

Biogeography of Millipede Families, arranged by Order

Many of the 146 currently recognized millipede families (Shelley, 2003) have a restricted (known) distribution. After a specimen has been identified to order, numerous families can be eliminated from consideration based on the geographic origin of the respective specimen. Development of a comprehensive key to all millipede families is currently beyond the scope of this project, since many millipede families are not clearly defined on the basis of apomorphic (or at least on a unique combination of plesiomorphic) characters. Geographic names in quotation marks refer to areas in the sense of previous boundaries, usually before 1990.

Biogeography of Callipodid Families

Order	Family	Distribution	Details
Callipodida	Abacionidae	North America	E USA: from New York, Michigan & Minnesota to southern peninsula Florida, Gulf Coast; México: vicinity of Monterey and Nuevo Leon
Callipodida	Callipodidae	Europe	France, Italy, Corsica, Sardinia, Sicily
Callipodida	Caspiopetalidae	Asia	Iran, Pakistan, southern former Soviet Union
Callipodida	Dorypetalidae	Europe	Spain, Portugal, Balkans/Greece, Turkey
Callipodida	Paracortinidae	Asia	China, Yunnan Province
Callipodida	Schizopetalidae	North America, Asia, Europe	SW USA from central California & SW Utah to México (Sinaloa & Baja California Sur); coastal SE Texas; S China & N Vietnam, Italy-Palestine
Callipodida	Sinocallipodidae	Asia	China, cave in Yunnan Province (depigmented specimens); Laos (pigmented epigeal specimens)

Biogeography of Chordeumatid Families

Order	Family	Distribution	Details
Chordeumatida	Adriylidae	North America	USA: Montana, Wyoming, and Utah
Chordeumatida	Altajellidae	Asia	Russia (Siberia), Kirghizia
Chordeumatida	Anthroleucosomatidae	Europe/ Asia	Spain, S France, Balkans & E Mediterrean, Caucasus & S Russia (?Armenia,Azerbaijan,Georgia); Iran
Chordeumatida	Apterouridae	North America	USA: Known only from single sp. & gen. from Cajon Pass, San Bernardino Co., California.
Chordeumatida	Attemsiidae	Europe	Austrian Alps to "Yugoslavia" as of 1990
Chordeumatida	Biokoviellidae	Europe	Slovenia
Chordeumatida	Brachychaeteumatidae	Europe	W Europe, Hungary, Romania, "Yugoslavia" as of 1990
Chordeumatida	Branneriidae	North America	USA: eastern Tennessee - northern Florida and southern Mississippi.
Chordeumatida	Caseyidae	North America, Asia	USA/CAN: S Alaska-Labrador/Newfoundland to S New York-North Dakota, N New México & Utah, S California; Far Eastern Russia (Kamchatka, Kurile Islands, Sakhalin, Khabarovsk and Maritime Provinces
Chordeumatida	Chamaesomatidae	Europe	France and Pyrenees

Order	Family	Distribution	Details
Chordeumatida	Chordeumatidae	Europe	Europe from France to Balkans
Chordeumatida	Cleidogonidae	North/Central America	USA: Connecticut and Illinois to central Florida and Panamá, absent from eastern Texas
Chordeumatida	Conotylidae	Asia, North/Central America	Japan (Hokkaido); Russian Far East; USA/CAN: Washington/Alberta/Gaspe Peninsula, Quebec to central California; Virginia; México: Chihuahua/?Querétaro
Chordeumatida	Craspedosomatidae	Europe	France and Austria to Italy and Greece, Elba Island
Chordeumatida	Diplomaragnidae	Asia	Russia (Ural Mountains to Sakhalin I.& Kurile Islands.), Mongolia, Korea, Japan, Taiwan
Chordeumatida	Entomobielziidae	Europe/Asia	Romania to Kirghizia and Iran
Chordeumatida	Eudigonidae	South America	central Chile
Chordeumatida	Faginidae	Europe	Bosnia-Herzegovina
Chordeumatida	Golovatchiidae	Asia	Russian Far East, Khabarovsk Province
Chordeumatida	Haaseidae	Europe	Czech Republic and W Alps to "Yugoslavia"
Chordeumatida	Haasiidae	Europe	"Yugoslavia" as of 1990
Chordeumatida	Haplobainosomatidae	Europe	Iberian Peninsula (Spain, Portugal)
Chordeumatida	Heterochordeumatidae	Asia	Myanmar to Indonesia (Sumatra & Mentawai Islands)
Chordeumatida	Heterolatzeliidae	Europe	"Yugoslavia" as of 1990
Chordeumatida	Hoffmaneumatidae	Asia	Russian Far East (Maritime Province), Japan
Chordeumatida	Kashmireumatidae	Asia	India (Kashmir), Nepal, Vietnam
Chordeumatida	Lankasomatidae	Asia	Sri Lanka

