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(Trichoptera: Philopotamidae)

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TABLE OF CONTENTS

ABSTRACT	4
INTRODUCTION	4
Taxonomic History of Philopotaminae	5
MATERIALS AND METHODS	8
GENERIC DESCRIPTION	10
<i>Alterosa</i> , new genus	10
SPECIES DESCRIPTIONS	14
<i>Alterosa beckeri</i> , new species	14
<i>Alterosa bocaina</i> , new species	15
<i>Alterosa boraceia</i> , new species	17
<i>Alterosa caparaonensis</i> , new species	19
<i>Alterosa escova</i> , new species	21
<i>Alterosa falcata</i> , new species	22
<i>Alterosa fimbriata</i> , new species	25
<i>Alterosa flinti</i> , new species	26
<i>Alterosa fluminensis</i> , new species	28
<i>Alterosa guapimirim</i> , new species	30
<i>Alterosa holzenthali</i> , new species	32
<i>Alterosa intervales</i> , new species	33
<i>Alterosa itatiaia</i> , new species	35
<i>Alterosa jordaensis</i> , new species	37
<i>Alterosa marinonii</i> (Almeida & Duarte), new combination	39
<i>Alterosa orgaosensis</i> , new species	41
<i>Alterosa paprockii</i> , new species	42
<i>Alterosa sanctaeteresae</i> , new species	44
<i>Alterosa sanctipauli</i> (Flint), new combination	46
<i>Alterosa schadrackorum</i> , new species	48
<i>Alterosa tripuiensis</i> , new species	50
<i>Alterosa truncata</i> , new species	51
PHYLOGENETIC CONSIDERATIONS	53
Relationships within <i>Alterosa</i>	56
CONCLUDING COMMENTS	57
ACKNOWLEDGMENTS	58
LITERATURE CITED	58

ABSTRACT

The subgenera of *Dolophilodes* (Trichoptera: Philopotamidae), as recognized by Ross (1956), are reconsidered. *Sortosa* Navás 1918, *Thylakion* Barnard 1934, *Fumonta* Ross 1956, and *Sisko* Ross 1956 are elevated to generic status, and an additional genus, *Alterosa*, is established to include 2 described species, *Dolophilodes (Sortosa) sanctipauli* Flint 1971 and *Dolophilodes (Sortosa) marinonii* Almeida & Duarte 2003, and 20 new species, all from southern or southeastern Brazil. New species described in *Alterosa* include: *Alterosa beckeri*, *A. bocainae*, *A. boraceiae*, *A. caparaonensis*, *A. escova*, *A. falcata*, *A. fimbriata*, *A. fluminensis*, *A. flinti*, *A. guapimirim*, *A. holzenthali*, *A. intervalles*, *A. itatiaiae*, *A. jordaensis*, *A. orgaosensis*, *A. paprockii*, *A. sanctaeteresae*, *A. schadrackorum*, *A. tripuiensis*, and *A. truncata*. *Alterosa bocainae* is designated the type species for the genus. Species recognized as belonging to *Sortosa* include, in their original combinations: *Dolophilodes angulatus* Schmid 1964, *D. appendiculatus* Flint 1967, *D. bifidus* Flint 1970, *D. bispinosus* Flint 1967, *Sortosa chilensis* Navás 1918, *D. duplex* Schmid 1964, *D. dupliplex* Flint 1983, *S. edwardi* Ross 1956, *D. elongatus* Schmid 1964, *D. elongatoides* Flint 1967, *S. flavipunctatus* Schmid 1955, *S. michelbacheri* Ross 1956, *D. paxilliferus* Flint 1970, *S. pectinifera* Schmid 1958, *D. prolixus* Flint 1983, *D. scopulus* Flint 1983, *D. spectabilis* Flint 1983, *S. spinifera* Schmid 1958, *D. spinosellus* Flint 1970, and *D. ventricostus* Flint 1983. Species recognized as belonging to *Thylakion* include, in their original combinations: *Dolophilodes crenophilus* Jacquemart and Statzner 1981, *Thylakion forcipatus* Barnard 1934, *D. natalensis* Morse 1974, and *T. urceolus* Barnard 1934. Species recognized as belonging to *Sisko* include, in their original combinations: *Sortosa oregona* Denning 1966 and *Wormaldia sisko* Ross 1949. The genus *Fumonta* is monotypic and includes, in its original combination, *Dolophilus major* Banks 1914.

Key words: Trichoptera, Philopotamidae, Philopotaminae, *Dolophilodes*, *Sortosa*, *Thylakion*, *Sisko*, *Fumonta*, *Alterosa*, new genus, new species, new status, new combination, caddisfly, Neotropics, Brazil

INTRODUCTION

Until recently, only a single species in the subfamily Philopotaminae was known from Brazil, *Dolophilodes (Sortosa) sanctipauli* Flint 1971. In 2003, a second species, *Dolophilodes (Sortosa) marinonii*, was described from Brazil by Almeida & Duarte. Flint acknowledged at the time of its description that *D. sanctipauli* was distinctly different from other species in the subgenus *Sortosa*, which has a substantial radiation of 20 species in Chile. The 20 new species from Brazil described in this paper suggest that the philopotamine fauna of Brazil is as diverse as that of Chile. Most of these species have been collected in relatively pristine headwater springs, streams or small rivers, and it is likely that additional species remain to be collected in similar habitats, perhaps many more species. All of the new species from Brazil share similarities to the two described species from the region. The distinctiveness of these species has opened the question of their proper generic placement.