

**ANNOTATED CHECKLIST AND BIBLIOGRAPHY OF THE  
IMMATURE STAGES OF NEOTROPICAL GOMPHIDAE,  
PUBLISHED UP TO SEPTEMBER 1993  
(ANISOPTERA)**

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*Received December 4, 1992 / Revised and Accepted October 1, 1993*

The bibliographic data are listed for 99 identified spp., referable to 21 genera, as published since 1872. Brief comments and/or suggestions are provided where considered appropriate.

**INTRODUCTION**

During my studies on neotropical Gomphidae I have compiled a handlist of literature records of their immature stages. It seems useful to publish it here, though many references have already been quoted in the valuable general reviews of PAULSON (1977, 1982) and DOS SANTOS (1981, 1988). Particularly the 1988 catalogue of DOS SANTOS (pp. 290 and 292 interchanged) is very useful. Since its appearance, however, several alterations have occurred in the generic and species nomenclature/affiliations, and many additional larvae have become known, therefore the publication of a new, updated list is certainly opportune.

The Mexican *Octogomphus* Selys, though listed by DOS SANTOS (1988), I do not consider a true neotropical genus, therefore it is omitted here.

It goes without saying, it is difficult to gather the scattered literature, therefore I can only hope that not too many titles are missing in the present bibliography.

The genera and species are listed alphabetically, and the references chronologically. Where a larva is correctly referable to a genus, but it can not be associated with a particular species, it is indicated as "sp.?" A question mark is appended to the names of the larvae which are not definitely associated with the adult stage by rearing. If the generic allocation and, consequently, the species identity are considered uncertain, a double question mark is used.

Some general references on the immature stages of a certain genus are provided where considered appropriate. For a generic key to the regional larvae see BELLE (1992).

### LIST OF LITERATURE RECORDS

#### AGRIOGOMPHUS SELYS

General – NEEDHAM, 1944: 180

*ericae* (Belle)? – BELLE, 1966b: 45 [in *Ischnogomphus*]

*sylicola* Selys – NEEDHAM, 1944: 183; – BELLE, 1966b: 33; – 1977: 289

*tumens* Calvert – NOVELO, 1989: 203

*jessei* Williamson? – ARANGO & ROLDÁN, 1983: 99, fig. 18

#### APHYLLA SELYS

General – NEEDHAM & HART, 1901: 53; – NEEDHAM, 1940: 365; – NEEDHAM & WESTFALL, 1955: 108; – FERGUSON-BEATTY, 1956: 369; – SMITH & PRITCHARD, 1956: 114; – GLOYD & WRIGHT, 1959: 926, 933, figs 34, 69; – BELLE, 1964: 32; – LIEFTINCK, 1969: 104; – BELLE, 1970: 42

sp. ? – DE MARMELS, 1983: 155

sp. ? – NEEDHAM, 1940: 374 [No. 3]

sp. ? – NEEDHAM, 1940: 375 [No. 4]

sp. ? – NEEDHAM, 1940: 375 [No. 5]

sp. ? – NEEDHAM, 1940: 376 [No. 6]

*albinensis* [see under *brevipes*]

*angustifolia* Garrison? – NEEDHAM, 1940: 372 [under *protracta*]; – NEEDHAM & WESTFALL, 1955: 110 [under *protracta*]

*brevipes* Selys? – BELLE, 1970: 50 [under *albinensis*]

*caraiba* (Selys)? – NEEDHAM, 1940: 374; – NEEDHAM & WESTFALL, 1955: 110, fig. 50; – ALAYO, 1968: 13

*dentata* Selys? [syn. *simulata* Belle] – BELLE, 1964: 34

*producta* Selys? – NEEDHAM, 1944: 193; – BELLE, 1964: 33

*protracta* [see under *angustifolia*]

*simulata* [see under *dentata*]

*theodorina* (Navás)? – BELLE, 1992: 13

*williamsoni* (Gloyd)? – HAGEN, 1885: 277 [under *producta*]; – NEEDHAM, 1897: 184 [under *producta*]; – BYERS, 1930: 35, 244 [under *Negomphoides ambigua*]; – GLOYD, 1936: 14 [in *Gomphoides*]; – NEEDHAM, 1940: 371; – NEEDHAM & WESTFALL, 1955: 110; – FERGUSON-BEATTY, 1956: 370, figs 10-11; – DUNKLE, 1984: 479