Order	Family	Distribution	Details
Chordeumatida	Lusitaniosomatidae	Europe	Portugal
Chordeumatida	Macrochaeteumatidae	Asia	Japan
Chordeumatida	Mastigophorophyllidae		
Chordeumatida	Megalotylidae	Asia	Russian Far East; China, Nepal, Thailand, Vietnam, Myanmar
Chordeumatida	Metopidiotrichidae	Asia, Australia, Oceania	Japan, Philippines (Palawan), Vietnam, Indonesia (Sumbawa), New Guinea, Bismarck Islands, Australia (Queensland, Tasmania), New Zealand
Chordeumatida	Microlympiidae	North America	USA: Washington State
Chordeumatida	Neoatractosomatidae	Europe	Alps, Italy, "Yugoslavia" as of 1990, Corsica
Chordeumatida	Niponiosomatidae	Asia	Japan
Chordeumatida	Opisthocheiridae	Europe	France and Spain
Chordeumatida	Origmatogonidae	Europe/Northern Africa	Spain and Morocco
Chordeumatida	Peterjohnsiidae	Australia	Australia (Queensland, Tasmania)
Chordeumatida	Pygmaeosomatidae	Asia	SW India
Chordeumatida	Rhiscosomididae	North America	Pacific Coast of W USA/CAN: from Vancouver Island, British Columbia, to Monterey Peninsula of California
Chordeumatida	Schedotrigonidae		
Chordeumatida	Speophilosomatidae	Asia	Japan

Order	Family	Distribution	Details
Chordeumatida	Striariidae	North America	USA/CAN: British Columbia & Idaho to California; eastern United States (Maryland, Virginia, North Carolina, Georgia, Kentucky, Tennessee, Indiana) primarily in mountains
Chordeumatida	Tinguipidae	North America	USA: Western Virginia to North Carolina; caves in Illinois to Arkansas; Utah, S Arizona, N coastal Oregon to E central California; NW Colorado.
Chordeumatida	Trachygonidae	Europe	Austria to "Yugoslavia" as of 1990
Chordeumatida	Trichopetalidae	North America	USA/CAN: Newfoundland & Ontario to N Georgia & Alabama, Oklahoma & Missouri, with disjunct genus in caves in México: San Luis Potosi/Querétaro
Chordeumatida	Urochordeumatidae	North America	USA: Washington (Pierce and King Counties)
Chordeumatida	Vandeleumatidae	Europe	France and Spain
Chordeumatida	Verhoeffiidae	Europe	Northern Italy, W & S Austria, adjacent "Yugoslavia" (?Slovenia, Croatia)

Biogeography of Glomerid and Glomeridesmid Families

Order	Family	Distribution	Details
Glomerida	Glomeridae	Europe, North/Central America	S & W Europe; SE Asia; SE USA: California to Guatemala
Glomerida	Glomeridellidae	Europe	S central Europe (France, S Germany, Italy, Balkans, Turkey)
Glomerida	Doderiidae	Europe/Africa	S Europe (Spain to Caucasus, Turkey) north Africa
Glomeridesmida	Glomeridesmidae	Central/South America, Asia	West Indies; México-Ecuador; S India, Sri Lanka; Sumatra, "Indochina," Indonesia, New Ireland

Biogeography of Julid Families

Order	Family	Distribution	Details
Julida	Aprosphylosomatidae	North America	known only from a single male from Oregon Caves Nat. Mon., Josephine Co., Oregon, USA
Julida	Blaniulidae	West Palearctic	Macaronesian Islands-Iran; Eastern US from Illinois/Indiana - Florida; introduced to Hawaii, S Africa
Julida	Chelojulidae	North America	USA: Idaho
Julida	Galliobatidae	Europe	southern France
Julida	Julidae		Palearctic region from Pacific-Atlantic, Mediterranean Region of Africa; introduced across North America, Hawaii, S Africa & Australia

