, among whom it is more prominent and more arched.

The various measurements are most easily contrasted by means of the nasal index obtained by dividing the nasal breadth between the alæ, by the height from the root of the nose to the septum, and multiplying the quotient by 100. This index also may be divided into groups, and the distribution among them of the individuals examined during Sir H. H. Johnston's travels is as follows:—

	TRIBE			LE	PTORHINE.	MESORHINE.	PLATYRHINE.	HYPER- PLATYRHINE.	ULTRA- PLATYRHINE.
				(ur	der 69.4.)	(69.5-81.4.)	(81.5-87.8.)	(87.9-108.9.)	(109 and over.)
Banande					-	-	_	1	1
Bambute					-	-	1	4	- 3
Baamba					_	_	2 .	-	
Baganda						_	-	7	1
Basoga .					_	-	1	3	1
Wanyamw	ezi				_	_	_	5	2
Bahima			-			3	-	1	1
Kavirondo	o, Bar	itu sp	eech	- 4	_	-	_	3	1
Kavirondo	, Ja-	luo si	beech			1	1	2	
Lendu .					_	_	_	3	4
Acholi, Ba	ari, A	luru			-	1	2	3	
Karamojo					_	_	1	4	1
Sūk .					. 1	2	2	5	
Masai .					1	3	2	1	——————————————————————————————————————
Andorobo	321V · 1				-	8	2	1	and the second second
Kamásia	11804					2	2	1	
Nandi .	-	- Digital			-	1	2	4	The second second

By this means a group comprising the Sūk, Masai, Andorobo, and to a less degree the Nandi, is clearly separated off from the Bantu, Baganda, Basoga, Wanyamwezi, and

Kavirondo. It is interesting to contrast Count-Schweinitz's observations with the above; he found the distribution in German territory to be—

TRIBE.	LEPTORHINE.	MESORHINE.	PLATURHINE.	HYPERPLATTRHINE.	ULTRAPLATURHINE.
Wagogo	2	7	2	1	1
Wangoni .	1	1	5	6	3
Wanyema .		_	2	5	1
Wanyamwezi	-	_	3	1	1
Watusi	1	2	1		_
Wasukuma .		4	1	4	1
Wasinja .		4	3	4	_
Wasiba		1	4	2	-

It is unfortunately impossible, from the measurements taken in Uganda, to accurately calculate the facial index, but it would appear that the face is longer in the peoples dwelling in the Nile district than in other parts of the Protectorate. The

Andorobo also would seem to differ from their neighbours in this respect.

The transverse prominence of the face is a feature of great importance, but here again the ordinary method of estimating this feature is not available. However, by dividing the distance between the inner angles of the eyes taken by a tape passing over the nose by the distance between the same points taken in a straight line by callipers, some indication of the prominence of the bridge nasal organ is obtained. The results of these observations are recorded under the heading "Bioculo-nasal Index." The results are scarcely sufficiently concordant to allow of much stress to be laid on this index of character, but a few points seem to be emphasised by it. The index is high in the Bahima in accordance with the statement in the preliminary observations.

The Masai present a much lower figure than might have been expected from a study of their nasal index, which seems to indicate that, although their nose is long and thin relatively to surrounding peoples, it is not very prominent in profile. The Karamojo and Sūk, in some respects closely related in physical characters, are by this method sharply separated, the bridge of the nose standing out far more in the former. The Bambute and Banande exhibit, as would be expected, a low index corresponding with

absence of bridge referred to in the general description.

The bigonial index, or relation between the maximum bizygomatic width of the face and the width at the angle of the jaws, divides the series into three groups, one with a very narrow chin comprising the Bambute, Banande, Baamba, and Lendu, in whom the index is under 70; the Sük, Kamásia, and Bahima, with an index in the neighbourhood of 70; the remaining individuals having much broader chins. Numerically this index may seem of little importance, but the effect of the width of the lower jaw on the facial ovoid, as seen in full-face view, is extremely marked. In this feature the Dwarf peoples are further removed from the ape than their neighbours.

The aural index, or relation between the length and breadth of the ear, leads to closely similar grouping, the Bambute, Banande, and Lendu being separated widely from the remainder, with the exception of the Bahima. It is interesting to note that in this feature also the occupants of the forest zone more closely resemble the European and recede further from the simian type than do the surrounding population. Topinard in his text-book points out that this index is lowest among the yellow races, intermediate in Europeans, and at a maximum in the negroes of Africa and Melanesia. In the apes

it is still higher than in man.

The proportions of the body are no less interesting than those of the head. The average height varies from 1452 millimetres in the Bambute to 1847 millimetres in the Bahima, though the tallest individual actually measured (1887 mm.) belonged to the Logbwari tribe. The Masai and Nilotic negroes are decidedly taller than their neighbours, next in order being the Karamojo, the Andorobo, Nandi, and Bantu tribes, forming a group of moderate height intermediate between these and the Dwarf people.

The span in most cases is relatively greater than in Europeans, probably because of the proportionately greater length of the forearms in the negro races, the Sūk forming a notable exception, being somewhat narrow-chested. The umbilicus in nearly all cases is a little above the centre of the body; the Dwarf peoples, however, stand out prominently, for in them the mid point of the body is above, and not below, that

landmark. The head has rather smaller vertical relative dimensions than in the European, the Dwarfs and the Nilotic negroes approaching most nearly to our mean canon. The neck is relatively longer and the trunk shorter than in the white races, the latter feature reaching its acme among the Bahima and Masai. Both limbs are relatively increased, but whereas in the upper limb the excess is in the distal segment, in the lower it is in the proximal. The hands are smaller and the feet often relatively larger than those of Europeans; considerable racial variation, however, occurs. The Masai have hands and feet both absolutely and relatively large. The Dwarf peoples, Nilotic negroes, Ja-luo-speaking Kavirondo, Kamásia, Nandi, and Sūk have relatively smaller hands and feet than the average white, while the Bantu peoples in the series, the Lendu, Karamojo, and Andorobo, have smaller hands but larger feet.

Should more extended observations confirm the present series, the relative proportions of the limbs and of the hands and feet would afford valuable evidence towards

a classification of the peoples of the Uganda Protectorate.

Applying the above-mentioned facts to purposes of classification as far as can be made out from the limited material at present at our disposal, a few groups can be distinguished.

The Bambute, Baamba, and Banande form a class to themselves, characterised by a brachycephalic skull, broad depressed nose with a high index, flattened face, narrow

chin, small ears, short stature, slender limbs, and small hands and feet.

The Masai, who are tall, dolichocephalic, mesorhine, with a low bioculo-nasal index with relative great span, long lower limbs, feet and hands relatively greater than Europeans, though their feet are relatively smaller than those of the Bantu group.

The Acholi and Bari: tall, mesaticephalic, platyrhine, with a small bioculo-nasal

index, relatively long lower limbs, legs, and forearms, but small feet and hands.

A group somewhat less well defined than the foregoing, comprising the Baganda, Basoga, Wanyamwezi, intermediate in most respects, yet with close mutual agreement, with relatively large feet and small hands.

A few other groups remain to be discussed. The Kavirondo fall into two series, those of Bantu speech and those of Ja-luo speech, the physical characters of the two

approximating to the Basoga and Acholi groups respectively.

The *Lendu* in most features would seem to be intermediate between the Nilotic negro and the small races of the Congo Forest zone. In stature and in the proportions of the limbs they agree with the Acholi, in face and ears they more closely resemble the Bambute. In cephalic index and the relatively large size of the feet they agree with neither.

The Karamojo in their bodily proportions would appear to closely resemble, if they have not affinities with, the Bantu-speaking group. In their cranial and facial characters they seem to be intermediate between the Bantu and the Masai, though in the proportions of their limbs and the size of the hands they differ widely from the latter people.

The Sūk stand in a somewhat similar relationship to the Acholi.

The Kamásia, Nandi, and Andorobo are a somewhat aberrant group with intermediate characters best expressed in the tables. This is a very heterogeneous group, combining characteristics of other negro types. They are obviously a people of

mixed origin.

The Bahima are distinguished from the other groups mainly by the prominence and length of the nose. In this feature they approach the European or Hamite. The lower part of the face is narrower than the average negro, the ears approach the European type, and the head is actually larger than in the average negro. In short, in many respects they are negroid rather than negro. In other measurements than those instanced they approximate pretty closely to the Bantu.

#### ANTHROPOLOGY

#### AVERAGE INDICES CALCULATED FROM

TRIBE			Вамвите.	BAMBUTE. 6 6 BANANDE.	BAG	ANDA.	Basoga.	Kavi	RONDO.
Number and Sex	•		6 ♂	2 д Ваамва. 2 д	38	5 9	48	BANTU- SPEAKING.	JA-LUO- SPEAKING. 4 8
Cephalic			78.7	79.4	74.4	72.6	75.4	76.4	77'5
Length-height			66.7	68.4	66.0	68.4	69.2	69.5	72.4
Nasal			109.7	105.8	93.9	103.7	106.1	104.1	86.6
Bigonial			65.2	67.7	75.3	73.7	80.2	80.3	79.3
Bioculo-nasal.			113.9	115.6	127.0	115.3	118.3	110.4	114.8
Aural			56.9	57.0	69.6	64.4	62.6	_59.0	62.3
Modulus			152.7	154.1	1583	150.1	156.7	157.8	161.2

