

III. On the Australian Species of the Coleopterous Genus *Bolboceras*, Kirby.

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*BOLBOCERAS*, a genus of Lamellicorn beetles, was proposed by the Rev. W. Kirby, in his excellent memoir published thirty years ago, in the 12th volume of the 'Transactions of the Linnean Society,' containing descriptions of New Australian *Coleoptera* collected by Mr. Robert Brown. In his observations appended to the Latin characters given of the genus, as contrasted with those of *Geotrupes*, Mr. Kirby more especially endeavoured to point out the differences between these two genera, alluding, among other things, to the structure of the outer lobe of the maxillæ, but not mentioning (except in the Latin character) the horny inner lobe, with its bipartite structure, a character (as Mr. MacLeay has shown) of the highest importance, as distinctly indicating a variety in the operation of manducation, and consequently in the nature of the food of the insects. It is evident that Mr. Kirby's description of the maxilla of *Bolboceras* was drawn from the inaccurate figure of that part given in pl. 23. fig. 5d, which omits the upper portion of the lower lobe of the maxilla, which is thereby reduced to a single horny point. The maxilla of *Bolboceras* is, however, almost exactly similar to that of *Athyreus*; indicating, in conjunction with the general appearance of the insects, an analogous mode of life, although the difference in the place of insertion of the middle feet must evidently be regarded as a proof of some distinction in the habits of the two genera.

Mr. Kirby's observations, it will be further seen, are directed to the structure of the antennæ and trophi alone. There are consequently two important characters derived from the external structure of the other parts of the insects which separate the two genera, rendering *Bolboceras* also as far removed from the type of the family *Geotrupidæ* as *Athyreus*. These are, the entire structure of the eyes in *Bolboceras*, whilst each eye is divided into two parts by a distinct septum in *Geotrupes*, and the want of a patch of orange plush-like hairs on the thighs of the fore-legs, which exists in *Geotrupes*.

Mr. Kirby mentions as belonging to *Bolboceras*, " *Sc. mobilicornis*, Linn. (of which *Sc. testaceus*, Fabr., is only a variety), *quadridens*, Linn., *farcutus*, Fabr., *Lazarus*, Fabr., *Cyclops*, Oliv., &c.," together with the new species which he described under the name of *Bolboceras australasiae*, a name now proved to be inapplicable, not only because we possess many Australian species of the genus, but also because the insect so described is but the female of another species. Of the above-mentioned species, the first, *Sc. mobilicornis*, does not belong to the genus *Bolboceras*, from which it is distinguished by its bipartite eyes, although the structure of the maxillæ and the want of a patch of plush on the fore femora show its near approach to it. It will therefore be proper to apply the generic name of *Odontæus*, given to this genus by Koppe, instead of *Bolboceras*, as it stands at

present in English collections and books. The species, moreover, which it will be advisable to regard as the type of *Bolboceras*, will be *Sc. quadridens*, Linn., as that was the species dissected by Mr. Kirby.

In 1819 Mr. MacLeay published the description of his genus *Elephastomus* in the first part of his 'Horæ Entomologicæ,' founded upon the singular Australian *Scarabæus proboscideus*, first described by Schreibers in the 6th volume of the 'Linnean Transactions.' In this strange insect the crown of the head is extended forwards, so as to push the ordinary front part of the head, including the clypeus, mandibles and labrum, quite underneath it; just as if the human forehead were dilated over the entire face, and the nose and mouth pushed between the chin and the throat; with this difference, that in the insect the horizontal upper lip and mandibles become perpendicular, whilst the opposite would be the case in a human head so deformed. Referring again to the structure of the maxillæ, we find Mr. MacLeay's description of those of *Elephastomus*, "Maxillæ corneæ, arcuatæ, intùs dente acuto et ad apicem laciniâ obtusâ ciliis spinosulis armatæ," incorrect, omitting to notice the upper portion of the inner lobe of the maxillæ; whilst the figure given of it, pl. 2. fig. 10 E, is still more incorrect, omitting both the horny teeth of the lower lobe. In this, however, and all its essential characters, this insect approaches so closely to *Bolboceras Australasiæ*, that, long ago, I had attached to a figure of *El. proboscideus* the following note: "Is not *Bolboceras australasiæ* of Kirby the female? The box-like clava of their antennæ agrees;" and in Dr. Klug's excellent Monograph on the genera *Athyreus* and *Bolboceras*, published in the 'Transactions of the Berlin Academy' for 1843, we find *Scarabæus proboscideus* given as the first species of *Bolboceras*, with *Bolb. Australasiæ* as its female. In fact, with the exception of the extraordinary formation of the head, and the alteration consequent thereupon in the *position* of the trophi, we can find no variation in the *structure* of these organs of higher importance (with reference to the question of the retention of *Elephastomus* either as a genus or subgenus) than the greatly elongated maxillary palpi and the identical structure of the two mandibles, which are bifid at the tips.

