

DIAGNOSES PRAECURSORIAE
COPEPODORUM NOVORUM E PATAGONIA.

A Dre EUGENIO DADAY.

1. *Bœckella dubia* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis lateralibus productis, similibus, retrorsum spectantibus, acuminatis, margine interno parum lobatis; abdomen triarticulatum, segmento genitali in latere sinistro parum tuberculato; antennæ primiparis reflexæ longitudinem cephalothoracis non attingentes; articulus ultimus rami exterioris pedum quinti paris extus aculeo uno subapicali, in apice setis aculeiformibus duabus, intus lævis.

Longit. corporis 2.5—3 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis lateralibus parum productis, similibus, retrorsum spectantibus, apice rotundatis; articulus secundus-basalis pedis dextri quinti paris angulo interno parum producto, arcuato; ramus interior pedis dextri quinti paris triarticulatus longitudinem articulorum duorum rami exterioris superans, articulo ultimo extus aculeis duobus lateralibus plumosis duobusque apicalibus nudis; ramus exterior pedis dextri articulo secundo valido, parum curvato, ungue apicali valido, falciformi; articulus secundus basalis pedis sinistri quinti paris intus lamina hyalina latiuscula, apice rotundata, partem basalem rami interioris parum superante, articulus primus rami exterioris pedis sinistri intus tuberculatus hamuloque parvo, articulus secundus longitudinem dimidiam articuli primi superans extus setis duabus plumosis mediocribus, ungue apicali validiusculo, subfalciformi; ramus interior pedis sinistri quinti paris digitiformis, longitudinem dimidiam articuli primi rami exterioris fere attingens, biarticulatus, articulo ultimo multo brevior, in apice seta longa validiuscula.

Longit. corporis 2.6 mm.

2. *Bœckella Entzii* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis lateralibus productis, subsimilibus, retrorsum parumque extrorsum spectanti-

bus, acuminatis, margine interno parum lobatis; abdomen triarticulatum, segmento genitali in latere sinistro valde tuberculato; antennæ primiparis reflexæ longitudine segmentarum quinque cephalothoracis anteriorum; articulus ultimus rami exterioris pedum quinti paris extus aculeo unico, in apice setis aculeiformibus duabus dissimilibus, intus aculeis parvis 2—4.

Longit. corporis 2·6—3 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis laterali-
bus parum productis, similibus, retrorsum spectantibus, apice rotundatis; articulus secundus basalis pedis dextri quinti paris angulo interno simplici vel parum producto; ramus interior pedis dextri triarticulatus, articulos duos rami exterioris plus-minusve superans, articulo ultimo aculeo laterali et subapicali plumoso, aculeis duobus simplicibus apicalibus; ramus exterior pedis dextri articulo secundo valido parum curvato, ungue apicali valido, falciformi; articulus secundus basalis pedis sinistri in angulo interno lamina hyalina, partem fere dimidiam basalem rami interioris attingente, apice rotundata; ramus exterior pedis sinistri articulo secundo subcrasso in parte basali subtuberculato, articulo secundo extus seta unica plumosa, ungue apicali validiusculo, falciformi; ramus interior biarticulatus, digitiformis, longitudinem dimidiam articuli primi rami exterioris attingens vel parum superans, articulis æqualibus, articulo ultimo apice sæpissime aculeo minuto, aut bifisso.

Longit. corporis 2·5—2·9 mm.

3. *Bœckella longicauda* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis laterali-
bus productis, dimidiam longitudinem segmenti genitali abdominis non attingentibus, subsimilibus, retrorsum parumque extrorsum spectantibus, acuminatis, in apice aculeo valido, margine interno basi parum arcuatis; abdomen triarticulatum, cum laminis furcalibus longitudinem dimidiam cephalothoracis valde superans, segmento genitali utrinque simplici, longitudinem segmentorum sequentium laminarumque furcalium superante; antennæ primiparis breviusculæ, reflexæ, longitudine segmentorum quinque cephalothoracis anteriorum; articulus ultimus rami exterioris pedum quintiparis extus aculeo uno laterali, in apice setis aculeiformibus duabus dissimilibus, latere interno lævi.

