**Supp. file 2.** Data matrix for the cladistic analyses (“**-**” codes for inapplicable data; “?” for unavailable). <https://doi.org/10.5852/ejt.2021.773.1517.5135>

**1 2 3 4 5 6**

**12345678901234567890123456789012345678901234567890123456789012**

*Metacnephia* *bilineata* 01-000100010-011101110110--0-01000111001020101--11111101000100

*S*. (*Afrosimulium*) *gariepense* 01-011100010-011101110110--10010111000010111011111111100-00100

*S*. (*Anasolen*) *kauntzeum* 01-0111101010011101110110--0-010101101010011021011112110111001

S. (*Anasolen*) *masabae* 01-01111010100111011120-0--0-010101101010011021011112110111001

S. (*Anasolen*) *ngabogei* 01-0111101010011101112110--0-0101011010101??021011112110111001

S. (*Anasolen*) *nili* 01-01111010100111011120-0--0-010101101010110021011112100111001

*S*. (*Anasolen*) *dentulosum* 01-01111010100111011120-0--0-010101101010111021011112100111001

*S.* (*Aspathia*) *metallicum* 11-011110-110000101101111000-001101110100001000011111100100111

*S*. (*Byssodon*) *griseicolle* 01-010100-10-011101110110--0-001101--0010001001111111100-00101

*S*. (*Chirostilbia*) *pertinax* 01-011110012-0110111020-0--0-011111110000011020111111100100101

*S*. (*Chirostilbia*) *riograndense* 01-011110012-0110111020-0--0-011111110011211020111111110000001

*S*. (*Edwardsellum*) *damnosum* 01-011110110-011101111010--0-00010--10010201011111111100110101

*S*. (*Eusimulium*) *angustipes* aff. 01-010100010-0011011010-0--0-000111110100001002011011100101110

*S*. (*Freemanellum*) *berghei* 01-21110001110011011110-0--0-010100001010110011110100111101001

*S*. (*Freemanellum*) *debegene* 01-21110001110011011110-0--0-010100000010110011110100111101001

*S*. (*Freemanellum*) *hirsutilateris* 01-21110001110011011110-0--0-010100000010110011110100111101001

*S*. (*Freemanellum*) *manense* 01-21110001110011011110-0--0-010100000010110011110100111101001

*S*. (*Hellichiella*) *nebulosun* 01-100100010-0111011020-0--0-0100011101000010120111101?1?00110

*S*. (*Inaequalium*) *inaequale* 100011110010-0111011020-0--0-011101110100011010111111100100111

*S*. (*Lewisellum*) *neavei* 01-011110010-011101102100--11010111110100001002011111100000101

*S*. (*Meilloniellum*) *hirsutum* 01-011110010-011101102100--11010111110000001001111111100100101

*S*. (*Metomphalus*) *bovis* 01-0110-0110-011101111100--1100-101-100100-1011111111110100101

*S*. (*Nevermannia*) *ruficorne* 01-010100010-011101110100--11000101-10100001002011011100000110

*S*. (*Notolepria*) *exiguum* 01-0111101-2-0111011100-0--0-011111110000001001111111100100101

*S*. (*Pomeroyellum*) *cervicornutum* 01-011100010-011101110100--11001101100000011001111111100010111

*S*. (*Psilopelmia*) *perflavum* 100111110012-011101102111000-011111110100001020111111100100101

*S*. (*Psilozia*) *vittatum* 1000110-0012-0111011120-0--0-010111110100001022011111100100100

*S*. (*Pternaspatha*) *nigristrigatum* 01-011110-10-010101110110--0-011101110010101000111111100100101

*S*. (*Simulium*) *intermedium* 01-01111001100001011110-0--0-000111110100101000111111100100100

*S*. (*Trichodagmia*) *auricoma* 01-0010-00110100001110110--0-010101110010211020111112100101001

*S*. (*Trichodagmia*) *galloprovinciale* 01-0010-00110100001110110--0-010101110010211020111112100001001

*S*. (*Trichodagmia*) *ibericum* ?????????????100001110110--0-010101110010211020111112100101001

*S*. (*Trichodagmia*) *margaritae* 01-0110-00110100001110110--0-010?01110010211020111112100001001

*S*. (*Trichodagmia*) *ayrozai* 01-01111001101001011121010011010111--0010100010111111110101001