The number of the species of the genus *Bolboceras* was considerably increased by the late Mr. Bainbridge, who published a short paper on some of the Australian species, from the Collection of the Rev. F. W. Hope, in the 'Transactions of the Entomological Society'; by Messrs. Guérin-Ménéville and Castelnau, in their several works; and especially by Dr. Klug, in the monograph above referred to.

As some confusion has been introduced into the nomenclature of the Australian species, and as I have to add several hitherto undescribed ones from New Holland to the list, including a closely allied new genus, I have thought it would be desirable in this paper to concentrate the whole of the New Holland *Bolbocerata*. It may be proper to add, that my quotations of the species described from the Collections of Messrs. Hope and Gory have been made from an examination of the type specimens in Mr. Hope's Collection, with which is now also incorporated that of M. Gory.

The circumstance of so many of the largest species of this genus being inhabitants of New Holland, where, in consequence of the absence of the larger mammalia, it is impossible for them to possess the same habit of burrowing into and under dung, as the *Geotrupes* of our moderate climates, is in itself a sufficient evidence that the *Bolbocerata*, like

the *Athyrei*, must be regarded as very aberrant species in the family of which our *Geotrupes* is the well-known type.

It has been thought advisable that a continuation of this paper, containing descriptions of many additional new species of *Bolboceras* from India and other foreign regions, should be published as a distinct memoir, which accordingly appears as the following article.

1. BOLBOCERAS (ELEPHASTOMUS) PROBOSCIDEUS, MacLeay, ut supr. citat.

♀ *Bolboceras Australasiae*, Kirby, loc. cit.

*Obs.* Caput et pronotum delineavi in TAB. III. fig. 1. ex individuo typico in Musæo Societatis Entomologicæ Londinensis.

*Obs.* 2. Figura maris in opere *Griffith's Animal Kingdom*, Ins. pl. 40. fig. 4, 4 a, 4 b.

*Obs.* 3. Varietatem maris (cum fœminâ *Bolb. Australasiae* omnino congruenti copulâ captam) Societati Entomologicæ Londinensi communicavit D. F. Cox. Caput maris cornu perpendiculari infero caret, angulo parvo prominente locum ejus occupante.

2. BOLBOCERAS (ELEPHASTOMUS) KIRBII; castaneo-fulvus, capitis cornu antico porrecto brevi truncato plano subtùs in spinam bifidam haud producto, vertice carinâ brevi transversâ, prothoracis lateribus valdè punctatis utrinque fossulatis; disco posticè canali abbreviato longitudinali instructo.—Long. corp. lin. 9. (TAB. III. fig. 2.)

*Bolb. (Elephantomus) Kirbii*, Hope MS.

*Hab.* in Terra Van Diemen. In Mus. Hope.

*El. proboscideo* minor, corpus castaneo-fulvum. Caput elongatum; vertice carinâ transversâ, quasi e tuberculis conjunctis formatâ, in medio instructo; parte ante carinam porrectâ subquadratâ granulosâ anticè parum latiori apice utrinque rectè truncato, cornu antico abbreviato plano, anticè porrecto, apice truncato arcuato. Caput subtùs parte anticâ tumidâ; clypeo deflexo, labro ad apicem ejus affixo. Mandibulæ angustæ, fere similes, apice acuto denteque parvo subapicali armatæ. Prothorax anticè laevis, nitidus; lateribus punctatis et utrinque fossulâ rotundatâ instructus; disco ante medium carinâ tenui transversâ (in medio interruptâ) canalique tenui punctato longitudinali pone medium ante marginem posticum oblitterato. Elytra striato-punctata; striis 14 in singulo elytro ad apicem elytrorum extensis. Tibiæ anticæ dentibus 6 nigris extùs armatae.

