

Bernhard J. van Vondel  
Natuurmuseum Rotterdam

# Catalogue of the Hymenoptera in the Natuurmuseum Rotterdam; part 2: Aculeata of the Neotropical and Nearctic regions

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The Hymenoptera aculeata from the Neotropical and Nearctic regions, present in the collections of the Natuurmuseum Rotterdam, are catalogued. This is the second part in a series of catalogues dealing with all the Hymenoptera in the collection.

De in het Natuurmuseum Rotterdam aanwezige bijen, wespen en mieren (Hymenoptera of vliesvleugeligen) worden gecatalogiseerd. In dit tweede deel worden de angeldragende soorten (Aculeata) uit het Neotropische (Zuid- en Midden-Amerika) en het Nearctische (Noord-Amerika) faunagebied behandeld.

correspondence: Bernhard J. van Vondel, Natuurmuseum Rotterdam, P.O. Box 23452, NL-3001 KL Rotterdam, the Netherlands.

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## INTRODUCTION

In the collection of the Natuurmuseum Rotterdam (NMR)(Natural History Museum Rotterdam) an interesting collection of Hymenoptera is present (about 75.000 specimens). To have better access to the collection and to make the contents better known to specialists the species will be catalogued. Most of the specimens are identified, but there is also a considerable amount of unidentified specimens. The catalogue will be published in separate issues, which are scheduled as follows:

*part 1*: Hymenoptera. Introduction & Aculeata of Ethiopian, Oriental and Australian regions. [already published in DEINSEA 2 (Vondel 1995)]

*part 2*: Hymenoptera aculeata. Neotropical and Nearctic region. [treated here]

*part 3*: Hymenoptera aculeata. Palaearctic region. [in preparation]

*part 4*: Hymenoptera symphyta & parasitica. Palaearctic region. [in preparation]

*part 5*: Hymenoptera symphyta & parasitica. Non-palaearctic regions. [in preparation]

## METHODS & MATERIAL

The catalogue will list the names as given in the collection. The family-names are according to Goulet & Houbert (1993) and species names are given in alphabetical order. The countries the material originates from are given according to their present names. As the author is not an expert in Hymenoptera, specialists are invited to send their remarks on possible synonymy etcetera. Further information on the collection is given by Vondel (1995). Type material in this part of the collection is restricted to the VESPIDAE of the Neotropical region. It concerns three paratypes of *Montezumia ignobiloides* A. WILLINK (Fig.1).

## CATALOGUE

## NEOTROPICAL REGION

## TIPHIIDAE

*Thynnus* spec.

PARAGUAY

## POMPILIDAE

*Anoplius amethystinus* Tasch.

BRAZIL, COSTA RICA, PERU, TRINIDAD

*Apoica pallida* Oliv.

PERU, SURINAME

*Apoica pallida* var. *pallens* Fabr.

BRAZIL, COSTA RICA, PARAGUAY, PERU

*Batazonus* spec.

BRAZIL, PARAGUAY, PERU

*Brachygastra lecheguana* (Letr.)

PARAGUAY

*Calicurgus idoneus* Kohl

BRAZIL

*Calicurgus maculatellus* Taschb.

BRAZIL

*Cerophales taschenbergi* D.T.

BRAZIL

*Dipogon* spec.

BRAZIL

*Mischocyttarus cassunanga* (author?)

BRAZIL

*Mischocyttarus drewsenii* Sauss.

BRAZIL

*Mischocyttarus gracilis* Zik.

CHILI

*Mischocyttarus labiatus* Fabr.

BRAZIL

*Mischocyttarus metathoracicus* Sauss.

COSTA RICA

*Mischocyttarus pedunculatus* Zik.

CHILI

*Mischocyttarus punctatus* Ducke

BRAZIL

*Monobia angulosa* Sauss.

PARAGUAY, PERU

*Monobia apicalipennis* Sauss.

PARAGUAY

*Notocyphus saevissimus* Smith

PARAGUAY

*Notocyphus tyrannicus* Smith

PARAGUAY

*Odynerus brachygaster* Sauss.

BRAZIL

*Pachodynerus praecox* Sauss.

PARAGUAY

*Pepsis acroleuca* R.Luc.

PARAGUAY

*Pepsis amyntas* Mocs.