Longit. corporis cum setis apicalibus 4 mm., sine setis apicalibus 3·6—3·8 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis laterali-
bus parum productis, similibus, retrorsum spectantibus, apice rotundatis; articulus secundus basalis pedis dextri quintiparis in angulo interno la-

mina digitiformi, apice rotundata, parva; ramus interior triarticulatus, longitudinem rami exterioris valde superans, articulo ultimo aculeo laterali valido plumoso, aculeisque tribus apicalibus, duobus validis, plumosis, uno minore lævi; ramus exterior pedis dextri articulo secundo valido, valde curvato, ungue apicali in parte dimidia basali subrecto, in parte apicali falciformi: articulus secundus basalis pedis sinistri quintiparis in angulo interno lamina sat longa, digitiformi, apice rotundata, longitudine rami interioris; articulus secundus rami exterioris extus seta laterali validiuscula ungueque apicali subfalciformi; ramus interior pedis sinistri digitiformis, longitudinem dimidiam articuli primi rami exterioris vix attingens, biarticulatus, articulo secundo perbrevis, apice rotundato, aculeo minuto.

Longit. corporis cum setis apicalibus 3 mm.; sine setis apicalibus 2.6—2.8 mm.

4. *Bœckella setosa* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis lateralibus productis, similibus, retrorsum parumque extrorsum spectantibus, acuminatis, rare setosis, margine interno parum lobatis, longitudinem segmenti genitali abdominalis fere attingentibus; abdomen triarticulatum, sat breve, parte tertia longitudinis cephalothoracis, segmento genitali simplici haud tuberculato; articulus ultimus rami exterioris pedum quintiparis extus aculeo unico subapicali in apice setis aculeiformibus duabus, intus lævis; antennæ primiparis reflexæ longitudine segmentorum quinque cephalothoracis anteriorum.

Longit. corporis 1.8—2.2 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis lateralibus parum productis, similibus, retrorsum spectantibus, apice rotundatis, ramus interior pedis dextri quintiparis longitudine articulorum duorum rami exterioris, triarticulatus, articulo ultimo extus aculeo setiformi laterali in apice triaculeato, aculeo medio ceteris maiori, setiformi plumoso; ramus exterior articulo secundo valido, curvato, ungue apicali valido falciformi; articulus secundus basalis pedis sinistri quintiparis intus carinis duabus digitiformibus altera brevior, altera dimidiam longitudinem rami interioris attingente; articulus secundus rami exterioris pedis sinistri extus seta valida laterali una plumosa; unguis apicalis subfalciformis sat gracilis ad basin intus seta parva; ramus interior pedis sinistri digitiformis, biarticulatus, longitudine dimidia articuli primi rami exterioris, articulo secundo brevior, apice rotundato nudo.

Longit. corporis 1.6—2 mm.

5. *Bœckella Silvestrii* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis lateralibus valde productis, longitudinem segmentorum duorum anteriorum abdominis superantibus, subsimilibus, retrorsum spectantibus, acuminatis, margine interno subrecto in medio hamato; abdomen triarticulatum perbreve, parte tertia longitudinis cephalothoracis, segmento genitali longo, longitudine segmentorum sequentium laminarumque furcalium, in lateribus inflato haud tuberculato, segmento secundo perbrevis; antennæ primiparis reflexæ apicem segmenti ultimi cephalothoracis non attingentes; articulus ultimus rami exterioris pedum quintiparis extus aculeo unico laterali in apice aculeo setaque valida aculeiformi; intus aculeis minimis 1—2 lateralibus vel subapicalibus.