Fig. 2 a, caput et pronotum supra visa; 2 b, caput a latere; 2 c, labrum; 2 d, mandibulæ; 2 e, maxilla\*; 2 f, laciniæ labii cum palpis labialibus.

This appears to be the insect given by Mr. MacLeay as the female of *Elephantomus proboscideus*. It is however a male, and is given by Dr. Klug as a variety of the male of that species. The insect above described appears, however, to me to be sufficiently distinct as a species from the former †.

3. BOLBOCERAS REICHII; castaneus nitidus, capite cornu valdè elongato erecto, prothorace anticè valdè deflexo et subconcavo cornubus duobus crassis longitudine capitis porrectis lateralibus anticè armato: singulo versus basin dente obtuso erecto instructo; prothoracis lateribus rudè punctatis spatioque triangulari impresso et punctato ante scutellum; margine postico parùm elevato, elytris striis gracillimis punctatis, tibiis

\* The upper division of the inner lobe is multispinose; Dr. Klug has represented it as distinctly bifid in both sexes of *B. Australasiae*.

† The variety of the preceding species, wanting the perpendicular horn in front of the mouth, received since this sheet has been in type, seems to confirm Dr. Klug's opinion.

anticis extus 5-dentatis. ♂.—Long. corp. lin. 11; lat. prothoracis lin. 7. (TAB. III. fig. 3.)

*Hab.* Port Essington. In Mus. *Hope* et *Reiche*.

♂ *Bolb. Reichii*, Guérin, Voyage de la Favorite, p. 50, et Iconogr. du Règne Anim., Ins. p. 84.

*Bolb. Kirbii* ♂, Hope in Proc. Ent. Soc., Nov. 1841, p. 43.

♀ *Bolb. Kirbii*, Bainbridge in Trans. Ent. Soc. vol. iii. p. 79.

Fœmina differt capite minori; vertice in tuberculum conicum apice bifidum elevato; clypeo et vertice carinâ tenui angulatâ separatis; pronoto anticè spatio subhexagono plano polito, in puncta duo profunda anticè lateraliter desinente, disco pone medium valde punctato, versus marginem posticum elevato lœvi, spatio ovali mediano punctato et impresso relicto.—Long. corp. lin. 11.

*Hab.* ad Melville Island. Mus. *Hope* (etiam in Mus. *Gory*, nunc *Hope*, cum nomine *B. Reichii* inscriptus).

Fig. 3, mas magnit. naturalis; 3 a, caput suprà visum; 3 b, caput et prothorax a latere visa; 3 c, mandibulæ maris; 3 d, caput et prothorax fœminæ suprà visa; 3 e, eadem a latere visa.

*Obs.* The name given to the male of this species is here retained in preference to that of the female, in accordance with the usual custom in such cases.

#### 4. BOLBOCERAS SERRICOLLIS, Bainbridge, Trans. Ent. Soc. vol. iii. p. 80. ♂.

*Bolb. frontalis*, Klug, Mon. Ath. et Bolb. p. 21. tab. 2. fig. 7 & 7a. (♂ ♀)

♀ *Bolb. latus*, Bainbridge, op. cit. vol. iii. part 2. p. 80.

♀ *Bolb. frontalis*, Guérin, Ins. Voy. Favorite, Mag. Zool. 1838, p. 51; Klug, tab. supr. cit. fig. 7b, c.

*Hab.* ad Swan River. Mus. *Hope*.

#### 5. BOLBOCERAS HASTIFER, Bainbridge, op. cit. p. 81. ♂.

*Athyreus recticornis*, Guérin, Ins. Voy. Favorite, Mag. Zool. 1838, p. 49. pl. 232. fig. 1.

*Bolb. recticornis*, Klug, op. cit. p. 23. tab. 2. fig. 8.

Var. ♂ *Bolb. fissicornis*, Bainbridge, op. cit. p. 82.