*S*. (*Trichodagmia*) *canadense* 01-0111100110100101112100--11010111--0010100010111111110101001

*S*. (*Trichodagmia*) *capricorne* 01-0111100110100101112100--11010111--000000?010111111110101001

*S*. (*Trichodagmia*) *larvispinosum* 01-0111100110100101112110--0-010101--0000000010111021010101001

*S*. (*Trichodagmia*) *carolinae* 01-0111100110100101112111000-01?101--000000?01011102111010?001

*S*. (*Trichodagmia*) *claricentrum* 01-0110-00110100001110100--1001010111001020002011111100010100-

*S*. (*Trichodagmia*) *innoxium* 01-0110-00110100001110100--10010101110010210020111111000101001

*S*. (*Trichodagmia*) *pictipes* 01-0110-00110100001110100--10010101110010210020111111000101001

*S*. (*Trichodagmia*) *townsendi* 1000111102111000100100111000-1-110110001001102110-111000101001

*S*. (*Trichodagmia*) *nigrimanum* 1000111102111000100100110000-1-110111001001102110-111010101001

*S*. (*Trichodagmia*) *huairayacu* 1000111102111000100100111000-1-110110001001102010-111000101001

*S*. (*Trichodagmia*) *lahillei* 1000111102111000100100111000-1-110110001001102010-111000101001

*S*. (*Trichodagmia*) *guianense* 1010110-0201000010010010101111-010110101011001110-100000111001

*S*. (*Trichodagmia*) *hirtipupa* 11-0110-0201000010010010101101-010110101011001110-100010111001

*S*. (*Trichodagmia*) *itaunense* 1010110-0201000010010010111111-010110101011001110-100000111001

*S*. (*Trichodagmia*) *orbitale* 1010010-0201000010010010111111-010110101011001110-100000111001

*S*. (*Trichodagmia*) *scutistriatum* 1010110-02011000100100111000-1-010110101011001110-100010101001

*S*. (*Trichodagmia*) *brachycladum* 0002111111111000101010111010-011101100010110010110111010-01001

*S*. (*Trichodagmia*) *cristalinum* 0002111111111000101010111010-010101100010111010110111110101001

*S*. (*Trichodagmia*) *lobatoi* 01-211100010-000101010101000-010101100010001010110012110101001

*S*. (*Trichodagmia*) *pulverulentum* 0000111111111000101010111010-01010110001011101011111111010?001

*S*. (*Trichodagmia*) *earlei* 00001111111110001010120-0--11011101100010111020110012110101001

*S*. (*Trichodagmia*) *hieroglyphicum* 01-01111101110001010120-0--0-010101-10010111010110012?10?01001

*S*. (*Trichodagmia*) *bricenoi* 01-0111110111000101010111010-010101110011111020110012110101001

*S*. (*Trichodagmia*) *paynei* 01-2111110111000101010111010-010101010011101020110012110101001

*S*. (*Trichodagmia*) *rubrithorax* 01-2111110111000101010111010-010101110011111020110012110101001

*S*. (*Trichodagmia*) *virgatum* 01-2111110111000101010111010-010101010011111010110012110101001

*S*. (*Trichodagmia*) *tarsatum* 01-01111101110001010100-0--0-010101110010111020110011110101001

*S*. (*Wilhelmia*) *pseudequinum* 01-0110-0110-0111011020-0--0-00010---0010201011111111100101100

*S*. (*Xenosimulium*) *ambrositae* 01-??11111010011101110110--0-000101100010110101011100010111000

*S*. (*Xenosimulium*) *griveaudi* 01-0111111010011101110111000-00010110001011010100-100011111000

*S*. (*Xenosimulium*) *imerinae* 01-0111111010011101110110--0-00010110001011010100-100011111000

*S*. (*Xenosimulium*) *iphias* 01-0111111010011101110111000-00010110001001010100-100011111000

*S*. (*Xenosimulium*) *neireti* 01-0111111010011101110111000-000101100010110101010100011111000

*S*. *oviedoi* (Oviedoi species-group) 01-01110001100011011020-0--0-011101110010101020111111100001001

*S*. *rivasi* (Oviedoi species-group) 01-01110001100011011020-0–-0-011101110010101020111111100001001