

5. MAMMALIA.

The skulls, skeletons, and viscera of a specimen of each species of the *Cetacea* of the Southern Ocean are worthy of being preserved. With respect to the Sperm Whale, an entire foetus, or, if of large size, the brain, eyes, pharynx, larynx, and blow-holes, and the viscera; a part of the impregnated uterus; the ovaria, and a portion of the membrane of the foetus; are all parts worthy of preservation.

The same observations apply to the great Elephant-Seals (*Phoca (Cystophora) proboscidea*); of which the skull and skeleton of both male and female are very desirable.

The skulls or skeletons of all the species of the Southern Seals should be preserved, the sex being noted.

6. IN PARTICULAR REGIONS.

In Australia or Van Diemen's Land the following species are more especially worthy of attention.

Thylacinus Harrisii, Hyæna of the Colonists.

Of this species, the skeletons of male and female, detached skulls, an entire specimen in the saline solution for dissection, the viscera, and more especially the impregnated uterus, and a young specimen for the changes in dentition, are particularly desirable.

The skeletons, skulls, and female organs of every marsupial quadruped, and of the *Ornithorhynchus* and *Echidna* (or Porcupine of the Colonists) should be preserved.

The smaller *Mammalia* of Australia, whether marsupial or rodent, should be preserved in spirit, and particular notice taken of their locality and habits.

Among the birds of Australia the Lyre-Pheasant (*Menura*) would be an interesting subject for anatomical investigation. Of this species are wanting the skeletons of a male and female, and of the young bird; and the entire body of both sexes in spirit, or the saline solution.

The same with respect to the large-billed Cuckoo (*Scythrops*), and Sea-Partridge (*Glareola*).

In New Zealand similar preparations should be obtained of the *Megapodius*, and of the *Apteryx australis*.

With regard to birds it may be observed, that if spirit be injected down the windpipe, it will pass through almost the whole body by means of the air-cells. In the case of a quadruped preserved in spirit, or in the saline solution, it is proper to inject the preserving liquor into the abdominal cavity and intestinal canal.

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