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The biodiversity of freshwater Crustaceans as revealed by taxonomy and mitochondrial DNA barcodes

Adrian Amelio Vasquez
Wayne State University, adrian.amelio.vasquez@gmail.com

Brittany L. Bonnici
Wayne State University, eh5829@wayne.edu


Donna R. Kashian
Wayne State University, dkashian@wayne.edu

Jorge Trejo-Martinez
Corozal Junior College, jtrejo@cjc.edu.bz

Carol J. Miller
Wayne State University, ab1421@wayne.edu

See next page for additional authors

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Authors

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Sequence supplement to:

The biodiversity of freshwater Crustaceans as revealed by taxonomy and mitochondrial DNA barcodes

By Adrian A. Vasquez^{1,2*}, Brittany L. Bonnici^{1,2}, Donna R. Kashian³, Jorge Trejo-Martinez⁴, Carol J. Miller¹ and Jeffrey L. Ram²

¹Healthy Urban Waters, Department of Civil and Environmental Engineering, Wayne State University, Detroit, MI 48202 USA

²Department of Physiology, Wayne State University, Detroit, MI 48201 USA

³Department of Biological Sciences, Wayne State University, Detroit, MI 48202 USA

⁴Science Department, Corozal Junior College, San Andres Road, P.O. Box 63 Corozal, Belize, Central America

Cytochrome oxidase subunit I (COI) barcode sequences in this file were obtained from specimens collected by plankton net in western Lake Erie in 2012 & 2013, along with later specimens collected at various locations and times, including some collected in Belize in 2015. Methods and other details about these sequences are described in a paper by the same authors in a submitted publication (2021: URL to be given here when published). The right columns below contain additional notes on lengths of sequences, GenBank accession ID (when obtained), and a notation as to whether the sequence represents a new barcode for its genus or species taxon. According to our experience, a DNA identity of >96.5% with previous GenBank barcodes is a reliable range for determining a species level barcode for that morphospecies; a DNA identity of 90.5% to 96.5% with previous barcodes is sufficient to identify genus. DNA identities within these ranges are considered to be "barcode confirmations." Conversely, DNA identities outside of these ranges are considered to be new barcodes for that species or genus, respectively. Contradictions with previous GenBank sequences are discussed in the manuscript. The submitted manuscript includes the highest percentage identity to a previous sequence in GenBank as determined by BLASTN in June 2021. The FASTA file name given here begins with a RamLab ID number-location and date of collection with format varying somewhat between various collections/collectors but generally including several (usually three) location letters (e.g., BHL stands for Blue Heron Lagoon) and the date usually in a 6-character format of MMDDYY, and optionally a sample number for that date either preceding the location letters or following the date. Collection location abbreviations include the following: All sequences starting with PM, Toledo Harbor in western Lake Erie; LMUSK, Lake Muskoday, Belle Isle, Detroit; SCL, Saint Clair River; BHL, Blue Heron Lagoon, Belle Isle; LE, Lake Erie; LSC, Lake St. Clair; MMLE; Metzgers Marsh, Lake Erie; MM, Metzgers Marsh; LP, Leonard Preserve, Manchester, Michigan; HR, Huron River Drive, Ypsilanti, Michigan; LCL, Little Cedar Lake, Orion, MI; HLE, Harbor Lake Erie; LHLE, Lorain Harbor Lake Erie; BZEB1P, Cenote in Shipstern Reserve, Corozal, Belize, Central America.

