Census of " Microturbellarians" (free-living Platyhelminthes) of the zoogeographical regions originating from Gondwana

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Abstract

In this study we review microturbellarian species known to occur in zoogeographical regions that originated from Gondwana. The 510 reported species are from all types of aquatic environments (*marine*, *brackish* and *freshwater*). Complete data of the distribution and bibliographical references are provided. In addition, taxonomic discrepancies, as well as new combinations, are clarified. This checklist is the first revised compendium of the microturbellarians of the Gondwanian zoogeographical regions.

Key words: Microturbellarians, Gondwanian zoogeographical regions, checklist, bibliography

Introduction

The taxonomy and ecology of free-living Platyhelminthes are known mainly through paramount studies carried out in the Northern Hemisphere (mainly Ax 1953-1995, Karling 1953-1993, Luther 1904-1963). In contrast, the biodiversity of these organisms in the Southern zoogeographical regions (Ethiopic, Neotropical, Australian, Antarctica and Oriental) originating from Gondwana remains relatively unknown. The most exhaustive studies of "Turbellaria" in this region were conducted in Brazil (Marcus 1943-70, du Bois-Reymond Marcus 1951-58). Smaller scale studies, limited to selected regions, have been carried out in countries such as Kenya and Tanzania, (Young 1976-77; Kolasa 1976, Kolasa & Young 1974); Argentina (Noreña-Janssen 1995, Noreña & Faubel 1996); the Galapagos Islands (Ehlers & Dörjes 1979; Ehlers & Sopott-Ehlers 1981 and 1989; Sopott-Ehlers & Schmidt 1974; Ehlers & Ax 1974; Schmidt & Sopott Ehlers 1976) and Australia (Curini-Galetti 1997 and 1998; Curini-Galletti & Cannon 1995, 1996a, b and 1997, Curini-Galletti et al. 2002; Faubel et al. 1994a, b; Faubel & Rohde 1998).

The content of this review is restricted to microturbellarians, that is, all members of the Plathyhelminthes except the Tricladida, Polycladida, and the Neodermata.

Free-living Microturbellaria

At the present time, there are 510 microturbellarian species reported for the Gondwanian regions that are considered valid. Most species reported (more than 45%) are found in Brazil. It is important to note that a majority of these species were described in the 1940s and 1950s by Marcus and co-workers from locations around the city of Sao Paulo that have since been destroyed by the urban expansion.

ACOELA ULJANIN, 1870

The species belonging to the Order Acoela compiled in this study are only found below the 20º lat. N. In general, southern microturbellarian species are found as often in freshwater environments as they are in brackish and marine environments. In the southern hemisphere, the order Acoela is represented by 12 families and 61 species exclusively marine, with the exception of *Amphiscolops carvalhoi* and *Rimicola glacialis* from freshwater environments.

Due to a revision by Hooge 2001 (and further refinements to this revision in Hooge et al 2002) the family Childiidae contains only two valid genera: *Childia* and *Paraphanostoma*. Both taxa have reversed pattern of body-wall musculature, with longitudinal muscles positioned outside of circular muscles. All other genera previously contained in the Childiidae are in the family Actinoposthiidae Hooge, 2001.

Now we have listed an up to date checklist of the valid species within the Order Acoela with information about authors, date of publication, type-locality, further distribution and habitat.

ACTINOPOSTHIIDAE HOOGE, 2001

***Paractinoposthia pseudovesicula* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes, 1979). *marine*

***Paraproporus xanthus* Marcus, 1950**: Brazil (Marcus, 1950). *marine*

***Philactinoposthia tenebrosa* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes, 1979). *marine*

***Pseudoactinoposthia daena* (Marcus, 1954**) Dörjes, 1968: Brazil (Marcus, 1954). *marine*

***Pseudoactinoposthia parva* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes, 1979). *marine*

ANAPERIDAE DÖRJES, 1968

***Pseudanaperus tinctus* (Marcus, 1952) Dörjes 1968**: Brazil (Marcus, 1952). *marine*

ANTROPOSTHIIDAE FAUBEL, 1976

***Adenopea cenata* (du Bois-Reymond Marcus, 1955) Antonius, 1968**: Brazil (du Bois-Reymond Marcus, 1955). *marine*

CHILDIIDAE DÖRJES, 1968

***Childia groenlandica* (Levinsen, 1879) Meixner 1925**: Brazil (Marcus, 1950). *marine*

***Paraphanostoma etium* Marcus, 1954**: Brazil (Marcus, 1954). *marine*

***Paraphanostoma westbladi* Marcus, 1950**: Brazil (Marcus, 1950). *marine*

CONVOLUTIDAE VON GRAFF, 1904

***Amphiscolops carvalhoi* Marcus, 1952**: Brazil (Marcus 1952). *brackish*

***Amphiscolops evelinae* Marcus, 1947**: Brazil (Marcus 1947). *marine*

***Amphiscolops gemelliporus* Marcus, 1954**: Chile (Marcus 1954b). *marine*

***Avagina polyvacuola* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes 1979). *marine*

***Conaperta colorata* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes 1979). *marine*

***Conaperta divae* (Marcus, 1950) Antonius, 1968**: Brazil (Marcus 1950). *marine*

***Conaperta urua* (Marcus, 1954) Antonius, 1968**: Chile (Marcus 1954b). *marine*

***Conaperta vexillaria* (Marcus, 1948) Antonius, 1968**: Brazil (Marcus 1948). *marine*

***Conaperta westbladi* (Marcus, 1949) Antonius, 1968**: Brazil (Marcus 1949). *marine*

***Convoluta boyeri* Bush, 1984**: Philippines (Bush 1984). *marine*

***Convoluta henseni* Böhmig, 1895**: Brazil (Marcus 1949). *marine*

***Convoluta philippinensis* Bush, 1984**: Philippines (Bush 1984). *marine*
***Deuterogonaria thauma* (Marcus, 1952) Dörjes, 1968**: Brazil (Marcus 1952). *marine*
***Faerlea antora* Marcus, 1952**: Brazil (Marcus 1952). *marine*
***Haplodiscus bocki* Dörjes, 1970**: Indonesia (Dörjes, 1970). *marine*
***Heterochaerus australis* Haswell, 1905**: Australia (Haswell 1905). *marine*
***Heterochaerus sargassi* (Hyman, 1939) Winsor, 1990**: Brazil (Marcus 1950). *marine*
***Praeaphanostoma musculosum* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes 1979). *marine*
***Praeaphanostoma thalassophilum* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes 1979). *marine*
***Praeaphanostoma vitreum* Ehlers & Dörjes, 1979:** Galapagos Island (Ehlers & Dörjes 1979). *marine*
***Proaphanostoma tenuissimum* (Westblad, 1946) Dörjes, 1972**: Brazil (Marcus 1950). *marine*
***Pseudaphanostoma divae* Marcus, 1952**: Brazil (Marcus 1954a). *marine*
***Rimicola glacialis* Böhmig, 1908:** Antartica (Reisinger 1926). *brackish*/*marine*
***Wulguru cuspidata* Winsor, 1988**: Australia (Winsor 1988). *marine*

HALLANGIIDAE WESTBLAD, 1949
***Hallangia evelinae* Marcus, 1952**: Brazil (Marcus 1952). *marine*

HAPLOPOSTHIIDAE WESTBLAD, 1949
***Haplogonaria idia* (Marcus, 1954) Dörjes, 1968**: Chile (Marcus 1954b). *marine*
***Haplogonaria pellita* (Marcus, 1951) Dörjes, 1968**: Brazil (Marcus 1951). *marine*
***Haploposthia microphoca* Marcus, 1950**: Brazil (Marcus 1950). *marine*
***Kuma albiventer* (Marcus, 1954) Faubel, 1976**: Brazil (Marcus 1954). *marine*
***Kuma belca* Marcus, 1952**: Brazil (Marcus 1952). *marine*
***Kuma brevicauda* Marcus, 1950**: Brazil (Marcus 1950). *marine*
***Pseudokuma orphinum* (Marcus, 1950) Dörjes 1968**: Brazil (Marcus 1950). *marine*
***Pseudohaplogonaria minima* Ehlers & Dörjes, 1979**: Galapagos Island (Ehlers & Dörjes 1979). *marine*
***Waminoa litus* Winsor, 1990:** Australia (Winsor 1990). *marine*

HOFSTENIIDAE BOCK, 1923
***Hofstenia minuta* Palombi, 1928:** Panama (Palombi 1928). *brackish/marine*
***Marcusiola tinga* (du Bois-Reymond Marcus, 1957) Steinböck 1966:** Brazil (du Bois-Reymond Marcus 1957). *marine*
MECYNOSTOMIDAE DÖRJES, 1968
***Eumecynostomum evelinae* (Marcus, 1948) Faubel & Regier, 1983:** Brazil (Marcus 1948). *marine*
***Eumecynostomum tardum* (Ehlers & Dörjes,1979) Faubel & Regier, 1983:** Galapagos