#### AVERAGE PROPORTIONS OF THE DIFFERENT SEGMENTS OF THE

TRIBE	Вамвите.	BANANDE. 2 8 BAMBUTE.	BAGA	ANDA.	Basoga.	Kavii	RONDO.	WAN-	LENDU.
Number and Sex	6 8	6 б Ваамва. 2 б	33	5 9	4 8	BANTU SPEECH.	JA-LUO SPEECH.	WEZI.	2 8
Actual standing height	1452	1497	1692	1560	1685	1722	1791	1732	1711
Head	13.2	13.3	12.6	12.9	12.0	-		12.5	12.4
Neck	6.2	5.7	5.4	5.1	5.2	-	_	4.7	5.1
Trunk	31.0	32:0	32.4	32.9	32.4	-	_	31.8	30.8
Span	103.5	104.2	107.2	104.1	106.5	-	-	103.0	106.1
Upper limb	47.8	47.8	48.4	47.5	48'5	47.8	47.4	46.9	48.8
Arm	19.6	19.2	19.3	19.2	19.4	-	_	18.4	18.7
Forearm	17.1	17.6	17.9	17.6	18:3	-	-	17.9	190
Hand	11.1	10.9	11.1	10.9	10.7	11.1	10.8	10.6	11.1
Lower limb	49.6	49.3	49.7	49'1	50.1	50.5	53.0	50.9	51.6
Thigh	24.0	23.9	241	23.9	24.1	_	-	24.8	26.0
Leg	19.9	20.1	20.2	20.1	20.3	-	-	21.2	21'1
Foot	14'5	14.6	15.4	14.9	15.1	15'3	14.6	15.6	15.4
Breadth of shoulders .	22.9	23.3	24.2	23.0	23.7	-	-	22.8	24.9
Breadth of hips .	16.9	17.2	17.7	19.1	17.0	-	-	17.4	17.3
Height of umbilicus	58.4	58.8	62.7	59.9	60.3	-	-	60.3	61.0
Girdle index .	74.2	74.0	73.3	82.8	71.5	-	_	76.5	69.5
Antebrachial index	. 87.2	91.7	92.7	91.7	94'3	-	_	97.3	101.6
Tibio femoral index	. 82.9	841	83.8	84.1	84.2	-	-	85.5	81.2

MEASUREMENTS OF THE HEAD.

WAN-	LE	NDU.	ACHOLI.	KARA- MOJO.	Sūk.	MA	SAI.	ANDO	рево.	KAM- ÁSIA.	NANDI.	Ваніма
wezi.	23	4 9	3 & BARI. 1 &	4 8	93	5 8	3 5	88	3 \$	5 8	5 8	3 3
75.7	73.6	74.1	78.1	73.3	76.3	73.3	75.9	76.0	76.2	78.0	72.8	73.1
65.3	60.3	65'9	71.8	62.5	68.1	66.2	67.6	70.0	73.2	67.3	68.8	65:3
98.8	112.7	105.6	86.7	89.7	84.3	82.6	76.9	83.6	77.6	81.0	88.5	92.0
73.5	67.4	70.3	74.7	75.4	70.8	74'3	80.8	-76.5	79.3	69.4	74.2	70.0
120.4	121.4	110.9	121.0	126.0	1181	116.4	117:3	123.6	121.7	128.8	130.7	140.5
63.3	54.8	58.7	65.6	63.6	66.9	-	-	-	-	-	-	58.4
156.3	150.5	153.4	1581	157.0	157.3	159.9	153.5	156.2	146.9	155.8	155.9	159.4

BODY TO THE STANDING HEIGHT = 100.

LENDU.	ACHOLI.	KARA- MOJO.	Sūk.	M	SAI.	Ando	ково.	KAM-	NANDI.	Ваніма.	MEAN EUROPEAN CANON OF
4 ? 9	2 & BARI.	4 8	9 8	5 8	3 \$	88	3 9	5 8	5 8	3 3	PROPORTION (TOPINARD.)
1621	1763	1725	1716	1778	1642	1663	1530	1692	1680	1847	
12.6	13.5	11.9	12.3	12.6	13.0	13.5	12.6	12.5	12.7	12.2	13.3
5.3	3.7	4.5	4.7	4.9	4.9	5.0	4.8	5:1	51	6.5	4.5
32.2	30.6	32.1	29.5	28.7	28.0	30.4	31.8	29.5	31.0	29.1	35.0
104.4	105.5	105.8	101.9	107.3	102.6	103.4	99.7	107.1	103.7	105'5	104.4
47.5	47.8	48.8	46.7	46.5	47.7	47.4	45.9	48.4	47.1	48.0	45.0
18.7	18.9	19.8	19.1	17.6	191	18.9	18.4	19.6	18.9	193	19.5
17.8	18'4	18.0	17.4	16.9	16.7	17.3	16.8	17.9	17.4	17.8	14.0
11.0	10.5	10.9	10.3	12.1	12.0	11.3	10.6	10.8	10.9	10.9	11.5
49.9	53.2	51.4	52.9	54.1	55.0	51.3	50.7	52.9	51.2	51.9	47.5
24.3	25.4	25.1	26.3	26.9	26.5	25.4	24.2	26.7	25.0	25.5	20.0
21.9	22.1	21.3	21.8	21.9	22.3	20.7	21.7	20.9	21.3	22.3	23.0
14.7	14.7	15.6	14.7	150	14'3	15.7	14.4	14.7	14.8	15.2	15.0
22.6	23.4	23.0	22.8	23.8	22.4	23.4	21.6	23.8	22.9	22.2	23.0
24.4	17.1	17.9	16.9	17.8	18.3	17'4	17.6	17.4	17.1	17.7	18.8
61'4	61.5	60.9	60'8	61.6	63.7	60.7	62.0	62.0	61.9	59.8	60.0
80.8	73.0	781	743	74'9	81.7	74.0	81.7	73.0	74.8	80.4	81.7
95.2	97:3	90.9	91.1	96.0	87.4	91'5	91.3	913	92'1	92.2	
90.1	87'0	84.9	82.9	81.4	84.2	81.5	89.2	78.3	85.2	87.4	

TRIBE	Ban	ANDE.			Вам	BUTE.		
Number	1	2	3	4	5	6	7	8
Age	40	45	30	34	35	20	22	20
Sex	8	3	3	3	3	3	3	8
Standing height	1575	1460	1418	1428	1472	1523	1438	143
Height of head from vertex to)	10.0	1100		1120	11.2	1020		
chin	192	210	174	193	205	206	176	19
Length of neck in front	83		77	91	90	89	93	10:
Length of trunk	534	507	453	470	482	449	450	39
Span of arms	1635	1541	1436	1532	1548	1559	1443	150
Length of upper limb	738	688	686	707	702	737	659	67
Length of arm	284	245	273	296	286	308	281	26
Length of forearm	284	298	254	242	253	262	225	259
Length of hand	170	145	159	169	163	167	153	15
Length of lower limb	766	702	714	674	695	779	719	740
								369
Length of thigh	377	334	344	320	328	385	350	
Length of leg	306	(?)	288	282	285	308	287	28
Length of foot	234	204	194	(?)	219	220	201	22
Height from internal malleolus to ground	83	(?)	. 82	72	82	86	82	8
Maximum breadth of shoulders.	360	359	302	333	360	369	313	31
Maximum breadth of hips	271	275	230	255	255	266	231	24
Height to umbilicus	931	881	826	826	850	905	835	84
Circumference of chest	780	800	700	730	745	760	702	67
Minimum supra-malleolar cir-	193	175	170	170	162	193	160	160
Maximum supra-malleolar cir-\	323	285	245	260	280	290	241	230
cumference of leg.								
Proportions to height = $100$ . Head	12.2	14'4	12:3	13.5	13.9	13.5	12.2	13
Neck	5.3	144	5.4	6.4	6.1	5.8	6.2	7
Trunk	33.9	34.7	31.9	32.9	32.7	29.5	31.3	27
Span	103.8	105.5	101.3	107.3	105.2	102.4	100.3	104
Arm	46.9 18.0	47.1 16.8	48.4 19.3	49.5	47.7 19.4	48.4	45.8 19.5	18
Forearm	18.0	20.4	17.9	16.9	17.2	17.2	15.6	17
Hand	10.8	9.9	11.3	11.8	11.1	11.0	10.6	11
Lower limb	48.6	48.1	50.4	47.2	47.2	51.1	50.0	51
Thigh	23.9	22.9	24.3	22.4	22.3	25.3	24.3	25
Leg	19.4	(1)	20.3	19.7	19.4	20.5	20.0	20
Foot	14.9	14.0	13.7	-	14.9	14'4	14.0	15
Breadth of shoulders	22.9 17.2	24.6	21.3	23.3	24.5	24.2	21.8	22.
Height of umbilicus	591	18.8	16·2 58·3	17·9 57·8	17:3 57:7	17.5 59.4	16·1 58·1	59
Girdle index	75:3	76.6	76.2	76.6	70.8	72.1	73.8	75