Sequence in FASTA format	Length	GenBank ID, when available	New barcode (as of June 2021), or confirmation
>1-4LHE05302017_Acanthocyclops americanus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial AACTTTGTATTTATTAGCTGGTCTTGAGCCGGAATAGTGGGACAGGCTAAGAATAATTATTCGTTTAGAATTAGGGCAGCCTGGTCTTTAATA GGAGATGATCAAAATTTAATGTAATTTGACGGCTCATGCTTTTATTATAATTTTTTATAGTAATGCCAATTTAATTTGGAGGGTTTGGAAACTG ATTGGTCCCTAATACTAGGATCTCCGGACATAGCATTCTCGGATAAACAACATAAGATTTTATTGATTTTATGTCAGCCCTTTATGCTTTTAAAC TAGGTCCTGGTAGAAAGTGGAGCCGGAACAGGGTGAACAGTGTATCCCCCTTAAGAAGAAATATCTCTCATGGGGTGGCTTCTGTGGATTACG CTATTTTTCTCTGATTTAGCCGGGTTTCTTCTATTTAGGGGCTGTAATTTTATTAGAATTTAGGAAATATGCGTACATTGCGTATGTTTTAG ATCGCATGCTCTATTTGCTTGGGCTGTGCTTATTACAGCAATTTACTGCTTCTTCTTACCAGTTTTAGCCGGAGCGATTACAATACTTCTAACAG ATCGAAATCTTAATACTTCGTTTTATGACCTAGGGGGGAGGAGACCAATTTTATATCAACACTGTGTT	658		Confirmation
>2-6HLE05302017_Acanthocyclops americanus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial AACTTTGTATTTATTAGCTGGTCTTGAGCCGGAATAGTGGGACAGGGCTAAGAATAATTATTCGTTTAGAATTAGGGCAGCCTGGTCTTTAAT AGGAGATGATCAAAATTTAATGTAATTTGACGGCTCATGCTTTTATTATAATTTTTTATAGTAATGCCAATTTAATTGGAGGGTTTGGAAACT GATTTGGTCCCTAATACTAGGGTCCCGGACATAGCATTCTCGAATAAATAACATAAGATTTTATTGATTTTATGTCAGCCCTTTATGCTTTTAA ACTAGTCCCTAGTAAAGTGGAGCCGGAACAGGGTGAACAGTGTATCCCCCTTAAGAAGAAATATCTCTCATGGGGTGGCTTCTGTGATTAC GCTATTTTTCTCTGATTTAGCCGGGTTTCTTCTATTTAGGGGCTGTAATTTTATTAGAATTTAGGAAATATGCGTACATTGCGTATGTTTTA GATCGCATGCTCTATTTGCTTGGGCTGTGCTTATTACAGCAATTTACTGCTTTTATCTTACCAGTTTTAGCCGGAGCGATTACAATACTTCTAAC GATCGAAATCTTAATACTTCGTTTTATGACCTAGGGGGGAGGAGACCAATTTTGTATCAACACTGTGTT	658		Confirmation
>LE090914514_Acanthocyclops americanus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCTGGNGCTTGAGCCGGATAGTGGGACAGGGCTAAGAATAATTATTCGTTTAGAATTAGGGCAGCCTGGTCTTTAATAGGAGATGATCAAAAT TATAATGTAATTTGTAACGGCTCATGCTTTTATTATAATTTTTTATAGTAATGCCAATTTAATTGGAGGGTTTGGAAACTGATTTGGTCCCTAATA CTAGGATCTCCGGACATAGCATTCTCGAATAAACAACATAAGATTTTATTGATTTTATGTCAGCCCTTTATGCTTTTAACTAGTCCCTAGTAAA AAGTGGGGCCGGAACAGGGTGAACAGTGTATCCCCCTTAAGAAGAAATATCTCTCATGGGGTGGCTTCTGTTGATTATGCGATTTTTCTCTGAT TTAGCCGGGTTTCTTCTATTTAGGGGCTGTAATTTTATAAACTTTAGGAAATATGCGTACATTGCGTATGTTTTAGATCGCATGCTCTATTT GCTTGAGTGTGCTTATTACAGCAATTTACTGCTTTTATCTTACCAGTTTTAGCCGGAGCGATTACAATACTTCTAACAGCCGAAATCTTAATACT TCGTTTTATGACCTAGGGGGTGGAGGGGACCAATTTTGTATCNACTGTTT	641		Confirmation