Island (Ehlers & Dörjes 1979). *marine*

***Pseudmecynostomum pellucidum* Ehlers & Dörjes, 1979:** Galapagos Island (Ehlers & Dörjes 1979). *marine*

NADINIDAE DÖRJES, 1968

***Nadina evelinae* (Marcus, 1952) Dörjes 1968:** Brazil (Marcus 1952). *marine*

OTOCELIDIDAE WESTBLAD, 1949

***Exocelis exopenis* Ehlers & Dörjes, 1979:** Galapagos Island (Ehlers & Dörjes 1979). *marine*

***Haplocelis dichona* (Marcus, 1954) Dörjes 1968:** Brazil (Marcus 1954a). *marine*

***Otocelis phycophilus* Ehlers & Dörjes, 1979:** Galapagos Island (Ehlers & Dörjes 1979). *marine*

***Posticopora luteopunctata* (Ehlers & Dörjes, 1979) Kozloff 2000:** Galapagos Island (Ehlers & Dörjes 1979). *marine*

***Philocelis karlingi pacifica* Ehlers & Dörjes, 1979:** Galapagos Island (Ehlers & Dörjes 1979). *marine*

SAGITTIFERIDAE KOSTENKO & MAMKAEV, 1990

***Convolutriloba hastifera* Winsor, 1990**: Australia (Winsor 1990). *marine*

***Convolutriloba longifissura* Bartolomeus & Balzer, 1997**: Indonesia (Bartolomaeus & Balzer 1997). *marine*

***Convolutriloba retrogemma* Hendelberg & Åkesson, 1988**: Australia (Hendelberg & Akesson 1988). *marine*

***Symsagittifera macnaei* (du Bois-Reymond Marcus, 1957) Kostenko & Mamkaev, 1990**: South Africa (du Bois-Reymond Marcus 1957;Warren 1906; Wager 1913). *marine*

***Symsagittifera roscoffensis* (Graff, 1891) Kostenko & Mamkaev, 1990:** South Africa (Warren 1906). *marine*

CATENULIDA MEIXNER, 1924

The order Catenulida shows a cosmopolitan distribution and is also present in the holarctic region. In the order Catenulida, *Stenostomum* is the most broadly distributed and best-represented genus of freshwater microturbellarians. It appears world-wide, at times widely distributed over a region and at other times limited to small areas. However, this genus is known for its ambiguous morphological and anatomical diagnostic characters; therefore, it is possible that many species within this genus have been misidentified.

Catenulida is the only order that is exclusively freshwater, with the exception of the species *Stenostomum arevaloi*, which in its original description was reported for brackish

areas, and the family Retronectidae. Within this typical marine family, the only exclusively freshwater representative is *Myoretronectes paranaensis*, which has been found in the Paraná River, Argentina (Neotropical region) (Noreña & Faubel 1996).

Within this order, four families are represented by a total of 51 species, but 35 of these species, at least up to now, have been reported for the family Stenostomidae; almost all of these species belong to the mentioned genus *Stenostomum*.

CATENULIDAE VON GRAFF, 1905

***Africatenula riurae* Young, 1976:** Kenya (Young 1976a). *limnic*

***Catenula alitha* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Catenula confusa* Nuttycombe, 1956:** Kenya (Young & Young 1976). Surinam (Van Der Land 1970). *limnic*

***Catenula lemnae* Duges, 1832:** Brazil (Marcus 1945a). Argentina (Noreña-Janssen 1995). *limnic*

***Catenula leuca* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Catenula macrura* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Dasyhormus lasius* Marcus, 1945:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Dasyhormus lithophorus* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Suomina evelinae* Marcus, 1945:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Suomina sawayai* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Suomina turgida* (Zacharias, 1902) Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

CHORDARIIDAE MARCUS, 1945

***Chordarium cryptum* Marcus, 1945:** Brazil (Marcus 1945a).

***Chordarium evelinae* Marcus, 1945:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Chordarium leucanthum* Marcus, 1945:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Chordarium philum* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

STENOSTOMIDAE VEJDOVSKY, 1880

***Myostenostomum marcusi* Rogozin, 1992:** Brazil (Rogozin 1992). *limnic*

***Myostenostomum tauricum* (Nassonov, 1923) Luther, 1960:** Brazil (Marcus 1945a). Kenya (Young & Young 1976). *Limnic*

***Rhynchoscolex evelinae* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Rhynchoscolex nanus* Marcus, 1945:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Rhynchoscolex platypus* Marcus, 1945:** Brazil (Marcus,1945a). Surinam (Van Der Land 1970). *Limnic*

***Rhynchoscolex pusillus* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Rhynchoscolex simplex* Leidy, 1851:** Brazil (Marcus 1945a). *limnic*

***Stenostomum amphotum* Marcus, 1945:** Brazil (Marcus 1945a). *Limnic*

***Stenostomum anatirostrum* Marcus, 1945:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). Kenya (Kolasa & Young 1974). *limnic*

***Stenostomum arevaloi* Gieysztor, 1931:** Kenya and Tanzania (Young & Kolasa 1974b) Brazil (Marcus 1945a). *limnic/brackish*

***Stenostomum beryli* Young & Kolasa, 1974:** Kenya (Young & Kolasa 1974a). *limnic*

***Stenostomum bicaudatum* Kennel, 1889:** Argentina (Noreña-Janssen 1995). Brazil (Marcus 1945a) T.Tobago (Kennel 1889). Surinam (Van Der Land 1970). *limnic*

***Stenostomum ciliatum* Kepner & Carter, 1931:** Brazil (Marcus 1945a). *limnic*

***Stenostomum corderoi* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Stenostomum cryptops* Nuttycombe & Waters, 1935:** Brazil (Marcus 1945a). *limnic*

***Stenostomum evelinae* Marcus, 1945:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Stenostomum glandulosum* Kepner & Carter, 1931:** Kenya (Young & Kolasa 1974b). Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Stenostomum grande* Child, 1902:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Stenostomum hemisphericum* Nassonov 1924:** Surinam (Van Der Land 1970). Brazil (Marcus, 1945b). *limnic*

***Stenostomum leucops* (Duges, 1828) Schmidt, 1848:** Sumatra (Reisinger 1933). Kenya, Tanzania (Young & Kolasa 1974b). Uganda (Böhmig 1897). Argentina (Noreña-Janssen 1995). Surinam (Van Der Land 1970). *limnic*

***Stenostomum matarazzoi* Marcus, 1949:** Brazil (Marcus 1949). *limnic*

***Stenostomum membranosum* Kepner & Carter, 1931:** Brazil (Marcus 1945a). *limnic*

***Stenostomum paraguayense* (Martin, 1908) Luther, 1908:** Paraguay (Martín 1908). Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Stenostomum pegephilum* Nuttycombe & Waters, 1938:** Brazil (Marcus 1945a). *limnic*

***Stenostomum pseudoacetablum* Nuttycombe & Waters, 1935:** Brazil (Marcus 1945a). Kenya (Young & Kolasa 1974b). Surinam (Van Der Land 1970). *limnic*

***Stenostomum rosulatum* Marcus, 1945:** Brazil (Marcus 1945a). *limnic*

***Stenostomum saliens* Kepner & Carter, 1931:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Stenostomum simplex* Kepner & Carter, 1931:** Brazil (Marcus 1945a). *limnic*

***Stenostomum sphagnetorum* (Schmidt, 1848) Luther, 1960:** Central *S*umatra (Reisinger 1933) Kenya (Young & Kolasa 1974b). *limnic*

***Stenostomum tenuicauda* Graff, 1912:** Brazil (Marcus 1945a). *limnic*

***Stenostomum tuberculosum* Nuttycombe & Waters, 1938:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Stenostomum uronephrium* Nuttycombe, 1931:** Brazil (Marcus 1945a). Argentina (Noreña-Janssen 1995). *limnic*

***Stenostomum ventronephrium* Nuttycombe, 1932:** Brazil (Marcus 1945b). *limnic*

***Stenostomum virginianum* Nuttycombe, 1931:** Brazil (Marcus 1945a). Surinam (Van Der Land 1970). *limnic*

***Xenostenostomum microstomoides* Reisinger, 1976:** Brazil, South Africa, Madagascar (Reisinger 1976). *Limnic*

RETRONECTIDAE STERRER & RIEGER, 1974

***Myoretronectes paranaensis* Noreña-Janssen & Faubel, 1996:** Argentina (Noreña-Janssen & Faubel 1996). *limnic*

MACROSTOMIDA MEIXNER, 1926

Within the order Macrostomida, the Macrostomidae is the most abundant family. Seventy-five percent of the Macrostomida species reported for this study belong to this family. Members of the family Macrostomidae are found in a variety of habitats. Representatives of the genus *Macrostomum* are particulary ubiquitous and can be found in limnic, marine, and brackish environments.