Basoc				NDA.	BAGA				MBA.	BAAI	BUTE.	Вамі
21	20	19	18	17	16	15	14	13	12	11	10	9
48	35	30	30	28	24	50	40	25	40	45	30	20
3	9	9	9	2	9	3	3	3	3	3	9	20
1688	1559	1498	1610	1578	1554	1804	1658	1613	1562	1660	1427	1292
221	190	195	209	206	206	221	210	207	218	224	204	192
80	72	77	83	83	80							
589	514	476	540	533	507	94 572	90	88	84	58	60	59
1799	1726	1563					516	554	506	545	471	412
			1617	1597	1627	1949	1772	1719	1587	1828	1491	1329
833	788	707	729	724	769	884	807	766	748	812	666	590
326	319	278	285	298	317	352	328	302	315	323	251	228
326	290	260	273	248	298	328	300	283	265	304	255	230
181	179	169	171	178	154	204	179	181	168	185	160	142
798	783	750	778	756	761	917	842	764	754	833	692	629
359	393	364	384	354	372	447	416	361	367	401	318	301
32	306	309	315	317	317	378	338	309	324	343	296	255
257	235	227	234	235	233	277	256	249	220	267	221	212
104	84	77	79	85	72	92	88	94	63	89	78	73
408	370	349	352	367	356	417	385	423	364	408	328	299
303	291	277	303	304	311	309	278	311	261	301	267	241
977	944	903	942	939	941	1199	1015	975	914	998	841	751
847	803	740	762	888	830	891	815	870	750	906	830	700
184	175	185	195	194	197	209	189	208	178	210	_	180
310	- 307	292	340	318	320	338	321	345	310	335	_	270
13.1	12.2	13.0	13.0	13.1	13.2	12.3	12.7	12.8	14.0	13.2	14.3	14.9
4°7 34°9	4.6 33.0	31.8	5°2 33°5	5°3	5°1 32°6	5.2 31.7	5.4 31.1	5°5 34°3	5.4 32.4	3.5 32.8	33.0 33.0	4.6 31.9
106.6	110.7	104.3	100.4	101.5	104.1	108.0	106.9	106.6	101.6	-	104.2	02.9
49%	50.5	47.2	45.3	45.9	48.8	49.0	48.7	47.5	47.9	48'9	46.7	45'7
19: 19:	20.5 18.6	18.6 17.4	17.7 17.0	18'9 15'7	20.4 19.2	19 ⁵ 18 ²	19.8 18.1	18.7 17.5	20°2 17°0	19.5 18.3	17.6 17.9	17.6 17.8
10"	11.2	11.3	10.6	11.3	10.0	11.3	10.8	11.5	10.8	11.1	11.5	11.0
47:	50.5	501	48.3	47.9	49.0	50.8	50.8	47.4	48.3	50.5	48.5	47.9
21:	25.2	24.3	23.9	22.4	23.9	24.8	25.1	22.4	2315	24.5	22.3	23.3
19:	19.6	20.6	19.6	20.1	20.4	21.0	20.4	19.2	20.7	20.7	20.7	19.7
15.5	15.1	15.5	14.5	14.9	15.0	15.4	15.4	15.4	14.0	16:1	15.5	16.6
24	23.7	23.3	21.9	23.3	22.9	23.1	23.5	26.2	23.3	246	23.0	23.1
18'0	18.7	18.5	18.8	19.3	20.0	17.1	16.8	19.3	16.7	18.1	18'7	18.7
57:9	60.6	60.3	58.5	59.5	60.6	66.4	61.2	60.4	58'5	60.1	58.9	58.1
74:	78.6	793	86.0	82'8	87.3	74.1	72.2	73.5	71.7	71.7	81.4	80.6

TRIBE		BASOGA			$\mathbf{K}_{I}$	VIRON	DO.	
Number	22	23	24	25	26	27	28	29
Age	20	50	$29\frac{1}{2}$	30	40	26	25	26
Sex	3	3	3	3	3	3	3	3
Standing height	1657	1679	1715	1714	1787	1687	1702	1839
Height of head from vertex to	201	179	210	229	228	221	215	221
Length of neck in front	75	118	99	56	97	70	76	69
Length of trunk	538	515	540	553	560	537	567	57
Span of arms	1773	1792	1815	1849	1825	1787	1706	186
Length of upper limb	798	811	825	865	837	815	777	85
Length of arm	330	322	333	363	324	330	305	34
Length of forearm	293	309	309	305	313	295	293	319
		1-1						
	175	180	183	197	200	190	179	18
Length of lower limb	843	867	866	876	902	859	844	97
Length of thigh	406	436	423	420	427	432	411	49
Length of leg	333	353	356	357	386	_		40
Length of foot	252	256	257	248	281	266	257	26
Height from internal malleolus to ground	94	78	87	99	89		_	8
Maximum breadth of shoulders.	393	385	414	425	443	418	401	41
Maximum breadth of hips	274	286	281	296	324	282	284	28
Height to umbilicus	1035	1014	1038	1033	1063	994	1001	113
Circumference of chest	835	864	907	948	982	883	944	89
Minimum supra-malleolar cir-	165	175	194	205	222	-	_	22
Maximum supra-malleolar cir- cumference of leg.	277	280	316	342	378	345	340	33
Proportions to height = $100$ .  Head	12.1	10.7	12.2	13'4	12.8	13.1	12.6	120
Neck	4'5 32'5	30.7	5.8 31.5	32.3	5'4 31'3	31.8	33°3	31.
Span .	107.0	106.7	105.8	107.9	102.1	105.9	100.5	101
Upper limb	48.2	48.3	48.1	50.2	46.8	48.3	45.7	46
Forearm	19 ⁹ 17 ⁷	19·2 18·4	19.4	21.2 17.9	18.1	19.6 17.5	17.9 17.2	18
Hand .	10.6	10.7	10.7	11'5	11.5	11.3	10.5	10
Lower limb	50.9	51.6	50.2	511	50.2	50.9	49.6	53
Thigh	24.5	26.0	24.7	24'5	23.9	25.6	24.1	21
Leg Foot	20.1	21.0	20.8	20.8	21.6			22
Breadth of shoulders .	15°2 23°7	15.2	15.0	14.5	15.7	15.8	15'1	14
Breadth of hips	16.5	22.9	24·1 16·4	24.8 17.3	24.8	24.8 16.7	23.6 16.7	22°
Height of umbilicus	62.5	60:4	60.5	60.3	59.5	58.9	58.8	61
Girdle index	69.7	74'3	67.8	69.6	73.1	67.5	70.8	69

K	AVIRON	DO.			WANY	AMWEZI			SWAHILI		LENDU	
30	31	32	33	34	35	36	37	38	39	40	41	42
30	35	36	30	30	25	40	35	45	25	28	30	24
3	3	3	3	3	3	3	8	3	9	2	2	2
1813	1726	1785	1724	1785	1637	1745	1745	1757	1548	1563	1683	1603
224	206	216	215	212	219	225	207	222	225	205	210	19
81	89	109	88	92	65	73	92	85	52	81	81	8
518	517	549	561	525	531	564	549	-574	549	526	510	515
1859	1838	1815	1781	1891	1688	1750	1716	1880	1596	1665	1757	164
	-	1		859	760	809	792	847	724	743	808	75
847	852	839	809				328	333	298	288	329	29
346	371	342	313	338	293	311				1		1
290	297	304	318	323	- 291	318	281	329	253	279	311	27
211	184	193	178	198	176	180	183	185	173	176	168	18
990	914	911	860	956	822	883	897	876	722	751	882	80
485	464	433	414	462	407	430	440	425	341	355	437	39
417	351	382	359	416	337	359	376	362	298	315	362	33
275	249	259	268	278	255	282	262	272	244	225	236	24
88	99	96	87	78	78	94	81	89	83	81	83	7
417	431	422	406	396	377	395	369	434	394	371	368	36
309	292	295	312	311	264	319	301	309	334	301	301	29
1115	1065	1077	1010	1134	978	1040	1065	1048	913	961	1057	96
912	888	920	960	910	875	912	812	970	849	818	840	86
205	200	212	220	217	200	230	200	212	194	203	185	210
347	330	330	<b>3</b> 80	350	332	356	320	365	343	335	315	330
12.4	11.9	12.1	12.4	11.9	13.4	12.9	11.9	12.6	14'5	13.1	12.5	12:
4.5	5.5	6.1	5.1	5.5	3.4	4.5	53	4.8	3.4	5°2 33°7	4.8	5
28.6 102.5	30.0	30.8	32·5 103·3	29.4 105.9	32.4 103.1	32.3	31:5 98:3	32·7 107·0	35.2	106.2	30.3	313
46.7	49.4	47.1	46.9	48.1	46.4	46.4	45.4	48'2	46'8	47.5	48'0	47
19.1	21.5	19.2	18.2	18.9	17.9	17.8	18.8	19.0	19.3	18'4	19'5	18
16.0	17.2	17.0	18.4	18.1	17.8	18.2	16.1	18.7	16.3	17.9	18.5	17
11.6 54.6	10.7	10.8	10.3	11.1	10.8	10.3	10.5	10.5	11.5	11.3	10.0	11:
28.8	53.0	51.0	49°9 24°0	53.6	50°2 24°9	50.6	51.4 25.2	49.9	46.6	48.0	52.4 26.0	50
23.0	203	21.4	20.8	23.3	20.6	20.6	21.2	20.6	19.3	20.5	21.5	21
15.5	14.4	14'5	15.2	15.6	15.6	16.2	15.0	15.2	15.8	14.4	14.0	15
23.0	25.0	23.6	23.2	22.2	23.0	22.6	21.1	24.7	25.5	23.7	21.9	23
17.0	16.9	16.5	18.1	17.4	16.1	18.3	17.2	17.6	21.6	19.3	17.9	18
61.2	61:7	60.3	58.6	63.2	59'7	59.6	61.0	59.6	59.0	61'5	62.8	59
74.1	67.7	69.9	76'8	78'5	70.0	80.8	81.6	71.2	84'8	811	81.8	78