#### ARCHAEOGOMPHUS WILLIAMSON

General – SCHMIDT, 1951: 130; – BELLE, 1982: 47

- sp. ? – NEEDHAM, 1940: 386 [probably *densus* Belle]  
*nanus* Needham – BELLE, 1970: 5; – 1977: 290  
*furcatus* Williamson – BELLE, 1992: 5

**CACOIDES COWLEY**

General – BELLE, 1986a: 97

- latro* (Erichson) – BELLE, 1970: 38; – 1977: 290; – DE MARMELS  
 1983: 155; – BELLE, 1986a: 98

**CYANOGOMPHUS SELYS**

General – NEEDHAM, 1944: 180

- sp. ? – NEEDHAM, 1940: 384  
 sp. ? – NEEDHAM, 1944: 190 [probably *conchinus* Williamson]  
*conchinus* Williamson? – BELLE, 1966b: 58 [in *Ebegomphus*]  
*demerarae* Selys – BELLE, 1966b: 59 [in *Ebegomphus*]; – 1970: 30;  
 – 1977: 290  
*minutus* Belle? – BELLE, 1970: 27; – 1977: 290  
*pumilus* Belle – BELLE, 1986b: 112  
*waltheri* Selys? – NEEDHAM, 1940: 382

**DESMOGOMPHUS WILLIAMSON**

*paucinervis* (Selys) – WESTFALL, 1989: 100

- tigrivensis* Williamson – BELLE, 1970: 33; – 1977: 290; – WESTFALL,  
 1989: 99

**DIAPHLEBIA SELYS**

No references to larvae

**EPIGOMPHUS HAGEN**

sp. ? – NEEDHAM, 1940: 385

- paludosus* Hagen – DOS SANTOS, 1968a: 159; – MARTINS, 1968: 157

**ERPETOGOMPHUS SELYS**

General – HAGEN, 1885: 249, 255 [under *Herpetogomphus*]; – NEEDHAM & HART,  
 1901: 53 [under *Herpetogomphus*]; – NEEDHAM & WESTFALL, 1955: 140; – FERGU-  
 SON-BEATTY, 1956: 369; – SMITH & PRITCHARD, 1956: 114; – GLOYD & WRIGHT,  
 1959: 928; – NOVELO, 1991: 150

- compositus* Hagen? – HAGEN, 1885: 256 [in *Herpetogomphus*]; –  
 NEEDHAM & WESTFALL, 1955: 142; – SMITH & PRITCHARD,  
 1956: 117

*crotalinus* Hagen – NOVELO, 1991: 150

- designatus* Hagen – HAGEN, 1885: 255 [in *Herpetogomphus*]; – NEED-  
 HAM & WESTFALL, 1955: 142, fig. 72

- elaps* Selys? – CALVERT, 1899: 415  
*eutainia* Calvert? – HAGEN, 1885: 256 [under *Herpetogomphus menetriesii*]  
*lampropeltis* Kennedy – NEEDHAM & WESTFALL, 1955: 142; – SMITH & PRITCHARD, 1956: 117; – NOVELO, 1991: 154  
*menetriesii* [see under *eutainia*]  
*sabaleticus* Williamson – BELLE, 1992: 21

#### GOMPHOIDES SELYS

- sp. ? – CABOT, 1872: 1 [under *Herpetogomphus* sp.; possibly also a sp. of *Phyllogomphoides* Belle]  
 sp. ? – NEEDHAM, 1911: 393, fig. 2 [possibly also a sp. of *Phyllogomphoides* Belle]  
*infumata* Selys – BELLE, 1992: 17

#### IDIOGOMPHOIDES BELLE

- demoulini* (St. Quentin)? – NEEDHAM, 1944: 197 [under *Gomphoides fuliginosus*?]; – CALVERT, 1948a: 62 [under *Gomphoides fuliginosa*]; – BELLE, 1992: 20  
*ictinia* (Selys)? – BELLE, 1992: 18

#### MELANOCACUS BELLE

- General – BELLE, 1986a: 98  
*mungo* Needham – NEEDHAM, 1944: 191 [in *Cacus*]; – BELLE, 1970: 39 [in *Cacoides*]; – 1977: 290 [in *Cacoides*]; – DE MARMELS, 1985: 86 [in *Cacoides*]

#### MITRAGOMPHUS NEEDHAM

- sp. ? – BELLE, 1977: 290 [same exuviae discussed in BELLE, 1992, p. 18, under *Idiogomphoides ictinia* (Selys)?]