BRAZIL, PARAGUAY

*Pepsis anisitsii* Brèthes

PARAGUAY

*Pepsis auriguttata* Burm.

PARAGUAY

*Pepsis cerastes* R.Luc.

BRAZIL

*Pepsis clotho* Mocs.

BRAZIL, PARAGUAY

*Pepsis completa* F.Sm.

BRAZIL, PARAGUAY

*Pepsis crassicornis* Mocs.

PERU

*Pepsis cupripennis* Tasch.

PARAGUAY

*Pepsis decorata* Perty

BRAZIL

*Pepsis defecta* Taschb.

PARAGUAY

*Pepsis deuteroleuca* P.Sm.

PARAGUAY

*Pepsis discolor* Taschb.

PARAGUAY

*Pepsis elevata* F.

PARAGUAY

*Pepsis excelsa* R.Luc.

BRAZIL, PARAGUAY

*Pepsis exigua* R.Luc.

PARAGUAY

*Pepsis fulgidipennis* Mocs.

PERU

*Pepsis heros* F.

PERU

*Pepsis hyperion* Mocs.

BRAZIL

*Pepsis ianthina* Er.

BRAZIL, PERU

<i>Pepsis ichesi</i> Brèthes	PARAGUAY
<i>Pepsis inclyta</i> Pel.	PERU
<i>Pepsis karschi</i> R.Luc.	PARAGUAY
<i>Pepsis limbata</i> Guèrin	BRAZIL, PARAGUAY
<i>Pepsis lurida</i> R.Luc.	PARAGUAY
<i>Pepsis margarete</i> R.Luc.	PERU
<i>Pepsis nestor</i> Mocs.	PARAGUAY
<i>Pepsis nigricornis</i> Mocs.	PERU
<i>Pepsis ocanthocera</i> Dahlb.	PERU
<i>Pepsis optimus</i> F.Sm.	PERU
<i>Pepsis pertyi</i> R.Luc.	BRAZIL
<i>Pepsis peruanus</i> R.Luc.	PERU
<i>Pepsis pretiosa</i> Dahlb.	BRAZIL
<i>Pepsis pruinosus</i> Mocs.	PARAGUAY
<i>Pepsis reaumuri</i> Dahlb.	PARAGUAY
<i>Pepsis rubra</i> Drury	PANAMA
<i>Pepsis ruficornis</i> F.	TRINIDAD
<i>Pepsis sapphirus</i> Pal.	BRAZIL
<i>Pepsis seladonica</i> Dahlb.	BRAZIL
<i>Pepsis sickmanni</i> Mocs.	PARAGUAY
<i>Pepsis smaragdina</i> Dahlb.	BRAZIL
<i>Pepsis sumptuosa</i> F.Sm.	ECUADOR
<i>Pepsis taschenbergi</i> R.Luc.	PARAGUAY
<i>Pepsis terminata</i> Dahlb.	BRAZIL
<i>Pepsis varipennis</i> Pel.	PARAGUAY
<i>Pepsis spec.</i>	BRAZIL, PARAGUAY, PERU, TRINIDAD
<i>Pompilus auripennis</i> F.	PARAGUAY, PERU
<i>Pompilus diabolicus</i> Holmb.	PARAGUAY
<i>Pompilus flavopictus</i> Smith	COSTA RICA
<i>Pompilus inauratus</i> Smith	PARAGUAY
<i>Pompilus marginicollis</i> Tasch.	PARAGUAY
<i>Pompilus ruficoxalis</i> Fox.	PERU
<i>Pompilus uruguayensis</i> Kohl	ARGENTINA, PARAGUAY
<i>Pompilus virulentus</i> Smith[?]	PERU
<i>Priocnemioides bituberculatus</i> Guèrin	PARAGUAY, PERU, TRINIDAD
<i>Priocnemioides carinatus</i> Lep.	BRAZIL, PARAGUAY, VENEZUELA
<i>Priocnemioides dumosus</i> Spin.	BRAZIL, PARAGUAY
<i>Priocnemioides flammipennis</i> Radoszk	TRINIDAD
<i>Priocnemioides limbatus</i> Brèthes	PARAGUAY
<i>Priocnemioides mammillatus</i> Fox.	PERU
<i>Priocnemioides peruvianus</i> Rohwer	PERU
<i>Priocnemioides tinctipennis</i> Fox.	PARAGUAY
<i>Priocnemis abnormis</i> Taschb.	PANAMA, PARAGUAY
<i>Priocnemis decolorata</i> Lep.	PERU
<i>Priocnemis spec.</i>	BRAZIL
<i>Psammochares spec.</i>	BRAZIL, PARAGUAY, PERU
<i>Pseudagenia nobilis</i> Fabr.	BRAZIL
<i>Pseudagenia spec.</i>	TRINIDAD

