the Elephant Seal obtained from the Falkland Islands, and, for convenience of reference, have included in the table the measurements of his specimen.

From this table it will be seen that none of these skulls equalled in length the Falkland Island specimen, or indeed two other large skulls referred to in Professor Flower's table on p. 147 of his memoir, but that they closely approached in length the skull in the Berlin Museum obtained in Kerguelen Island by the German Transit of Venus In their other dimensions also they were much smaller than the skull from the Falkland Islands above referred to, which is much the largest specimen that has yet been measured. The very material difference between the dimensions of the male skulls and the largest female will at once be recognised. It will be of importance therefore to determine, if possible, whether this difference is sexual or merely due to a difference in relative age. The female skull is, I believe, to be regarded as approaching adult, for the occipito-sphenoidal synchondrosis was obliterated, except for a faint trace on the surface of the bone on each side, and the junction between the pre- and post-sphenoids was only indicated by a surface mark. But it should be stated that in the cervical vertebræ which accompanied this skull the plate-like epiphyses of the bodies were not ankylosed. In the female skull next in size to the above, the condylo-premaxillary length of which was 274 mm., both the basi-cranial synchondroses were unossified, though the interval between them was narrow.

TABLE I.—CRANIA OF ELEPHANT SEAL.

Length from front of premaxilla to occipital condyle, """ to occipital crest, Extreme interzygomatic width, Extreme width between occipital crests, Greatest width at posterior edge of external meatus, Greatest width of palate, Width of maxilla across middle of rostrum, Width between outer sides of base of upper canines, """ upper lateral incisors, """ lower canines, Length of palate from mesial notch behind to incisor teeth, Height of skull from basion to middle of occipital crest, Smellest inter frontal width in palet of	Heard Island. h. mm. 486 508 354 203 284 178 168 160 58 250 167	Heard Island. mm. 493 497 350 201 303 154 160 146 83 248 160	Kerguelen Island. c. mm. 402 392 281 187 253 124 122 106 43 64 176 141	Kerguelen Islaud. f. mm. 300 296 222 171 199 89 73 62 31 38 128 112	Frof. Flower. Falkland Islands. mm. 564 597 384 242 185 176 158 60 93 272
lower canines		83	64	38	93
Height of skull from basion to middle of occipital crest, Smallest inter-frontal width in plane of upper surface,					•••
Length of nasals, . Greatest width of anterior nares,	55 98	65	55 82	43 48	
Vertical diameter of mes-ethmoid at anterior nares. From antero-inferior angle of mes-ethmoid to central incisor.	80 158	85 145	64 127	48 85	
Greatest length of mandible, Greatest width at condyles of lower jaw,	850	326 318	253 236	191 195	375 352
	1				l <u> </u>

In Dr. Scott's male the occipito-sphenoidal synchondrosis was obliterated mesially, but on each side a gap about 1 mm. wide separated the two bones; the synchondrosis between the pre- and post-sphenoids was, however, open both mesially and laterally.