MISCELLANEA.

INSECTS.

REPORT ON A SMALL COLLECTION OF FLEAS FROM INDIA AND CHINA.

[The following report on a small collection of fleas belonging to the Indian Museum has been received from the Hon. Charles Rothschild.]

Pulex irritans, Linnaeus.
1758. Systema Naturae, Ed. x, No. 614.
Tengyueh, Yunnan, W. China; ca. 5,400 ft.
Ukhrul, Manipur, Assam; 6,400 ft.
Darjiling, E. Himalayas; 7,000 ft.

Ceratophyllus alladinis, Rothschild.
1904. Novitates Zoologicae, vol. xi, p. 632, No. 23, pl. xii, fig. 53.
Garhwal, W. Himalayas; from Pteromys inornatus.
[Described from Sidapur, India; from "small jungle squirrel."]

Xenopsylla nesiotes, Rothschild and Jordan.
Calcutta; from rat (? Mus rattus).
[Described from Christmas Island; from Mus macleari.]

Xenopsylla pallidus, Taschenberg.
1880. Die Flöhe, p. 65, pl. i, fig. 9.
Karachi, Sind, W. India; from Erinaceus collaris.

Ceratophyllus fasciatus, Bosc.
Amritsar, Punjab; from various species of rats.
"", "", from Mus rattus.

Ctenocephalus canis, Curtis.
Amritsar, Punjab.
Records of the Indian Museum. [Vol. VI,

Below Phagu, Simla Hills, 7,000 ft., Western Himalayas; from sheep.

[Specimens of Mallophaga and of the tick Haemaphysalisflava, Neum., were obtained on the same sheep.—N. A.]

Ctenocephalus felis, Bouche.
1835. Nova Acta Physico-Medica Academiae Casarode Leo-
poldino Carolinae Naturae Curiosorum, vol. xvii, p. 505.

Berhampur, Murshidabad District, Bengal; from cat.
Calcutta Zoological Gardens; from domestic cat.
" "; from Hyaena striata.
Agra, United Provinces; from Erinaceus grayi.
Calcutta; from Canis aureus.

[Numerous specimens of lice and of a small variety of the
tick Haemaphysalis leachi (types of var. indica, Warburton) were
obtained from the same jackal.—N. A.]

Amritsar, Punjab: from Mus rattus.
" ; from various species of rats.

Xeuopsylla cheopis, Rothschild.

Amritsar, Punjab; from Scotophilus temmincki.
" ; from Mus rattus.
" ; from various species of rats.

N. CHARLES ROTHSCHILD.

SOME FLIES FOUND ASSOCIATED WITH CATTLE IN THE
NEIGHBOURHOOD OF CALCUTTA.—By permission of Col. Raymond,
C.V.D., the museum collector spent a few days about August 20th
of last year (1910) at the Veterinary College, Belgatchia, Calcutta,
collecting flies from the cattle there. These have now been iden-
tified, mostly by Mr. Brunetti, as shown in the following list:—

On cattle in the open during the day:—

Tabanus albimediis, Wlk. 1 specimen.
Tabanus hilaris, Wlk. 1 "
Oscinidae (not known to suck blood) 3 specimens.
Anthomyid (? Cacnosia) (not known to suck
blood) 2 "
Stomoxys calcitrans, L. 9 "
Stomoxys indica, Pic. (=limbata, Aust.) 7 "
Liperosia exigua, Meij. 29 "
Liperosia minuta, Bez. 16 "

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