**SCOLIIDAE**

<i>Epomidiopteron julli</i> Romand	BRAZIL, PARAGUAY, PERU
<i>Myrine flavopicta</i> F. Smith	PARAGUAY, SURINAME
<i>Scolia atrata</i> Fabr.	CUBA
<i>Scolia campestris</i> Burm.	PARAGUAY
<i>Scolia columba</i> Sauss.	BRAZIL
<i>Scolia conspicua</i> Smith	PARAGUAY
<i>Scolia costalis</i> Lep.	BRAZIL, PARAGUAY, PERU
<i>Scolia dorsata</i> Fabr.	ARGENTINA
<i>Scolia drewsenii</i> Sauss.	PARAGUAY
<i>Scolia ephippium</i> Say	MEXICO
<i>Scolia hyalina</i> Lep.	BRAZIL, COLOMBIA, PARAGUAY, PERU
<i>Scolia limosa</i> Burm.	COSTA RICA, MEXICO
<i>Scolia lucida</i> Lep.	BRAZIL
<i>Scolia mutanda</i> Sauss. & Sichel	ARGENTINA
<i>Scolia peregrina</i> Lep.	VENEZUELA
<i>Scolia radula</i> Fabr.	SURINAME
<i>Scolia regina</i> Sauss.	ARGENTINA, BRAZIL, PERU
<i>Scolia rufiventris</i> Fabr.	PERU
<i>Scolia servillei</i> Guérin	ARGENTINA
<i>Scolia talpa</i> Sauss.	ARGENTINA
<i>Scolia terrestris</i> Sauss.	ARGENTINA
<i>Scolia variegata</i> Fabr.	BRAZIL, PERU
<i>Scolia vitripennis</i> Smith	ARGENTINA
<i>Scolia wesmaeli</i> Lep.	BRAZIL, PERU

**VESPIDAE**

<i>Bembex inops</i> Handl.	ARGENTINA
<i>Bembex</i> spec.	PARAGUAY
<i>Bicyrtes angulata</i> Smith	PARAGUAY
<i>Bicyrtes discisa</i> Taschb.	PARAGUAY, PERU
<i>Bicyrtes micans</i> Handl.	PARAGUAY
<i>Bicyrtes variegata</i> Oliv.	PARAGUAY
<i>Discoelius campanulatus</i> Fox.	PARAGUAY
<i>Discoelius hilarianus</i> Sauss.	PARAGUAY
<i>Discoelius productus</i> Fox.	PARAGUAY
<i>Discoelius proximus</i> Fox.	PARAGUAY
<i>Discoelius punctatus</i> Fox.	PARAGUAY, PERU
<i>Editha adonis</i> Handl.	PARAGUAY
<i>Eumenes callimorphus</i> Sauss.	PARAGUAY
<i>Eumenes canaliculatus</i> Oliv.	PARAGUAY
<i>Eumenes centralis</i> Cam.	PERU
<i>Eumenes compacta</i> Fox.	PARAGUAY
<i>Eumenes tegularis</i> Fox.	PARAGUAY
<i>Eumenes tuberculata</i> Fox.	PARAGUAY
<i>Eumenes uruguayensis</i> Sauss.	PARAGUAY
<i>Megacanthopus flavicans</i> Fabr.	PERU
<i>Megacanthopus phthisicus</i> F.	BRAZIL
<i>Megacanthopus surinamensis</i> Sauss.	BRAZIL
<i>Megacanthopus</i> spec.	BRAZIL

