though at complete liberty-for more than one season, never lost

the breeding plumage, but displayed it all the winter.

Turning to bires which spend their lives on the ground, as opposed to arboreal and aquatic forms, we find that two Oriental resident bustards, the lorican (Iduoburopsis bengalensis) and the likk (Syphedides auxities) show a remarkable seasonal change in the males, the plumage of which becomes chielly black in the breeding season. It is interesting to note, however, that some males of

the florican appear to retain this livery permanently.

In the game birds of the family Phasianida seasonal changes are almost unknown in the males, though so many are brightly coloured, even among species inhabiting regions of snow and decideous rollage. A change, however, about a small one, does occur in two tropical species, the red and the groy jungle fowls of India (Gallus Insaliva and G. someratis), which after breeding loss their gay-coloured hackies and the long "sickles" of the tail, the hackies also have been supported by short black feathers for a considerable period. The green jungle fowl of Java (Gallus Jurcatus) is, however, seempt from this change dank feathers for a considerable period. The green jungle fowl of Java (Gallus Jurcatus) is, however, species to occur in the Coylon species (G. Infaguttii). In the dimensitie fowl, the descendant of G. bonkira, this change of hackle for short feathers does not usually occur even in India, but I once observed it there in a case of a Langshan cock imported from China.

The little group of hemipodes furnishes an example of a tropical bird undergoing a seasonal change, Mr D. Seth-Smith's recent observations on Turnis tank; (Field, Sept. 5), having shown tant the rufous collar in the female of this species, formerly con-

sidered as a sign of complete maturity, is really a seasonal character. Taken collectively, the above cases are sufficiently numerous to prove that colour change is no exclusive attribute of the birds of temperate or cold climates; but there is reason to believe that in some cases the change of plumage is tending to disappear. The facts mentioned with reference to the permanent retention of nuptial plumage in the Indian dabchick and the florican point in this direction. At the same time, it must be remembered that the occurrence of full-plumaged birds at a season when winter nlumage should be the fashion does not disprove a change of plumage unless the individual birds have been watched In the Calcutta market I have been able to observe males of the domestic duck in full plumage at all seasons; but observation convinced me that the ordinary drake goes into the "eclipse" stage in India just as he does in England. From the occurrence of young ducks all the year round in the same market, however, it was obvious that the birds might have been bred at different times, and

BURCHELL'S RHINOCEROS ON THE UPPER NILE.

THE evidence for the existence of Burchell's rhinoceros (Rhinoceros simus) in the country of the White Nile is incontrovertible. It was long believed that this species was confined to the country south of the Zambesi; and the first account of any value of its occurence north of that river came from Dr Gregory, who in his Great Rift Valley mentions that he saw in Leikipia three examples which he considered belonged to this species, though he failed to secure a specimen. Major Gibbons in his journey from the Cape to Cairo put the matter beyond dispute, for in the Lado district he shot one, the skull and horns of which were exhibited at a meeting of the Zoological Society on Dec. 18, 1900. Unfortunately this specimen, the first authentic record of the existence of the animal north of the equator, was allowed to pass into the possession of an American museum, At the zoological meeting on Tuesday, Dr Sclater exhibited a mounted horn obtained in 1902 from the officers of the Belgian post at Lado by Capt, C. J. Hawker, who presented it to the Natural History. This trophy is mentioned in the last edition of the Records of Big Game; the measurements are 30% in. along the outer curve, and 25% in, round the base. Dr Sclater said that the basal part of the front horn in Burchell's or the white rhinoceros was broad and flattened in front, while in the c mmon African rhinoceros (R. bicornis) it was more or less rounded with a projection in front. Applying this criterion to the five front horns which Mr Gerrard had kindly sent for comparison, four belonged to Burchell's rhinoceros and one to the common form. These were the property of Col. Sparkes, who obtained them in Khartoum. Mr Scherren said that five other animals had been shot in that district since Capt, Hawker obtained his specimen. Three were entered in the Records of Big Game, and he hoped to exhibit at the next meeting, by the courtesy of Mr Rowland Ward. the largest horn vet sent to this country from the Soudan, measuring a vard along the front curve. Mr Old eld Thomas seems to be the only zoologist who has recognised the importance from the point of view of geographical distribution of the occurrence of this rhinoceros so far north. Writing in 1900, he laid stress on the fact that Major Gibbons's discovery of R. simus in the Nile watershed brought it geographically nearer to the woolly rhinoceros (R. antiquitatis) of Europe and Siberia, and that both were probably offshoots of the broad-noved rhinoceros (R. p'atyrhinus) from the Pliocene of the Sivalik hills. Its fossil remains may yet be found

ABNORMAL CLAWS OF LOBSTER AND CRAB

in the Favum.

could hear, every now and than, the social whisper "syou"—the call for the keeping together of the flocks. On the following night I heard more redwings going over, but a quiet N.W. wind to a S.W. breeze the migration was not no large. Since Oct. 19 I have not heard any of these birds, yet they were flying over on the evening of Nov. 2. On Gogg nights the call of

the redwing is more distinct.—CHAMELKON.

TREATMENT OF CHAMELEON.—Will any correspondent tell
me from experience how to feed and tend a chameleon; I am told
to give it mealworms and flies, but at present it will take nothing
voluntarily, and we have to open its mouth, and push the fly in.
Should it be given a piece of fannel in the cage to keep it warm?—
H. HERBERT.—If the temperature of the room in which it is kept
is properly maintained, no fannel will be required. As to food,
the most natural, but perhaps some one of our readers can give
advice from experience.—Even.

advice from experience.—E.D., GREENLAND FALCON IN YORKSHIRE.—According to report, a Greenland falcon [Falco candicans) was recently shot at Hurst, in Swaledale, and is said to have measured 221, and weighed 23th. If this should meet the eye of anyone who may have seen this particular bird, may I ask them to examine the specimen again, as possibly it may be an Iceland falcon (Folco is/andus). The length—221.—agrees with that of the Iceland falcon, the Greenland falcon agrees with a state of the Iceland falcon, the Greenland falcon and the Iceland falcon falcon

as in the source of some species.—H. W. ROBINSON (Lancaster).

ROOK TOYING WITH AN ACORN.—I had an experience that was new to me when passing through Stapleford Park the other day, brough, possibly, you may be cognizant of records of similar howeving. The provided a rook, when I was some distance from it, howeving, and the provided a rook of the provided provided in the provided provided in the provided provided in the provided provided provided in the provided provi