#### NEOGOMPHUS SELYS

- bidens* Selys – NEEDHAM & BULLOCK, 1943: 367; – BELLE, 1992: 23  
*edenticulatus* Carle & Cook – BELLE, 1992: 23  
*molestus* Selys – NEEDHAM & BULLOCK, 1943: 366; – BELLE, 1992: 23

#### PERIGOMPHUS BELLE

- pallidistylus* Belle – WESTFALL, 1989: 102

#### PERUVIOMPHUS KLOTS

- spec. indet. – BELLE, 1992: 5

**PHYLLOCYCLA CALVERT**

- General – NEEDHAM, 1940: 365 [under *Cyclophylla*]; – SMITH & PRITCHARD, 1956: 114; – BELLE, 1970: 67
- sp. ? – CABOT, 1872: 8 [under *Gomphoides*]; – HAGEN, 1885: 276 [under *Gomphoides*]
- sp. ? – CABOT, 1872: 9 [under *Gomphoides*; probably *Phyllocycla ophis* (Selys)]; – HAGEN, 1885: 277 [under *Gomphoides*]; – NEEDHAM, 1911: 395 [under *Cyclophylla*, fig. 5]
- sp. ? – NEEDHAM, 1911: 394 [under *Cyclophylla* fig. 4]
- sp. ? – NEEDHAM, 1940: 377 [under *Cyclophylla* sp. No. 2]
- sp. ? – NEEDHAM, 1940: 378 [under *Cyclophylla* sp. No. 5]
- sp. ? – NEEDHAM, 1940: 379 [under *Cyclophylla* sp. No. 6]
- argentina* Hagen – RODRIGUES, 1983: 267
- audax* [see under *fuliginosus*]
- elongata* (Selys)? – NEEDHAM, 1940: 377 [in *Cyclophylla*]; – 1943: 206 [in *Cyclophylla*]
- modesta* Belle – BELLE, 1970: 74; – 1977: 291
- neotropica* Belle? – NEEDHAM, 1944: 207 [under *Cyclophylla pachystyla*]; – BELLE, 1970: 99
- ophis* Selys – BELLE, 1970: 90; – 1977: 290
- pachystyla* [see under *neotropica*]
- propinqua* Belle? – NEEDHAM, 1940: 378 [under *Cyclophylla viridipleuris*]
- viridipleuris* (Calvert) – BELLE, 1992: 15
- volsella* (Calvert) – NEEDHAM, 1940: 376 [in *Cyclophylla*]

**PHYLLOGOMPHOIDES BELLE**

- General – HAGEN, 1885: 249, 273 [under *Gomphoides*]; – NEEDHAM, 1940: 365 [under *Gomphoides*]; – 1941: 242 [under *Desmogomphus*]; – NEEDHAM & WESTFALL, 1955: 104 [under *Gomphoides*]; – FERGUSON-BEATTY, 1956: 369 [under *Gomphoides*]; – SMITH & PRITCHARD, 1956: 114 [under *Gomphoides*]; – GLOYD & WRIGHT, 1959: 928; – BELLE, 1970: 112, 120 [under *Negomphoides*]; – NOVELO, 1993: 17, 24
- sp. ? – Cabot, 1872: 1 [under *Herpetogomphus* sp.; probably a *Phyllogomphoides* sp.]; – HAGEN, 1885: 272 [under *Epigomphus? paludosus?*, also a conspecific larva from the same collection (p. 273)]; – NEEDHAM, 1911: 393 [under *Gomphoides*, fig. 1]
- sp. ? – NEEDHAM, 1911: 393 [under *Gomphoides*, fig. 2]
- sp. ? – NEEDHAM, 1940: 370 [No. 5]
- sp. ? – ARANGO & ROLDÁN, 1983, fig. 16
- albrighti* (Needham)? – NEEDHAM & WESTFALL, 1955: 104, fig. 46 [in *Gomphoides*]
- andromeda* (Selys) – NEEDHAM, 1941: 243 [under *Desmogomphus* nymph]; – BELLE, 1970: 149 [in *Negomphoides*]; – 1977: 291