<i>Metapolybia pediculata</i> Sauss.	BRAZIL, COSTA RICA, PARAGUAY, PERU
<i>Montezumia analis</i> Sauss.	PERU
<i>Montezumia cortesiana</i> Sauss.	BRAZIL
<i>Montezumia feruginea</i> Sauss.	PARAGUAY
<i>Montezumia ignobiloides</i> A. Willink	PARAGUAY [3 paratypes] Fig. 1
<i>Montezumia infundibuliformis</i> Febr.	PERU
<i>Montezumia morosa</i> Sauss.	PERU
<i>Montezumia petiolata</i> Sauss.	BRAZIL
<i>Montezumia rufidentata</i> Sauss.	BRAZIL, PARAGUAY, PERU
<i>Montezumia spara</i> Fox.	PARAGUAY
<i>Montezumia spinolae</i> Sauss.	PARAGUAY
<i>Nectarinia scutellata</i> Spin.	PERU
<i>Pachymenes ater</i> Sauss.	BRAZIL
<i>Pachymenes sericeus</i> Smith	PARAGUAY
<i>Polistes acteon</i> Haled.	BRAZIL
<i>Polistes analis</i> Fabr.	PERU
<i>Polistes bicolor</i> Lep.	PERU
<i>Polistes canadensis</i> L.	BRAZIL, PERU
<i>Polistes canadensis</i> var. <i>unicolor</i> Lep.	PARAGUAY
<i>Polistes canadensis</i> var. <i>amazonicus</i> Schulz	BRAZIL
<i>Polistes carniflex</i> Fabr.	BRAZIL, PARAGUAY
<i>Polistes cavipyta</i> Sauss.	PARAGUAY
<i>Polistes cavipyta</i> var. <i>thoracica</i> Buys.	ARGENTINA
<i>Polistes cinerascens</i> Sauss.	BRAZIL
<i>Polistes goeldii</i> Ducke	PERU
<i>Polistes melanosoma</i> Sauss.	BRAZIL, PERU
<i>Polistes pacificus</i> Fabr.	BRAZIL
<i>Polistes ruficornis</i> Sauss.	PARAGUAY
<i>Polistes simillimus</i> Zik.	BRAZIL, PARAGUAY
<i>Polistes subsericeus</i> Sauss.	BRAZIL, PARAGUAY
<i>Polistes thoracicus</i> Fox	PARAGUAY
<i>Polistes versicolor</i> Oliv.	BRAZIL, CHILI, PARAGUAY, PERU
<i>Polybia angulata</i> Fabr.	BRAZIL, COSTA RICA
<i>Polybia atra</i> Oliv.	BRAZIL
<i>Polybia chrysothorax</i> Sauss.	BRAZIL
<i>Polybia dimidiata</i> Oliv.	BRAZIL
<i>Polybia dubicata</i> Ducke	PERU
<i>Polybia fasciata</i> Lep.	BRAZIL
<i>Polybia fastidiosuscula</i> Sauss.	BRAZIL
<i>Polybia infernalis</i> Sauss.	BRAZIL, COSTA RICA, PERU
<i>Polybia jurinei</i> Sauss.	BRAZIL, PERU
<i>Polybia liliacea</i> Fabr.	PERU
<i>Polybia lugubris</i> Sauss.	BRAZIL
<i>Polybia micans</i> Ducke	PERU
<i>Polybia minarum</i> Ducke	BRAZIL
<i>Polybia nigra</i> Sauss.	BRAZIL, PARAGUAY
<i>Polybia occidentalis</i> Oliv.	BRAZIL, SURINAME
<i>Polybia pallidipes</i> Oliv.	BRAZIL
<i>Polybia paraensis</i> Spin.	PERU
<i>Polybia rejecta</i> Sauss.	BRAZIL

