near the caudal margin; tergites three to five dull orange; six and seven black; eight and nine orange; sternites orange, segments six and seven and the basal half of eight black. Male hypopygium with the ninth tergite about as in *N. unicingulata*, but the lateral angles not so pronounced; eighth sternite notched medially, fringed on either side with conspicuous yellow hairs.

*Hab.* Natal.


Type in the collection of the British Museum (Natural History).

*Nephrotoma marshalli* agrees with *N. crocea* (Loew) in its bifid frontal tubercle, but differs in the short antennae, the differently shaped occipital mark, and the details of coloration. It agrees well with *N. unicingulata*, Alexander, in the coloration of the abdomen and the macrotrichiae of the wing, but differs in the structure of the frontal tubercle and the details of coloration and structure. This interesting crane-fly is respectfully dedicated to its collector, Dr. Guy A. K. Marshall.

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VIII.—*Some new Insular Squirrels of the Callosciurus caniceps-concolor Group from Peninsular Siam*. By OLDFIELD THOMAS and HERBERT C. ROBINSON.

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The following new forms of Squirrel come from various small islands off the west coast of Peninsular Siam, between 9° and 6° N. latitude, the majority being from islets near Salanga (=Junk-Ceylon), 8° N.

In describing them we are confronted with the difficulties every one has met in dealing with plastic island forms of various degrees of specialization, and the question as to what forms should have binomial and what trinomial is one that we have had great hesitation in deciding.

On the whole, in this group, we have come to the conclusion that the relationships of the different forms will be most easily understood if they are attached to what appear to be their parent continental species, and that of these it is advisable to recognize three, namely:—

*C. caniceps*, from north of about 13°, with yellow seasonally
changing back, no epaulets or groin-patches, and with a black-tipped tail.

*C. epomophorus*, from between 13° and 7°, greyish, with reddish epaulets and groin-patches, the tail black-tipped.

*C. concolor*, southwards of about 7°, grizzled grey, without epaulets or groin-patches, the tail-tip not prominently black.

Even between these intermediates may occur, but to combine the whole of the great number of local and nameable subspecies under one specific heading would in our opinion increase the already great difficulty of allocating the different forms to their respective groups. And we have even greater objection to the giving of binomial names to all.

The Mohea squirrels alone, as will be seen below, we have had to exclude from this arrangement.

With regard to the formation of names, it is obviously advisable to call local subspecies by terms which recall their localities; but unfortunately Malay names do not lend themselves to conversion into Latin terms without resulting in a most trying cacophony. We have therefore ventured to take certain liberties with the Malay words in order to reduce this cacophony to a minimum while still recalling the localities to which the new forms belong.

The series of specimens of these squirrels examined by us in London is a selection, numbering four to six from each island, from those originally collected by Robinson and Kloss and the native collectors of the Federated Malay Sates Museums, and amounting to many hundreds. Those now brought home, which form the basis of this joint paper, are all presented to the National Museum by the authorities of the Federated Malay States Museums. Of most forms here described it may be assumed that something like twenty have been examined in Kuala Lumpur by Robinson, in addition to those brought home and now in London.

We commence with forms from the islands nearest to Salanga (Junk-Ceylon), where typical *C. epomophorus* occurs.

*Callosciurus epomophorus panjius*, subsp. n.

Like *epomophorus*, but the ears, the underside of the wrists, and the hairs round the genital organs prominently whitish. On the ears the hairs are longer and are white nearly or quite to their bases, not merely grizzled black and white as in *epomophorus*. Upperside of fore feet also averaging whiter. Amount of rufous on neck, under surface, and base of tail about as in *epomophorus*.

For dimensions and designation of type, see tables on p. 123.
Callosciurus epomophorus panjoli *, subsp. n.

Like *epomophorus* in all respects, including the colour of ears and wrists, but the rufous of the neck-patches and sides more extended along the sides of the nape and shoulders, where they form a dull rufous suffusion. Midrib of tail averaging a little lighter below.

*Hab.* Pulau Panjang Anak, north of P. Panjang, 8° 8' N.

Although P. Panjang Anak is rather farther from Salanga than P. Panjang is, the squirrel there is the more like true *epomophorus*, but community of origin may in each case have been from the mainland to the north.

Callosciurus epomophorus nakanus, subsp. n.

Specialized in the same direction as *panjoli*, but much further, the whole lateral area, from the sides of the neck over the shoulders to the sides of the hip, rich ferruginous, about as in the brightest epaulet-patches of *epomophorus*. Crown and median dorsal area—which is narrowed between the ferruginous sides—strongly suffused with fulvous and grizzled superficially with buffy and black, very different from the greyish of *epomophorus*. Ferruginous of under surface also greatly extended, the chin and chest alone grizzled fulvous greyish. Base of tail below ferruginous for 2–3 inches; rest of tail more fulvous than usual, especially along its midrib subterminally.

*Hab.* Koh Naka, an islet between Salanga and the north part of Pulau Panjang, 8° 4' N.

Callosciurus epomophorus mapravis, subsp. n.

