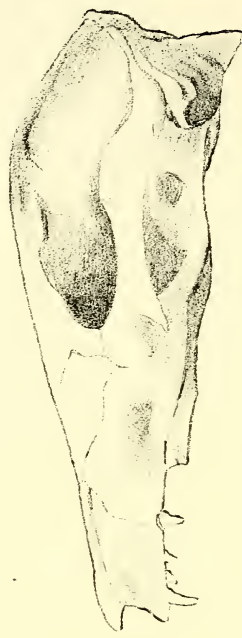
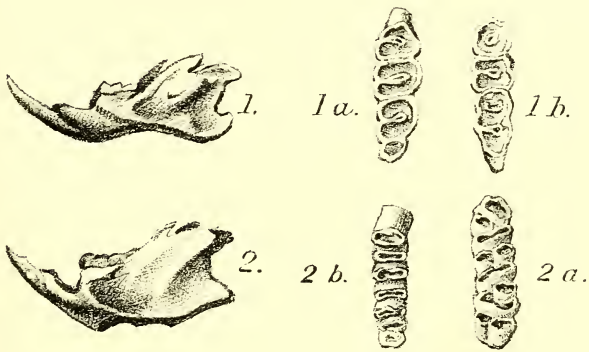


Supra Orbital Ridge.



Potorous Rufus Natural Size



1. *Mus Pachyurus*

1 a. *Superior molars*

1 b. *Inferior molars*

2. *Mus castaneus*

2 a. *Superior molars*

2 b. *Inferior molars*

DESCRIPTIONS OF NEW TASMANIAN ANIMALS,

BY EDMUND THOS. HIGGINS, M.R.C.S., ENG., AND WM. F. PETTERD, C.M.Z.S.

[Read 8th May, 1883.]

POTOROUS RUFUS—NOV. SPECIES ♂

Fur very long, soft, somewhat glossy, of a rufous brown colour, base of the hairs leaden grey, annulated in the middle with yellowish brown, and darker at the tips, interspersed with long, dark, almost black hairs. Ears broad, roundly pointed, clothed internally with short, rufous brown hair, and externally with long dark brown hair forming at the margin a thick fringe. Under surface of body of a yellowish rust colour, base of hairs of a pale reddish brown. Fore and hind feet of a yellowish brown colour, the outer side of feet darker. Tail thickly clothed with somewhat short, stiff brown hairs, much darker on the upper surface, especially towards the end; the apical portion for about an inch and a quarter almost white. Muffle naked, with a naked, black, pear shaped space extending over the muzzle for about half an inch. The specimen described is quite adult; a second specimen of a much younger animal presents the same characters.

Length from tip of nose to root of tail	...	12 inches
" of tail	... ..	$7\frac{1}{2}$ "
" from nose to ear	... ..	3 "
" from nose to eye	... ..	2 "
" of ear	... ..	$1\frac{5}{8}$ "
Width of ear	... ..	$1\frac{1}{8}$ "
Length of fore feet and claws	... ..	$1\frac{1}{4}$ "
" of hind feet and claws	... ..	$2\frac{7}{8}$ "
" of skull	... ..	$3\frac{1}{4}$ "
Width of skull	... ..	$1\frac{5}{8}$ "
" of interorbital space	... ..	$1\frac{3}{16}$ "
Length of palatine bones	... ..	$1\frac{7}{16}$ "
" of nasal bones	... ..	$1\frac{5}{16}$ "
Width of nasal bones at the base	... ..	$\frac{5}{16}$ "
" of nasal bones at the apex	... ..	$\frac{1}{16}$ "
Length of lower jaw	... ..	$1\frac{7}{8}$ "
" of upper true molars	... ..	$\frac{1}{2}$ "

The skull of adult *Potorous rufus* differs from that of *Potorous murinus*, in being more slender, in having the occipital crest nearly straight, the posterior orbital process less prominent, supra-orbital ridge extending from posterior orbital process to posterior junction of parietal bones (in *P. murinus* the supra-orbital ridge only extends as far as the anterior third of the parietal suture). In the skull narrow-

ing suddenly opposite the præmolar, from whence it curves regularly to the apex of the nasal bones. Space between the canines and præmolars comparatively less; incisors very short; nasal bones short.

Habitat.—Long's Plains, from T. B. Moore, Esq.

ANTECHINUS MOOREI—Nov. Sp. ♂

Fur, long and soft; on the head and upper surface of body of a uniform rich umber brown, thickly interspersed with longer and much darker hair; base of fur slatey grey; on the under surface of the body the hair is of a more ashy tint, especially on the throat and chest. Ears of moderate length, internally and externally clothed with short hairs of the same colour as those on the upper surface of the body. Tail covered with rather long, dark brown hair, which at the apex forms a small brush. Fore and hind feet clothed with dark brown hair; nails long, especially those of the fore feet.

Length from nose to root of tail	...	...	5 $\frac{7}{8}$	inches
" of tail	...	...	3 $\frac{1}{4}$	"
" from nose to ear	...	...	1 $\frac{1}{4}$	"
" " to eye	...	...	1 $\frac{3}{16}$	"
" of ear	...	...	$\frac{9}{16}$	"
Width of ear	...	...	$\frac{5}{8}$	"
Length of fore foot and nails	...	...	$\frac{1}{2}$	"
" of middle toe nail	...	...	$\frac{1}{4}$	"
" of hind foot and nails	...	...	$\frac{7}{8}$	"
" of middle toe nail	...	...	$\frac{1}{8}$	"
" of skull	...	...	1 $\frac{3}{8}$	"
Width of skull	...	...	$\frac{3}{4}$	"
Length of nasal bones	...	...	1 $\frac{1}{16}$	"
" of palatine bones	...	...	1 $\frac{1}{16}$	"
" of lower jaw	...	...	1 $\frac{1}{16}$	"
" of upper true molars	...	...	$\frac{5}{16}$	"
Circumference of chest	...	...	3 $\frac{1}{2}$	"

Habitat.—Long Plains, from T. B. Moore, Esq.