DOLICHOMACROSTOMIDAE RIEGER, 1971

***Austromacrostomum mortenseni* (Marcus, 1950) Rieger, 1971:** Brazil (Marcus 1950). *marine*

***Dolichomacrostomum lutheri* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Myozonaria ascia* Sopott-Ehlers & Schmidt, 1974:** Galapagos Island (Sopott-Ehlers & Schmidt 1974b). *marine*

***Paramyozonaria riegeri* Sopott-Ehlers & Schmidt, 1974:** Galapagos Island (Sopott-Ehlers & Schmidt 1974b). *marine*

***Paromalostomum subflavum* Sopott-Ehlers & Schmidt, 1974:** Galapagos Island (Sopott-Ehlers & Schmidt 1974b). *marine*

MACROSTOMIDAE BENEDEN, 1870

***Archimacrostomum brasiliensis* (Marcus, 1952) Fergusson, 1954:** Brazil (Marcus 1952). *brackish/marine*

***Bradburia australiensis* Faubel, Blome & Cannon, 1994:** Australia (Faubel, Blome & Cannon 1994). *marine*

***Bradburia miraculicis* (Schmidt & Sopott-Ehlers, 1976) Faubel, Blome & Cannon, 1994:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Dunwichia arenosa* Faubel, Blome & Cannon, 1994:** Australia (Faubel, Blome & Cannon 1994). *marine*

***Macrostomum amaniense* Young, 1976:** Tanzania (Young 1976b). *limnic*

***Macrostomum appendiculatum* O. Fabricius, 1826:** Java (Reisinger 1933). *limnic*

***Macrostomum astericis* Schmidt & Sopott-Ehlers, 1976:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Macrostomum australiense* Faubel, Blome & Cannon 1994:** Australia (Faubel, Blome & Cannon 1994). *marine*

***Macrostomum balticum* Luther, 1947:** Jamaica (Therriault & Kolasa 1999). *limnic*

***Macrostomum baringoense* Young, 1976:** Kenya (Young 1976b). *limnic*

***Macrostomum elgonense* Beauchamp 1935:** Uganda/Kenya (Beauchamp 1935). *limnic*

***Macrostomum christinae* Young, 1976:** Kenya, Tanzania (Young 1976b). *limnic*

***Macrostomum coxi* Young, 1976:** Kenya (Young 1976b). *limnic*

***Macrostomum delphax* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Macrostomum evelinae* Marcus, 1946:** Brazil (Marcus 1946; Marcus 1950). *marine*

***Macrostomum galloprovinciale* Schmidt & Sopott-Ehlers, 1976:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Macrostomum georgeense* Young, 1976:** Uganda (Young 1976b). *limnic*

***Macrostomum gigas* (Okugawa, 1930) Hyman, 1943:** Brazil (Marcus 1946). *limnic*

***Macrostomum gabriellae* Marcus, 1949:** Brazil (Marcus 1949). *brackish/marine*

***Macrostomum ideficis* Schmidt & Sopott-Ehlers, 1976:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Macrostomum majesticis* Schmidt & Sopott-Ehlers, 1976:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Macrostomum nairobiense* Young, 1976:** Kenya (Young 1976b). *limnic*

***Macrostomum obelicis* Schmidt & Sopott-Ehlers, 1976:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Macrostomum orthostylum* Braun, 1885:** Kenya (Young 1976b). *limnic*

***Macrostomum phocurum* Marcus, 1954:** Brazil (Marcus 1954a). *limnic/brackish*

***Macrostomum prognosticis* Schmidt & Sopott-Ehlers, 1976:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Macrostomum reynolsoni* Young, 1976:** Kenya (Young 1976b). *limnic*

***Macrostomum rostratum* Papi, 1951:** Kenya (Young 1976b). *limnic/brackish*

***Macrostomum sinyaense* Young, 1976:** Kenya (Young 1976b). *limnic*

***Macrostomum thermale* Reisinger, 1933:** Java (Reisinger 1933). *limnic*

***Macrostomum thingithuense* Young, 1976:** Kenya (Young 1976b). *limnic*

***Macrostomum troubadicis* Schmidt & Sopott-Ehlers, 1976:** Galapagos Island (Schmidt & Sopott-Ehlers 1976). *marine*

***Macrostomum tuba* von Graff, 1882:** Kenya, Uganda (Young 1976b). [Indonesia (Menzel 1925)?, Venezuela (Hyman 1955)? *Marine*?]. *limnic*

***Myozona aerumnosa* Sopott-Ehlers & Schmidt, 1974:** Galapagos Island (Sopott-Ehlers & Schmidt 1974a). *marine*

***Myozona evelinae* Marcus, 1949:** Brazil (Marcus 1949). *marine*

***Myozona psila* Sopott-Ehlers & Schmidt, 1974:** Galapagos Island (Sopott-Ehlers & Schmidt 1974a). *marine*

***Promacrostomum palum* Sluys, 1986:** Australia (Sluys 1986). *limnic*

MICROSTOMIDAE LUTHER, 1907

***Microstomum breviceps* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Microstomum gabriellae* Marcus, 1950:** Brazil (Marcus 1950, Marcus, 1951). *marine*

***Microstomum lineare* (Müller, 1773) Örsted, 1843:** Argentina (Noreña-Janssen 1995). Sumatra (Reisinger 1933). *limnic/brackish*

***Microstomum rhabdotum* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Microstomum trichotum* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Microstomum ulum* Marcus, 1950:** Brazil (Marcus 1950). *marine*

LECITHOEPITHELIATA REISINGER, 1924

The order Lecithoepitheliata includes two families. The family Gnosonesimidae, from marine environments, and the family Prorhynchidae, from freshwater. Both families are poorly represented in the Gondwanian areas, only 6 species of 27 are actually known for this region.

GNOSONESIMIDAE REISINGER, 1926

***Gnosonesima tropicalis* Schockaert & Martens, 1985:** Somalia (Schockaert & Martens 1985). *marine*

***Gnosonesima antarctica* Reisinger, 1926:** Antartica (Reisinger 1926). *marine*

PRORHYNCHIDAE HALLEZ, 1894

***Geocentrophora applanata* (Kennel, 1888) Steinböck, 1927:** Brazil (Marcus 1944). *limnic*

***Geocentrophora baltica* (Kennel, 1883) Steinböck, 1927:** Uganda/ Kenya (Beauchamp 1935). *limnic*

***Prorhynchus stagnalis* Schultze, 1851:** Brazil (Marcus, 1944). Kenya (Young & Young 1976). *limnic*

***Prorhynchus brincki* Marcus, 1955:** South Africa (Marcus 1955a). *limnic*

PROLECITHOPHORA KARLING, 1940

Members of the order Prolecithophora are nearly entirely marine. Two species, *Plagiostomum evelinae* and *P. lacustre*, have been found in fresh water in Gondwanian region (Brazil, Tanzania, and Uganda); however, no freshwater species of prolecithophorans have been found in the Laurasian regions (Nearctic and Palearctic).

CYLINDROSTOMIDAE REISINGER, 1924

***Allostoma evelinae* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Cylindrostoma gaussi* Reisinger, 1926:** Antarctica (Reisinger 1926). *marine*

***Cylindrostoma hyljeum* Marcus, 1952:** Brazil (Marcus 1952). *marine*

***Cylindrostoma ibeenum* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Cylindrostoma myfflum* Marcus, 1951:** Brazil (Marcus, 1951). *marine*

***Cylindrostoma netsicum* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Cylindrostoma vanhöffeni* Reisinger, 1926:** Antarctica (Reisinger 1926). *marine*

***Einarhelmins mutsa* (Marcus, 1952) Karling, 1993:** Brazil (Marcus 1952). *marine*

***Enterostomula ronis* Marcus, 1954:** Chile (Marcus 1954b). *marine*

***Monoophorum ruseri* Reisinger, 1926:** Antarctica (Reisinger 1926). *marine*

***Monoophorum tigacum* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Thallagus divae* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Tuilica evelinae* Marcus, 1951:** Brazil (Marcus 1951). *marine*

PLAGIOSTOMIDAE VON GRAFF, 1908

***Acmostomum canarium* Marcus, 1947:** Brazil (Marcus 1947). *marine*

***Plagiostomum elachisterum* (Marcus, 1948) Kulinitch, 1974:** Brazil (Marcus 1948). *marine*

***Plagiostomum falklandicum* Westblad, 1952:** Falkland Islands, South Georgia (Karling & Jondelius 1995). *marine*

***Plagiostomum acoluthum* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Plagiostomum autectum* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Plagiostomum boehmigi* Karling & Jondelius, 1995:** South Georgia (Karling & Jondelius 1995). *marine*