TRIBE		LENDU		Log- BWARI.	AL	URU.	Acı	HOLI.
Number	43	44	45	46	47	48	49	50
Age	20	28	30	25	22	20	36	40
Sex	2	3	3	3	9	9	3	8
Standing height	1634	1757	1665	1887	1554	1588	1697	180
Height of head from vertex to	208	209	216	225	192	206	225	25
Length of neck in front	83	82	91	78	75	51	62	5
Length of trunk	540	534	520	603	507	532	509	53
Span of arms	1702	1843	1786	1960	1643	1676	1810	191
Length of upper limb	778	850	821	892	715	779	811	88
Length of arm	300	326	314	367	267	318	317	36
Length of forearm	293	337	314	326	289	286	314	33
Length of hand	185	187	193	199	159	175	180	18
Length of lower limb	803	932	838	981	780	799	901	96
	390	469	423	482	389	376	443	46
	343	386	337	428	318	338	361	41
Length of leg			1	273	235	230	254	26
Length of foot	248	270	257	273	235	230	254	26
Height from internal malleolus to ground	70	77	78	71	73	85	87	9
Maximum breadth of shoulders .	357	429	425	444	327	307	385	43
Maximum breadth of hips	291	308	286	317	278	277	282	31
Height to umbilicus	1003	1099	993	1174	964	1011	1020	112
Circumference of chest	775	902	962	922	770	760	810	92
Minimum supra-malleolar cir- cumference of leg	193	205	215	205	178	178	190	21
Maximum supra-malleolar cir-} cumference of leg	302	345	380	330	290	283	340	32
Proportions to height = 100.           Head           Neck           Trunk           Span           Upper limb           Arm           Forearm           Hand           Lower limb	12.7 5.8 33.0 104.2 47.6 18.4 17.9 11.3 49.1	11'9 4'7 30'4 104'9 48'4 18'6 19'2 10'6 53'0	13.0 5.5 31.2 107.3 49.3 18.9 11.6 50.3	11'9 4'1 32'0 103'9 47'3 19'4 17'3 10'5 52'0	12.4 4.8 32.6 105.7 45.4 17.2 18.6 10.2 50.2	13.0 3.2 33.5 105.5 49.1 20.0 18.0 11.0 50.3	13.3 3.7 30.0 106.7 47.8 18.7 18.5 10.6 53.1	13°: 29° 106°: 49°: 20°: 18°: 10°: 53°:
Thigh Leg Foot Breadth of shoulders Breadth of hips Height of umbilicus Girdle index	23'9 21'0 15'2 21'8 17'8 61'4 81'5	26.7 22.0 15.4 24.4 17.5 62.5 71.8	25'4 20'2 15'4 25'5 17'2 59'6 67'3	25.5 22.7 14.5 23.5 16.8 62.2 71.4	25.0 20.5 15.1 21.0 17.9 62.0 85.0	23.7 21.3 14.5 19.3 17.4 63.7 90.2	26·1 21·3 15·0 22·7 16·6 60·1 73·2	25° 22° 14° 24° 17° 62° 71°

Асноп.	BARI.			KARA	амојо.					Sūk.		
51	52	53	54	55	56	57	58	59	60	61	62	63
30	45	30	50	25	25	25	30	38	. 60	50	30	50
3	3	P	3	3	2	3	3	3	3	3	3	3
1789	1784	1626	1783	1777	1571	1676	1666	1758	1658	1819	1622	-1779
221	222	209	202	217	213	193	210	210	200	. —	198	221
82	81	70	97	75	43	80	62	66	71	_	83	94
573	560	490	558	569	493	543	548	- 553	524	506	492	561
1855	1791	1750	1889	1852	1598	1780	1780	1771	1719	1806	1586	177
832	830	783	886	864	738	825	796	826	774	837	726	840
320	334	326	364	358	303	333	317	339	315	357	293	359
324	317	279	330	316	272	303	296	312	296	293	265	296
188	179	178	192	190	163	189	183	175	163	187	168	183
913	921	857	926	916	822	860	846	929	863	1019	849	90:
437	438	397	454	454	410	414	411	450	414	538	430	429
393	403	390	382	376	333	362	351	394	371	403	350	378
259	254	241	273	276	208	264	261	245	250	247	- 249	28
83	80	70	86	86	79	84	84	85	78	78	69	9
419	417	398	378	416	357	378	416	382	395	405	368	41:
311	307	334	314	317	288	298	309	290	289	301	284	31
1107	1103	1009	1081	1074	958	1029	1028	1103	1013	1051	985	108
873	870	883	831	899	839	817	922	870	840	800	823	913
201	217	179	208	212	182	220	198	200	190	200	179	218
358	340	326	333	335	307	357	350	320	325	298	303	358
12.4	12.4	12:9	11.3	12.2	13.6	11.2	12.6	11.9	12.1		12.2	124
4.6 32.0	4.5 31.4	30.1	5.4 31.3	4.5 35.0	2.7 31.4	4.8	3.7	3.8	4.3		5.1	5
103.7	100.4	107.6	105.9	104.5	101'7	32.4 106.2	32.9 106.8	30.9	31.7	99.3	30·3 97·8	313
46.5	46.5	48.2	49.7	48.6	47.0	49.2	47.8	46.4	46.6	46.0	44.8	47
17.9	18.7	20.0	20.4	20.1	19.3	19.9	19.0	19.3	19.0	19.6	18.1	20
18.1	17.8	17.2	18.5	17.8	17.3	18.1	17.8	17.7	17.9	16.1	16.3	16
10.5	10.0	10.9	10.8	10.7	10.4	11.3	11.0	10.0	9.8	10.3	10.4	10
51.0	51.6	52.7	51.9	51.5	52.3	51.3	50.8	52.8	52.1	56.0	52.3	50
24·4 22·0	24.6	24.4	25.5	25.5	26.1	24.7	24'7	25.6	25.0	29.6	26.5	24
14.5	22.6	24.0	21.4	21.2	21.5	21.6	21.1	22.4	22.4	22.5	21.6	21
23.4	14·2 23·4	14.8	15.3	15.5	13.5	15.8	15.7	13.9	15.1	13.6	15.4	15
17.4	17.2	24.5	21.2	23.4	22.7	22.6	25.0	21.7	23.8	22.3	22.7	23
61.9	61.8	20°5 62°1	17.6 60.6	17.8	18.3	17.8	18.5	16.5	174	16.5	17:5	17
74.5	73.6	81.0	83.1	60.4 76.2	61.0	60.8	61.7	62.7	61.1	57.8	60.7	61:
		010	001	102	80.7	78.8	74.3	75.9	73'2	74.3	77.2	75

TRIBE			Sūk.				MASAI	
Number	64	65	66	67	68	69	70	71
Age	60	25	30	30	25	42	30	20
Sex	3	8	3	3	9	8	3	3
Standing height	1698	1646	1670	1792	1669	1858	1781	1654
Height of head from vertex to	196	196	231	227	227	218	231	203
Length of neck in front	95	77	70	79		_	76	101
Length of trunk	526	481	500	519	536	_	506	478
Span of arms	1723	1803	1675	1865	1716	1973	1850	1700
Length of upper limb	815	826	755	829	792	915	859	769
Length of arm	338	335	296	322	329	374	348	297
Length of forearm	306	314	287	321	296	309	304	267
Length of hand	171	177	172	186	167	232	207	205
Length of lower limb .	881	892	869	967	878	1040	968	872
Length of thigh	432	451	435	486	441	513	482	430
T 41 (1	368	364	352	389	367	-	406	357
T (1 C C )		251	244	263	229	266	273	264
	242	201	244	263	229	200	210	204
Height from internal malleolus to ground	81	77	82	92	70	-	80	85
Maximum breadth of shoulders.	362	384	392	422	375	430	451	390
Maximum breadth of hips	280	297	267	295	316	314	320	300
Height to umbilicus	1006	1038	982	1118	1045	_	1090	1027
Circumference of chest	856	859	793	872	891	885	790	840
Minimum supra-malleolar cir- cumference of leg	178	187	189	195	192	195	200	193
Maximum supra-malleolar cir- cumference of leg.	302	330	302	328	331	340	320	310
Proportions to height = 100. Head	11.2	11.9	13.8	12.7	13.6	11.7	13.0	12.3
Neck	5.6	4.7	4.5	4'4		=	4.3	6°1 28°9
Trunk	31.0	29.2 109.5	29.9	29.0	32·1 102·8	106.5	28.4 103.9	102.8
Upper limb	48.0	50.5	45.5	46.3	47.5	49.2	48.2	467
Arm	19.9	20.4	17.7	18.0	19.7	20.1	19.5	18.0
Hand	18.0	19.1	17.2	17.9	17.7	16.6 12.5	17.1	12'4
Lower limb	51.9	54.2	52.0	53.8	52.6	56.0	54.4	52.7
Thigh	25.4	27.4	26.0	27.2	26.4	27.6	27.1	26'0
Leg	21.7	22.1	21.1	21.7	22.0	-	22.8	21.6
Foot	14.3	15.2	14.6	14.7	13.7	14.3	15.3	16.0
Breadth of shoulders	21:3	23.3	23.5	23.5	22.5	23.1	25.3	23.6
Height of umbilicus	16.5	18.0	16.0	16.5 62.4	18.9	16.9	61.2	62
Girdle index	77.3	77.3	68.1	69.9	84.3	73.0	71.0	76:9