>5-10MM07142017_Acanthocyclops brevispinus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACACTTTATTTATTAGCTGGGCTAGGATGGTGGGACTGGGCTAATAAATGATTATTCGCTAGAGCTGGTCCAGCCAGGGTCCCTAAT GGGGGACGACAAATTTAATGTTGGTGAACGGCTCACGCTTTATTATAATTTTTTATAGTAATACCAATTTAATTGGGGGTTTGGAAAT TGACTAGTCTCTTAATATTAGGGTCTCTGACATGGCTTCTCGAATAAATAAATAAGATTTTGGTTTTAGTACCTGCTCTTTTATACATTTTAA CTAGTTCATTTGTTGAAAGGGGGCAGGTACGGGTTAACTGTTTATCTCTCTTAAAGAAGAAACGTTTCTCATGGTGGGCTCGTTGATTATG CCATTTTTCTACATCTGGCCGGGGTGTGCTATTTTAGGGGCGTAAATTTTATTAGAATTTGGGGAATATGCGTACTTTTGGAAATTTTTTG GATCGTATGCTCTTTGCTTGGGCTGTTAATACGGCAATTTACTTTTGTCTCTACCGGTTTTAGCTGGAGCCACTATGTTAATAACA GATCGTAATTTAAACACTTCGTTTTATGACCCGAGTGGAGGGGGGACCAATTTTATACCACCATTTATTT	658		New for species
>LH1006145K_Acanthocyclops robustus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GGCTTGANCGGGGAGGTGGGACGGCTGATTTAATTATTCGAGTTGAATTATGGCAGCCTGGGCTTTAATGGGAAATGACGACATTTAATAGT TATGGTTACNGCGATGCTTTGATTATGATTTTTTATANTNNAGCAATTTAATTGGGGGGTTTGGAAATGGATAGTCCGTTAATGCTAGGT TCTCTGATATGGAGTTCTCTAATAAATAGTATAANATTTGGTTTTACTTCTGCCCTTTTATGCTTTTGACAAGATCTTTGGNCAAGAGGA GCAGGGGTTGGTGAACGTTTACCCTCCTANTAAAACTATTTCTCATGGAGGGGGCCGGTGTAGACGTGGATTTTTTTCTTTCATTTACCTG GGATTTCTCATCTCTGAGCAGGAAATTTATTATTTAAGAAATTTGCAACGTTTGGAAATTTTTTNAATCTTATACCANTTTTTGCCTNAG CANGTTTAGTTCGNTANTNGCTCTNNTANNNTTACTGTGNNNGTGGAGCGACNCATGTCGCTGAC	560		New for species
>LP041615SJ_Acanthocyclops sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TGGGATAGTTGGGACAGGCCTAANAATAATTTATCGGCTGAGTTAGGTCAGCCTGGGCTCTTATAGGGGACGATCAAAATTTAATGTAATTTG AACTGCTCATGCTTTATCAATAATTTTTTATGGTTATGCCATTTCTATTGGGGGATTGGTAAATGGTTAGTCCCCCTAAAAGTCTCTGGA CATANCTTTGCTCGAATAAACAATAAAGATTTGATTTTTAGTCCCTGCTTTTTATGTTGTTAAACAAGTTCTTTTCAAAAGAGANCTGGAA CTGGGTGAACGGTCTACCTCCCTAATAAGAAATTTTCTCATGGGGGAGCTTCTGATGATTGCTATTTTTCTTCTTATTANCGGGGTTTCT TCTATTTAGGGGCGGTGAATTTTATTANNACATTTGGGAAATANGCNACTTTNGGTANATTTTTAAATCNAAGGCTTTGTTGNNNGNCCCGT ACTAATTACCAATTTNATTTATCTTTCNCCGGNTACTGGGGCTATTACAATTTGCTAAGTGANCGAAATTTAAATACTTCTTTTATNA CCCTAGGGGGGGGGAATCNGANTNATACCANTCTTATTT	628		Confirmation of genus