Diffrerent cornubus capititis et pronoti parùm brevioribus, hoc parùm crassiori et apice fisso.

Fig. 4 a, caput et pronotum hujus varietatis maris suprà visa; 4 b, eadem a latere; 4 c, pars anterior capititis a latere; 4 d, mandibulæ.

*Hab.* ad Swan River.

#### 6. BOLBOCERAS 3-TUBERCULATUS, Bainbridge, op. cit. p. 82. ♂.

*Bolb. trituberculatus*, Klug, op. cit. p. 24. no. 7.

*Bolb. thoracicornis*, Gory, MS. in Mus.

*Bolb. Guerini*, Reiche, MS.

Fig. 5 a, caput et prothorax maris suprà visa; 5 b, mandibulæ maris; 5 c, caput et prothorax fœminæ suprà visa; 5 d, eadem a latere.

*Hab.* ad Swan River.

*Obs.* Mr. Bainbridge mistook the porrected closed mandibles of the male for the clypeus; his description, "clypeus quadridentatus medio emarginatus," being drawn from the mandibles. The female was sent me from Paris for examination by M. Reiche.

#### 7. BOLBOCERAS 7-TUBERCULATUS, Bainbridge, op. cit. p. 81. ♂.

*Bolb. excavatus*, Klug, op. cit. p. 23. tab. 2. fig. 9. ♂.

*Hab.* ad Swan River.

Insectum hic describam, in Mus. *Goryi* olim conservatum, cum nomine manuscripto "*Bolb. transversus*, *Gory*" inscriptum. Hoc insectum *Bolb. 7-tuberculati* fœmineum existimavi, corpus totum fulvo-

castaneum; capite et pronoto punctatis; clypei margine antico recto simplici, posticè tuberculis 4 e vertice separato, tuberculis duobus intermediis approximatis et paullò anterioribus, angulis lateralibus ante oculos acutis et parum reflexis. Pronotum impressione parvâ oblongâ in medio marginis anticâ; disco transversim bicarinato, carinis lateraliter convergentibus spatium transversum subconcavum inincidentibus; impressione parvâ ovali nigricanti utrinque versus angulos posticos. Elytra lævia, striis gracillimis punctatis. (TAB. III. fig. 6 a, caput et prothorax suprà visa; 6 b, eadem a latere.)

*Obs.* *Bolb.* 7-tuberculatum fœminam *Bolb.* hastiferi esse autumat D. Reiche.

8. BOLBOCERAS CORONATUS; "testaceus, capite punctato anticè medio 5- posticè utrinque 1-tuberculato, thorace rugoso, posticè transversim bicarinato dorso tuberculato, elytris punctato-striatis."—Long. lin. 9.

*Bolb. coronatus*, Klug, op. cit. p. 22. tab. 2. fig. 10, 10 a.

*Hab.* ad litt. occid. Novæ Hollandiæ. In Mus. *D. Hope* individuum pinguedine saturatum vidi.

9. BOLBOCERAS QUADRICORNIS; "capite bicorni, thorace dorso cornubus duobus divaricatis armato lateribus profundè excavato, rufus, elytris nigris."—Long. corp. lin.  $7\frac{1}{2}$ .

*Bolb. quadricornis*, Klug, op. cit. p. 22. tab. 2. fig. 6.

*Hab.* ad litt. occid. Novæ Hollandiæ; a me haud visus.

10. BOLBOCERAS TAURUS; castaneus nitidus, capitis vertice utrinque laminis duabus auriculatis erectis instructo cornubusque duobus elongatis curvatis nigris ante oculos armato, pronoto in medio versus marginem anticum parùm reflexo seu tuberculis duobus transversis subelevatis instructo; lateribus punctatis.—Long. corp. lin. 8. (TAB. III. fig. 7.)

*Bolb. Mimax*, Reiche, MS.

*Hab.* ad Swan River. In Mus. *Hope* (olim *Gory*) sub nomine manuscripto hic conservato; etiam in Mus. *Saunders*.