***Plagiostomum caecum* Böhmig, 1914:** Antarctica (Böhmig 1914). *marine*

***Plagiostomum clusum* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Plagiostomum drygalskii* Böhmig, 1914:** Antarctica (Böhmig 1914). *marine*

***Plagiostomum evelinae* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Plagiostomum giganteum* Sluys, 1992:** Antarctica (Sluys, 1992). *marine*

***Plagiostomum girardi girardi* (Schmidt, 1857) von Graff, 1882:** Brazil (Marcus 1948). *marine*

***Plagiostomum hartmeyeri* Weiss, 1909:** Australia (Weiss 1909). *marine*

***Plagiostomum kurrum* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Plagiostomum lacustre* Baylis, 1927:** Tanzania (Baylis 1927, Marcus & du Bois-Reymond Marcus 1957). Uganda (Young & Young 1976). Ruanda, Uganda (Marcus & du Bois-Reymond Marcus 1957). *limnic*

***Plagiostomum lapinum* Marcus, 1952:** Brazil (Marcus 1952). *marine*

***Plagiostomum nonatoi* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Plagiostomum nucleipharyngeum* Karling & Jondelius, 1995:** Falkland Island (Karling

& Jondelius 1995). *marine*

***Plagiostomum opisthogonimum* Reisinger, 1926:** Antarctica (Reisinger, 1926). *marine*

***Plagiostomum remanei* Marcus, 1954:** Brazil (Marcus 1954a). *marine*

***Plagiostomum sagax* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Plagiostomum thelotrichum* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Plicastoma astrum* Marcus, 1947:** Brazil (Marcus 1947). *marine*

***Plicastoma carvalhoi* Marcus, 1947:** Brazil (Marcus 1947). *marine*

***Plicastoma lutheri* (Böhmig, 1914) Karling, 1940:** Antarctica (Sluys 1992). Falkland I., S. Georgia (Westblad 1952). *marine*

***Plicastoma phocae* Marcus, 1947:** Brazil (Marcus 1947). *marine*

***Puzostoma evelinae* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Vorticeros cyrtum amoma* Marcus, 1947:** Brazil (Marcus 1947). *marine*

***Vorticeros cyrtum cyrtum* Marcus, 1947:** Brazil (Marcus 1947). *marine*

***Vorticeros dahli* Marcus, 1954:** Chile (Marcus 1954b). *marine.*

SCLERAULOPHORIDAE MARCUS, 1950

***Rosmarium evelinae* Marcus, 1950:** Brazil (Marcus 1950). *marine*

URASTOMIDAE MARCUS, 1951

***Urastoma evelinae* Marcus, 1951:** Brazil (Marcus 1951). *marine*

PROSERIATA MEIXNER, 1938

Member of the Proseriata are mostly marine with the exception of *Bothrioplana semperi* (freshwater), *Duplominona amnica* (limnic/brackish), and *Mesoda gabriellae*, *Togarma evelinae*, *Kata evelinae* and *K. Leroda* (marine/brackish). Seven families and 107 species of the Proseriata are found within the Gondwanian zoogeographical regions. Members of the Proseriata are well distributed around the world, but most genera appear to be restricted to specific geographical areas.

The family Monocelididae has the largest number of species within the order Proseriata (with 62 species of a total of 107) and is the most species-rich family of all Gondwanian Turbellaria. In the Laurasic regions, the greatest number of species belongs to the family Otoplanidae. However, a quantitative evaluation of the diversity of benthic species assemblages of “microturbellarians” of intertidal sandy beaches and flats along the Australian east coast from the Torres Strait, Thursday Island, down to Batemanís Bay, south of Sydney, revealed that the relationship of monocelidids (16 species) to otoplanids (43 species) was the same in the southern regions as in the northern one (pers. com. A. Faubel).

ARCHIMONOCELIDIDAE MEIXNER, 1938

***Archimonocelis glabrodorsata* Martens & Curini-Galletti, 1993:** Puerto Rico (Martens

& Curini-Galletti 1993). *marine*

***Archimonocelis hasanuddin* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Archimonocelis inopinata* Martens & Curini-Galletti, 1993:** Puerto Rico (Martens & Curini-Galletti 1993). *marine*

***Archimonocelis keke* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Archimonocelis medusa* Curini-Galletti & Cannon, 1997:** Australia (Curini-Galletti & Cannon 1997). *marine*

***Archimonocelis puertoricana* Martens & Curini-Galletti, 1993:** Puerto Rico (Martens & Curini-Galletti 1993). *marine*

***Archimonocelis rhizophoralis* Martens & Curini-Galletti, 1989:** Australia (Martens & Curini-Galletti, 1989). *marine*

***Meidiama lutheri* Marcus, 1946:** Brazil (Marcus, 1946). *marine*

***Meidiama schockaerti* Martens & Curini-Galletti, 1993:** Argentina (Martens & Curini-Galletti 1993). *marine*

BOTHRIOPLANIDAE HOFSTEN, 1907

***Bothrioplana semperi* Braun, 1881:** Sumatra (Reisinger 1933). Brazil (Marcus 1946). S. Africa (du-Bois Reymond Marcus 1951). *limnic*

COELOGYNOPORIDAE KARLING, 1966

***Carenscoilia monostyla* Ax & Ax, 1974:** Galapagos Island (Ax & Ax 1974). *marine*

***Stilivannuccia hastata* (Ax & Ax, 1974) Faubel & Rohde, 1998:** Galapagos Island (Ax & Ax 1974). *marine*

***Stilivannuccia glandulifera* Faubel & Rohde, 1998:** Australia (Faubel & Rohde 1998). *marine*

***Vannuccia martae* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Vannuccia talea* Marcus, 1954:** Brazil (Marcus 1954a). *marine*

MONOCELIDIDAE HOFSTEN, 1907

***Acanthopseudomonocelis mirabilis* Curini-Galletti & Cannon, 1995:** Australia (Curini-Galletti & Cannon 1995). *marine*

***Archilina papillosa* (Ax & Ax, 1977) Martens & Curini-Galletti, 1994:** Galapagos Island (Ax & Ax 1974). *marine*

***Archilina opisthobursa* Curini-Galletti & Martens, 1996:** Puerto Rico (Curini-Galletti & Martens 1996). *marine*

***Archilina stylifera* Curini-Galletti & Martens, 1996:** Puerto Rico (Curini-Galletti & Martens 1996). *marine*

***Archilina vanderlandi* (Martens & Curini-Galletti, 1989) Martens & Curini-Galletti,**

1994: Indonesia (Martens & Curini-Galletti 1989). *marine*

***Cannona woolgoolgae* Faubel & Rohde, 1998:** Australia (Faubel & Rohde 1998). *marine*

***Duplominona amnica* (Ball & Hay, 1977) Martens, 1983:** Australia (Ball & Hay 1977). *limnic*/*brackish*

***Duplominona axi* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Duplominona cynaroides* Martens & Curini-Galletti, 1989:** Australia (Martens & Curini-Galletti 1989). *marine*

***Duplominona darwinensis* Martens & Curini-Galletti, 1989:** Australia (Martens & Curini-Galletti 1989). *marine*

***Duplominona galapagoensis* Ax & Ax, 1977:** Galapagos Island (Ax & Ax 1977). *marine*

***Duplominona karlingi* Ax & Ax, 1977:** Galapagos Island (Ax & Ax 1977). *marine*

***Duplominona krameri* Ax & Ax, 1977:** Galapagos Island (Ax & Ax 1977). *marine*

***Duplominona makassarensis* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Duplominona mica* (Marcus, 1951) Karling 1966:** Brazil (Marcus 1951). *marine*

***Duplominona muslimini* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Duplominona samalonae* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Duplominona sieversi* Ax & Ax, 1977:** Galapagos Island (Ax & Ax 1977). *marine*

***Duplominona sulawesiensis* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Duplominona tridens* (Marcus, 1954) Karling, 1978:** Brazil (Marcus 1954a). *marine*

***Duploperaclistus garudae* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Inaloa scalopura* (Marcus, 1949) Martens & Curini-Galletti, 1994:** Brazil (Marcus 1949). *marine*

***Mesoda gabriellae* Marcus, 1949:** Brazil (Marcus 1949, 1950). *brackish*/*marine*

***Mesoda thelura* (Marcus, 1951) Martens & Curini-Galletti, 1994:** Brazil (Marcus 1951). *marine*

***Minona australis* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996b). *marine*

***Minona beaglei* Martens & Curini-Galletti, 1989:** Australia (Martens & Curini-Galletti 1989). *marine*

***Minona concharum* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996b). *marine*

***Minona divae* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Minona dolichovesicula* Tajika, 1982:** Australia (Curini-Galletti & Cannon 1996b).