Order	Family	Distribution	Details
Julida	Mongoliulidae	Asia	East Asia, China, Far Eastern Russia, Korea, Japan
Julida	Nemasomatidae	Asia, North America	Korea, Japan, China, Kazakhstan, Kirghizia; Europe, Turkey, Caucasus; Russia (Siberia, Russia Far East, Kurile Islands); USA/CAN: Illinois-Florida, Alberta/British Columbia-Utah & California
Julida	Okeanobatidae	Asia, North America	Japan, E USA: Virginia, Tennessee, North Carolina
Julida	Paeromopodidae	North America	USA: Montana to California
Julida	Parajulidae	North America/Asia	USA/CAN: from Yukon & Alaska to Guatemala, eastward to Atlantic Ocean; Russian Far East, Japan
Julida	Pseudonemasomatidae	Asia	Japan
Julida	Rhopaloiulidae	Europe	central Italy
Julida	Telsonemasomatidae	North America	USA: Oregon
Julida	Trichoblaniulidae	Europe	S France, NE Spain, NW Italy including Sardinia
Julida	Trichonemasomatidae	Europe	Greece
Julida	Zosteractinidae	North America	E USA: Missouri, Illinois, Tennessee, North Carolina, Alabama

Biogeography of Penicillata Families

Order	Family	Distribution	Details
Penicellata	Hypogxenidae	South America	Argentina
Penicellata	Lophoproctidae	SH	largely southern hemisphere with a few species in southern Europe and Caribbean
Penicellata	Polyxenidae	worldwide	North America, Europe, Africa, South America, Madagascar & Indian Ocean Islands, India, Japan, East Indies, Australia, New Zealand
Penicellata	Synxenidae	Africa	Africa

Biogeography of Platydesmid Families

Order	Family	Distribution	Details
Platydesmida	Andrognathidae	North America, Asia, Europe	USA: Virginia, Illinois, Kansas-Louisiana, N Florida; Idaho, Oregon & California; China, Japan & Okinawa; Italy, Greece, Portugal
Platydesmida	Platydesmidae	Central America	México to Panamá

Biogeography of Polydesmid Families

Order	Family	Distribution	Details
Polydesmida	Ammodesmidae	Africa	Liberia, Tanzania
Polydesmida	Aphelidesmidae	Central/South America	México to Peru, Brazil, Guyana; Trinidad & Tobago
Polydesmida	Campodesmidae	Africa	Coastal, tropical west Africa, Guinea to Nigeria
Polydesmida	Chelodesmidae		West Indies (Cuba-Puerto Rico); México (Veracruz) to Argentina; Spain; W Africa (Guinea to Angola); W Africa (Kenya to Tanzania)
Polydesmida	Cryptodesmidae	Central/South America, Africa, Australia, Oceania	México-Argentina; Africa (Sierra Leone-Angola, Uganda); India/Sri Lanka-New Guinea; Philippines (Palawan), Japan, China
Polydesmida	Cyrtodesmidae	Central/South America	Costa Rica and Trinidad to Peru
Polydesmida	Dalodesmidae	Southern Hemisphere	Chile to S Brazil; South Africa & Mozambique; Madagascar/Malagasy Is.; S & E Australia (incl. Tasmania); New Zealand; New Caledonia, Loyalty Islands
Polydesmida	Doratodesmidae	Asia	Thailand to New Guinea, Japan
Polydesmida	Dorsoporidae	Central America	Panamá (Former Canal Zone)