Corpus suprà castaneum nitidum, pro latitudine parùm magis elongatum. Caput sub lente granulosum, tuberculis duobus erectis angulatis inter oculos; verticis medio carinâ curvatâ parùm elevatâ utrinque in cornu porrectum curvatum nigrum (longitudine caput æquans) desinente. Clypeus declivis, granulosus. Mandibulæ parvæ, apice bidentatae, dextræ margine externo magis rotundato, et ante apicem inciso. Antennæ, partes oris, et caput infrà fulvæ. Pronotum lateribus marginatis ciliatis et serrulatis, utrinque intra angulum anticum profundè impressum, anticè in medio versus marginem anticum glabrum et parùm elevatum, parte elevatâ in duas partes lineâ longitudinali impressâ divisâ, lateribus obliquè elevatis, rudè punctatis, et impressione rotundatâ parùm profundâ intra angulos posticos instructis. Elytra valdè convexa striis 7 punctatis ordinariis inter suturam et tubercula humeralia; lateribus etiam punctato-striatis. Scutellum læve. Pedes crassi. Tibiæ anticæ extùs dentibus 5 obtusis armatae.

Fig. 7 a, insectum magnitudine parùm auctum; 7 b, caput et prothorax a latere visa; 7 c, mandibulæ.

11. BOLBOCERAS CAPREOLUS; castaneus nitidus, capite posticè nigricanti; vertice cornu lato furcato 6-dentato erecto armato, pronoto anticè retuso glabro, dorso carinâ transversâ pone medium instructo, mandibulis magnis extùs denticulatis. ♂.—Long. corp. lin. 9. (TAB. III. fig. 8.)

*Bolb. diadematus*, Reiche, MS.

*Hab.* in Novâ Hollandiâ, Swan River. In Mus. *Hope* (olim Mus. *Gory*), cum nomine suprà conservato designatum. Fœmina in Mus. *D. Reiche*.

Corpus suprà castaneum nitidum. Caput labro porrecto, clypei margine antico tenui elevato in medio tuberculo minuto instructo; frons glaberrima concava, suprà in medio verticis in cornu latum elevata, cuius apex anticè in dentes 4 acutos desinet, dentibusque duobus majoribus posticis versus pronotum inclinatis. Mandibulæ magnæ, porrectæ, concavæ, difformes; singula ante apicem externè in dentem porrectum subacutum elongata. Antennarum clava lutea. Prothorax elytris latior, anticè declivis nitidissimus et glaberrimus lineâque parùm impressâ longitudinali medianâ. carinâ transversâ utrinque abbreviatâ pone medium disci extensâ, pronoti parte posticâ lateribusque punctatis, his versus angulos posticos utrinque impressione ovali instructis. Elytra nitida tenuissimè punctato-striata, striis ante apicem desinentibus. Tibiae anticæ 6-dentatae, dentibus externis magnis acutis.

Fig. 8 a, mas magnitudine parùm auctus; 8 b, prothorax et caput a latere visa; 8 c, mandibulæ maris; 8 d, cornu verticale; 8 e, prothorax et caput fœminæ a latere visa.

12. BOLBOCERAS NEGLECTUS, Hope, Proc. Ent. Soc. Nov. 1, 1841, p. 43.

Fœmina sub hoc nomine in Mus. D. Hope hospitatur, Portûs Essingtonii, Novæ Hollandiæ, incola, quæ cum *B. Reichii* ♀ fere congruit, nisi magnitudine minori (lineas 9 tantùm longitudine habens) spatioque ovali depresso punctato ante scutellum carente; structurâ capitis, parteque politâ anticâ pronoti pone oculos in puncta duo magna profunda desinente, cum specie prædictâ convenit. An ejus varietas minor vel fœmina speciei alteræ?

Fig. 9 a, caput et prothorax suprà visa.

13. BOLBOCERAS BAINBRIDGII; piceus, capitis clypeo anticè tridentato: dente intermedio minori; vertice inermi, pronoto anticè valdè declivi dente erecto versus marginem anticum; parte declivi suprà carinâ curvatâ marginatâ.—Long. corp. lin. 7. (TAB. III. fig. 10.)

Hab. in Novâ Hollandiâ, ad Swan River. In Mus. D. Hope.