# ANTHROPOLOGY

		MASAI.						Ando	ково.			
72	73	74	75	76	77	78	79	80	81	82	83	84
38	38	20	17	23?	21	22	26	- 24	35	30	25	40
3	3	9	2	2	8	3	3	3	2	. 5	3	2
1710	1888	1741	1583	1603	1677	1652	1684	1665	1474	1576	1589	1540
228	238	218	223	201	227	228	212	227	192	184	218	200
85	80	90	73	_	95	74	95	70	66	91	83	63
511	521	453	429	495	489	533	536	511	465	497	474	50
1722	1907	1811	1603	_	1779	1773	1723	1705	1427	1600	1606	155
721	880	831	730	791	785	805	801	791	667	719	742	71
239	308	337	287	316		332	318	311	261	280	283	30
273	352	290	251	279		270	302	292	252	267	275	25
209	220	204	192	196	200	203	181	188	154	172	184	16
886	1049	980	858	872	866	817	841	857	751	804	814	77
440	535	522	445	342	421	390	419	429	369	373	397	36
364	_	388	_	_	362	354	344	339	310	354	324	33
253	277	250	230	224	255	257	273	255	212	223	258	22
82	_	70	_		83	73	78	89	72	77	93	7
397	450	366	370	366	390	383	391	393	330	333	362	32
312	338	313	282	305	300	276	295	304	248	273	273	28
_	_	1109		_	1007	1007	1029	1007	901	988	952	95
	870	860	810	800	822	860	860	855	690	770	812	75
220		_	_	230	190	200	204	198	180	192	185	18
000							die e				2	
330	_	_	_	_	340	300	333	340	285	285	320	290
13.3	12.6	12.5	14.1	12.5	13.5	13.8	12.6	13.6	13.0	11.7	13.7	130
5.0 5.0	4.2 27.6	5.5 26.0	4.6 27.1	30.9	5.7 29.2	4.5	5.6	4.2	4.5	5.8	5.5	4
100.7	101.0	104.0	101.3		1061	32°3	31.8	30.7 102.4	31·5 96·8	31.5	29.8	32
42.2	46.6	47.7	46'1	49'3	46.8	48.7	47.6	47.5	45.3	45.6	46.7	46
14.0	16.3	19.4	18.1	19.7	-	20.1	18.9	18.7	17.7	17.8	17.8	19
16.0	18.6	16.7	15.9	17.4	-	16.3	17.9	17.5	17.1	16.9	17:3	16
12.5	11.7	11.7	121	12.5	11.9	12.3	10.7	11.3	10.4	10.9	11.6	10
51.8	55.6	56.3	54.2	54.4	51.6	49.5	49.9	51'5	50.9	51.0	51.5	50
25.7	28.3	30.9	281	21.3	25.1	23.6	24.9	25.8	25.0	23.7	25.0	23
21.3	-	22.3	_	-	21.6	21.4	20.5	20.4	21.0	22.2	20.4	21
14.8	14.7	14'4	14.5	14.0	15'2	15.6	16.5	15.3	14.4	14.1	16.5	
23.5	23.8	21.0	23.4	22.8	23.3	23.5	23.5	23.6	22.4	21.1	22.8	14
182	17.9	18.0	17.8	19.0	17.9	16.7	17.5	18.3	16.8	17.3	17.2	21
-	-	63.7	_		60.0	61.0	61.1	60.2	61.1	62.7	59.9	18
78.6	75.1	85.5	76'2	83.3	76.9	72.1	75.4	77.4	75.2	82.0	75.4	62° 87°

TRIBE	A	NDOROI	30.	K	AMÁSIA	(NAN	DI).
Number	85	86	87	88	89	90	91
Age	28	40	25	30	. 22	38	24
Sex	3	3	3	3	3	3	3
Standing height 1	667	1762	1607	1750	1615	1713	1676
Height of head from vertex to chin .	215	260	217	215	213	206	206
Length of neck in front	90	_	72	94	72	70	96
Length of trunk	516	483	498	499	485	524	517
Span of arms	733	1852	1584	1869	1622	1833	1883
Length of upper limb	800	864	725	842	741	821	847
	314	361	282	341	289	331	357
Length of forearm	293	316	270	314	269	. 298	318
	193	187	173	187	183	192	172
	846	970	820	942	845	913	857
	416	486	419	467	437	475	417
	341	392	306	373	321	352	355
	259	282	255	256	249	251	243
Height from internal malleolus to	89	92	95	102	87	86	85
Maximum breadth of shoulders	393	410	393	412	405	382	401
Maximum breadth of hips	289	305	272	306	294	296	291
Height to umbilicus 1	016	1105	954	1101	969	1070	1043
Circumference of chest	832	868	840	848	790	840	903
Minimum supra-malleolar circumfer-	189	193	193	195	190	192	193
Maximum supra-malleolar circumfer-	307	328	328	328	300	346	327
Neck       3         Trunk       3         Span       10         Upper limb       4         Arm       1         Forearm       1         Hand       1         Lower limb       5         Thigh       5	5°4 31°0 04°0 48°0 18°8 17°6 11°6 50°7 25°0 20°5	14'8 27'4 105'1 49'0 20'5 17'9 10'6 55'1 27'6 22'2	13.5 4.5 31.0 98.6 45.1 17.5 16.8 10.8 51.0 26.1 19.0	12'3 5'4 28'5 106'2 48'1 19'5 17'9 10'7 53'8 26'7 21'3	13.2 4.5 30.0 100.4 45.9 17.9 16.7 11.3 52.3 27.1 19.9	12.0 4.1 30.6 107.1 47.9 19.3 17.4 11.2 53.3 27.7 20.5	12:3 5:7 30:8 112:4 50:5 21:3 19:0 10:3 51:1 24:9 21:2
Foot	15.2	16.0	15.9	14.6	15.4	14.7	14:5
	23·6 17·3	23·3 17·3	24.5 16.9	23.5 17.5	25.1	22.3 17.3	23.9
Height of umbilicus	6.09	62.7	59.4	62.9	60.0	62.5	62.5
Girdle index	73.6	74.4	66.7	,74'3	72.6	77.5	72.6

Kamasia (Nandi).			NA	NDI.			LUMBWA (NANDI).	7	to [	Ваніма	<b>V.</b> , pr	
92	93	94	95	96	97	98	99	100	101	102	103	104
28	30	24	26	35	50	18	30	30-35	30?	- 25	40	-
3	8	_	9	8	3	3	3	8	3	2	9	3
1705	1720	1607	1657	1808	1712	1551	1754	1798	1919	1553	1591	1823
219	210	211	216	223	229	195	228	225	_	207	216	233
96	99	70	69	97	78	79	72	111		79	89	-
	523	510	532	571	524	476	- 576	502	648	542	498	465
470		7					1772	1933	1973	1647	1581	1937
1867	1799	1700	1733	1860	1794	1558		Mr. 16 - 31 - 31		1		12.1
842	824	762	778	848-	791	731	816	871	895	751	748	892
342	327	312	330	335	310	301	332	342	358	295	299	366
318	310	278	280	-318	293	260	295	326	332	265	274	330
182	187	172	168	195	188	170	189	203	205	191	175	196
920	888	816	-840	917	881	801	878	960	916	725	788	994
463	427	388	414	445	424	412	408	488	433	350	359	480
372	373	355	352	380	365	313	385	384	412	314	373	430
247	258	233	233	274	249	227	256	293	275	241	223	273
85	88	73	74	92	92	76	85	88	71	61	56	84
410	390	375	386	367	415	375	408	401	416	346	330	399
279	278	290	311	302	288	277	308	321	304	288	292	352
1062	1079	1005	1004	1130	1052	940	1057	1101	1074	244	912	1136
833	810	899	915	880	890	830	894	880	840	789	790	920
		4.				000	1	000	040	109	100	320
180	190	155	177	183	191	200	198	221	200	_	\ <u>-</u> 3	200
308	315	367	302	325	322	320	362	350	295	295	290	335
12.8	12.2	13.1	13.6	12.3	13.4	12.6	13.0	12.5	11.4	13.3	13.6	12.8
5.6 27.6	5'8 30'4	31.7	4°2 32°1	5'4 31'6	30.6	30.7	32.8	6.2		51	5.6	-
109.5	104.6	105.8	104.6	102.9	104'8	100.2	101.0	27.9 107.5	33°8 102°8	34.9 106.1	31.3	25°5
49.4	47.9	47.4	47.0	46.9	46.2	47.1	46.5	48.4	46.6	48.4	47.0	48.9
20.1	19.0	19.4	19.9	18.5	18.1	19'4	18.9	19.0	18.7	19.0	18'8	20.1
18.7	18.0	17:3	16.9	17.6	17.1	16.8	16.8	181	17.3	17.1	17.2	18.1
10·7 54·0	10.9	10.7	10.1	10.8	11.0	11.0	10.8	11.3	10.7	12.3	11.0	10.8
27.2	51.6	50.8	50.7 25.0	50.7	51.5	51.6	501	53'4	47.7	46.7	49.5	54.5
21.8	21.7	22.1	21.2	24.6	24.8	26.6	23.3	27.7	22.6	22.2	22.6	26.3
14.5	15.0	14.5	14.1	15.2	14.5	14.6	14.6	21.9 16.3	21.2	20.5	23.4	23.6
24'0	22'7	23.3	23'3	20.3	24.5	24.5	23.3	22.9	14'3 21'7	15.2	14.0	150
16.4	16'2	18.0	18.8	16.7	16.8	17.9	17.6	17.9	15.8	22.3	20.7	21.9
62.3	62.7	62.5	60.6	62.5	61.4	60.6	60.3	61.2	56.0	100	18'4 57'3	19:3
68.0	71.3	77'3	80.6	82:3	69.4	73'8	75.5	80.0	73.1	83.2	88.2	88.2

