



THE HORNBILL FAMILY.

It is not strange that Africa, the home of the gorilla and hippopotamus, should possess the most curious specimens of the great class of birds; for it has been found to contain within its tangled jungles the rarest and most grotesque forms of animal life, though we must except the island of Australia, where the laughing jackass and the kangaroo are found.

One of the most interesting and attractive families of birds is that of the hornbill. Although this bird is found in India, it is much more abundant in Africa.

If we may believe report, the bill of the hornbill is nearly one-fourth the length of its body. The bill is very long, curved, deep and thin, and has a helmet upon its crown, of various shapes and sizes; and this helmet is used to give to many species their specific, or proper, names. Thus, there is the *Buceros bicornis*, or two-horned hornbill; the *Buceros rhinoceros*, or rhinoceros hornbill, so called from the immense helmet resembling the horn of a rhinoceros. *Buceros* is the generic name applied to them from some peculiarity they all possess in common; the specific, or individual, names being derived from the shapes of their helmets.

Though seemingly heavy and unwieldy, the bill of the hornbill is very light, being composed of light cellular tissue, resembling in this respect the skull of the elephant; and the walls of thin bone are so fragile, that in dried specimens it may be crushed in the hand. The edge of the mandibles, or beaks, are very sharp, frequently breaking off and being renewed. It is said that the

age of the bird may be ascertained from the wrinkles on its bill, as the age of a cow is sometimes told from the wrinkles around her horns.

Before proceeding further, it may be well to notice a family of birds, inhabiting South America, often confounded with the hornbills, from their resemblance. These are the toucans. They are confined to the warmer portions of the New World, as the hornbills are to those of the Old. Their bills are large, of the same structure, but lack the helmet; they are brighter-coloured and more gaudy of plumage. Their voices are loud and harsh, and can be heard a long way.

It is from the cry of the Brazilian species, "toucano," that they derive their name. When feeding, they post a sentinel. They have a habit of sitting upon the topmost branches of trees, chattering, lifting their heads at regular intervals, clashing their bills together, and crying out so loudly as to be heard at the distance of a mile. From this the natives have given them the name of "preacher birds." They have great antipathy to any bird uglier than themselves, and will mob an owl with the zest of crows, nearly frightening the poor bird to death with their clashing beaks and loud cries.

To return to our friends, the hornbills. From the great size of their bills, they cannot walk easily upon the ground, but hop along awkwardly. The trees are their homes, and they hop from limb to limb with great ease, climbing to the tree-tops, where they remain for hours shouting gleefully in their bravest tones.

They feed upon pulpy fruits, small animals, reptiles and insects, and make their nests in hollow trees.

The largest species is the rhinoceros

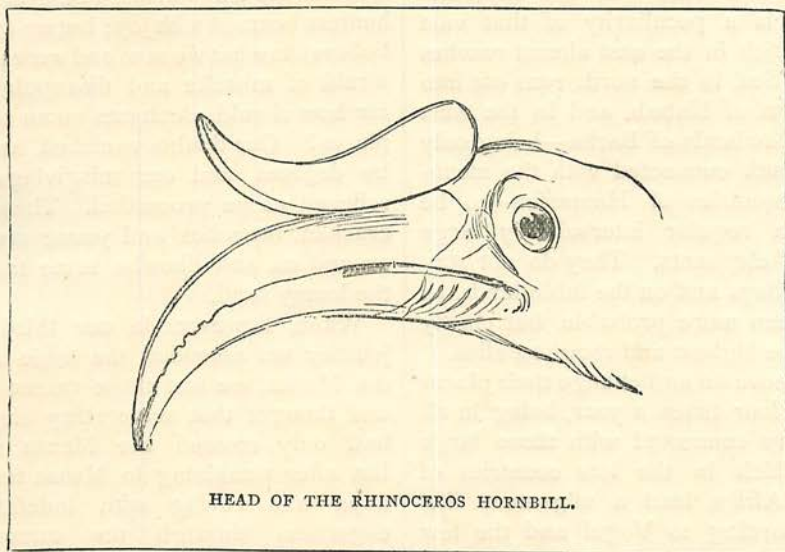
hornbill, which has a stretch of wing of about three feet, and a bill ten inches in length. The general colour of this bird is black, the tail tipped with white. The bill is black at the base, reddish in the middle, and yellow tipped.

The most attractive species, as to plumage, is the crested hornbill, which has a crown of feathers, like the spread crest of a cockatoo, and a long, beautiful tail.

But the most interesting species is one noted, not for its plumage, but for a habit of nesting and living peculiarly its own.

female, she is shut up a close prisoner for weeks; that the entrance to the hole is plastered over with mud, until only a little slit is left, three or four inches long and half an inch wide—just large enough to admit the beak.

The male bird, who has walled up the hole, feeds the female through the slit until the young are hatched and fledged—a period of eight or ten weeks. In this time the female has become very fat, and is often hunted out and eaten by the negroes of the country, who esteem her a great delicacy.



HEAD OF THE RHINOCEROS HORNBILL.

This is the red-billed hornbill, the *Buceros erythrorhynchus* of naturalists. We have been told by Livingstone, the African explorer, that this bird breeds, like the other members of its family, in hollow trees; that it makes its nest in holes in the trunks of these trees; that the female lines its nest with feathers from her own body, and lays four or five eggs, white, and of the size of pigeons' eggs.

In this there is nothing remarkably noteworthy; but we are astonished when we read further and find that, after the nest is prepared to the satisfaction of the

Sometimes the female hatches out two young ones, that are nearly able to fly before the other two appear. Then, with the two older birds, she leaves the nest and walls in the younger ones, which are fed through the slit, by their father and mother, until able to take care of themselves. Writers have speculated upon the reason for this peculiar style of hatching out and bringing up the young hornbills; but, although they cannot tell exactly why the plan is adopted, there is no doubt but that the old birds know what they are about.