Præcedentibus minor. *B. hastifero* magis affinis, differt verò capite anticè tridentato. Caput suprà planum; vertice fere lævi et inermi; clypeo anticè declivi suprà in lineam bisinuatam desinente, dentes tres efformante quorum laterales majores et magis porrecti. Mandibulæ difformes, dextra ante apicem externè lobo subrotundato instructa. Prothorax punctatus, punctis in medio disci magis remotis; parte anticâ valdè declivi, medio versus marginem anticum dente brevi erecto armatâ, et posticè lineâ curvatâ vel carinâ arcuatâ e parte posticâ separatâ: utrinque versus angulos posticos impressione rotundatâ instructus. Elytra punctato-striata, striis satis distinctis, sed ante apicem evanescentibus. Tibiae anticæ extùs 6-dentatae, dentibus duobus anticis (in specimine nostro uno) obliquè truncatis.

Fig. 10 a, mas magnitudine parùm auctus; 10 b, caput et prothorax e latere visa; 10 c, mandibulæ.

Named in remembrance of the late Mr. W. Bainbridge, an assiduous collector of English insects, by whom descriptions of some Australian species of this genus were published in the 3rd volume of the Transactions of the Entomological Society of London.

14. BOLBOCERAS ROTUNDATUS; parvus rotundatus rufo-castaneus glaberrimus, clypeo tuberculo elevato alteroque in medio verticis inter oculos, pronoto convexo vix punctato punctis paucis et valdè distantibus lineâque longitudinali medianâ impressâ punctatâ.—Long. corp. lin. 4. (TAB. III. fig. 11.)

*Bolb. rotundatus*, Hope in Proc. Ent. Soc., Nov. 1, 1841, p. 43.

Hab. in Novâ Hollandiâ, ad Port Essington. In Mus. D. Hope.

Præcedentibus multò minor et ferè rotundatus. Corpus suprà glaberrimum convexum vix punctatum.

Caput suprà in medio tuberculo (vel potius tuberculis duobus parvis conjunctis) instructum, margine

antico in tuberculum elevato, lineis 4 elevatis ex hoc tuberculo prodeuntibus, scil. duabus ad angulos clypei anticos, duabusque ad basin antennarum; angulis 2 ante oculos rotundatis; parte capitidis anteriori punctatâ. Mandibulae difformes; dextra ut in multis aliis speciebus, lobo externo ante apicem instructa. Prothorax linea parum impressâ longitudinali medianâ punctatâ, lateribus etiam versus angulos posticos impressionibus duabus rotundatis instructis. Elytra punctato-striata; striis ad apicem elytrorum extensis. Pedes antici longiores; tibiæ anticæ extus 5-dentatae.

Fig. 11 *a*, caput et prothorax suprà visa; 11 *b*, mandibulae.

15. BOLBOCERAS RUBESCENS; fulvo-rufus glaberrimus, clypeo integro e vertice linea elevata separato, vertice tuberculis duobus minimis, prothorace convexo nitidissimo vix punctato; canali abbreviato in medio marginis antici punctisque nonnullis in lineam longitudinalem posticam dispositis fossulâque rotundatâ utrinque impressâ instructo.—Long. corp. ferè lin. 3. (TAB. III. fig. 12.)

*Bolb. rubescens*, Hope, in Proc. Ent. Soc., Nov. 1, 1841, p. 43.

Hab. ad Port Essington Novæ Hollandiæ. In Mus. *Hope*.

*B. rotundato* valdè affinis; differt magnitudine minori, colore pallidiore, lineaque impressâ pronoti ferè obliterata.

Fig. 12 *a*, caput et prothorax suprà visa.

16. BOLBOCERAS CORNICULATUS; rotundatus rufus glaberrimus, verticis margine antico ferè recto in medio subtuberculato; disco convexo utrinque inter oculos cornu erecto triangulari armato, pronoto sparsim punctato cornubus duobus contiguis versus marginem anticum tuberculisque duobus conicis lateralibus armato medioque fossulâ parvâ longitudinali, elytris striato-punctatis.—Long. corp. lin. 3. (TAB. III. fig. 13.)

*Bolb. corniculatus*, Reiche, MSS.

Hab. ad Swan River Novæ Hollandiæ. In Mus. *D. Reichii*, Parisiis.

