Balænidæ.¹ Eight bullæ, 2 to 3 inches (64 to 76 mm.) in length, somewhat resemble those of Ziphius cavirostris, though without the unciform lobe.² About forty specimens, 1.6 to 2.3 inches (41 to 58 mm.) in length, belong to the genus Mesoplodon; the two largest, in which the petrous bone was united with the tympanic, could not be determined, but the rest apparently belong to Mesoplodon layardi.³ Twenty-four specimens, 1 to 1.7 inches (25 to 43 mm.) in length, belong apparently to the Delphinidæ; the longest resembles the bulla of Globiocephalus,⁴ others belong to the genus Delphinus, while the smallest are like those of the common porpoise. One specimen belongs to the genus Kogia,⁵ and other two are closely allied to it.⁶

The larger petrous bones, the longest being 2 inches (51 mm.) in length, probably belong to the genus *Mesoplodon*, the others to the genus *Delphinus*, while two specimens are smaller than those of the common porpoise. There were fourteen specimens consisting of the petrous and a portion of the elongated mastoid element continuous with it, varying in length from 2.5 to 3.6 inches (64 to 91 mm.), belonging apparently to the Baleen whales.

There were also numerous fragments of other bones, including a beak of a Ziphioid whale, measuring over 8 inches (20 cm.) in length, and three smaller fragments of beaks of Ziphioids; numerous flat fragments, portions of the brain case, and one or two probably bits of the shaft of a rib. An irregular mass of spongy bone  $8 \times 4 \times 3$  inches ( $20 \times 10 \times 8$  cm.), not nearly so much impregnated with manganese as the rest, and two smaller fragments, one  $5 \times 5$  inches ( $13 \times 13$  cm.), are apparently portions of the expanded wings of superior maxillæ. Nearly two hundred small fragments, forming the nuclei of manganese nodules, exhibited evidence of bone structure.

A portion of the spongy mass of whale's bone was completely analysed by Professor Dittmar, F.R.S., 12 with the following results:—

Moisture,			•	•	•	3.06
Combined water,				•		3.66
Phosphoric acid,						27.49
Carbonic acid,						4.14
Fluorine, $0.71 = 0.00$	$\mathbf{F}_{0}-0$				•	0.41
Lime, .						39.00
Magnesia, .		•				2.01
Ferrous oxide,						1.04
Ferric oxide,						4.83
Binoxide of mang	ganese,					1.61
Alumina, .						2.70
Silica and substances insoluble in hydrochloric acid,						9.08
Alkalies and loss,					: **:	0.97
						100.00

<sup>&</sup>lt;sup>1</sup> See Pl. VII. figs. 4, 5. <sup>2</sup> Figured in Zool. Chall. Exp., pt. iv. pl. ii. fig. 12. <sup>3</sup> See Pl. VIII. figs. 1, 2.

<sup>See Pl. VIII. fig. 6.
See Pl. VIII. fig. 7; also figured in Zool, Chall. Exp., pt. iv. pl. ii. fig. 13.
Figured in Zool. Chall. Exp., pt. iv. pl. ii. fig. 14.
See Pl. VIII. figs. 8, 9, 14.
See Pl. VIII. figs. 3.</sup> 

Figured in Zool, Chall. Exp., pt. iv. pl. ii. fig. 14.

See Pl. VIII. figs. 8, 9, 14.

See Pl. X. fig. 1.

See Pl. X. fig. 3.

See Pl. X. fig. 3.