Order	Family	Distribution	Details
Polydesmida	Eurymerodesmidae	North America	S, central & SE USA: NE Nebraska, central Missouri, Illinois & SE North Carolina to N Florida, Rio Grande(river?), and west to central plains of Kansas & Edwards Plateau of Texas
Polydesmida	Euryuridae	North America, ?Europe, Africa?	USA: Minnesota, Wisconsin, Indiana, Ohio & W Pennsylvania to S Louisiana and N Florida. Mediterranean, N Africa, Turkey
Polydesmida	Fuhrmannodesmidae	Central/South America, Africa, Asia	Guatemala, Haiti to Brazil; Liberia-Angola, Tanzania, Kenya; Nepal, Bhutan, India, Sri Lanka
Polydesmida	Gomphodesmidae	Africa	Senegal, Cape Verde, to Ethiopia to South Africa (Cape Province); usually in savanna habitats
Polydesmida	Haplodesmidae	worldwide tropics	Indonesia: Java, Sumatra; UK; Japan; Ecuador (incl. Galapagos Isl.); scattered islands across the world (introduced); Tanzania; India, USA: Florida, Louisiana; Brazil, Panamá
Polydesmida	Holistophallidae	Central America	central México to Honduras and El Salvador
Polydesmida	Macrosternodesmidae	North America, Europe	CAN: Newfoundland; E USA: Indiana, Ohio to North Carolina, Georgia (exact range unknown); W Europe, Yugoslavia
Polydesmida	Nearctodesmidae	North/Central America	USA/CAN: Pacific Coast from N British Columbia to San Francisco Bay & S California to Baja California (México) to Montana, caves in S Illinois; México: Michoacan & Jalisco
Polydesmida	Oniscodesmidae	Central/South America	México to Brazil and Argentina

Order	Family	Distribution	Details
Polydesmida	Opisotretidae	Asia	Nepal, Bhutan; "Indochina" to New Guinea
Polydesmida	Oxydesmidae	Africa	sub-Saharan Africa: from Sierra Leone to Eritrea & Socotra Island (Yemen), south to Angola and Mozambique, especially in rainforests
Polydesmida	Paradoxosomatidae	worldwide	native to all continents except North America (5 spp. introduced, one occurring continent-wide); introduced to islands worldwide
Polydesmida	Platyrhacidae	Central/South America, Caribbean, Asia	Costa Rica to Peru, Brazil; Hispaniola, Guadalupe, St.Lucia; SE Asia: Myanmar to New Guinea; Philippines
Polydesmida	Polydesmidae	generally Holarctic with minimal occurrence in SE Asia	USA: California to Baja California (México), to Wyoming, New México, Texas; US E of Plains, S Canada; India, Afghanistan, Thailand, SE China, Japan, Korea, Taiwan; Indonesia: Java; New Ireland
Polydesmida	Pygrodesmidae	circumtropical	SE USA: Texas to Brazil; West Indies; Hawaii; tropical Africa; India, China, Japan, East Indies; many Pacific Islands; New Caledonia
Polydesmida	Rhachodesmidae	Central America	N México to Costa Rica
Polydesmida	Sphaeriodesmidae	North/Central America, Caribbean	USA: Kentucky and SW Missouri to Florida Panhandle & Costa Rica; Hispaniola; Jamaica
Polydesmida	Trichopolydesmidae	Europe	France, Sardinia, Hungary to Romania,

Order	Family	Distribution	Details
Polydesmida	Tridontomidae	Central America	Guatemala

Polydesmida	Vaalogonopodidae	Africa	South Africa, Madagascar
Polydesmida	Xystodesmidae	North/Central America, Asia	E Asia: China, Japan & Ryukyu, Korea, Far Eastern Russia; USA/CAN: S Alaska & S Quebec to Florida and to El Salvador); ?Mediterranean, Turkey

Biogeography of Polyzoniid Families

Order	Family	Distribution	Details
Polyzoniida	Hirudisomatidae	North/Central America, Europe, Asia	USA/CAN: SW British Columbia to central & E California; Tennessee, North Carolina, South Carolina, Georgia, Alabama; México: Veracruz; Japan; Spain, Italy, Yugoslavia, Greece, Turkey, Caucasus; Nepal/Himalayas
Polyzoniida	Polyzoniidae	Holarctic	Oregon & California; E US & Ontario-Quebec, Can; SE UK & France, S Scandinavia & E Europe, 4 areas in Siberia & E Russia
Polyzoniida	Siphonotidae	South America, Asia	Brazil to -Chile; S Africa; SE Asia & Indonesia; New Zealand; one sp. widely introduced on islands in Caribbean, Pacific & Indian Oceans

Biogeography of Siphoniulid, Siphonocryptid, Siphonophorid, Sphaerotheriid and Stemmiulid Families