Parvus, rotundatus, rufus; elytris magis fulvis. Caput castaneo-rufum, suprà valdè concavum glaberrimum; verticis margine antico subrecto, tubculo minuto medio instructo, ejusdem angulis anticis subacutis, utrinque etiam prope marginem oculorum internum spinâ conicâ erectâ armato. Antennæ fulvæ. Pronotum valdè convexum, glaberrimum, tenuissimè marginatum, punctis paucis notatum; cornubus duobus contiguis apice obtusis prope marginem anticum, spatio transverso pone cornua impresso utrinque in tuberculum conicum desinente, dimidio postico, fossulâ tenui mediâ longitudinali punctatâ impresso, utrinque etiam versus marginem lateralem impressione parvâ rotundatâ punctatâ notato. Elytra glabra, valdè convexa; singulo striis decem punctorum, tribus externis cum tribus suturæ magis approximatis ad apicem conjunctis, intermediis abbreviatis. Pedes castaneo-rufi; tibiæ anticæ extus 6-dentatae, dentibus obtusis, calcari anticarum elongato gracili, apice obtuso. An *B. rotundati* mas?

Fig. 13 *a*, caput et prothorax suprà visa; 13 *b*, eadem a latere visa.

#### STENASPIDIUS, Westw. Subgenus novum.

Corpus magis elongatum quam in *Bolboceratis veris*; scutello elongato (nec triangulari); elytris striis tantum quinque inter humeros et suturam; mesosterno porrecto. Differt etiam colore antennarum.

17. BOLBOCERAS (STENASPIDIUS) NIGRICORNIS; ovalis niger nitidus sparsim punctatus, capite tubculo conico inter oculos, pronoto canali punctato medio aliisque duobus

abbreviatis pone oculos, elytris striato-punctatis.—Long. corp. lin.  $3\frac{1}{2}$ . (TAB. III. fig. 14.)

*Hab.* in Novâ Hollandiâ. In *Muss. D. Hope* (olim *Gory*, cum nomine suprà indicato inscripto), *Reiche et Westw.*

Corpus suprà nigrum, nitidum. Caput mediocre. Clypeus e vertice lineâ elevatâ vel carinatâ in medio parùm angulatâ divisus, lineisque duabus brevioribus ad angulos posticos labri extensis. Antennæ nigræ; articulis parvis intermediis piceis. Mandibulæ ut in plurimis, dextra ante apicem externè lobo rotundato corneo instructa. Vertex tuberculo elevato inter oculos instructus; angulisque ante oculos rotundatis. Prothorax convexus, sparsim punctatus, lineâ longitudinali medianâ punctatâ impressâ alterisque duabus e margine antico pone oculos obliquè extensis at abbreviatis spatioque utrinque angusto parùm elevato, laevi, cum margine postico ferè parallelo, in fossulas 2 obliquas parùm profundas versus angulos posticos prothoracis desinente. Elytra striato-punctata, striis 5 inter humeros et suturam, aliisque 4 lateralibus. Tibiae anticæ extùs 5-dentatae. Scutellum elongato-triangulare. Mesosternum parùm angulato-porrectum.

Fig. 14 *a*, insectum magnitudine auctum; 14 *b*, caput, prothorax et mesosternum, a latere visa; 14 *c*, clypeus cum labro et mandibulis.

### EXPLANATION OF THE FIGURES.

#### TAB. III.

- Fig. 1. *Bolboceras (Elephastomus) proboscideus*, MacL.
- Fig. 2. *Bolboceras (Elephastomus) Kirbii*, Hope.
- Fig. 3. *Bolboceras Reichii*, Guér.
- Fig. 4. *Bolboceras hastifer*, Bainbr. var.
- Fig. 5. *Bolboceras 3-tuberculatus*, Bainbr.
- Fig. 6. *Bolboceras 7-tuberculatus*, Bainbr. ♀?
- Fig. 7. *Bolboceras Taurus*, Gory.
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- Fig. 13. *Bolboceras corniculatus*, Reiche.
- Fig. 14. *Bolboceras (Stenaspidius) nigricornis*, Westw.



Westwood, J. O. 1852. "On the Australian Species of the Coleopterous Genus Bolboceras, Kirby." *Transactions of the Linnean Society of London* 21, 11-18.  
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