<i>Polybia scutellaris</i> White	BRAZIL, PARAGUAY
<i>Polybia sericea</i> Oliv.	ARGENTINA, BRAZIL, PARAGUAY
<i>Polybia simillima</i> Smith	PERU
<i>Polybia sycophanta</i> Grib.	BRAZIL, PERU
<i>Polybia tinctipennis</i> Fox.	BRAZIL
<i>Polybia volutina</i> Ducke	PERU
<i>Protopolybia bella</i> R.Ik.[?]	PERU
<i>Protopolybia holoxantha</i> Ducke	PERU
<i>Protopolybia sedula</i> Sauss.	BRAZIL
<i>Rubrica denticornis</i> Handl.	BRAZIL
<i>Rubrica gravida</i> Handl.	BRAZIL, PARAGUAY
<i>Rubrica surinamensis</i> Degeer	ARGENTINA, PARAGUAY
<i>Stelopolybia testacea</i> F.	PERU
<i>Stelopolybia meridionalis</i> R.Ik.[?]	COSTA RICA, PERU
<i>Stelopolybia sulfureofasciata</i> Ducke [?]	PERU
<i>Stelopolybia vicina</i> Sauss.	BRAZIL
<i>Stelopolybia vulgaris</i> Ducke	PERU
<i>Stictia andrei</i> Handl.	PARAGUAY
<i>Stictia carbonaria</i> Burm.	ARGENTINA
<i>Stictia decorata</i> Burm.	ARGENTINA
<i>Stictia lineata</i> fabr.	ARGENTINA
<i>Stictia media</i> Handl.	SURINAME
<i>Stictia proserpina</i> Handl.	PERU
<i>Stictia signata</i> L.	BRAZIL, PARAGUAY, SURINAME
<i>Stictia trifasciata</i> Parker	PARAGUAY
<i>Stizus bolivari</i> Handl.	BRAZIL
<i>Synoeca irina</i> var. <i>splendens</i> Buys.	PERU
<i>Synoeca surinama</i> L.	PERU, SURINAME
<i>Synoeca surinama</i> var. <i>cyanea</i> Fabr.	BRAZIL
<i>Tatua morio</i> Fabr.	BRAZIL
<i>Trichostictia guttata</i> Taschb.	ARGENTINA
<i>Trimeria americana</i> Sauss.	PARAGUAY
<i>Trimeria buyssoni</i> Brèthes	PARAGUAY
<i>Zethus caeruleopennis</i> var. <i>brasiliensis</i> Sauss.	PARAGUAY
<i>Zethus fraternus</i> Sauss.	PARAGUAY
<i>Zyzyx chilensis</i> Eschs.	ARGENTINA

**SPHECIDAE**

<i>Ammophila abbreviata</i> Fabr.	PARAGUAY, PERU
<i>Ammophila arechavaletai</i> Brèthes	PARAGUAY
<i>Ammophila auromaculata</i> (Perez)	ARGENTINA
<i>Ammophila bimaculigera</i> Strand	PARAGUAY
<i>Ammophila binodis</i> (Fabr.)	PARAGUAY
<i>Ammophila brasiliana</i> Brèthes	BRAZIL, PERU
<i>Ammophila eximia</i> Klug	PARAGUAY
<i>Ammophila fragilis</i> Taschb.	PARAGUAY, PERU
<i>Ammophila guavis</i> Burm.	PARAGUAY
<i>Ammophila melanaria</i> Dahlb.	PERU
<i>Ammophila opulenta</i> Guèrin	PARAGUAY, PERU
<i>Ammophila platensis</i> Brèthes	PARAGUAY

<i>Ammophila willinki</i> Menke	BRAZIL
<i>Chyphononyx egensis</i> D.T.	BRAZIL, PARAGUAY, PERU
<i>Chyphononyx pictipennis</i> Mocs.	BRAZIL, PARAGUAY
<i>Podium agile</i> Kohl.	PARAGUAY
<i>Podium biguttatum</i> Taschb.	PERU
<i>Podium brevicolle</i> Kohl.	BRAZIL
<i>Podium latro</i> Kohl.	BRAZIL
<i>Podium mocsaryi</i> Kohl.	PERU
<i>Podium nigripes</i> Westw.	PERU
<i>Prionyx bifoveolatus</i> (Taschb.)	BRAZIL, PERU
<i>Prionyx fervens</i> (L.)	PARAGUAY
<i>Prionyx thomae</i> (Fabr.)	BRAZIL, PARAGUAY, PERU
<i>Sceliphron asiaticum</i> (L.)	PARAGUAY
<i>Sceliphron figulus</i> Dahlb.	BRAZIL, PARAGUAY
<i>Sceliphron fistularium</i> Dahlb.	BRAZIL, PARAGUAY, PERU
<i>Sphex argentinus</i> Tasch.	ARGENTINA
<i>Sphex artecus</i> Sauss.	PARAGUAY
<i>Sphex brasiliensis</i> Sauss.	BRAZIL
<i>Sphex caliginosus</i> Erichsoon	BRAZIL, PERU
<i>Sphex costipennis</i> Spin.	BRAZIL
<i>Sphex dorsalis</i> Lep.	PARAGUAY, PERU, SURINAME
<i>Sphex fuliginosus</i> Dahlb.	PARAGUAY, PERU
<i>Sphex hemiprasinus</i> var. <i>nobelitatum</i> Taschb.	ARGENTINA
<i>Sphex ichneumonaeus</i> L.	BRAZIL, PARAGUAY, PERU, SURINAME
<i>Sphex melanosoma</i> Dahlb.	SURINAME
<i>Sphex mirandus</i> Kohl.	COLOMBIA
<i>Sphex neotropicus</i> Kohl.	PARAGUAY, PERU
<i>Sphex nigrocoerulescens</i> Taschb.	PERU
<i>Sphex nitidiventris</i> Spin.	PARAGUAY, PERU
<i>Sphex opacus</i> Dahlb.	PARAGUAY
<i>Sphex spiniger</i> Kohl.	PERU
<i>Sphex thomae</i> Fabr.	PARAGUAY, PERU
<i>Stangeella cyaniventris</i> (Guérin)	ARGENTINA