We have dedicated this species to T. B. Moore, Esq., Corinna, to whom we are deeply indebted for all the specimens from Long's Plains.

MUS PACHYURUS—Nov. Sp.

Fur moderately long, rather soft, of a dark dusky brown colour, paler on the under surface, especially at the hinder part, where it is of a greyish brown. Ear of moderate length, rounded, covered internally and externally with short brown hair. Fore feet thickly clothed with long brown hair; hind feet moderately so. Tail thick, sparsely covered with rather stiff, brown hair, through which the coarse scales are

freely seen. Whiskers moderately long, and dark. Upper and lower incisors yellow at the tips, and white at the base.

Length from tip of nose to root of tail	...	6 $\frac{3}{8}$	inches
" of tail	... ..	4 $\frac{1}{8}$	"
" from nose to ear	... ..	1 $\frac{1}{8}$	"
" from nose to eye	... ..	1 $\frac{3}{8}$	"
" of ear	... ..	1 $\frac{1}{8}$	"
Width of ear	... ..	1 $\frac{1}{8}$	"
Length of fore feet	... ..	1 $\frac{1}{8}$	"
" of hind feet	... ..	1 $\frac{1}{8}$	"
Circumference of chest	... ..	4 $\frac{1}{8}$	"
Length of skull	... ..	1 $\frac{1}{8}$	"
Width of skull	... ..	1 $\frac{1}{8}$	"
Length of nasal bones	... ..	1 $\frac{1}{8}$	"
" of palatine bones	... ..	1 $\frac{1}{8}$	"
" of lower jaw	... ..	1 $\frac{1}{8}$	"

Coronoid process, curved and acuminate. Condylloid process, small and narrow, nearly horizontal, with a well marked tubercle near its base. Posterior angle broad and rounded. Descending ramus deeply emarginate. Differs from the genus *Mus* in having its superior and inferior molars almost crossed by folds of enamel (each fold near its termination widens out and has in its centre a deep depression) and in having no cusps. Incisors long and slender.

Habitat.—Long's Plains, from T. B. Moore, Esq.

MUS CASTANEUS.—Nov. Sp. ♂

Form very robust. Fur very long, dense, and soft; on the head, back, and sides castaneous, interspersed with longer black hairs; on the under surface of the body the hair is of a yellowish ash colour; throat, chin and nose, leaden grey. Fur on the cheeks, excessively long and bushy, giving the appearance of very full whiskers. Ears broad and roundly pointed, covered internally sparsely, and externally thickly with short hairs of the same colour as those on the body. Tail on the upper surface clothed with brown hairs; on the under surface with hairs of a lighter tint, through which the scales can be seen. Fore and hind feet clothed with leaden grey hairs, which reach to the base of the nails. Whiskers moderately long, dark brown, almost black. Form of head rounded. Upper incisors orange colour; lower incisors yellow.

Length from tip of nose to root of tail	...	6 $\frac{3}{8}$	inches
" of tail	... ..	4 $\frac{1}{8}$	"
" from nose to ear	... ..	1 $\frac{1}{8}$	"
" " to eye	... ..	1 $\frac{3}{8}$	"
" of ear	... ..	1 $\frac{1}{8}$	"
Width of ear	... ..	1 $\frac{1}{8}$	"

Length of fore feet and nails...	...	...	$\frac{1}{3}$	inches.
" of hind feet and nails	...	...	$1\frac{1}{4}$	"
Circumference of chest	...	...	6	"
Length of skull...	...	...	$1\frac{5}{8}$	"
Width of skull ...	...	...	$1\frac{1}{6}$	"
Length of nasal bones...	...	...	$\frac{7}{8}$	"
" of palatine bones	...	...	$\frac{7}{8}$	"
" of lower jaw	...	...	1	"
Width of interorbital space	...	...	$\frac{3}{16}$	"

Lower jaw very deep; ramus broad. Coronoid process, short and acuminate; condyloid process, narrow and horizontal; descending ramus deeply emarginate; posterior angle broad and rounded. The anterior superior molar has two blunt cusps, a transverse band of enamel, and a posterior cusp. The central and posterior molars have each a transverse band of enamel and two blunt cusps. The inferior molars have transverse folds of enamel, without cusps. Incisors short and stout.

Habitat.—Long's Plains, from T. B. Moore, Esq.

NEW SPECIES OF TASMANIAN ANTECHINI AND MUS,

BY EDMUND T. HIGGINS, M.R.C.S., ENG., AND WILLIAM
F. PETERD, C.M.Z.S.

[*Read 8th May, 1883.*]

ANTECHINUS CONCINNUS.

Form slender. Fur moderately soft, brownish-grey on the upper surface, hairs bluish-grey at the base, annulated with pale brown in the middle, and tipped with darker brown; the whole surface interspersed with moderately long black hairs. The fur on the sides and under surface of a pale rusty yellow; the same tint extends round the back of the ear, forming also a narrow line above it. Upper surface of tail clothed with hair of the same colour as the back; under surface pale rusty yellow; the apical portion dusky. Ears very broad and moderately long, clothed internally and externally with yellowish brown hairs. Feet pale rusty yellow. The only specimen we have seen is in the collection of the Royal Society of Tasmania, and somewhat resembles the "minima" of Geoffroy, and may ultimately prove to be only a variety of that species: but the light marks above and behind the ear are so pronounced that we cannot imagine they would have escaped notice if present in Geoffroy's specimen, we have therefore provisionally named it "concinus."