

fasciinucha. Vincent does not mention any chestnut coloration on the nape in the Mlanje specimen, one of the characteristics of *F. fasciinucha*, presumably because this is also present to some degree in almost all the specimens of *F. cuvieri*. I cannot see any difference in the coloration of the scapulars in the two species, as might be inferred to exist from Vincent's remarks.

The following are measurements in millimetres of the foregoing specimens:—

| <i>F. fasciinucha</i> | wing | tail |
|-----------------------|-----------------|-----------------|
| 2♂ | 205, 207 | 88, 90 |
| 2♀ | 228, 232 | 102, 107 |
| <i>F. cuvieri</i> | | |
| 17♂ | 209–245 (219.4) | 107–124 (117.0) |
| 7♀ | 220–253 (240.7) | 109–131 (121.9) |
| 9 unsexed | 211–236 (225.3) | 107–119 (114.2) |

Some of the specimens of *F. cuvieri* may well have been mis-sexed, though the averages show females as larger than males. They are from West Africa (Nigeria to Sierra Leone and the Gambia), and the Sudan and Abyssinia south to northern Tanganyika Territory, while there is also one from Angola. The specimens of *F. fasciinucha* have rather stouter bills than those of *F. cuvieri*.

For other records of *F. fasciinucha* from Rhodesia and Nyasaland, see Smithers ('Ibis' 1956 : 139), and Benson & Smithers ('Ostrich' 1958 : 57).

14 April 1959.

C. W. BENSON.

THE SNOW PETREL *PAGODROMA NIVEA* NESTING IN DRONNING MAUD LAND

An expedition sent by the Norsk Polarinstitut to Dronning Maud Land in Antarctica in 1956 reported that they had found birds breeding in the mountains about 300 km. from the sea.

On 1 November 1958 the Institut sent another expedition to the same area and among the members was the geologist T. S. Winsnes. He has a fair knowledge of birds and therefore I asked him to take notes of everything of interest which he might find in the mountains to the south and east of "Norway Station", the headquarters of the expedition which has now been there for more than two years.

Mr. Winsnes related that he saw the Snow Petrel almost everywhere in the area on the map, flying over the ice-fields between the mountain-ranges and the sea. On the mountains he found them breeding in the area 70° 30' to 71° 55' S., 9° to 11° 45' E. They were nesting on the northern slopes of the mountains from 1500 m. above sea level, where the mountain met the glacier, up to 2000 m. Here they were well protected because the wind came from the east and the southeast.

The nests were placed among stones, mainly in hollows where the breeding bird sat from 10 to 50 cm. from the opening. No nesting material was found except some sparse down from the bird itself. There was no sign of a scrape.

The egg was pushed forward under the bird and could easily be detected as a bulge under the feathers of the breast. Seemingly the egg did not rest on the ground, but was situated between the body and the long breast-feathers, resting on these. The incubating birds were very tame and did not leave the nest even when they were lifted up with the handle of an ice-axe to see if they had an egg or a chick. Around the nests

On 8 January 1959, at 71° 55' S., 9° E., 50 nests were found. On some of them the birds were sitting on single eggs, the rest of the nests being empty. No chicks were seen. In this place two pairs of skuas *Stercorarius antarcticus* were seen. The species was probably breeding here, though no nest was found. On the 10th, fourteen *Pagodroma* nests were examined. Of these there were three empty ones, one held a newly hatched chick and ten contained one egg. Between 30 and 50 nests were occupied and twice as many were not in use. Here an old egg and a mummified chick were obtained, as well

as samples of the waxlike substance, a sample of oil and a fresh egg. One *Oceanites oceanicus* was seen.

On the 11th Mr. Winsnes went 6 km. farther south and found ten occupied nests. In all the localities where *Pagodroma* was nesting he found *S. antarcticus*. When the sledge-parties rested, the Skuas came visiting them. On the 12th, 21 km. to the east, he found several nests of *Pagodroma* and on the 13th another nesting area. Here there was also a nest of *Stercorarius antarcticus* with a dead, newly hatched chick. Around the nest of the Skua there were great numbers of remains of young petrels, but none of adults. On the 20th, at 71° 30' S., 11° 45' E., there was a single nest of *Pagodroma* and one pair of skuas was seen.

The glaciologist Mr. Lunde has also returned to Norway after two years at "Norway Station" and he has given me some supplementary notes. On 12 February 1958, at 72° S., 4° 20' E., 20 nests of *Pagodroma*, nine eggs with dead embryos and a few living young were found. Great numbers of dead chicks were lying about. A few Skuas were seen in the vicinity of the nesting ground. On the 15th, about 15 km. farther southeast, ten nests were found. Here there was one egg, two living young and several dead ones.

On 30 November 1958, at 71° 57' S., 2° 50' E., great numbers of *Pagodroma* were seen, but only one nest, with one egg. On 1 December, and not very far from the above place, there were many Snow Petrels, but only one seemed to be nesting. In all the places where *Pagodroma* nested, the Skuas circled above the areas, but the nests of the Petrels were always placed in places where it was difficult for the Skuas to get at them.

12 March 1959.

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SUBSPECIFIC VARIATION IN BIRDS' SONGS AND CALL-NOTES

Nothing further seems to have appeared in the 'Ibis' on this subject since the observations of Benson ('Ibis' 1948: 48-71).

Many non-migratory species are common to Burma and Borneo, but are usually represented by different subspecies in each; below I have listed twenty such species with whose calls I am familiar in both countries. The calls are described in my books "The Birds of Burma" (Edinburgh 1953) and "The Birds of Borneo" (in press).

| English name | Specific name | Subspecific name Burma/Borneo | Remarks on usual call-notes |
|--------------------------|-------------------------------|----------------------------------|---|
| Mountain Imperial Pigeon | <i>Ducula badia</i> | <i>griseicapilla/badia</i> | Identical |
| Little Cuckoo-Dove | <i>Macropygia ruficeps</i> | <i>assimilis/nana</i> | Identical |
| Spotted-necked Dove | <i>Streptopelia chinensis</i> | <i>tigrina/tigrina</i> | Broadly similar, but differ in details |
| Large Hawk-Cuckoo | <i>Cuculus sparverioides</i> | <i>sparverioides/bocki</i> | Identical |
| Indian Cuckoo | <i>Cuculus micropterus</i> | <i>micropterus/concretus</i> | In India and Burma de- finite drop in pitch on second and fourth notes, in Borneo on fourth note only |
| Blyth's Cuckoo | <i>Cuculus saturatus</i> | <i>saturatus/subsp.</i> | In Burma 4 notes In Borneo 3 notes |
| Plaintive Cuckoo | <i>Cacomantis merulinus</i> | <i>passerinus/threnodes</i> | Broadly similar, but differ in details |
| Drongo-Cuckoo | <i>Surmiculus lugubris</i> | <i>dicruroides/barussarum</i> | Identical |
| Common Coucal | <i>Centropus sinensis</i> | <i>intermedius/bubutus</i> | In Borneo call down and up the scale is seldom heard, usual call being 4 notes on same pitch |