**PEMPHREDONIDAE**

<i>Pison</i> spec.	BRAZIL, PERU
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**NYSSONIDAE**

<i>Gorytes melanoxanthum</i> Schrottky	PARAGUAY
<i>Gorytes robustus</i> Handl.	PERU
<i>Notogonia decorata</i> Smith	BRAZIL
<i>Notogonia</i> spec.	PARAGUAY
<i>Tachytes</i> spec.	BRAZIL

**PHILANTIDAE**

<i>Philanthus apicalis</i> Smith	BRAZIL
<i>Philanthus romandi</i> Sauss.	BRAZIL

**COLLETIDAE**

<i>Caupolicana superba</i> Smith	MEXICO
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<i>Megacilissa eximia</i> Smith	PERU
<i>Megacilissa mexicana</i> Cress.	PARAGUAY
<i>Megacilissa tomentosa</i> Friese	PERU

**ANTHOPHORIDAE**

<i>Anthophora spec.</i>	PARAGUAY
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**APIDAE**

<i>Acanthopus splendidus</i> F.	PERU
<i>Aglae caerulea</i> Lep.	PERU, SURINAME
<i>Apis spec.</i>	BRAZIL
<i>Bombus atratus</i> Frankl.	BRAZIL
<i>Bombus brasiliensis</i> Lep.	PARAGUAY
<i>Bombus dahlbomi</i> Guérin	CHILI
<i>Bombus velutinus</i> (Illiger)	ARGENTINA, BRAZIL, PARAGUAY
<i>Centris agilis</i> Smith	PERU
<i>Centris bicolor</i> Lep.	PARAGUAY
<i>Centris breviceps</i> Friese	PERU
<i>Centris burgdorfi</i> Friese	PARAGUAY
<i>Centris burgdorfi</i> var. <i>paraguaiensis</i> Friese	PARAGUAY
<i>Centris burgdorfi</i> var. <i>ocellata</i> Schrottki	PARAGUAY
<i>Centris concinna</i> Smith	PERU
<i>Centris difformis</i> Smith	PERU
<i>Centris festiva</i> Smith	PERU
<i>Centris flavilabris</i> Mocs.	PERU
<i>Centris fusciventris</i> Mocs.	PERU
<i>Centris inermis</i> Friese	PERU
<i>Centris labrosa</i> Friese	PERU
<i>Centris lanipes</i> F.	BRAZIL, PARAGUAY, PERU
<i>Centris lineolata</i> Lep.	PERU
<i>Centris mocsaryi</i> Friese	PARAGUAY
<i>Centris nitida</i> Smith	PERU
<i>Centris nobilis</i> Westw.	PERU
<i>Centris pectoralis</i> Burm.	PARAGUAY, SURINAME
<i>Centris personata</i> Smith	PERU, SURINAME
<i>Centris plumipes</i> Smith	PERU
<i>Centris quadrimaculata</i> Packard	PERU
<i>Centris rubella</i> Smith	PERU
<i>Centris rufipes</i> Friese	PERU
<i>Centris rufohirta</i> Friese	PERU
<i>Centris sponsa</i> Smith	PARAGUAY
<i>Centris tarsata</i> Smith	PERU
<i>Centris tricolor</i> Friese	PARAGUAY
<i>Centris varia</i> F.	PERU
<i>Centris versicolor</i> F.	PARAGUAY
<i>Centris versicolor decolorata</i> Lep.	PERU
<i>Epicharis albifacies</i> Friese	BRAZIL
<i>Epicharis conica</i> Smith	PERU
<i>Epicharis maculata</i> Smith	PERU
<i>Epicharis quadrinotata</i> Mocs.	PERU