A further development of the specializations of *C. e. panjius*, the upper surface quite as in that form, the ears and wrists similarly white. In addition, the chin, throat, and middle area of the belly are white or whitish, instead of grey, strongly contrasting with the ferruginous; the genital region is still more prominently white, and the forearms and hands are also whitish. Under surface of tail with the subterminal part of the midrib more or less fulvous.

*Hab.* Koh Maprau, between Salanga and the south end of Pulau Panjang, 7° 58' N.

* Pulau Panjang Anak = child of P. Panjang.
Callosciurus epomophorus pipidonis, subsp. n.

Size smaller than in *epomophorus* and the colour paler throughout. Upper surface uniformly suffused with buffy, not so dark a grey as in *epomophorus*; under surface with the rufous duller anteriorly and more ochraceous on the groin-patches.

*Hab.* Koh Pipidon, 7° 45' N.

Callosciurus epomophorus tacopius, subsp. n.

General colour above more suffused with fulvous than in *epomophorus*, especially along the shoulder-area. Below, this is even more strongly marked, the whole under surface more or less strongly ochraceous—the chest as usual least so and the inguinal region most, but there is only rarely a distinctly grey chest. A paler ochraceous postauricular patch. Ochraceous of belly running down to the heels.

*Hab.* Koh Rah, Takopah, coast of Peninsular Siam, 8° 50' N.

Specimens from a locality intermediate between this and Salanga, Tang Prang, Takuatung, 8° 35', appear to be quite similar to true *epomophorus*, and again others from Delisle Island, further north, do not seem to have become definably specialized.

Callosciurus concolor telibius*, subsp. n.

Size smaller than in the previous forms. Coloration very similar to that of Perak *concolor*, the back grizzled ochraceous tawny or cinnamon instead of the grizzled grey of the *epomophorus* series. No trace of reddish epaulets or warmer areas over shoulders, nor of ferruginous side, groin, or tail patches.

Below dull greyish clay-colour, nearly as in *lancavensis*, not so clear a grey as in *concolor*, the usual darker median line present but not conspicuous. Hands and feet grizzled grey as in *concolor*, but the hairs of the terminal phalanx of both fingers and toes buffy yellow. Tail with black end as in all the *epomophorus* group, its upper surface grizzled, with buffy tips to the hairs; its midrib below (short of the black tip) prominently buffy for its terminal half.

*Hab.* Pulau Telibun, near the coast of Trang, Peninsular Siam, 7° 18' N.

In its possession of a black tail-tip this squirrel resembles

* The accent being on the middle syllable of Telibun, the above seems the best name to indicate that fact.
epomophorus, but its general characters are distinctly those of concolor.

Callosciurus moheius, sp. n.

Size considerably smaller than in the ordinary members of the concolor-caniceps group, but essential characters similar. General colour above deep buffy, without shoulder-patches. Small buffy postauricular patches present. Under surface greyish white, lighter on the chin and throat, darker on the belly, where there is a darker median line; small groin-patches present, deep buffy. Front of forearms greyish white, hands and inner sides of forearms quite white; inner side of hind limbs white, hairs of terminal phalanges, both fore and hind, yellowish. Tail with a black tip, its remainder grizzled with black and buffy, the bases of the hairs buffy; midrib below bright buffy, short of the terminal black tip.

Hab. Pulau Mohea—north—about 30 miles off the Trang coast, 7° 14' N.

The small squirrels of Mohea we have made an exception to the general principle of attaching the insular forms to the parent continental species. Mohea being out to sea opposite the dividing-line between the ranges of epomophorus and concolor, while its squirrel shows some unexpected resemblances to caniceps, and others to telibius (of which it might most naturally be supposed to be a derivative), we are at present unable to decide to which species it should be attached, and provisionally give it a binomial name.

But Mohea itself is divided into two by a channel some 70 yards in width, and, narrow as this is, it has resulted in the squirrels of the two islets being definably different from each other. Giving the primary name moheius to the form of the north islet, we propose to call that of the south—

Callosciurus moheius mohillius, subsp. n.

General essential characters, the small size, yellowish coloration, black tail-tip, and absence of ferruginous patches as in moheius, but the dorsal colour duller and browner, nearly approaching "clay-colour"; under surface also darker, against which the buffy groin-patches show more strongly. Postauricular patches scarcely perceptible. Feet and tail as in moheius, though the midrib of the latter is not so strongly ochraceous.

Hab. Pulau Mohea—south—7° 13' N.
Dimensions of types:—

<table>
<thead>
<tr>
<th>Head and body</th>
<th>Tail</th>
<th>Hind foot</th>
<th>Ear greatest length</th>
<th>Skull condylo-mesic length</th>
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<td>mm.</td>
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Types:—

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All presented to the National Museum by the authorities of the Federated Malay States Museums.


The new species of Chalcidoid parasites characterised in the following pages belong to the Elasmidae and Eulophidae and were submitted for identification by Ramakrishna Ayyar, acting Government Entomologist, Madras Agricultural College, Coimbatore, India. The collection, of which the species here treated formed a part, contained certain other Hymenopterous parasites, for which a report enumerating all species, except those belonging to the two families mentioned above, has already been published by Mr. A. B. Gahan*. Much of the labour connected with the identifying of the


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