Longit. corporis 2—2.5 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis lateralibus parum productis, similibus, retrorsum spectantibus, apice rotundatis, articulus secundus basalis pedis dextri quintiparis lamina marginali superiore articulum primum rami exterioris valde superante; ramus interior pedis dextri quintiparis triarticulatus, parum curvatus, articulo secundo inflato, ceteris crassiore, articulo ultimo intus extusque aculeo laterali parvo, in apice aculeis duobus validiusculis subæqualibus; ramus exterior fere longitudinis rami interioris, articulo secundo valido sæpissime curvato, ungue apicali basi inflato in parte apicali maxima diverso modo contorto; articulus secundus basalis pedis sinistri quintiparis intus et in angulo interno lamina hyalina, acutangulata, longitudinem dimidiam rami interioris attingente; ramus exterior pedis sinistri articulo secundo perlongo, longitudine articuli primi, extus seta unica laterali plumosa, ungue apicali subfalciformi, validiusculo.

Longit. corporis 1.8—2.2 mm.

6. *Bœckella gracilipes* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis lateralibus parum productis, longitudinem dimidiam segmenti genitalis nec parum attingentibus, retrorsum spectantibus, postice plus-minusve oblique truncatis, angulo externo recto, interno parum arcuato; abdomen triarticulatum, longitudinem dimidiam cephalothoracis fere attingens, segmento genitali fere longitudine segmentorum sequentium laminarumque furcalium, in lateribus parum inflato sed haud tuberculato; setis apicalibus perlongis longitudine segmenti genitalis; antennæ primiparis reflexæ apicem laminarum caudalium attingentes; ramus exterior pedum quinti

paris articulo ultimo extus aculeo laterali unico, in apice aculeis duobus brevibus crassis, intus lævi.

Longit. corporis 0·8—1·1 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis laterali-bus parum productis similibus, retrorsum spectantibus apice rotundatis; articulus secundus basalis pedis dextri quintiparis intus lævis; ramus interior pedis dextri quintiparis biarticulatus, digitiformis longitudine articuli primi rami exterioris, articulo secundo multo brevior apice rotun-dato; ramus exterior pedis dextri articulis elongatis sat gracilibus, articulo secundo recto, ungue apicali subfalciformi; articulus secundus basalis pedis sinistri quintiparis angulo interno parum tuberculato, margine superiore undulato; ramus interior pedis sinistri uniarticulatus, digitifor-mis, perbrevis longitudine $\frac{1}{7}$ articuli primi rami exterioris, apice rotun-dato lævi; ramus exterior pedis sinistri articulo primo perlongo, longitu-dine rami exterioris pedis dextri, parum arcuato, latere interno setoso, articulo secundo validiusculo fere longitudine dimidia articuli primi, extus seta laterali plumosa sat longa, ungue apicali medioeri subfalciformi.

Longit. corporis 0·8 mm.

7. *Bœckella pygmæa* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis late-ralibus parum productis longitudinem dimidiam segmenti genitalis attingentibus, similibus, apice rotundatis; abdomen triarticulatum, segmento genitali in lateribus haud tuberculato, longitudine segmentorum duorum sequentium, setis apicalibus perlongis; antennæ primiparis reflexæ api-cem laminarum furcalium superantes; ramus exterior pedum quintiparis articulo ultimo parum curvato, extus aculeo subapicali parvo, in apice aculeo parvo setaque arcuata aculeiformi, intus lævi.

Longit. corporis 0·9—0·95 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis laterali-bus parum productis, brevibus, similibus, apice rotundatis; articulus secundus basalis pedis dextri quintiparis margine interno parum tubercu-lato lævi: ramus interior pedis dextri quintiparis biarticulatus, digitifor-mis, perbrevis, longitudinem articuli primi rami exterioris non attingens, articulis fere æquilongis, ultimo in apice rotundato, lævi; ramus exterior perlongus, articulis sat gracilibus, secundo subrecto, ungue apicali longi-tudine rami exterioris valido subfalciformi; articulus basalis secundus pedis sinistri quintiparis in angulo interno lamina hyalina, ramum in-teriolem superante, bifissa, apice rotundata; ramus interior pedis sinistri quintiparis uniarticulatus perbrevis, digitiformis, longitudine $\frac{1}{5}$ articuli

primi rami exterioris, apice rotundato inermi; ramus exterior pedis sinistri quintiparis articulo primo longitudine articuli secundi rami exterioris, pedis dextri brevior, intus in medio valde tuberculato, ciliato, crasso, articulo secundo inflato extus seta parva laterali, ungue apicali gracili fere recto.

