Appendix 1. Data matrix for 71 taxa and 119 morphological characters used in the cladistic analysis of Chironominae genera.

**TAXON / CHARACTER 11111111111111111111**

 **11111111112222222222333333333344444444445555555555666666666677777777778888888888999999999900000000001111111111**

 **12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789**

*Brillia* 11111100000000100001000011120100010000000010331113101??0210100001122021210000010011110000101000000??1111101001000000001

*Aedokritus* 01100000100000101000010001000200000000001010200012100000101120111111030110010000010101000??1100100201010011000?????0000

*Anuncotendipes* 001100011000?00001220111112100010110002010132000011101?00000?1111111120210110000010111100111111111010011111010100?10100

*Apedilum* 00110100110000110100111001110001011000000012200001100011101120111121021211010001010111111112101021011011011011??0100000

*Baeotendipes* 010000000000001000000111101000010000010010121?1112100001110110111120130111111000010011000000101100000001011000000000000

*Beardius* ?110?000010000101000001010?20101011000001012?000?11000211011101111100212010000010??101011?11111120????1?000000000?00000

*Beckidia* 0011020212000000002201010122021?1000001?00130?000110112011100011112?02??111000000111110????111?1????0011111010?????0000

*Chernovskia* 00110022120000000122010001222?1?01200011100300?001?0012010?00011112?02121110101?01?11110001010010???0011111100?????0000

*Chironomus* 001000000000001000000110101000010000110010131?111210000111011011112013011?11000?01011100000000?100?00001011000001000000

*Cladopelma* 001000000200000001220100112201011100001010?301100210011110101?1111110102101100000?011110001111?10?010011111000100010100

*Cladotanytarsus* 101000001011101110000011101002010000000010103311121100?001112?111121020211?0001111000101101200101?110010011000010100000

*Claudiotendipes*  0110202001001010110001102010010101100000101220000210002110111011111?021201000001110111011111111120110010000000?????0000

*Conochironomus* 00110000010000111000000110200001010000001012200001100020001120001121030111000000011111000??010010010000?011012?0??00000

*Constempellina* ??100100102111111000?00110200201010000001010330112110001111120?11111021211110010001111022??100102??11010001212010100000

*Cryptochironomus* 10101122020000000122?111012201010110000110?30000021011211010001111210302101?0000000111000010110100000011111000100010000

*Cryptotendipes* 00100010020000000122?1100122010111000000101320?0021002?000101011111102?21010000000011100001111011??10011111000100010110

*Demeijerea* 010000100000000000010110112000010000100010130101011000201101201111210301111000110101110000?0100100000001011000000000000

*Demicryptochironomus* 00121022020000000122011021210001010?000110130101021000001011201111210?02111100000?011100001010110?010011111000100010100

*Dicrotendipes* 11000010000000100000011010100001010?0000101301?1021000?11101101111?102021111000100011100001010110011001?011000001000000

*Einfeldia* 000000000000001000000110201000010000100010131?1102100001110120111120130111110001010111000000110100100001011000001000000

*Endochironomus* 10100000100000101000102010?00001010000001013201101100021010120001121030100000010010001000000110101?00001000000000000001

*Endotribelos* 101000000000001010001010101001010?000000101220?00?10002110111011111?0212110000100100?1000?101?0101000001000000000000000

*Fissimentum* 1111010001000011000000000112021101000000000320000210000120112011112102111100001101011101111210110110000101101?0?0?00000

*Fleuria* 001000000000001000000110101000010000010010131211021000011100001111211301111100000?111100000010?100010001011001000000000

Gen A 001000000000010100000010011200010100?0001013200102?00011200120111110031201010011010001110111110011001011011000000100000

*Glyptotendipes* 111000000000001000000120101000010100?00010131101?1100000110120111121030211110011110111000000100100000001011000001000000

*Goeldichironomus* 011000000000001000000110101011010000100010121011011000001101201111210302?01?00010?00110000011011000000110110000000?0000

*Harnischia* 1010102102000000012201110122010101100010101320000110010010100011112102121010000100011110001110?10??00011111000100011100

*Harrisius* 00100010100100100022000001220011010100010?02300000100010000110111120011111000011110101000??10??100?00011010??000?0?0000

*Imparipecten* 111101200000000110010010001100010100000000132000011000112010101111110200110000110101010101001011111000010110000?0?00000

*Kiefferulus* 11000000000000100000011100101001000000001013110101100011110020111121030211110010000111000000100100??0001011000001000000

*Kloosia* ??1120?212000011????0??10012000101?0000010132010?210110020010011111?01021110000?1101110000111011??0?0011011010?????0000

*Lauterborniella* 10110100010100111000001?10200201010100001011201120000020110110111121010211000011110101011111111121100011011011000000000

*Lithotanytarsus* ??10010000111011100000001020020101100000000033011111001001?10000003?00120110?010000001000??200102??11010001212?????0000

*Microchironomus* 00100?10120000000122010011220101110000001013010?0110011010001011111402021?1?000000011110001111110??10011111010100010110

*Micropsectra* ??100000002111111000?010001002010?1000001010330?11110010010121111121020211010010110??1122??100002??01010001200010100000

*Microtendipes* 10110?0001000010000001101010010101?000000102200101100011111120111121021201000011111111011011110101?00010011000000100000

Appendix 1, continued. Data matrix for 70 taxa and 119 morphological characters used in the cladistic analysis of Chironominae genera.