<i>Epicharis rustica</i> Oliv.	PERU
<i>Epicharis rustica</i> var. <i>flava</i> Friese	PARAGUAY
<i>Euglossa cordata</i> L.	BRAZIL, PARAGUAY, PERU
<i>Euglossa dimidiata</i> F.	PERU, SURINAME
<i>Euglossa fasciata</i> Lep.	PERU
<i>Euglossa limbata</i> Mocs.	PERU
<i>Euglossa mariana</i> Mocs.	PERU
<i>Euglossa mocsaryi</i> Friese	PERU
<i>Euglossa piliventris</i> Guèrin	PERU
<i>Euglossa polizona</i> Mocs.	PERU
<i>Euglossa pulchra</i> Smith	PERU
<i>Euglossa variabilis</i> var. <i>mixta</i> Friese	PERU
<i>Euglossa violascens</i> Mocs.	PERU
<i>Exaerete frontalis</i> Guèrin	PERU, SURINAME
<i>Exaerete</i> spec.	PERU, SURINAME
<i>Hopliophora funereus</i> Smith	SURINAME
<i>Hopliophora superba</i> Ducke	PERU
<i>Hypotrigona fraissei</i> (Friese)	PERU
<i>Hypotrigona longitarsis</i> (Ducke)	PERU
<i>Hypotrigona muelleri</i> (Friese)	PERU
<i>Megalopta culciventrìs</i> Friese	PERU
<i>Megalopta nitidicollis</i> Friese	PERU
<i>Melipona eburnea</i> Friese	PERU
<i>Melipona flavipennis</i> Smith	PERU
<i>Melipona quadrifasciatus anthidioides</i> (Lep.)	BRAZIL
<i>Melipona seminiger</i> (author?)	PERU
<i>Melipona rufiventris</i> Lep.	BRAZIL, PERU
<i>Mesonychium</i> spec.	BRAZIL
<i>Nannotrigona bipunctata</i> (Lep.)	PERU
<i>Nannotrigona postica</i> (Latr.)	PERU
<i>Nannotrigona testaceicornis</i> Lep.	PERU
<i>Oxaea austera</i> Gerst	PARAGUAY
<i>Oxaea ferruginea</i> Friese	PARAGUAY
<i>Oxaea festiva</i> Smith	PARAGUAY
<i>Oxaea flavescens</i> Klug	PARAGUAY
<i>Paratrigona prosopiformis</i> (Gribodo)	PERU
<i>Partamona testacea</i> (Klug)	PERU
<i>Rhathymus bicolor</i> Lep.	BRAZIL, PERU
<i>Rhathymus unicolor</i> Smith	PARAGUAY
<i>Scaura latitarsis</i> (Friese)	PERU
<i>Schwarziana quadripunctata</i> (Lep.)	PARAGUAY
<i>Thalestria smaragdina</i> Smith	BRAZIL, PARAGUAY
<i>Trigona cilipes</i> (F.)	PERU
<i>Trigona clavipes</i> (F.)	BRAZIL, PERU
<i>Trigona dallatoreana</i> (F.)	PERU
<i>Trigona hyalinata amazonensis</i> Ducke	PERU
<i>Trigona ruficrus</i> (Latr.)	BRAZIL, PARAGUAY
<i>Trigona trinidadensis</i> (Provancher)	PERU
<i>Xylocopa aeneipennis</i> (Degeer)	SURINAME
<i>Xylocopa andica</i> Enderlein	PERU

