

NOTES ON FLIES OF THE GENUS PELECORHYNCHUS
(TABANIDÆ).

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(Plate ix.)

This paper contains a complete catalogue of references to the Australian species of *Pelecorhynchus*, the description of a new species and a key to those described. Thoracic markings are illustrated from such type specimens as are available for study.

Over one hundred specimens have been examined, representing all the known species, four of which, *P. distinctus*, Taylor, *P. tillyardi*, Taylor, *P. claripennis*, Ricardo, and *P. deuqueti*, sp. nov., are only known from the female.

Pelecorhynchus personatus, Walker (= *P. maculipennis*. Macquart), seems to have been unrecognised in Australian collections and confused with *P. nigripennis*, Ricardo, from which it is distinguished by doubtful characters. Future investigation will probably show these to be variations of the same species.

Key to the species of *Pelecorhynchus*.

1. Abdomen with tomentum covering the whole surface, not shining.....2.
Abdomen bare, or almost bare, shining.....12.
2. Abdomen with transverse bands; longitudinal stripes are sometimes also present.....3.
Abdomen with at least one longitudinal stripe and without transverse bands.....10.
3. The lighter coloured bands are entire, without interruptions in the centre, and are sometimes obscure.....4.
The lighter coloured bands are interrupted, sometimes forming spots on each side of the dorsal stripe.....6.
4. Bands obscure, with tendencies to being interrupted on either side of centre, never centrally. Thorax with a pair of white stripes on anterior half. Eyes separate in ♂.....*igniculus*.
Bands conspicuous.....5.
5. Spots on wings pale brown, pubescence on anterior part of sides of thorax blackish, hairs on base of cheeks yellow.....*personatus*.
Spots on wings deep blackish brown and larger, pubescence on anterior part of sides of thorax and hairs on base of cheeks reddish.....*nigripennis*.
6. Eyes widely separated in ♂, abdomen with a pair of spots on each segment caused by one median and a pair of lateral stripes confining the interrupted lighter bands to more or less triangular areas.....*mirabilis* ♂.
Eyes contiguous in ♂, abdomen with conspicuous bands interrupted in the centre.....7.
7. A white stripe on the black stripe of the thorax, wings spotted, abdomen without red hairs.....*albolineatus*.
A white spot, sometimes absent, on the black stripe of the thorax.....8.
8. Abdomen with red hairs, wings spotted.....*eristaloides*.
Abdomen without red hairs, wings not spotted.....9.