### ANTHROPOLOGY

TRIBE	BAN.	ANDE.			Вам	BUTE.		
Number	1	2	3	4	5	6	7	8
Age	40	45	30	34	35	20	22	20
	3	8	8	8	3	3	3	3
Maximum length	179	177	184	192	182	186	185	19
Maximum breadth	148	143	149	151	141	153	145	14
Bizygomatic breadth	140	136	130	139	133	143	130	13
Bigonial breadth	105	95	85	. 91	89	91	82	8
External biorbital breadth .	145	142	150	156	152	160	152	15.
Internal biocular breadth .	30	34	31	36	35	35	34	3
Length of ear	61	62	58	54	58	59	55	5
Breadth of ear	33	32	31	32	31	34	34	3
Length from nasal spine to root	37	45	48	41	40	43	35	4
Breadth " " " "	45	44	41	44	50	46	45	4
Indices.								
Cephalic	82.7	80.8	81.0	78.6	77:5	82.3	78.4	74
Nasal	121.6	97.8	85'4	107.3	1250	106.9	128.6	104
Bigonial	75.0 ×	69.9	65.4 53.4	65.5	66.9 53.4	63.6 57.6	63.1	56°
TRIBE		BASOGA			K	AVIRON	DO.	
Number	22	23	24	25	26	27	28	29
Age	20	50	$29\frac{1}{2}$	30	40	26	25	26
	2	7		7	7	7		
Sex	8	8	3	3	3	8	3	3
	183	195	රි 193	182	193	197	ਰ 198	3
- 11 1	183			0.52				ਰ 19
g Maximum length	183 146	195	193	182	193	197	198	ਰ 19- 140
Maximum length	183 146	195 139	193 152	182 146	193 149	197 148	198 145	රි 19- 14- 13-
Maximum length	183 146 129	195 139 132	193 152 135	182 146 140	193 149 147	197 148 136	198 145 139	19- 14- 13- 10-
Maximum length	183 146 129 98	195 139 132 111	193 152 135 108	182 146 140 105	193 149 147 117	197 148 136 116	198 145 139 113	19 14 13 10 14
Maximum length	183 146 129 98 142	195 139 132 111 138	193 152 135 108 147	182 146 140 105 145	193 149 147 117 172	197 148 136 116 165	198 145 139 113 163	3 19 14 13 10 14 3
Maximum length  Maximum breadth  Bizygomatic breadth  Bigonial breadth  External biorbital breadth  Internal biocular breadth  Length of ear	183 146 129 98 142 32 52	195 139 132 111 138 35	193 152 135 108 147 34	182 146 140 105 145 33	193 149 147 117 172 46	197 148 136 116 165 40	198 145 139 113 163 35	3 19 14 13 10 14 3 5
Maximum length  Maximum breadth  Bizygomatic breadth  Bigonial breadth  External biorbital breadth  Internal biocular breadth  Length of ear  Breadth of ear	183 146 129 98 142 32 52	195 139 132 111 138 35 51	193 152 135 108 147 34 54	182 146 140 105 145 33 67	193 149 147 117 172 46 57	197 148 136 116 165 40 53	198 145 139 113 163 35 60	30 19 14 13 10 14 30 30 30
Maximum length  Maximum breadth  Bizygomatic breadth  Bigonial breadth  External biorbital breadth  Internal biocular breadth  Length of ear  Breadth of ear  Length from nasal spine to root	183 146 129 98 142 32 52 32	195 139 132 111 138 35 51 32	193 152 135 108 147 34 54 34	182 146 140 105 145 33 67 39	193 149 147 117 172 46 57 34	197 148 136 116 165 40 53 32	198 145 139 113 163 35 60 34	30 142 134 100 142 30 51 34
Maximum length  Maximum breadth  Bizygomatic breadth  Bigonial breadth  External biorbital breadth  Internal biocular breadth  Length of ear  Breadth of ear  Length from nasal spine to root  Breadth """	183 146 129 98 142 32 52 32 37	195 139 132 111 138 35 51 32 41	193 152 135 108 147 34 54 34 42	182 146 140 105 145 33 67 39 45	193 149 147 117 172 46 57 34 40	197 148 136 116 165 40 53 32 41	198 145 139 113 163 35 60 34 45	30 142 134 100 142 30 51 34
Maximum length  Maximum breadth  Bizygomatic breadth  Bigonial breadth  External biorbital breadth  Internal biocular breadth  Length of ear  Breadth of ear  Length from nasal spine to root  Breadth  Breadth  """  Indices.  Cephalic	183 146 129 98 142 32 52 32 37	195 139 132 111 138 35 51 32 41	193 152 135 108 147 34 54 34 42	182 146 140 105 145 33 67 39 45	193 149 147 117 172 46 57 34 40	197 148 136 116 165 40 53 32 41	198 145 139 113 163 35 60 34 45	
Maximum length	183 146 129 98 142 32 52 32 37 40	195 139 132 111 138 35 51 32 41	193 152 135 108 147 34 54 34 42 48	182 146 140 105 145 33 67 39 45 43	193 149 147 117 172 46 57 34 40 50	197 148 136 116 165 40 53 32 41 43	198 145 139 113 163 35 60 34 45 41	30 19 14 13 10 14 30 30 4 4

Вам	BUTE.	BAA	MBA.				BAGA	NDA.	160			BASOGA
9	10	11	12	13	14	15	16	17	18	19	20	21
20	30	45	40	25	40	50	24	28	30	30	35	48
9	9	3	3	3	8	3	9	9	9	9	9	3
164	174	193	189	198	189	206	185	189	194	179	187	198
133	139	158	144	146	143	152	135	136	141	131	135	142
127	133	151	139	137	134	146	126	132	129	126	136	133
	82	110	95	103	100	117	94	97	96	95	96	109
137	145	135	151	160	140	170	132	135	130	121	143	145
37		34	34	36	31	38	34	32	34	31	32	35
59	57	59	55	53	46	58	49	56	53	50	47	57
32	34	35	35	38	33	38	34	31	31	32	35	36
39	36	50	43	43	42	46	35	38	41	35	40	46
37	40	44	40	38	41	44	39	36	45	35	41	47
81·1 105·4	79 [.] 9	81.9 88.0	76·2 93·0	73 [.] 7 88 [.] 4	75.7 97.6	73.8 95.6	73.0 111.4	72.0 94.7	72.7 109.7	73°2 100°0	72°2 102°5	71.7 102.2
_	61.7	72.8	68.3	75.2	74.6	80.1	74.6	73.5	74'4	75.4	70.6	82:0
54.2	59.6	59.3	63.6	71.7	71.7	65.5	69.4	55.4	58.5	64.0	74.5	63.5

	ENDU.	I	SWAHILI			MWEZI.	VANYA	-1		00.	VIRONI	KA
42	-41	40	39	38	37	36	35	34	33	32	31	30
24	30	28	25	45	35	40	25	30	30 .	36	35	30
2	9	9	9	3	3	3	3	3	8	3	3	3
18	189	205	190	194	189	193	195	195	201	198	194	190
14	141	141	142	143	136	151	147	153	154	154	150	147
136	135	135	131	136	137	144	137	139	138	138	139	133
99	98	89	96	105	96	106	106	102	96	111	111	107
148	150	142	137	142	142	137	142	146	143	155	147	145
- 40	35	38	33	+38	31	38	36	37	37	33	37	36
50	58	53	62	69	62	62	59	56	58	60	63	57
3	34	30	41	39	39	42	35	37	39	41	38	33
4	45	35	36	50	42	45	44	45	- 47	49	46	51
4	42	38	44	46	47	48	41	43	44	38	42	42
771	74.6	68.8	74.7	73.7	72:0	78.2	75.4	78.5	76.6	77'8	77'3	77.4
100	93.3	108.6	122.2	92.0 77.2	111.9 70.1	106'6 73'6	93°2 77°4	95°5 73°4	93.6	77.6 80.4	91.3	82.4 80.5
58	58.6	56.6	66.1	56:5	62.9	67.7	59.3	66.1	67.2	68.4	60.3	57.9

Breadth of ear

Cephalic . Nasal .

Bigonial.

Aural .

Breadth "

Indices.

Length from nasal spine to root .

TRIBE			LENDU		Log- BWARI.	ALU	RU.	Асн	OLI.
Number		43	44	45	46	47	48	49	50
Age		20	28	30	25	22	20	36	40
Sex		2	3	3	3	\$	9	3	3
Maximum length		187	194	192	196	189	191	184	189
Maximum length		142	134	150	148	135	134	141	153
Bizygomatic breadth		133	138	138	138	124	130	135	136
Bigonial breadth		93	92	94	102	90.	92	98	100
External biorbital breadth .		145	150	152	165	135	141	135	150
Internal biocular breadth .		37	35	35	37	34	_ 35	34	31
Length of ear		51	57	56	60	54	56	57	54
Breadth of ear		31	32	*30	35	27	32	44	33
Length from nasal spine to root		34	41	38	44	35	35	47	47
Breadth , , , ,		41	45	44	48	35	37	38	40
Indices. Cephalic. Nasal Bigonial. Aural		75.9 120.6 69.9 60.8	69:1 109:7 66:7 56:1	78:1 115:8 68:1 53:6	75.5 109.1 73.9 58.3	71.4 100.0 72.6 50.0	70°2 105°7 70°8 57°1	76.6 80.9 72.6 77.2	81 ( 85 1 73 ( 61 1
TRIBE	.			Sūk.				Masai.	
Number		64	65	66	67	68	69	70	71
Age		60	25	30	30	25	42	30	20
Sex		3	3	3	3	2	3	3	3
Maximum length		190	189	190	194	187	.196	203	195
		146	148	139	139	139	147	149	143
Bizygomatic breadth		131	136	131	139	132	140	143	139
Bigonial breadth		98	104	99	108	99	-	100	93
External biorbital breadth .		155	162	160	150	153	160	175	150
Internal biocular breadth .		35	35	31	34	37	35	42	34
Length of ear		54	51	58	57	49	_	-	_
	Charles and the			bender or the County	THE RESERVE AND ADDRESS.	THE RESIDENCE OF THE	ST. Personal III	THE PARTY OF THE P	

36

43

39

73.2

90.7

75.6

621

44

51

40

76.8

78.4

74.8

81.5

35

43

38

78.3

88.4

76.5

68.6

39

46

39

71.6

84.8

77.7

68.4

34

39

40

74'3

1026

75.0

69.4

49

40

750

81.6

55

44

73.4

80.0

69.9

50

43

73'3

86.0

66.9

Асноы. 51	BARI.	Какамојо.							Sữk.					
	52	53	54	55	56	57	58	59	60	61	62	63		
30	45	30	50	25	25	25	30	38	60	50	30	50		
3	3	9	3	3	2	8	8-	3	3	3	3	3		
196	190	173	200	203	193	_	196	185	195	197	203	195		
153	146	132	147	150	141	141	142	155	143	149	152	154		
137	134	136	140	146	135	137	141	142	142	142	139	144		
104	103	114	102	107	110	109	107	85	92	87	99	109		
172	155	145	165	150	150	150	156	162	150	163	155	170		
32	36	32	38	36	32	35	34	44	37	47	35	36		
56	68	60	58-	58	56	60	54	63	54	63	59	70		
35	42	35	41	33	35	35	37	37	38	40	39	44		
45	48	39	49	43	33	46	44	53	52	55	46	49		
43	41	37	42	39	41	41	41	41	43	38	43	46		
							111			17				
78'1	76.8	76.3	73.5	73.9	731	_	72.4	83.8	73'3	75.6	74.9	79.0		
95.5	85:4	94.9	85.7	90.7	124.3	89.1	93.5	77'3	82.7	69.1	93.5	93·9 75·7		
75.9 62.5	76.9 61.8	83'8 58'3	72.9 70.7	73°3 56°9	81.5 62.5	79°6 58°3	75°9 68°5	59.9	64.8 70.4	61°3 63°5	71.2 66.1	62.9		