<p>>LP041615SH_Acanthocyclus venustoides cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCTGGAGCTTGAGCAGNNAATGGGAACAGGGCTCAGAATAATTATTCGATTAGAAATAGGGGAGCCAGGGTCTTTAATGGGGATGACCAGAT CTATAACGTTGAGTACTGCCATGCTTTTATTATGATTTTTTATAGTTATACCAATCTAATTTGGGGGGTTGGAAATGACTAGTGCCTCTAAT ACTAGGGTCTCCAGATATGGCTTTCTCCGCATAAACAATAAGATTTTGTATTTACTACCCGCTTAATATATTACTTTCTAGATCTTTGGTTGA AAGAGGAGCGGGCAGGGTGAACAGTTTTTCCACCTCTTAGAAGTAACATTTCTCATGGGGGAGCTTCTGGACTACGCTATTTTTCTTACAC CTAGCCGGAGTCTTCAATCTAGGGGCTGTAATTTTATAAACTTTGGGGAATACGCACATTCGGAATATTTTTAAACCGGATACCCCTATT TGCTGAGCTTTTTAGTAACAGCTATTTTACTGCTTTATCCCTCCTGCTTGGCCGGGGCTTACAATACTTCTAAGTACCCGAACTTAACAC ATCTTTTATGATCTAGGGGAGGGGGACCAATTTCTCTACCAACTTATTT</p>	641		New for species
<p>>HR0320155B_Acanthocyclus vernalis cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GGGAGCTTGAGCNGATAGTAGGAACAGGATTAAGAATAATTATTCCTTANAACAGGGCAACCGGGTCTTTAAGGGGATGATCAGATTTA CAATGTTATCGTACAGCAGATGCTTTTATTATAATCTTTTTATAGTTATACCTATTTTGAATGGGGGGTTGGTAACTGATTANTACCTTAATGTT AGGGTCGCCAAACATGCTTTCCCAAGTAATAATAAAATTTGATTTTTAGTACCAGCTCTTTTATACTACTAACCCAGCTTGTAGTAGAGA GAGGGGCGGGCACTGGCTGAACAGTTTATCCCCCTGANAAAAACATCTCTCATGGAGGGGCGTCACTAGATATTGCTATTTTCTCTCTCACTT AACAGGGGTTTCTGCTATCTTGGGTGCGGTAACCTTTATAAACTTTANGGAATAGCCTACGTTCCGGCATGTTTTAAATCCCATGCCATGTTTC GCATGGGCTGACTTATTACAGCTATTTTATGCTTTGNCCTTACCNGGCTAGCCGGTCACTTACTATACTTCTGACTGACCCCACTTAACAC TTCTTTTTACGATCCANGAGGGAGGGNACCAATTTATATCAACTTATTT</p>	639		New for species
<p>>LCL090914S10_Acanthocyclus vernalis cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GGGAGCATGGGAGGATAGTGGGCACAGGGTTAAGAGATAAATTATTCGTTGGAGTTAGGGCAACCGGGTCTTTAATAGGGGATGACCAAAAT TTATAATGATTTGTGACGGCAGTATCATATAAATTTTTATGTTATGCTATCTTATTGGGGGGTTGGAAATGGTATTGTTAGTTCCATTGA TGTAGTTTCTCGGATATAGCTTTTCTCGGATAAATAACATGAGGTTTTGATTTTTAGTCCCGCTTTTTATATTGCTAACTAGTTCTCTAGTAA AAGAGGTGCGAGGACTGGTGAACAGTCTATCCCTCTAAGAAAGCAATATTCTCATGAGGGGCTCAGTGGACTATGCAATTTTTCTTTGC ATTTACTGGGGTTTCTTATTTTGGGGGAGTAAATTTTATAGAATCTTGGTAATATGCGGACCTTTGGAATATTTTAAATCGGATGCTTTAT TGCTTGGGAGTAACTACCGCTATTTTGGCTTTTACCTTACTTCTGCTTGGCAGGGGCGATTACCACTTCTAACAAACCGGATCTTAAAT ACTTCTTTTTATGACCAAGAGGGGAGGGGACCAATTTGTACCAGCACTTATT</p>	641		New for species
