On Composite Photographs of Skulls

Author(s): Dr. Billings

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females, and 34 per cent. of the males hear the next shrillest test-note, as against 28 per cent. of the females.

	Ages.	Percentage of cases in which the under-mentioned number of vibrations were perceived as a musical note.				Number of Cases.
		Number of vibrations per second.				
		20,000	30,000	40,000	50,000	
Males.. {	23-26	99	96	34	18	206
	40-50	100	70	13	4	317
Females {	23-26	100	94	28	11	176
	40-50	100	63	8	1	284

On COMPOSITE PHOTOGRAPHS of SKULLS.

By DR. BILLINGS, Curator, Army Medical Museum, United States.

(*Extracts from a letter to Mr. F. Galton, relating to the Photographs exhibited at the Meeting of the Institute on November 11th, 1884.*)

“WAR DEPARTMENT, SURVEYOR-GENERAL’S OFFICE,

“WASHINGTON, D.C., *October 28th, 1884.*

“I have the honour to forward to you by mail to-day a few specimens of composite photographs illustrating the application of your suggestion of that mode of illustration to the subject of craniology. These composites have been made directly from the crania themselves, and not by combining different photographs. I have satisfied myself that this method bids fair to be of great importance in craniological studies, permitting a comparison of crania in different collections more satisfactorily than any system of measurements which has yet been devised.¹

“JOHN S. BILLINGS,
“*Surgeon U.S. Army.*”

LIST OF PHOTOGRAPHS SENT.

Composite photograph of seven adult male *Sandwich Islanders’ Skulls*, side view; Nos. 425, 444, 442, 445, 446, 438, 286, Section IV, a.m.m. Wet process, exposure 70 seconds.

¹ See Memoir by Mr. Galton, “On the Application of Composite Portraiture to Anthropological Purposes.” Report of the British Association, 1881, p. 690.

Composite photograph of seven adult male *Sandwich Islanders' Skulls*, front view; Nos. 425, 444, 442, 445, 446, 438, 286, Section IV, a.m.m. Wet process, exposure 70 seconds.

Composite photograph of seven adult *Negro Skulls*, front view; Nos. 980, 411, 955, 949, 953, 979 954, Section IV, a.m.m. Beebe's gelatin dry plate, exposure 3 seconds.

Composite photograph of eight male *Ponca Indian Skulls* (adult), side view; Nos. 836, 837, 835, 834, 831, 487, 486, 877, Section IV, a.m.m. Beebe's gelatin dry plate, exposure 3 seconds.

Composite photograph of eight male adult *Ponca Indian Skulls*, front view; Nos. 836, 837, 835, 834, 831, 487, 486, 877, Section IV, a.m.m. Beebe's gelatin dry plate, exposure 3 seconds.

Composite photograph of seven adult male *White Skulls*, Nos. 6306³, 7023, 6305, Section I; 63, 2118, 2119, 38, Section IV, front view, Beebe's gelatin dry plate, exposure 3 seconds.

Composite photograph of seven adult male *White Skulls*, Nos. 6306³, 7023, 6305, Section I; 63, 2118, 2119, 38, Section IV, a.m.m. side view. Beebe's gelatin dry plate, exposure 3 seconds.

Composite photograph of eighteen adult male *Cheyenne Indian Skulls*, Nos. 5560, 6525, Section I; 526, 2061, 528, 8, 715, 149, 146, 150, 1762, 9, 913, 464, 2121, 2090, 2035, 773, Section IV, a.m.m., side view. Beebe's gelatin dry plate, exposure 1½ seconds.

Composite photograph of seven adult male *Sandwich Islanders' Skulls*, base view, Nos. 425, 442, 444, 445, 446, 438, 286, Section IV, a.m.m. Beebe's gelatin dry plate, exposure 3 seconds.

Composite photograph of seven adult male *Sioux Indian Skulls*, base view, Nos. 483, 793, 792, 1119, 665, 330, 816, Section IV, a.m.m. Beebe's gelatin dry plate, exposure 1 second.

THE YAHGANS OF TIERRA DEL FUEGO.

EXTRACT from a LETTER addressed to Prof. Flower by the REV. THOMAS BRIDGES, of the South American Missionary Society, dated Ooshooia, Fireland, August 24th, 1884.

"You will perhaps be glad to have a few particulars of the physical state of these natives (the Yaghans). Among them are great differences of appearance, stature, bulk, and features. Whilst generally the hair is lank, you not unfrequently see wiry, short, frizzy hair; while most are wan and cadaverous, not a few have a decided rouge on their cheeks, especially the women. The people are invariably stout in their trunk, having little or no narrowing at the waist, and are short-necked, deep-chested, and of a vigorous frame. But in these particulars there are all degrees, some being even in health decidedly slender. In limbs, upper and nether, they are small, and their hands and feet are smallish. Work and change of life have an immediate effect upon their physique, resulting in fine muscular limbs, and hands fit for a blacksmith. In the