- appendiculatus* (Kirby)? – NEEDHAM, 1940: 369 [under *Gomphoides bifasciatus*]  
*audax* [see under *fuliginosus*]  
*bifasciatus* (Selys) – NEEDHAM, 1940: 369 [under *Gomphoides* sp.]; – 1943: 205  
*cristatus* (Needham) – BELLE, 1970: 129 [in *Negomphoides*]  
*duodentatus* Donnelly – NOVELO, 1993: 18  
*fuliginosus* (Hagen) – NEEDHAM, 1944: 195 [under *Gomphoides fuliginosus*; see under *Idiogomphoides demoulini*]; – CALVERT, 1948a: 62 [under *Gomphoides fuliginosa*; see under *Idiogomphoides demoulini*]; – BELLE, 1970: 116 [under *audax*]  
*luisi* González & Novelo – NOVELO, 1993: 21  
*major* Belle – BELLE, 1970: 114 [under *Negomphoides fuliginosus*]; – 1977: 291 [under *fuliginosus*]  
*pacificus* (Selys) – NOVELO, 1993: 22  
*stigmatus* (Say) – NEEDHAM, 1904 [in *Gomphoides*]; – 1940: 368 [in *Gomphoides*]; – NEEDHAM & WESTFALL, 1955: 104; – FERGUSON-BEATTY, 1956: 370, fig. 6  
*suasus* (Selys) – NOVELO, 1993: 23  
*undulatus* (Needham)? – BELLE, 1970: 132 [in *Negomphoides*]; – 1977: 291

### PROGOMPHUS SELYS

- General – HAGEN, 1885: 249, 273; – NEEDHAM & HART, 1901: 53; – BYERS, 1939: 56; – NEEDHAM, 1941: 221, 238; – NEEDHAM & WESTFALL, 1955: 93; – FERGUSON-BEATTY, 1956: 369; – SMITH & PRITCHARD, 1956: 114, 115; – GLOYD & WRIGHT, 1959: 927, 929, 933, fig. 34, 64; – BELLE, 1973: 297; – 1991: 10
- sp. ? – HAGEN, 1885: 275 [No. 31]  
 sp. ? – HAGEN, 1885: 275 [No. 32]  
 sp. ? – NEEDHAM, 1941: 235 [No. 11]  
 sp. ? – NEEDHAM, 1941: 236 [No. 12]  
 sp. ? – NEEDHAM, 1941: 236 [No. 13]  
 sp. ? – NEEDHAM, 1941: 236 [No. 14]; – DE MARMELS, 1981: 149  
 sp. ? – NEEDHAM, 1941: 237 [No. 15]  
 sp. ? – ARANGO & ROLDÁN, 1983: 98, fig. 17 [probably *abbreviatus* Belle]  
 spec. indet. – BELLE, 1991: 21 [probably *amarillus* Tennessen]  
*abbreviatus* Belle – DE MARMELS, 1981: 147  
*alachuensis* Byers – BYERS, 1939: 64, 68; – NEEDHAM, 1941: 234  
*approximatus* Belle – BELLE, 1966a: 27  
*anomalus* Belle – BELLE, 1991: 25  
*bellei* Knopf & Tennessen – KNOPF & TENNESSEN, 1980: 251; – DUNKLE, 1984: 479; – TENNESSEN 1993: 373