	]	Masai.			Andorobo.									
72	73	74	75	76	77	78	79	80	81	82	83	84		
38	38	20	17	23?	21	22	26	24	35	30	25	40		
3	3	9	9	9	8	3	8	8	9	2	3	2		
207	203	193	181	193	194	189	198	194	182	176	189	172		
150	147	148	142	140	150	139	147	149	138	135	147	131		
130	134	128	126	134	125	133	144	139	131	127	143	128		
103	109	94	103	117	100	90	116	96	100	102	- 113	104		
160	155	155	130	95	160	155	155	162	160	162	155	149		
43	40	35	33	32	37	30	34	34	32	34	37	30		
	_	-	-	_		-	_	_	_	_				
- 3	_	_	_	34	_	-	_	_	_		100			
50	54	53	41	47	50	50	48	46	45	43	44	41		
43	43	36	38	33	40	40	39	37	33	35	43	35		
72:4 86:0 79:2	72.4 79.6 81.3	76.7 67.9 73.4	78.5 92.7 81.7	72°5 70°2 87°3	77°3 80°0 80°0	73.5 80.0 67.7	74'2 81'3 80'5	76°8 80°4 69°1	75.8 73.3 76.3	76:7 81:4 80:3	77.8 97.7 79.0	76°5		
_				_	_	_	_	-	_	_	-	813		

TRIBE				Andorobo.			Kamásia (Nandi).			
Number				85	86	87	88	89	90	91
Age				28	40	25	30	22	38	24
Sex				3	3	3	3	3	3	3
Maximum length				189	186	185	183	202	188	191
Maximum length (Maximum breadth				141	143	143	144	149	149	157
Bizygomatic breadth				132	144	146	140	140	144	151
Bigonial breadth .				106	113	112	105	93	95	102
External biorbital bread	dth			155	162	152	148	165	170	170
Internal biocular bread	th			30	35	38	34	35	30	40
Length of ear				211111111111	_	_	_		_	
Breadth of ear					-		38			36
Length from nasal spin	e to	root		47	48	47	46	50	51	44
Breadth " "	,,	,		41	38	39	41	38	37	36
Indices.				1						
Cephalic				74.6	76.9	77.3	78.7	73.8	79.3	82.2
Nasal				87.2	79.2	83.0	89.1	76.0	72.5	81.8
Bigonial Aural				80.3	78.5	76.7	75.0	66.4	66.0	67.5

# ANTHROPOLOGY

Kamásia (Nandi).			NA	NDI.			LUMBWA (NANDI).	Ваніма.					
92	93	94	95	96	97	98	99	100	101	102	103	104	
28	30	24	26	35	50	18	30	30-35	30?	25	40	_	
3	3	3	2	3	3	3	3	8	3	2	9	3	
189	193	182	183	199	199	199	190	204	201	188	193	197	
144	141	130	133	151	144	142	148	149	144	143	139	147	
143	134	123	128	143	143	130	136	135	135	131	125	135	
103	97 -	100	98	102	103	_	110	92	65	145	140	97	
160	152	135	145	164	163	165	150	153	155	92	90	152	
35	33	29	32	34	31	34	32	34	32	33	34	36	
-	_		_	_	_	51	-	68	61	57	48	61	
41	-	_	-		_	31	-	41	38	32	33	32	
48	43	38	35	47	48	44	44	33	52	47	46	41	
41	41	36	35	37	43	37	36	37	37	35	33	38	
76:2 85:4 72:0	73·1 95·3 72·4	71.4 94.7 81.3	72.7 100.0 76.6	75.9 78.7 71.3	72.4 89.6 72.0	71.4 84.1 — 60.8	77:9 81:8 80:9	73.0 112.1 68.1 60.3	71.6 71.2 — 62.3	76·1 74·5 — 56·1	72.0 71.7 — 68.7	74.6 92.7 71.9 52.5	

#### CHAPTER XIV

#### PYGMIES AND FOREST NEGROES

CUMMING up the experiences of many African travellers, together with my own observations, I should venture to say that there is a prognathous beetling-browed, short-legged, long-armed—" ape-like "—type of Negro dwelling in pariah tribes or cropping up as reversionary individuals in a better-looking people, to be met with all down Central Africa, from the Bahr-al-Ghazal to the upper waters of the Zambezi, and westwards from the Bahr-al-Ghazal to Portuguese Guinea. I have seen during my experience in British Central Africa very prognathous, ape-like Negroes coming from the regions round about the Congo-Zambezi water-They were slaves in Arab caravans. Messrs. Grogan and Sharp noticed this strange simian type between Lake Kivu and Lake Albert Edward, on the eastern edge of the Congo Forest.* Knowing nothing at the time of their observations in this respect, I was much struck on entering the countries west of Ruwenzori at the ape-like appearance of some of the Negroes whom I encountered. These were either ostensibly members of the Bakonjo or Baamba tribes on the western flanks of that snowy range, or they were pariahs dwelling by themselves on the fringe of the great Congo Forest, west of the Semliki River. This ape-like type was generally known to the surrounding negroes as "Banande." † Whenever I

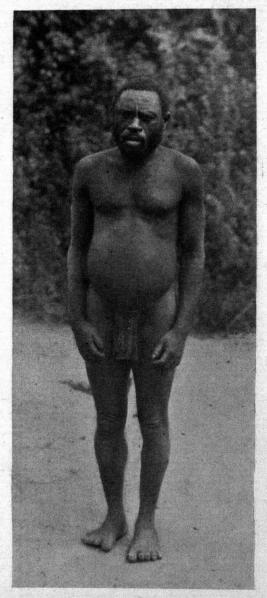
* Dr. Stuhlmann met with it amongst the Basongora in the Congo watershed west of Lake Albert.

† This being a designation in the Bantu language would in the singular be "Munande." The root would be "-nande," a word offering a strange similarity to "Nandi," which is the name given to a particular tribe on the forested plateaux to the north-east of the Victoria Nyanza. The Nandi, however, of this part of the Protectorate are anything but ape-like in appearance, and are of a Negro or Masai stock which has received a strong intermixture in times past with the Hamite, the result being in some instances handsome and almost European features.

Note.—For convenience of reference, in the following six chapters dealing with anthropology I shall print in italics an occasional word or phrase giving the subject of the paragraph. Thus a reference to "marriage customs" will be facilitated if "marriage" (when specially dealt with) appears in italics. The same will occur with "industries," "physical characteristics," etc.

encountered a rather brutish individual in this part of the country, he always turned out to be a Munande, but I am not able to say that there was any definite ape-like tribe known as "Banande"; on the contrary, whilst here and there prognathous, short-legged existed in separate dividuals communities in a pariah-like condition, very often they might be the offspring of Bakonjo, Babira, Baamba, or Bambuba peoples, who in their ordinary type were decidedly not simian, but who may have mingled in times past with the lowest stratum of the aboriginal population, with the result that the ape-like type still cropped up by occasional reversion. I should also observe that similar prognathous, long-upper-lipped, shortlegged Negroes reappear, though in a less marked form, among the Bantu people on the western slopes of Mount Elgon, in the dense forests clothing the flanks of that huge extinct volcano.

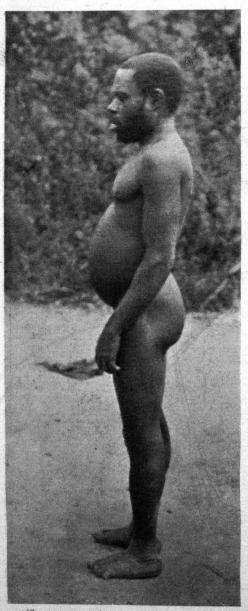
The illustration on p. 513 was drawn from an individual whom I found lurking in the forest near the Belgian station of Fort Mbeni, to the west of the Semliki River. His skin was a dirty yellowish brown. He was accompanied by a wife or woman companion, differing



267. A MUNANDE

little in appearance from the ordinary negroes of the forest. I was told that individuals like himself were not at all uncommon in that district, though they were pariahs dwelling on the outskirts of native villages,

almost destitute of any arts or human accomplishments, living to a greatest extent on the raw flesh of such creatures as they shot with arrows of trapped in the forest, and also subsisting partially on wild honey an



268. A MUNANDE (SAME INDIVIDUAL AS NO. 267)

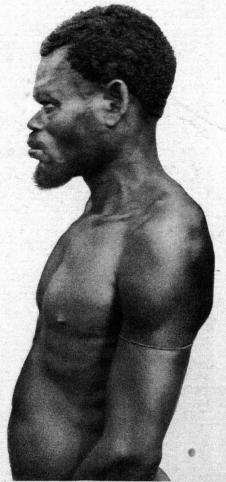
bee-grubs. The man was timic and it was very difficult to elic any particulars from him. H appeared to speak imperfectl the language of the Babira of forest people (a degraded Bant dialect).