marine

***Minona evelinae* Marcus, 1946:** Brazil (Marcus 1946). *marine*

***Minona fernandinensis* Ax & Ax, 1977:** Galapagos Island (Ax & Ax 1977). *marine*

***Minona hastata* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Minona heronensis* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996b). *marine*

***Minona indonesiana* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Minona itaipus* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Minona mica* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Minona proculvaginata* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996b). *marine*

***Minona queenslandensis* Faubel & Rohde, 1998:** Australia (Faubel & Rohde 1998). *marine*

***Monocelis anta* Marcus, 1954:** Chile (Marcus 1954b). *marine*

***Monocelis balanocephala* (Böhmig, 1902) Midelburg, 1908:** Chile (Böhmig 1902). *marine*

***Monocelis beata* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996a). *marine*

***Monocelis corallicola* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996a). *marine*

***Monocelis galapagoensis* Ax & Ax, 1977:** Galapagos Island (Ax & Ax 1977). *marine*

***Monocelis macrobulbus*, Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon, 1996a). *marine*

***Monocelis nexilis* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996a). *marine*

***Monocelis oculifera* Ax & Ax, 1977:** Galapagos Islands (Ax & Ax 1977). *marine*

***Monocelis pardus* Marcus, 1954:** Chile (Marcus 1954b). *marine*

***Monocelis pictocephala* Martens & Curini-Galletti, 1989:** Indonesia (Martens & Curini-Galletti 1989). *marine*

***Monocelis psilus* Marcus, 1954:** Chile (Marcus 1954b). *marine*

***Monocelis rupisrubrae* Curini-Galletti & Cannon, 1996:** Australia (Curini-Galletti & Cannon 1996a). *marine*

***Monocelis tabira* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Necia boreoceloides* Curini-Galletti, 1997:** Australia (Curini-Galletti 1997). *marine*

***Necia sopha* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Peraclistus stimula* (Ax & Ax, 1977) Karling, 1978:** Galapagos Island (Ax & Ax 1977). *marine*

***Promonotus erinaceus* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Promonotus villacae* Marcus, 1949:** Brazil (Marcus, 1949). *marine*

***Pseudomonocelis cavernicola* Schockaert & Martens, 1987:** Somalia (Schockaert & Martens 1987). *marine*

***Pseudomonocelis hoplites* Curini-Galletti, 1997:** Australia (Curini-Galletti 1997). *marine*

***Pseudomonocelis pardii* Schockaert & Martens, 1987:** Somalia (Schockaert & Martens 1987). *marine*

***Pseudomonocelis sckockaerti* Curini-Galletti & Cannon, 1995:** Australia (Curini-Galletti & Cannon 1995). *marine*

***Sabazius brattströmi* Marcus, 1954:** Chile (Marcus 1954b). *marine*

***Togarma evelinae* Marcus, 1949:** Brazil (Marcus 1949). *brackish*/*marine*

NEMATOPLANIDAE MEIXNER, 1938

***Alloeostyliphora-mirabilis* Curini-Galletti, Oggiano & Casu, 2001:** India(Curini-Galletti, Oggiano & Casu 2001). *marine*

***Nematoplana asita* Marcus, 1950:** Brazil (Marcus 1950). *Marine.*

***Nematoplana calamus* Curini-Galletti, Oggiano & Casu, 2001:** India (Curini-Galletti, Oggiano & Casu 2001). *marine*

***Nematoplana cannoni* Curini-Galletti, Oggiano & Casu, 2002:** Australia (Curini-Galletti, Oggiano & Casu 2002). *marine*

***Nematoplana cyclops* Curini-Galletti, Oggiano & Casu, 2002:** Australia (Curini-Galletti, Oggiano & Casu 2002). *marine*

***Nematoplana ezoplanoides* Curini-Galletti, Oggiano & Casu, 2002:** Australia (Curini-Galletti, Oggiano & Casu 2002). *marine*

***Nematoplana hamata* Curini-Galletti, Oggiano & Casu, 2002:** Australia (Curini-Galletti, Oggiano & Casu 2002). *marine*

***Nematoplana indica* Curini-Galletti, Oggiano & Casu, 2001:** India (Curini-Galletti, Oggiano & Casu 2001). *marine*

***Nematoplana martensi* Curini-Galletti, Oggiano & Casu, 2002:** Australia (Curini-Galletti, Oggiano & Casu 2002). *marine*

***Nematoplana naia* Marcus, 1949:** Brazil (Marcus 1949). *marine*

***Nematoplana nigrocapitula* Ax, 1966:** Galapagos Island (Ax & Ax 1974). *marine*

***Nematoplana rubra* Curini-Galletti, Oggiano & Casu, 2002:** Australia (Curini-Galletti, Oggiano & Casu 2002). *marine*

***Tabaota curiosa* Marcus, 1950:** Brazil (Marcus 1950). *marine*

OTOPLANIDAE HALLEZ, 1892

***Itaspis evelinae* Marcus, 1952:** Brazil (Marcus 1952). *marine*

***Kata evelinae* Marcus, 1949:** Brazil (Marcus 1949). *brackish*/*marine*

***Kata galapagoensis* Ax & Ax, 1974:** Galapagos Island (Ax & Ax 1974). *marine*

***Kata leroda* Marcus, 1950:** Brazil (Marcus 1950). *brackish*/*marine*

***Parotoplana moya* Marcus, 1949:** Brazil (Marcus 1949). *marine*

***Parotoplana turgida* Ax & Ax, 1974:** Galapagos Islands (Ax & Ax 1974). *marine*
***Philosyrtis eumeca* Marcus, 1950:** Brazil (Marcus 1950). *marine*
***Philosyrtis sanjuanensis* Ax & Ax, 1974:** Galapagos Islands (Ax & Ax 1974). *marine*
***Philosyrtis santacruzensis* Ax & Ax, 1974:** Galapagos Islands (Ax & Ax 1974). *marine*
POLYSTYLIPHORIDAE AX, 1958
***Polystyliphora australiensis* Faubel & Rohde, 1998:** Australia (Faubel & Rohde 1998). *marine*
***Polystyliphora axi* Curini-Galletti & Martens, 1991:** Australia (Curini-Galletti & Martens 1991). *marine*
***Polystyliphora cannoni* Curini-Galletti, 1998:** Australia (Curini-Galletti 1998). *marine*
***Polystyliphora darwini* Ax & Ax, 1974:** Galapagos Islands (Ax & Ax 1974). *marine*
***Polystyliphora persimilis* Curini-Galletti, 1998:** Australia (Curini-Galletti 1998). *marine*
***Polystyliphora novaehollandiae* Curini-Galletti, 1998:** Australia (Curini-Galletti 1998). *marine*
***Polystyliphora portistephensii* Curini-Galletti, 1998:** Australia (Curini-Galletti 1998). *marine*
***Polystyliphora queenslandica* Curini-Galletti, 1998:** Australia (Curini-Galletti 1998). *marine*

RHABDOCOELA VON GRAFF, 1904

KALYPTORHYNCHIA

Within the suborder Kalyptorhynchia, only 3 of the 67 listed species known from Gondwanian zoogeographical regions have been reported from Laurasian regions as well, these are: *Porrocystis assimilis* (found in Greenland), *Toia ycia* (found in Scheld Estuary, Holland) and *Gyratrix hermaphroditus* (cosmopolitan). The listed species below are mainly marine or brackish, with the exception of *Gyratrix hermaphroditus*, which is ubiquitous and can found in marine, brackish and freshwater environments.