- belyshevi* Belle – BELLE, 1991: 17
- borealis* McLachlan – HAGEN, 1885: 275 [under 32, *Progomphus* sp.]; – KENNEDY, 1917: 527; – SEEMAN, 1927: 19; – BYERS, 1939: 63, 68; – NEEDHAM & WESTFALL, 1955: 96; – SMITH & PRITCHARD, 1956: 115; – PAULSON & GARRISON, 1977: 151; – BELLE, 1991: 16; – NOVELO, 1991: 154
- brachynemis* Needham – NEEDHAM, 1944: 210; – BELLE, 1966a: 2; – 1977: 291
- clendoni* Calvert [syn.: *williamsi* Needham, 1943] – NEEDHAM, 1941: 235; – 1943: 204 [under *williamsi*]; – NEEDHAM & WESTFALL, 1955: 96; – BELLE, 1991: 19
- complicatus* Selys? – DOS SANTOS, 1968b: 171; – 1970: 115
- conjectus* Belle – NEEDHAM, 1944: 213 [under *Progomphus* sp.? No. 15 but not No. 15 of NEEDHAM, 1940]; – BELLE, 1966a: 14 [under *Progomphus* sp.]; – 1977: 292; – 1992: 9
- dorsopallidus* Byers – KNOPF, 1977: 6
- geijskesi* Needham? – BELLE, 1972: 113; – 1973: 299; – 1977: 292
- guyanensis* Belle – BELLE, 1966a: 27; – 1977: 292
- incurvatus bivittatus* De Marmels – DE MARMELS, 1991: 5
- integer* Selys – NEEDHAM, 1941: 223; – BYERS, 1939: 65, 68; – NEEDHAM & WESTFALL, 1955: 96; – ALAYO, 1968: 12
- intricatus* Hagen – DE MARMELS, 1983: 155; – LIMONGI, 1985: 105
- lepidus* Ris? – NEEDHAM, 1941: 232
- longistigma* Ris – NEEDHAM, 1941: 231; – BELLE, 1991: 25
- mexicanus* Belle? – BELLE, 1991: 22
- obscurus* (Rambur)? – TINKHAM, 1934: 215
- obscurus* (Rambur) – CABOT, 1872: 6 [under *Progomphus*?? sp.]; – HAGEN, 1885: 274; – NEEDHAM, 1897: 184; – NEEDHAM & HART, 1901: 55; – KENNEDY, 1917: 527; – 1921: 595; – HOWE, 1923: 127; – GARMAN, 1927: 126; – SEEMANN, 1927: 19; – NEEDHAM & HEYWOOD, 1929: 62; – BYERS, 1930: 35, 247 [in *Gomphoides*]; – 1939: 60, 67; – NEEDHAM, 1941: 233; – NEEDHAM & WESTFALL, 1955, fig. 43; – FERGUSON-BEATTY, 1956: 370, fig. 8; – WATSON, 1956: 163; – DUNKLE, 1984: 479
- phyllochromus* Ris – LIMONGI, 1985: 108
- pygmaeus* Selys – LIMONGI, 1985: 114; – BELLE, 1991: 25
- racenisi* De Marmels – DE MARMELS, 1990: 1
- risi* Williamson – BELLE, 1991: 24
- serenus* Hagen – NEEDHAM, 1941: 225; – NEEDHAM & WESTFALL, 1955: 96
- tibialis* Belle – NEEDHAM, 1944: 185 [under ?*Cyanogomphus*?]; – BELLE, 1973: 246; – 1977: 292

*zephyrus* Needham? – NEEDHAM, 1941: 230; – NEEDHAM & WEST-FALL, 1955: 96; – BELLE, 1992: 11; – DAIGLE 1993: 197  
*zonatus* Selys? – NEEDHAM, 1941: 234; – BELLE, 1991: 15

### TIBIAGOMPHUS BELLE

General – BELLE, 1992: 3

*noval* (Rodrigues) – RODRIGUES, 1984: 332 [in *Cyanogomphus*]

### ZONOPHORA SELYS

sp. ? – NEEDHAM, 1944: 221 [see under *batesi*]

*batesi* Selys? – NEEDHAM, 1944: 221 [under *Zonophora* sp. ?]; – BELLE, 1966c: 62; – 1977: 292

*calippus calippus* Selys? – BELLE, 1966c: 64 [under *calippus*]

*campanulata machadoi* St. Quentin – BELLE, 1992: 20

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