<i>Xylocopa augusti</i> Lep.	PARAGUAY
<i>Xylocopa aurulenta</i> Fabr.	PERU
<i>Xylocopa dimidiata</i> Latr.	PERU
<i>Xylocopa fimbriata</i> Fabr.	SURINAME
<i>Xylocopa frontalis</i> Oliv.	PARAGUAY
<i>Xylocopa frontalis nitens</i> Lep.	PERU
<i>Xylocopa lucida</i> Smith	PERU
<i>Xylocopa nigrocincta</i> Smith	BRAZIL, PARAGUAY
<i>Xylocopa nogueirai</i> Hurd & Moure	PARAGUAY
<i>Xylocopa ornata</i> Smith	PERU
<i>Xylocopa similis</i> Smith	PERU
<i>Xylocopa varians</i> Smith	PARAGUAY
<i>Xylocopa viridis</i> Smith	PERU
<i>Xylocopa</i> spec.	PERU

**FAMILY?**

<i>Odyneropsis holosericea</i> Schrottky	PARAGUAY
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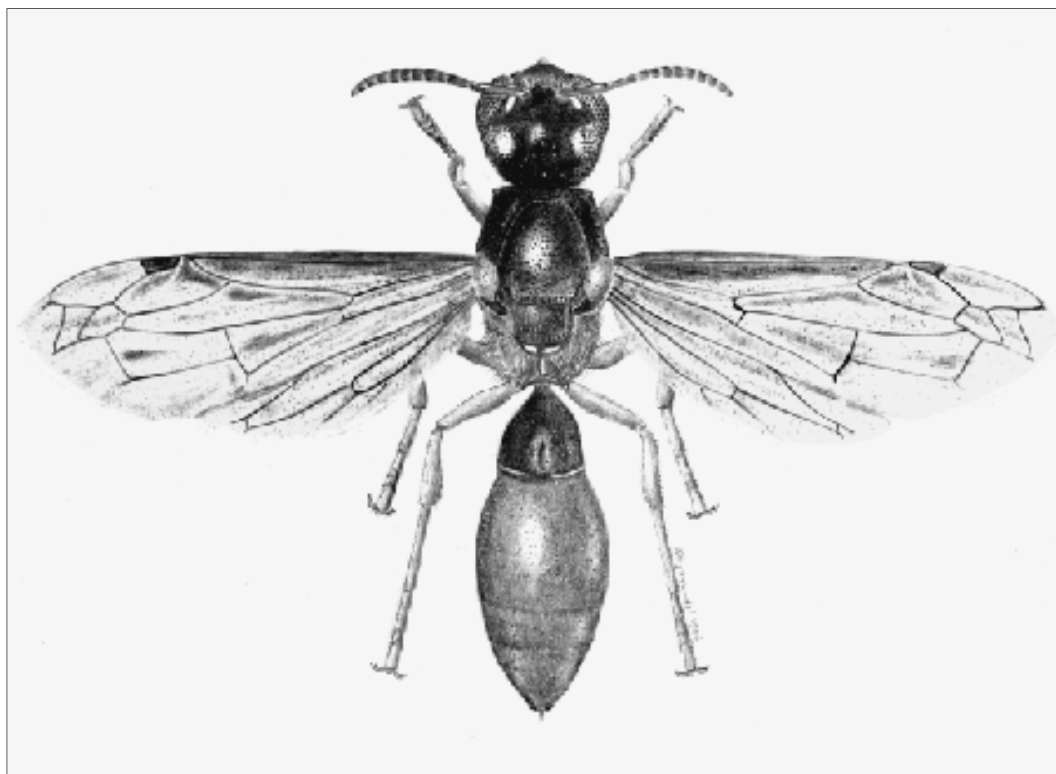


Figure 1 *Montezumia ignobiloides* A. WILLINK, paratype, collection NMR. [illustration B.J. van Vondel]

## NEARCTIC REGION

### SPHECIDAE

*Sceliphron coeruleum* L.

*Sphex nearcticus* Kohl

USA (NEW ORLEANS)

NORTH AMERICA

### APIDAE

*Bombus ternarius* Say

*Bombus terricola* K.

*Bombus vagans* F.Smith

CANADA (ONTARIO)

CANADA (ONTARIO, QUEBEC), USA (VERMONT)

CANADA (ONTARIO)

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