CICERINIDAE MEIXNER, 1928
***Toia ycia* Marcus, 1952:** Brazil (Marcus, 1952). Kenya (Jouk & De Vocht 1989). *brackish*/*marine*
***Pocillorhynchus spiroductus* Schockaert, 1982:** Somalia (Schockaert 1982). *marine*
KARKINORHYNCHIDAE MEIXNER, 1928
***Archipelagoplana triplocirro* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*
***Baltoplana bisphaera* Jouk & De Vocht, 1989:** Kenya (Jouk & De Vocht 1989). *marine*
***Carcharodorhynchus arista* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Carcharodorhynchus galapagoensis* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Carcharodorhynchus longicirrus* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Carcharodorhynchus tabulaeferus* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Cheliplana asica* Marcus, 1952:** Brazil (Marcus, 1952). Somalia (Schockaert 1982). *brackish*

***Cheliplana asica terminalis* Brunet, 1968:** Kenya (Jouk & De Vocht 1989). Somalia (Schockaert 1982). *marine*

***Cheliplana barringtonensis* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold, 1984). *marine*

***Cheliplana pacifica* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Cheliplana pileola* Jouk & De Vocht, 1989:** Kenya (Jouk & De Vocht 1989). *marine*

***Cheliplana targa* (Marcus, 1952) Karling 1983:** Brazil (Marcus 1952). *marine*

***Cheliplana textilis* Jouk & De Vocht, 1989:** Kenya (Jouk & De Vocht 1989). *marine*

KOINOCYSTIDIDAE MEIXNER, 1924

***Falkla bacillata* Karling, 1952:** S. Georgia, Falkland I. (Karling 1952). *marine*

***Itaipusa divae* Marcus, 1949:** Brazil (Marcus, 1949). *marine*

***Itaipusa evelinae* (Marcus, 1954) Karling 1980:** Brazil (Marcus 1954a). *marine*

***Rhinolasius sartus* Marcus, 1951:** Brazil (Marcus 1951). *brackish*

***Utelga deina* Marcus, 1949:** Brazil (Marcus 1949). *marine*

PLACORHYNCHIDAE MEIXNER, 1938

***Harsa obnixa* Marcus, 1951:** Brazil (Marcus 1951, 1952). *brackish*

***Oneppus lacus* Marcus, 1954:** Brazil (Marcus 1954a). *brackish*/*marine*

***Oneppus timius* Marcus, 1952:** Brazil (Marcus 1952). *brackish*

***Placorhynchus meridionalis* Karling, 1952:** Argentina, S. Georgia. (Karling 1952). *marine*

POLYCYSTIDAE VON GRAFF, 1905

***Alcha evelinae* Marcus, 1949:** Brazil (Marcus 1949). Kenya (Jouk & De Vocht 1989). *brackish*/*marine*

***Antiboreorhynchus novzelae* Karling & Schockaert, 1977:** New Zealand (Karling & Schockaert 1977). *marine*

***Antiboreorhynchus torquatus* Karling, 1952:** Falkland Island (Karling 1952). *marine*

***Austrorhynchus antarcticus* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Austrorhynchus biserratus* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Paraustrorhynchus elixus* (Marcus, 1954) Karling & Schockaert, 1977:** Brazil (Marcus 1954a). *marine*

***Austrorhynchus galapagoensis* Artois & Schockaert, 1999:** Galapagos Island (Artois & Schockaert 1999a). *marine*

***Austrorhynchus magnificoides* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Austrorhynchus pectatus magnificus* Karling, 1952:** South Georgia (Karling 1952). *brackish*/*marine*

***Austrorhynchus pectatus pectatus* Karling, 1952:** S. Georgia, Falkland Island (Karling 1952). *brackish*/*marine*

***Cincturorhynchus karlingi* Schockaert, 1982:** Somalia (Schockaert 1982). Kenya (Jouk & De Vocht, 1989). *marine*

***Djeziraia incana* Artois & Schockaert, 2001:** Galapagos Island (Artois & Schockaert 2001). *marine*

***Djeziraia pardii* Schockaert, 1971:** Somalia (Schockaert 1982). *marine*

***Duplacrorhynchus heyleni* Artois & Schockaert, 1999:** Tanzania (Artois & Schockaert 1999b). *marine*

***Fungorhynchus pistillatus*Karling, 1952:** Falkland Island (Karling 1952). *marine*

***Galapagorhynchus hoxholdi* Artois & Schockaert, 1999:** Galapagos Island (Artois & Schockaert 1999a). *marine*

***Gyratrix hermaphroditus* Ehrenberg, 1831:** Tanzania, Kenya (Young & Young 1976, Jouk & De Vocht 1989). Colombia (Fuhrmann 1914). Brazil (Marcus 1946). Java (Reisinger 1933). Australia (Curini-Galletti & Puccinelli 1990). Puerto Rico (Curini-Galletti & Puccinelli 1994). Argentina (Noreña-Janssen 1995). Somalia (Schockaert 1982). Jamaica (Therriault & Kolasa 1999). Antarctica (Artois, Vermin & Schockaert 2000). *marine*/*brackish*/*limnic*

***Hawadlia papii* Schockaert, 1971:** Somalia (Schockaert 1971). *marine*

***Koinocystella inermis* Karling, 1952:** South Georgia (Karling 1952). *marine*

***Macrorhynchus manusferrea* Artois & Schockaert, 2001:** Galapagos Island (Artois & Schockaert 2001). *marine*

***Marcusia yagana* (Marcus, 1954) Artois & Schockaert, 1998:** Chile (Marcus 1954b). *marine*

***Myobulla dunata* Artois & Schockaert, 2000:** Galapagos Island (Artois & Schockaert 2000). *marine*

***Myobulla myobulla* Artois & Schockaert, 2000:** Galapagos Island (Artois & Schockaert 2000). *marine*

***Parachrorhynchus jondelii* Artois & Schockaert, 2001:** Galapagos Island (Artois & Schockaert 2001). *marine*

***Paulodora contorta* (Schockaert & Karling, 1975) Artois & Schockaert 1998:** Somalia (Schockaert 1982). Kenya (Jouk & De Vocht 1989). *marine*/*brackish*?

***Paulodora felis* (Marcus, 1954) Artois & Schockaert 1998:** Brazil (Marcus 1954a). Jamaica (Therriault & Kolasa 1999). *marine*

***Paulodora fredylina* (Marcus, 1948) Artois & Schockaert 1998:** Brazil (Marcus 1948). *marine*

***Paulodora matarazzoi* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Paulodora subcontorta* (Schockaert, 1982) Artois & Schockaert 1998:** Somalia (Jouk & De Vocht 1989; Schockaert 1982). Kenya (Jouk & De Vocht 1989). *marine*

***Phonorhynchoides haegheni* Artois & Schockaert, 2001:** Galapagos Island (Artois & Schockaert 2001). *marine*

***Phonorhynchoides somaliensis* Schockaert, 1971:** Somalia (Schockaert 1971). *marine*

***Polycystis ali* Schockaert, 1982:** Somalia (Jouk & De Vocht 1989; Schockaert 1982). Galapagos Island (Artois & Schckaert 2001). Kenya (Jouk & De Vocht 1989). *marine*

***Polycystis gabriellae* (Marcus, 1948) Karling, 1952:** Brazil (Marcus 1948). *brackish*/ *marine*

***Porrocystis assimilis* (Levinsen, 1879) Karling 1952:** S. Georgia, Falkland I. (Karling 1952). Chile (Marcus 1954b). Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Pygmorhynchus pygmaeus* Artois & Schockaert, 1999:** Galapagos Island (Artois & Schockaert 1999a). *marine*

***Sabulirhynchus axi* Artois & Schockaert, 2000:** Galapagos Island (Artois & Schockaert 2000). *marine*

SCHIZORHYNCHIDAE VON GRAFF, 1905

***Carcharodorhynchus involutus* Jouk & De Vocht, 1989:** Kenya (Jouk & De Vocht 1989). *marine*

***Coagulescorhynchus virguladivina* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Proschizorhynchus atopus* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Schizochilus bruneti* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Schizochilus santacruzensis* Noldt & Hoxhold, 1984:** Galapagos Island (Noldt & Hoxhold 1984). *marine*

***Schizorhynchoides martae* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Trapichorhynchus tapes* Marcus, 1949:** Brazil (Marcus 1949). *marine*

TYPHLOPLANOIDA

It should be noted that in general, the origin of the suborder Typhloplanoida, but not the origin of the species of different genera is pre-Gondwanian. For example, the genus *Cas-*

trada, while amply represented in the Nearctic and Palearctic regions (47 species), has never been reported for the studied regions. For this reason, we can suppose that the evolution and divergence of the species of *Castrada* occurred after the separation of Gondwana. Similarly, members of the genus *Mesostoma* probably have their origin prior to the splitting of Gondwana, but most speciation events appear to have occurred after the split.

As taxonomical clarification, *Olisthanella parva* Marcus, 1946 is considered a valid species (Marcus 1946, Luther 1963) and not a synonym of *O. opistomiformis* Nasonov, 1921, based on the following morphological characters: a separate entrance of the vas deferens and the prostatic glands, the presence of an atrial uterine diverticulum, and the lack of a retractable anterior end. Other minor differences observed in *O. parva* include a uniformly shaped ocular lens and the presence of an occasional tail in the posterior end; however, constancy of those characters is not documented.