<p>>1BZEB1P22215_Apocyclops dimorphus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GACTTTATATTTGCTAGTGGCTATGGGCTGGGATAATGGGACAGGACTGAGTATTTGATTGCTGAGTAACTAGGACAACCCGGAGCATTAT AGGGGAGCATAAATTTACAATGATTTTCCGCGCATGCTTATGATTTTTTATAAGTAACTATTTAATCGGGGATTGGTAATTT GACTAGTCCCTTAACTTGGGGTCCAGATATGGCTTCCCTCGTATGAATAATAAGATTTTGGTTTTTATTACCAGCTTTTTATATTACTTTT CAGGGCTTTGGTGGAGAGGGGCTGGCAGGATGAACAGTTTACCTCCGTTGAGAAAGAAACATCGCGCATAGGGGTTCTCCGTTGATTATG CTATTTTTCTTACACTAGCAGGATCTTCTATTTTAGGAGCAGTTAACTTTATAGAATCTTGGGCACTCTCGAACCTTGAATACATTTTG AGCGAACTCCTTTGTTGATGCTGTTTATAATTACCGCAGTCTGTTATTATTCTTGCCTGTGTTAGTGGTGAATTAATGTTATTGACAG ATCGAACTTAAATCTCTTTTACGATCCTAGGGGGGAGGAGACCTATTTTATACCAACTTATTT</p>	658		New for genus
<p>>1PMV07021251_Bosmina sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial ATATTTGTTTTGGGGTCTGATCGGGCATGGTGGTACTGCACTTGAATGCTTATCCGATTGAGCTGGGTCAAGCCGGTAGTCTTATTGGCGA CGACCAGATTTACAATGTTATTGTAAGTCTCATGCTTTTATTATGATTTTTTATGTTATACCAATATAAATGGAGGCTTCGGAAATGGTTAGT CCCTTAAATGTTAGGGGCTCGGACATAGCTTTCCCGGATTAATAAATTTAAGTTTCTGCTTCTCCCTCCAGCGTTAACACTTCTTCAATTGGAGG GGCTGTAGAGAGAGGGGCTGTACCGGTTGACGGTGTATCCACTCTCTGTCAGGACTAGGTACGCGGGGCTCAGTGCAGCTTAAAGATTT TTTTCTCCATTTAGCAGGTGATCCTTATTTAGGGGCGTCAATTTTATTACTACTATCAATATAACGGGGGGAAGGTCTGCTGTTAGACCGG ATTACCTTTTGGTTGAGCTGTAGGAATACAGCAGCTTTTACTTCTTACTGTTACCTGACTAGCAGGAGCTATTACTATGCTCCTGACCGATCGA AATTTAAATCTCTTCTCGATCCAGCGGGGAGGGGATCCCATTTATATCAACTTGTTT</p>	652		Contradiction
<p>>1PMV07021252_Bosmina sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial ATATTTGTTTTGGGGTCTGATCGGGCATGGTGGTACTGCACTTGAATGCTTATCCGATTGAGCTGGGTCAAGCCGGTAGTCTTATTGGCGA GACCAGATTTACAATGTTATTGTAAGTCTCATGCTTTTATTATGATTTTTTATGTTTATACCAATATAAATGGAGGCTTCGGAAATGGTTAGT CCTTTAAATGTTAGGGGCTCGGACATAGCTTTCCCGGATTAATAAATTTAAGTTTCTGCTTCTCCCTCCAGCGTTAACACTTCTTCAATTGGAGG GGCTGTAGAGAGAGGGGCTGTGATCCGTTGACCGGTTATCCACTCTCTGTCAGGACTAGGTACGCGGGGCTCAGTGCAGCTTAAAGATTT TTTTCTCCATTTAGCAGGTGATCCTTATTTAGGGGCGTCAATTTTATTACTACTATCAATATAACGGGGGGAAGGTCTGCTGTTAGACCGG ATTACCTTTTGGTTGAGCTGTAGGAATACAGCAGCTTTTACTTCTTACTGTTACCTGACTAGCAGGAGCTATTACTATGCTCCTGACCGATCGA AATTTAAATCTCTTCTCGATCCAGCGGGGAGGGGATCCCATTTATATCAACTTGTTT</p>	652		Contradiction
