

Composition and distribution of the family Issidae (Hemiptera, Fulgoroidea)

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According to recent changes in taxonomy of the Fulgoroidea the family Issidae Spinola, 1839 comprises only nominative subfamily with 4 tribes: Issini Spinola, Hemisphaeriini Melichar, Parahiraciini Cheng & Yang, Colpopterini Gnezdilov (Gnezdilov, 2008a, 2009a). Caliscelidae Amyot & Serville and Acanaloniidae Amyot & Serville were upgraded from the subfamilies in the Issidae (Fennah, 1954) to families (Emeljanov, 1999). Several groups were transferred from the Issidae to other families as follows: Trienopinae Fennah – to Tropiduchidae Stål (Gnezdilov, 2007), Tonginae Kirkaldy – to Nogodinidae Melichar (Gnezdilov, 2007), Adenissini Dlabola – to Caliscelidae (Gnezdilov & Wilson, 2006; Gnezdilov, 2008b). New subfamily was erected in the family Ricaniidae Amyot & Serville to accommodate the genus *Pharsalus* Melichar (Gnezdilov, 2009b).

Issidae is worldwide distributed group with 973 extant species in 155 genera. The largest tribe Issini comprises 121 genera with 733 species, it is known from all zoogeographic regions. The tribe Hemisphaeriini with 166 species in 12 genera and the tribe Parahiraciini with 26 species in 12 genera both are known from Southeastern part of Palaearctic Region and Oriental Region. The tribe Colpopterini with 46 species in 8 genera is distributed in Neotropic and Oriental Regions.

The system of the family is not stable yet, phylogenetic analysis is in progress.

Regional faunas: Palaearctic – 59 genera, 422 species; Oriental – 58 genera, 307 species; Neotropic – 30 genera, 166 species; Nearctic – 8 genera, 18 species; Afrotropic – 6 genera, 17 species; Australasian – 5 genera, 17 species.

Western Palaearctic issid fauna is best known regional fauna (Gnezdilov et al., 2009), it comprises 48 genera with 399 species. Eastern Palaearctic fauna is poorly known, just 11 genera with 23 species are recorded from the region. In Nearctic Region the issids are known only from its south (Southern US states and Northern Mexico). Issidae are absent in several areas: on small islands of Oceania where issid-like Tongini (Nogodinidae) are distributed, excluding Fiji with one issid species (Fennah, 1950; Wilson, 2009); Southern Africa and Madagascar with neighbouring islands except Reunion with two adventive Oriental issid species (Gnezdilov, 2009a). In Southern African dry biotopes Issidae are replaced by issid-like submacropterous and subbrachypterous Nogodinidae (Mythimnini Fennah) and Tropiduchidae (Gaetuliini Fennah). Issid fauna of Tropical Africa is almost unknown. Australian fauna is still undescribed, currently 12 species in 5 genera are known from the whole continent (Gnezdilov & Fletcher, 2010).

Acknowledgements

The study was financially supported by the Russian Foundation for Basic Research (08-04-00134).

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