**TAXON / CHARACTER 11111111111111111111**

 **11111111112222222222333333333344444444445555555555666666666677777777778888888888999999999900000000001111111111**

 **12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789**

*Nandeva* ??????????????????????????????????????00000???000210?02?0001000000300012110?001111010100011211101?110011000011000?00000

*Nilodosis* 11110000020000110000001001120101011000000003200?00100001201010011121031?11?00000110001000102100100???0?10??000000100000

*Nilothauma* 1?1000001?000010001200001002021101100000001220?1031000011111?01111110202?10?00010100010101?211112?1?????0?1000000100000

*Omisus* 00110100010000101000001000200101010000001011201113100021110110111122020211000011110001011001111110100001011000000000000

*Oukuriella* 0110200001000010??00000010?2010101100000101220000110000110111011111?021211000011010101011?1211112010011?000000000?00000

*Pagastiella* 001001000200000000??0010000002010120000010122011011000011111?011112103120001001111000100011111112110001101?011000000000

*Parachironomus* 00100010000010000022?11?112000?1010000201013010102100021100?201111210302111000000?011100000110110??10011111000100010000

*Paracladopelma* 00100211020000000122?11111110101?1?0001010132100021000201011?01111?10?02111100010101111000101??10??100111110?0100010000

*Paralauterborniella* 11110100110000110100001011110001011000001012200001110011101120111111021211010001010111111112101021011011011011??0110000

*Paratanytarsus* ??100000101100111000011000?00201010000001010330?1311002001?12?1111210?02110000110101011000121110?1???000011000000000000

*Paratendipes* 0011000001000011100000001020000101100000??12200?0310002111012?1111110202110000010100?111?011001100100000010000000000000

*Phaenopsectra* 00100100100000101000001010100101010000001012201101100011110120111113021201000011010001011010?01110000011010?00000000000

*Polypedilum* 001000000000001010000010102001010100000010132011??1000?11001?01111110212000100101?100100001200012?100011001210010100000

*Pseudochironomus* 10100?101000011010000000110202000100000001012001121000011110201111240?0201000010011110000000100100100110001011000100000

*Rheomus* ????????????????????????????????????????1013201?021002?000000000010?0012101100??000?1111111011111?010011111?10?????0000

*Rheotanytarsus* 101000001021101110000110001002010?00000010103301121100000111?11111?102?2110000101100?100001200102?100010001010010100000

*Riethia* 10100100100000101000000?010202000100000001002010111000212101101111210?120100000101?10000011110010000?110?1???0000100000

*Robackia* 001110221200000001220101110202110100001?000320000210100011010011110?021211100001010111100??110011??10011111000?????0000

*Saetheriella* 00110202100000000122011011?1000101100020101320100210001010000011111?02021111000101011110001010?11?0100111110?0?????0000

*Sergentia* 00100?00000000101000001??00001010100000010122011011000111101201111130?12110000010100111?0011001100000001010001000000000

*Shangomyia* 011000201001000000220000011200110100000000043300131000100001000000300001000000110101010001121011210000110012020??0?0101

*Sigmoitendipes* ???00110100000???????????00001010100?0?01013200021100001201110111111020101010011000011110111100100?10011010000?????0000

*Skusella* 0011000001000011100000100010010101000000?012200003100020001120000031010111000011011111111??110111?1100000?1001?0??00000

*Stempellina* ??10011010111111100000010020020101000000101033001311002011?1201111010210111100101000?1011??100102??01010011212010100000

*Stempellinella* ??10010021211111100000001010020101000000101033011211002011011?1111010212111100101000?1011??200102??11010011212010100000

*Stenochironomus* 0?1000000001001010110???01220011010000000102200001100?0?0111201111210?11010000111100?11001101?1100100011010100000000000

*Stictochironomus* 000100100100001010000010101001010100000010132001121000011101201111110?1201000011000?11111011101100?000010100000000?0001

*Tanytarsus* 1010000000211?1110001011101002010?000000101033011210002001?1201111210?02110?001111000100001?01102??000000?1001010100000

*Tribelos*  111001000000001010000020001001010100000010132001021000011101201111230302010000100100?11??001100101100001010100000000000

*Xenochironomus* 011000000000000001110010011002010100000010132011021000011111001111?1030211100010010111000000100100100101010000100110000

*Xestochironomus* 0010000000010010?000?11??122??1?010000000102?000001001010001201111210111110000111100?1000110101100100011010100000000000

*Xylochironomus*  111121001100001010000010011100010100010000120000021001000110201111100112000000110100110111?1011120000001011210000110000

*Yama* 001000000000001000010110102000010000010010131011111001201001101111230200111100??010111000???1??10???00?10?????000000000

*Zavreliella* 01110100011110111000001?10201101010000001012201100000020110110111111010211010011100001011000111020?00111011212000000000