<p>>2PMU05301256_Calanoida sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TGCTGGGGCTTGGTCAAGTATAGTTGGGACTGGATTGAGAATAATTATCGAATAGAATGGGGCAGGCGGGTCTTAAATGGAGATGATCAGG TTTATAATGATGTTGAACGGCCATGCTTTTATTATAAATTTTTTATAGTTATACCTATTTAATTTGGGGGATTGGAAATGATTAGTACCTTTAA TATTAGGTGCAAGAGATAGCTTTCCCTCGAATAAATAAATAAAGATTTTGAATTTTAAATCCAGCCAGTATATTATATCTAGGCTTTAGTAG AGAGTGGGCGAGAACGGGTTGACAGTTTATCTCCACTATCAAGAAATATTGCGCATGCAGGCAGATCGGTTGATTTGCTATTTTTCTACTAC ATTTGGCAGGGGTTAGTTCAATTTAGTGCAGTAAATTTTATTAGGACTTTGGGAAATGCGAGCTTTTGAATAAATCTTGTAGCAATACCAT ATTTGATGGGCTGTCTTACTGAGTTTTATTGTTGCTCTATTACTGTTTTAGCAGGAGCGATTACAATACTACTACAGATCGAAATTTAA ATTCTAGGTTTTATGATGCTGGGGTGGAGGGGATCCCATTTTATACCAACTTATT</p>	643		Confirmation
<p>>2PMU05301258_Calanoida sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TGCCGGGCTGATGCTGGGATAGTGGGTACAGTTTAAAGAATAATTATCGTATAGAGTGGGGCAGGCGGGGCTTTGATCGGGGATGACCAG ATTTACAACGTAGTGGTTACCGCCACGCTTTTATTATGATTTTTTATGTTTATACCTATTTAATCGGCGGTTTGGAAACTGGCTGGTGCCTTTG ATATTAGGCGAAGGGACATGGCTTTCCCGAATAAATAAATAAAGTTTTGGTTTCTAGTTCTGCTTACTATTACTATTCCAGTCTTTAGT AGAGAGGGGAGCAGGGGCTGAACTGTATACCCCGCTTTCAAGAAATATCGCGCACGGGAGGTCGGTTGACTTTGCTATTTCTCTCT CCATCTGGCGGGGTTAGTCAATTTAGTGCAGTAAATTTTATTAGGACTTTGGGAAATGCGAGCTTTTGAATAAATCTTGTAGCAATACCAT CTTATTTGCTGGGAGTGTAAATCACGGCTGTTGTTATTGTTATCATTACCTGTTTTAGCCGGAGCAATACAATGCTTCTACGGATCGAAATC TAAACTCTAGATTTTATGATGCGGGGAGGGGGGACCTATTTTATATCAACTGTTCT</p>	643		Confirmation
<p>>2PMD07021252_Calanoida sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TGCTGGGCTTATGATGCTGGGATAGTGGGACTGGTTGAGAATAATTATCGAATAGAATAGGGCAGGCTGGCTCATTATGGAGATGACCAGG TTTATAATGATGTTGAACGGCCATGCTTTTATTATAAATTTTTTATAGTTATACCTATTTAATTTGGGGGATTGGAAATGATTAGTACCTTTAA TATTGGGAGCAAGAGATAGCTTTCCCTCGAATAAATAAATAAAGATTTTGAATTTAATCCAGCTCTAGTTATATTATCTAGGCTTTAGTA GAGAGTGGGCGAGAACGGGTTGAACAGTTTATCTCCGTTATCAAGAAATATCGCGCATGCAGGCAGATCGGTTGACTTTGCTATTTTTTCAATTA CATTTGGCAGGAGTATAGTCAATTTAGTGCAGTAAATTTTATTAGGACTTTGGGAAATGCGAGCTTTTGAATAAATCTTGTAGCAATACCAT TATTTGATGGGCTGTGCTTACTGAGTTTTATTGTTGCTCTATTACTGTTTTAGCAGGAGCGATTACAATACTACTACAGATCGAAATTTAA ATTCTAGGTTTTATGATGCTGGAGGTTGGGGGATCCCATTTTATATCAACTTATT</p>	643		Confirmation