BYRSOPHLEBIDAE VON GRAFF, 1882

***Byrsophlebs caligulachaena* (Ehlers & Ehlers, 1981) Karling, 1985:** Galapagos Island (Ehlers & Ehlers 1981). *marine*

***Byrsophlebs lutheri* (Marcus, 1952) Karling, 1985:** Brazil (Marcus 1952). *marine*

KYTORHYNCHIDAE RIEGER, 1974

***Neokytorhynchus pacificus* Ehlers & Ehlers, 1981:** Galapagos Island (Ehlers & Ehlers 1981). *marine*

PROMESOSTOMIDAE DEN HARTOG, 1964

***Brinkmanniella augusti* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Brinkmanniella microps* Schockaert & Martens, 1985:** Somalia (Schockaert & Martens 1985). *marine*

***Gaziella lacertosa* De Clerck & Schockaert, 1995:** Kenya, Seychelles (De Clerck & Schockaert 1995). *marine*

***Gaziella pileola* De Clerck & Schockaert, 1995:** Kenya (De Clerck & Schockaert 1995). *marine*

***Kymocarens proxenetoides* Ehlers & Ehlers, 1981:** Galapagos Island (Ehlers & Ehlers 1981). *marine*

***Kymocarens tibialis* Ehlers & Ehlers, 1981:** Galapagos Island (Ehlers & Ehlers 1981). *brackish*

***Memyla phocanela* Marcus, 1952:** Brazil (Marcus 1952). *marine*

***Pararhynchella fusca* Ehlers & Ehlers, 1981:** Galapagos Island (Ehlers & Ehlers 1981). *marine*

***Promesostoma sartagine* Ax & Ehlers, 1973:** Galapagos Island (Ax & Ehlers 1973). *marine*

***Promesostoma scylax* Marcus, 1952:** Brazil (Marcus 1952). *marine*

***Promesostoma tenebrosum* Ax & Ehlers, 1973:** Galapagos Island (Ax & Ehlers 1973). *marine*

***Wydula avia* Marcus, 1954:** Chile (Marcus 1954b). *marine*

***Wydula simplex* Ehlers & Ehlers, 1981:** Galapagos Island (Ehlers & Ehlers 1981). *marine*

SOLENOPHARYNGIDAE VON GRAFF, 1882

***Artiga evelinae* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Lenopharynx triops* Marcus, 1951:** Brazil (Marcus 1951). *marine*

***Lenopharynx tubatus* Schockaert & Martens, 1985:** Somalia (Schockaert & Martens 1985). *marine*

***Tangaroa pusa* Marcus, 1952:** Brazil (Marcus 1952). *marine*

TRIGONOSTOMIDAE VON GRAFF, 1905

***Ceratopera axi* (Riedl, 1954) Den Hartog, 1964:** Galapagos Island (Ehlers & Ax 1974). Antartica (Artois, Vermin & Schockaert, 2000). Falkland Island (Karling 1986). *marine*

***Ceratopera bermudensis* Karling, 1986:** Galapagos Island (Ehlers & Ax 1974). *marine*

***Ceratopera paragracilis* Ehlers & Ax, 1974:** Galapagos Island (Ehlers & Ax 1974). *marine*

***Crytostiopera cornuta* Ehlers & Ax, 1974:** Galapagos Island (Ehlers & Ax 1974). *marine*

***Feanora breviciruus* De Clerck & Schockaert, 1995:** Kenya (De Clerck & Schockaert 1995). *marine*

***Messoplana falcata valida* Ehlers & Ax, 1974:** Galapagos Island (Ehlers & Ax 1974). *marine*

***Messoplana globulifera* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Messoplana minuta* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Messoplana spiralis* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Microvahine corallicola* Karling, Mack-Fira & Dörjes, 1972:** Somalia (Schockaert & Martens 1985). *marine*

***Proxenetes trispinosum* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Ptychoptera scutilifera* Ehlers & Ax, 1974:** Galapagos Island (Ehlers & Ax 1974). Somalia (Schockaert & Martens 1985). *marine*

***Trigonostomum divae* Marcus, 1948:** Brazil (Marcus 1948). *marine*

***Trigonostomum messoplanoides* Artois, Vermin & Schockaert, 2000:** Antarctica (Artois, Vermin & Schockaert 2000). *marine*

***Trigonostomum setigerum* Schmidt, 1852:** Galapagos Island (Ehlers & Ax 1974). *marine*

TYPHLOPLANIDAE VON GRAFF, 1908

***Bothromesostoma evelinae* Marcus, 1946:** Brazil (Marcus 1946). Uruguay (Ponce de León 1986). Argentina (Noreña-Janssen 1995). *limnic*

***Bothromesostoma personatum* (Schmidt, 1848) Braun, 1885:** Kenya (Young & Young 1976). *limnic*

***Dochmiotrema limnicola* Hofsten, 1907:** Nigeria (Mead & Kolasa 1984). *limnic*

***Haloplanella conversa* Ehlers & Sopott-Ehlers, 1989:** Galapagos Island (Ehlers & Sopott-Ehlers 1989). *marine*

***Haloplanella evelinae* Marcus, 1954:** Chile (Marcus 1954b). *marine*

***Haloplanella ibla* Marcus, 1952:** Brazil (Marcus 1952). *marine*

***Haloplanella semicircula sancristobalensis* Ehlers & Sopott-Ehlers, 1989:** Galapagos Island (Ehlers & Sopott-Ehlers 1989). *marine*

***Haloplanella semicircula santacruzensis* Ehlers & Sopott-Ehlers, 1989:** Galapagos Island (Ehlers & Sopott-Ehlers 1989). *marine*

***Haloplanella semicircula semicircula* Ehlers & Sopott-Ehlers, 1989:** Galapagos Island (Ehlers & Sopott-Ehlers 1989). *marine*

***Haplodidymoa rubroculatus* Hochberg & Cannon, 2002:** Australia (Hochberg & Cannon 2002). *limnic*

***Marcomesostoma evelinae* (Marcus, 1955) Noreña & Faubel, 1992:** Zaire (Marcus 1955b). *limnic*

***Mesostoma africanum* Kolasa, 1976:** Nigeria (Kolasa 1976). *limnic*

***Mesostoma appinum* Kolasa & Schwartz, 1988:** Australia (Kolasa & Schwartz 1988). *limnic*

***Mesostoma brincki* Marcus, 1970:** Namibia (Marcus 1970). *limnic*

***Mesostoma canum* Weiss, 1909:** Australia (Weiss 1909). *limnic*

***Mesostoma ehrenbergi* (Focke, 1836) Örsted, 1843:** Argentina (Noreña Janssen 1995). Uruguay (Ponce de Leon 1984). Brazil (Marcus 1943, 1946). Kenya (Young & Young 1976). New Zeeland (Stout 1953). Trinidad (Huested & Ruebush 1940). Peru (Beauchamp 1939). *limnic*

***Mesostoma ewerum* du Bois-Reymond Marcus, 1951:** South Africa (du Bois-Reymond Marcus 1951). *limnic*

***Mesostoma lingua* (Abilgaard, 1789) von Graff, 1882:** Argentina (Noreña-Janssen 1995). Kenya (Beauchamp 1935, Young & Young 1976). Tanzania, Uganda (Young & Young 1976). Algeria (Gauthier 1929, Schrade 1974*). limnic*

***Mesostoma magnum* Kolasa & Schwartz, 1988:** Australia (Kolasa & Schwartz 1988). *limnic*

***Mesostoma michaelseni* Weiss, 1909:** Australia (Weiss 1909). *limnic*

***Mesostoma mutabile* Böhmig, 1902:** Argentina (Böhmig 1902). *limnic*

***Mesostoma productum* (Schmidt, 1848) Leuckart 1854:** Sumatra, Java (Reisinger 1933). Ruanda (Beauchamp 1954). Formosa (Okugawa 1953). Argentina. (Noreña-Janssen

1995). *limnic*

***Mesostoma zariae* Kolasa & Mead, 1989:** Nigeria (Kolasa & Mead 1989). *limnic*

***Olisthanella parva* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Olisthanella truncula* (Schmidt, 1858) von Graff, 1913:** Kenya (Young & Young 1976). *limnic*

***Phaenocora anomalocoela* Haswell, 1905:** Australia (Haswell 1905). *limnic*

***Phaenocora bresslaui* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Phaenocora chloroxanta* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Phaenocora evelinae* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Phaenocora foliacea* (Böhmig, 1914) Beauchamp, 1940:** South Africa (Marcus 1955a). Kenya (Young & Young 1976). Zaire (Marcus 1955b), Rhodesia (Weir 1969). *limnic*

***Phaenocora unipunctata* (Örsted, 1843) Graff, 1913:** Sumatra (Reisinger 1933). Argentina (Noreña-Janssen 1995). *limnic*

***Pratoplana ayorae* Ehlers & Sopott-Ehlers, 1989:** Galapagos Island (Ehlers & Sopott-Ehlers 1989). *marine*

***Rhynchomesostoma inaliensis* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Rhynchomesostoma rostratum* (Müller, 1774) Luther, 1904:** Kenya (Young & Young 1976). Formosa (Okugawa 1953). *limnic*