So far I have given the re sult of a general impression o the eye of various travellers whe I have spoken of these negro the forested regions border-lands of the Uganda Pro tectorate being "ape-like." Bu I should state that the skul examined, the photographs the physical appearance studie the measurements of head an body analysed, do not enab scientific anthropologists to en dorse the term "ape-like" which has been used by myself an others to describe these negro of degraded aspect. Dr. Shrul sall, for instance, though admi ting the low standing of the examples in the scale of neg development, does not hold the they are appreciably nearer th fundamental simian stock than the average Negro. He consider however, that they offer sufficien general resemblance to the fore Pygmy type to be classed wit them, perhaps in a group which I have styled (for want of a bette name) the "Pygmy-Prognathous The resemblance between th Pygmies and these Banance

would appear to be osteological. Outwardly there is no special likeness between the two groups. Further evidence may show that the ape-like

type may crop up in any Negro race, whereas there can be no doubt that the forest Pygmies are a well-marked and distinct type of Negro.

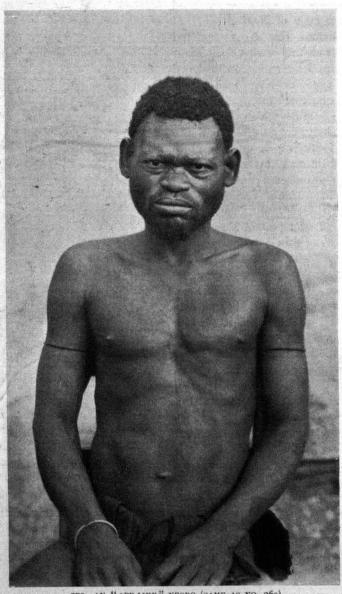
Even before the Negro quitted Arabia to invade and occupy the greater part of Africa he may have developed a Pygmy type, or have had a tendency to generate races of stunted Remains which have been found in Sicily, in Sardinia, and the Pyrenees, including a curious little statuette fashioned by men of the Stone Age discovered in the lastnamed locality, hint at the possibility of men of this Pygmy Negro type having spread over part of Europe: it has been even hinted by more than one anthropologist of authority that a Dwarf negroid race may have, at one time, existed in Northern Europe, and by an exaggeration in legend and story of their peculiar habits—habits strangely recalling the characteristics of the little Dwarf people of the Congo of the present day-have given rise to the stories of kobolds, elves, sprites, gnomes, and fairies. Like some of the Bushmen (who are, however, an independent development or an arrested type of Negro) who inhabited South Africa when it was first discovered by Europeans, and who still exist in the south-western part of that con-



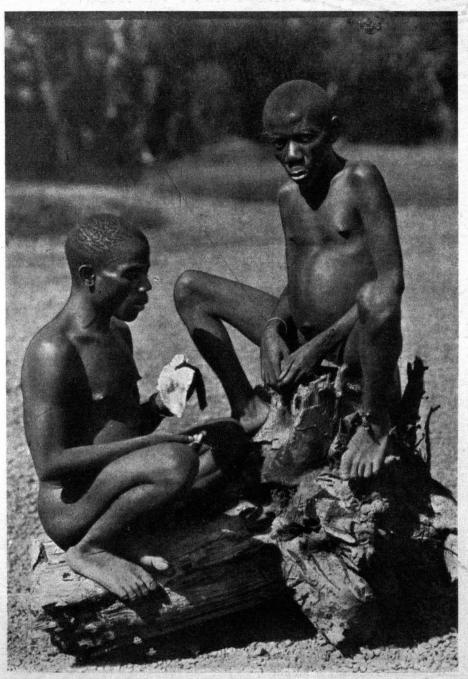
269. AN "APE-LIKE" NEGRO FROM THE VERGE OF THE CONGO FOREST: MUBIRA OR MUNANDE

tinent, like the European and Asiatic races of the early Stone Age, these Negro Dwarfs in bleak or poorly forested regions no doubt lived in caves and holes, and the rapid manner in which they disappeared into these holes, together with their baboon-like adroitness in making themselves invisible in squatting immobility—a faculty remarkably present in the existing Dwarfs of the Congo Forest—they gave rise to the belief in the

existence of creatures allied to man who could assume at will invisibility. Traits in the character of the Congo Dwarfs of the present day recall irresistibly the tricks of Puck, of Robin Goodfellow, of the gnomes and fairies of German and Celtic tradition.



270. AN "APE-LIKE" NEGRO (SAME AS NO. 269)



271. BAMBUTE PYGMIES FROM THE CONGO FOREST (WEST OF THE SEMLIKI RIVER)

The little Pygmies of the Congo Forest do not themselves cultivate or till the soil, but live mainly on the flesh of beasts, birds, and reptiles, on white ants, bee-grubs, and larvæ of certain burrowing beetles. Nevertheless, they are fond of bananas, and to satisfy their hankering for this sweet fruit they will come at night and rob the plantations of their big black agricultural neighbours. If the robbery is taken in good part, or if gifts in the shape of ripe bananas are laid out in a likely spot for the Pygmy visitor who comes silently in the darkness or dawn, the little man will show himself grateful,

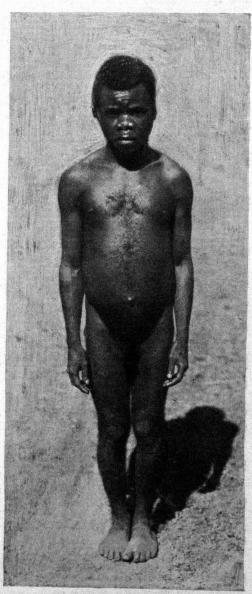


272. THREE BAMBUTE PYGMIES

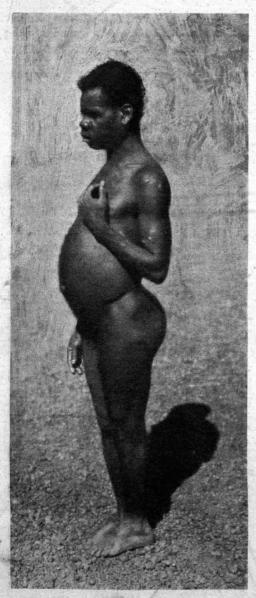
and will leave behind him some night a return present of meat, or he will be found to have cleared the plantation of weeds, to have set traps, to have driven off apes, baboons, or elephants whilst his friends and hosts were sleeping. Children, however, might be lured away from time to time to follow the Dwarfs, and even mingle with their tribe, like the children or men and women carried off by the fairies. On the other hand, it is sometimes related that when the Negro mother awoke in the morning her bonny, big, black child had disappeared, and its place had been taken by a frail, yellow, wrinkled Pygmy infant, the changeling of our stories. Any one who has seen as much of the Central African Pygmies as I have, and has noted their merry, impish ways; their little songs; their little dances; their mischievous pranks; unseen, spiteful vengeance; quick gratitude; and prompt return for kindness, cannot but be struck by their singular

resemblance in character to the elves and gnomes and sprites of our nursery stories. At the same time, we must be on our guard against reckless theorising, and it may be too much to assume that the Negro

species ever inhabited Europe, in spite of the resemblance between the stone implements of palæolithic European man and those of the modern Tasmanians the Tasmanians were -and negroid if not negro. Palæolithic man in Europe may have been more like the Veddah, the Australian, the Dravidian, the Ainu, than the Bushman or Congo Pygmy. Undoubtedly (to my thinking) most "fairy" myths arose from the contemplation of the mysterious habits of dwarf troglodyte races lingering on still in the crannies, caverns, forests, and mountains of Europe after the invasion of neolithic man. But we must not too widely assume that these extinct Pygmy races were Negroes. They might well have been the dwarfed descendants of earlier and less definite human species; they may have been primitive Mongols like the Esquimaux. All the three species, or subspecies, of Homo have developed separately, repeatedly, and concurrently, dwarf and giant races. Tall peoples have arisen independently one after the other in Patagonia, in Equatorial Africa, in North Africa, Syria, Northern Europe, and Polynesia. Stunted races have been evolved in several parts of Africa, in Scandinavia, Japan, the An-



273. AN MBUTE PYGMY FROM BEYOND LUPÁNZULA'S (UPPER ITURI DISTRICT)



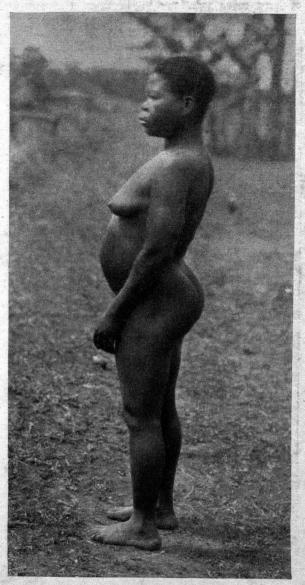
274. AN MBUTE PYGMY (SAME AS NO. 273)

daman and Philippine Archipelagoes, or *amongst the Esquimaux.

I am not even inclined, now, to advocate the theory that the Congo Pygmies of Equatorial Africa are necessarily connected in origin with the South African Bushman. Some Bushmen tribes in South-West Africa, where better food conditions prevail, are scarcely Dwarfs. The Bushmen and Hottentots are obviously closely inter-related in physical structure; but I can see no physical features (other than dwarfishness) which are obviously peculiar to both Bushmen and Congo Pygmies. On the contrary, in the large and often protuberant eyes, the broad flat nose with its exaggerated ala, the long upper lip and but slight degree of eversion of the inner mucous surface of the lips, the abundant hair on head and body, relative absence of wrinkles, of steatopygy, and of high, protruding cheek-bones, the Congo Dwarf differs markedly from the Hottentot-Bushman type. It is true that some of the Congo Pygmies intercalate their speech with faucal gasps in place of guttural consonants, but this defect in pronunciation need not necessarily contain any reminiscence of the Bushman click. There is one language

spoken in Eastern Equatorial Africa (in the German sphere) which has clicks—the Sandawi. But this, though it may be a relic of extremely ancient days, when the ancestors of the Hottentots were dwelling

in East Africa, is not at the present time spoken by a people offering



275. A PYGMY WOMAN OF THE MULESE STOCK, UPPER ITURI

marked physical resemblance to the Congo Pygmy or to the Scuth African Hottentot.