

No. 6. *Portion of a Whale's Bone much impregnated with Manganese.*

Station 286 ; 2335 fathoms, South Pacific.

The manganese was pretty well diffused all through the specimen.

Found in 100 parts—

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|--------------------------------|-------|
| Moisture, | 5.49 |
| Combined water (H_2O), | 6.88 |
| Phosphoric acid (P_2O_5),* | 13.05 |
| Fluorine (F_2), | 0.65 |

Ratio of equivalents of phosphoric acid and fluorine—

1 : 0.062

No. 7. *Portion of Earbone (Ziphius).*

Station 289 ; 2550 fathoms, South Pacific.

This specimen resembled Nos. 2 and 3, but was smaller, and the cavity, which in them was filled up with a brownish friable mass, contained in this case a hard black substance. The inner portion was brownish ; it consisted of hard vitreous looking matter with a yellowish soft powder diffused through it.

Found in 100 parts of the inner portion—

| | |
|--------------------------------|-------|
| Moisture, | 1.61 |
| Phosphoric acid (P_2O_5),† | 32.73 |
| Fluorine (F_2), | 1.61 |

Ratio of equivalents of phosphoric acid and fluorine—

1 : 0.061

No. 2. *Portion of Earbone of Balænoptera.*

Station 286 ; 2335 fathoms, South Pacific.

This specimen was very similar to No. 3, having a cavity with a brown incrustation, a black outer coating, and the inside being almost uncoloured by iron or manganese.

Found in 100 parts of the inner portion—

| | |
|--------------------------------|-------|
| Moisture, | 1.6 |
| Combined water (H_2O), | 1.34 |
| Phosphoric acid (P_2O_5),‡ | 31.21 |
| Fluorine (F_2), | 1.89 |

Ratio of equivalents of phosphoric acid and fluorine—

1 : 0.0753.

* Equal to 28.48 per cent. tricalcic phosphate.

† Equal to 71.44 per cent. tricalcic phosphate.

‡ Equal to 68.13 per cent. tricalcic phosphate.