Order	Family	Distribution	Details
Siphoniulida	Siphoniulidae	Central America/Asia	México: Chiapas; Guatemala: Tikal; Sumatra
Siphonocryptida	Siphonocryptidae	Asia	Malaysia: Malaya Peninsular; Indonesia: Sumatra; Canary Islands; Madeira
Siphonophorida	Siphonophoridae	North/South America, Asia, Australia	USA: S California, S Arizona, & S central Texas to Brazil, Peru; West Indies; SE Asia, East Indies; Australia
Siphonophorida	Siphonorhinidae	North America, Asia	USA: California (San Benito co); India & Himalayas; "Indochina;" Indonesia, South Africa (<i>Nematozonium</i>)
Sphaerotheriida	Sphaerotheriidae	Africa, Asia, Australia	South Africa; Madagascar; India, Sri Lanka; Australia; New Zealand
Sphaerotheriida	Zephroniidae	Asia	SE Asia: Nepal and E India (?Assam); China to Borneo, Moluccas, & Sunda Islands; Philippines
Stemmiulida	Stemmiulidae	Central America, Africa, Asia	México-Panamá, Greater & Lesser Antilles, central Africa; India; New Guinea

Biogeography of Spirobold Families

Order	Family	Distribution	Details
Spirobolida	Hoffmanobolidae	North America	México: Oaxaca
Spirobolida	Allopocockiidae	North/Central America	USA: extreme southern Texas to El Salvador
Spirobolida	Atopetholidae	North/Central America	SW USA and México; California (Santa Barbara), SW Utah, S Texas to Guatemala
Spirobolida	Floridobolidae	North America	USA: Florida, endemic to Lake Wales Ridge, Highlands & Polk cos.
Spirobolida	Messicobolidae	Central America	N México: Nuevo Leon, to El Salvador
Spirobolida	Pachybolidae	Africa, Asia	central S Africa; Madagascar; India, Sri Lanka to Borneo
Spirobolida	Pseudospirobolellidae	Asia/Oceania	Thailand; one species widespread on Pacific Islands
Spirobolida	Rhinocricidae	Caribbean, Central/South America, Asia, Oceania	West Indies; S México to Argentina & Brazil; Philippines; East Indies & Australia; Fiji
Spirobolida	Spirobolellidae	Caribbean, Central/South America, Asia, Oceania	Greater Antilles (excluding Jamaica); Panamá; N South America; East Indies, Pacific Islands, E Australia

Order	Family	Distribution	Details
Spirobolida	Spirobolidae	North America/Asia	USA/CAN: Quebec to Florida, E NE-E Texas, S Washington & SW Utah to Baja California (México) & Guatemala; China; Taiwan
Spirobolida	Trigoniulidae	Asia, Australia	India to Australia; Solomon Islands; two spp. widely introduced by commerce pantropically onto islands throughout world
Spirobolida	Typhlobolellidae	Central America	E and central México: Tamaulipas, Morelos, Puebla, Veracruz

Biogeography of Spirostreptid Families

Order	Family	Distribution	Details
Spirostreptida	Adiaphorostreptidae	Asia	western coast of peninsular India
Spirostreptida	Atopogestidae	Africa	Africa: Democratic Republic of the Congo
Spirostreptida	Cambalidae	North/Central America, Australia	USA: Washington & Idaho to California; Ohio & Indiana to Texas & Florida; Colorado; México, Belize; Hawaii, New Zealand, ?eastern Australia, Chile
Spirostreptida	Cambalospidae	Asia, Oceania	India & China to Java, Ryukyu Islands, islands in Indian and Pacific oceans
Spirostreptida	Choctellidae	North America	USA: central Tennessee to N Alabama
Spirostreptida	Glyphiulidae	Asia	China and Hong Kong, N Thailand, Vietnam, Ryukyu Islands, 1 sp. widely introduced on islands in Pacific & Indian Oceans
Spirostreptida	Harpagophoridae	Africa, Asia	S & E Africa; India, Sri Lanka, Nepal to Borneo; Philippines, SW China
Spirostreptida	Iulomorphidae	Africa, Australia	South Africa, Australia and Tasmania
Spirostreptida	Odontopygidae	Africa	Tropical Africa, from Chad and Sudan to South Africa; usually dry, savanna areas
Spirostreptida	Pericambalidae	Asia	S China and N Vietnam
Spirostreptida	Pseudonannolenidae	Caribbean, South America	Hispaniola, West Indies (except Jamaica); Colombia to Argentina
Spirostreptida	Spirostreptidae	Americas, Africa	SW USA: Arizona to Oklahoma, to Argentina, Chile; Africa except Sahara region; Madagascar; Israel, SW Arabia