***Ruanis pandula* Marcus, 1952:** Brazil (Marcus 1952). *marine*

***Strongylostoma dicorhymbum* Marcus, 1946:** Brazil (Marcus 1954a). *limnic*

***Strongylostoma radiatum* (Müller, 1774) Luther 1904:** Kenya (Young & Young 1976). Sumatra (Reisinger 1933). Peru (Beauchamp 1939). *limnic*

***Yagua lutheri* du Bois-Reymond Marcus, 1958:** Peru (du Bois-Reymond Marcus 1958). *limnic*

DALYELLIOIDA

DALYELLIIDAE VON GRAFF, 1908

Among members of the order Rhabdocoela, the genus *Gieysztoria* in the family Dalyelliidae is the most prominently represented in the Gondwanian regions. Of the 40 species of dalyellids known to occur in this region, 33 are species of *Gieysztoria*. The genus *Gieysztoria* Ruebush & Hayes, 1939 includes approximately 70 species distributed world wide, but only *Gieysztoria ornata* and *Gieyzstoria rubra* can be considered cosmopolitan. The distribution of this genus shows a separation between the Northern and the Southern Hemispheres, with approximately half of the total of species distributed in the Gondwanian regions (33 species listed below). Species of the genus *Gieysztoria* occurring in the Gondwanian region have stylets with greater complexity (shape, number and kind of spines, structure and number of windows in the girdle) than those found in species from

the Laurasian regions (Luther 1955, Brusa et al. 2003), suggesting that the significant speciation events occurred after the separation of Gondwana and Laurasia.

Remarkably, the genera *Dalyellia* and *Microdalyellia* are poorly represented in the Gondwanian regions, with one and four species respectively. Both genera are well represented and distributed in Eurasia (7 species of *Dalyellia*, 45 species of *Microdalyellia*). The evolutionary steps of the Dalyellioida followed different paths in Gondwana and in Laurasia, with divergence of *Dalyellia* and *Microdalyellia* mostly occurring in Laurasia, and in more complex forms of *Gieysztoria* (mainly in the male copulatory stylets) originating in Gondwana. It is possible that the representatives of *Dalyellia* and *Microdalyellia* found in Gondwanian regions are introduced species.

***Austrodalyellia ariena* Hochberg & Cannon, 2002:** Australia (Hochberg & Cannon 2002). *limnic*

***Dalyellia obscura* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Gieysztoria (Marcusiella) thymara* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria acariaia* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria bellis* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria complicata* (Fuhrmann, 1914) Luther, 1955:** Colombia (Fuhrmann 1914). Brazil (Marcus 1946). Peru (Beauchamp 1939). *limnic*

***Gieysztoria coronae* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Gieysztoria cypris* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria donnae* Young, 1977:** Kenya (Young 1977). *limnic*

***Gieysztoria evelinae* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria expedita* (Hofsten, 1907) Luther, 1955:** Kenya (Young 1977). *limnic*

***Gieysztoria falx* Brusa, Damborenea & Noreña 2003:** Argentina (Brusa, Damborenea & Noreña 2003). *limnic*

***Gieysztoria hymanae* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria intricata* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria joannae* Young, 1977:** Kenya (Young 1977). *limnic*

***Gieysztoria kolasai* Young, 1977:** Kenya (Young 1977). *limnic*

***Gieysztoria ornata* (Hofsten, 1907) Luther, 1955:** Brazil (Marcus, 1946). *limnic*

***Gieysztoria papii* Young, 1977:** Kenya (Young 1977). *limnic*

***Gieysztoria pseudodiadema* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Gieysztoria quadrata* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Gieysztoria quadridens* (Böhmig, 1898) Luther 1955:** Tanzania (Böhmig 1898). *limnic*

***Gieysztoria quadridensoides* (Fuhrmann, 1914) Luther, 1955:** Colombia (Fuhrmann 1914). *limnic*

***Gieysztoria queenslandica* Hochberg & Cannon, 2001:** Australia (Hochberg & Cannon

2001). *limnic*

***Gieysztoria rastafariae* Therriault & Kolasa, 1999:** Jamaica (Therriault & Kolasa 1999). *limnic*/*brackish*

***Gieysztoria reggae* Therriault & Kolasa, 1999:** Jamaica, Papua New Guinea (Therriault & Kolasa 1999). *limnic*/*brackish*

***Gieysztoria rubra* (Fuhrmann, 1894) Luther, 1955:** Kenya (Young 1977). *limnic*

***Gieysztoria saganae* Young, 1977:** Kenya (Young 1977). *limnic*

***Gieysztoria santafeensis* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Gieysztoria superba* Hartenstein & Dwine, 2000:** Australia (Hertenstein & Dwine 2000). *limnic*

***Gieysztoria therapaina* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria thienemanni* (Reisinger, 1933) Luther, 1955:** Java (Reisinger 1933). *limnic*

***Gieysztoria tigrensis* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Gieysztoria tridesma* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria trisolena* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria uncia* (Marcus, 1946) Luther, 1955:** Brazil (Marcus 1946). *limnic*

***Gieysztoria variata* Noreña-Janssen, 1995:** Argentina (Noreña-Janssen 1995). *limnic*

***Microdalyellia fairchildi* (von Graff, 1911) Gieysztor, 1938:** Argentina (Noreña-Janssen 1995). *limnic*

***Microdalyellia incerta* (Böhmig, 1902) Marcus, 1946:** Argentina (Böhmig 1902). *limnic*

***Microdalyellia kenyae* Young, 1977:** Kenya (Young 1977). *limnic*

***Microdalyellia sawayai* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Sergia mancala* Marcus & Du Bois-Reymond Marcus, 1957:** Zaire (Marcus & Du Bois-Reymond Marcus 1957). *limnic*

***Vaillantiella caribumba* Marcus & Du Bois-Reymond Marcus, 1957:** Zaire (Marcus & Du Bois-Reymond Marcus 1957). *limnic*

GRAFFILLIDAE VON GRAFF, 1908

***Nygulgus evelinae* Marcus, 1954:** Brazil (Marcus 1954). *brackish*/*marine*

LURIDAE STERRER & RIEGER, 1990

***Luriculus australiensis* Faubel, Rohde & Watson, 1994:** Australia (Faubel, Rohde & Watson 1994). *marine*

***Lurus evelinae* Marcus, 1950:** Brazil (Marcus 1950). *marine*

***Luriculus tyndareus* (Sterrer & Rieger, 1990) Faubel, Rohde & Watson, 1994:** Fiji (Sterrer & Rieger 1990). *marine*

PROVORTICIDAE BEKLEMISCHEV, 1927

***Baicalellia evelinae* Marcus, 1946:** Brazil (Marcus 1946). *limnic*

***Daelja secuta* Marcus, 1951:** Brazil (Marcus 1951). *brackish*
***Kalyla gabriellae* Marcus, 1951:** Brazil (Marcus 1951). *marine*
***Pogaina evelinae* (Marcus, 1954) Karling 1986:** Brazil (Marcus 1954a). *marine*
***Pogaina suslica* (Marcus, 1951) Marcus, 1954:** Brazil (Marcus 1951). *marine*
***Pogaina tifa* Marcus, 1954:** Brazil (Marcus 1954a). *marine*

Conclusions

With the exception of clearly cosmopolitan species such as *Catenula lemnae*, *Mesostoma ehrenbergi* and *Gyratrix hermaphroditus*, the distribution of the species reported in this study lies exclusively within the Gondwandian zoogeographical regions. In addition, there appears to be an imbalance of species within certain families. The family Stenostomidae is well represented with 39 species, while other families like Chordariidae (Marcus 1945a) only consist of four species. The studies carried out by Dr. Ernesto Marcus in Brazil during the 1940s and 1950s show that southern microturbellaria tend to be evenly distributed among various aquatic environments. In contrast, a majority of northern-region microturbellarians are marine species.

It is possible that the taxonomy of free-living Platyhelminthes has been studied to a lesser degree in southern regions than in northern regions for the following reasons: research areas are often in remote, hard-to-reach regions, and there is a lack of taxonomists specializing in the study of limnic areas. Nevertheless, the southern regions should be of great interest to taxonomist due to the presence of species that differ from those in the Nearctic and Palearctic, the high level of endemism, and the greater level of morphological complexity (e.g. the stylet in the genus *Gieysztoria*, cerebral ganglion in the genus *Stenostomum*).

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Ax, P. (1953b) *Proxenetes falcatus* nov. spec. (Turbellaria Neorhabdocoela) aus dem Mesopsammal der Ostsee und der Mittelmeerküste. *Kieler Meeresforschung*, 9, 238-240.

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