Longit. corporis 0·85—0·88 mm.

8. *Limnocalanus Sarsii* n. sp.

Femina. Segmentum ultimum cephalothoracis angulis posticis lateralibus productis, similibus, retrorsum parumque extrorsum vergentibus, acuminatis, aculeo valido terminatis, in margine interiore parum lobatis; abdomen triarticulatum, segmento genitali in lateribus tuberculato, tuberculo dextro validiore; laminis furcalibus supra setosis; antennæ primiparis reflexæ longitudine cephalothoracis; ramus exterior pedum quintiparis articulo ultimo perbrevis extus aculeo parvo subapicali alteroque apicali, in apice intus seta validiuscula plumosa, intus aculeis tribus lateralibus parvis.

Longit. corporis cum setis apicalibus 3—6·2 mm.; sine setis apicalibus 4·8—5·2 mm.

Mas. Segmentum ultimum cephalothoracis angulis posticis lateralibus parum productis, similibus, retrorsum spectantibus, apice rotundatis; articulus secundus basalis pedum quintiparis utroque latere margine superiore undulato; ramus interior pedis dextri quintiparis triarticulatus longitudinem dimidiam articuli secundi rami exterioris attingens, articulo ultimo intus extusque setis lateralibus duabus, interioribus minoribus lævibus, exterioribus longioribus plumosis, in apice setis duabus subæqualibus aculeisque parvis coronato; ramus exterior articulo secundo parum curvato, ungue apicali valido falciformi; ramus interior pedis sinistri quintiparis triarticulatus, articulis duobus primis intus seta apicali, articulo tertio intus extusque et in apice setis duabus; ramus exterior pedis sinistri quintiparis biarticulatus, articulo primo intus setoso, articulo secundo in latere interiore basi tuberculato ciliatoque biaculeato, aculeo proximali valido, distali parvo subapicali, in apice aculeo elongato.

Longit. corp. cum setis apicalibus 3·2—6·4 mm., sine setis apicalibus 2—5·4 mm.

(Separatim editum est die 20. Junii 1901.)

ONYCHOCAMPTUS HETEROPUS n.gen., n.sp.

Sitzungsb. Akad. Wien, Abtheil 1, vol. 112, 1903, p. 157.

Generic Characters. Body 10-segmented, tapered posteriorly; 1st exopod of ♀ 2-segmented, 2nd, 3rd, and 4th exopods 3-segmented; endopod of 1st legs 3-segmented, of 2nd, 3rd, and 4th legs 2-segd. In the ♂ the 1st exopod is 3-segd; the endopods of the 1st, 2nd, and 4th legs are 2-segmented, of the 3rd legs 3-segd. At the tip of the first endopod is a stout sickle-shaped claw. 5th leg made up of two separate rami attached to the segt itself, the outer ramus spatulate and tipped with 3 setae, the outer shorter than the two inner and non-plumose, the inner ramus conical and tipped with a single long seta. Female 5th leg of the ordinary harpacticid form; inner expansion of basal segt with 3 setae and nearly as long as terminal segt, the latter narrowed at its base and widened at its tip, where it carries 3 setae, the outer one much shorter than the two inner ones, which are equal, all 3 non-plumose. The inner seta of the basal expansion is the shortest and non-plumose, the two outer ones are equal and plumose.

The metasome is 5-segd, and the urosome 5-segd in ♀. The first antennae in the ♀ are 5-segd, the 3rd segt shorter than the 1st and 2nd combined; in the ♂ they are 6-segd, the 4th segt enlarged into a grasping organ. Caudal rami as long as anal segt, widely separated, their inner margins ciliated, each with 3 terminal setae, the middle one many times larger than the other two and as long as the urosome plus the caudal rami; there are two small setae on the outer margin near the tip of the ramus.

The first four thoracic segts and the first three abdominal segts have sharp posterior corners, the 5th segt has its corners well rounded.