<p>>2PMD08091252_Ceriodaphnia dubia cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TATTTTTATTTTGGAGTTTGATCAGGAATGTCGGAACTGCTCTGAGTATACTAATTCGTGCTGAGTTAGGACAATCGGGCAGACTTATTGGTGACG ATCAAATTTATAATGTAATGTTACGGCTCACGCTTTTGAATAATTTTTATGTTATACCAATTTATAATGGGGGATTGGAAACTGGTTAGTTC CTTTGATACTAGGGGGCCTGACATGGCTTTCCCGCTGAAATATTTAAGTTTTGATTGCTACCTCCAGCTTTAACTCTTACTTGTAGGTGGG GCTGTGCAAAAGAGGTGACAGTACTGGATGAACTTTTACCTCTCTATCGGCAGGATTGCTCATGCAAGGCTTCTGTAGATTGGAAATTTTT CTTTACATCTTGCAAGGATTTCTCAATTTAGGAGCTGTAACCTCATTACCCTATTATTAATACGTTCTCAAGGAATAACTCTGATCGAATTC CCTTATTTGTTGAGCTGAGGAATCTGCTTTTGTATTACTAGTTTACCTGTTTACGAGGAGCTTACTATGCTTCAACAGATCGGAAT TAAACTCTCTTTTTGATCTCGGGGAGGGGGGATCCTATTTTATATCAACACTTTTT</p>	651		Confirmation
<p>>1PMW060212510_Cyclopoida sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial AGCTGGTCTGAGCCGATGATGGGGACAGGCTAAGAATAATATTGTTAGAATTAGGGCAGCCTGTTCTTAAATAGGAGATGATCAAAT TATAATGTAATTTGACGGCTCATGCTTTTATAAATTTTTTATAGTAATGCCAATTTAATTGGAGGGTTGGAAACTGATTGGTCTCAATA CTAGGATCTCCGGACATAGCATTCTCGAATAAACAACAATAAGATTGATTTTTAGTGCCAGCCTCTTATGCTTTTAACTAGTCCCTAGTAGA AAGTGGAGCCGGAACAGGGTGAACAGTGTATCCCTTTAAGAAGAAATCTCTCATGGGGTCTTCTGTGGATTACGCTATTTTTCTCTGCAT TTAGCCGGGTTTCTTATTTAGGGGCTGTAATTTTTATAAACTTTAGGAAATATGCGTACATTGCGCATGTTTTAAATCGCATGCCTTATTT GCTTGGGCTGTGCTTATTACAGCAATTTACTGCTTCTATCTTTACCAAGTTTACGGGGAGCGATTACAATCTTCAACAGATCGAAATCTTAATAC TTGTTTTATGACCCCTAGAGGGGAGGACCAATTTTATCAACACTGTTT</p>	642		Confirmation of family
<p>>2BZEB1P22215_Cyclopoida sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GACTTTATATTTGCTAGTGGCTTATGGGCTGGGATAATGGGACAGGACTGAGTATTTGATTGCGGTAGAACTAGGACAACCCGGAGCATTTAT AGGGGACGATCAAAATTTACAATGATGTTACGCGCATGCTTTTATTGATTTTTTATAGTAATACCTATTTAATCGGGGATTTGGTAAT GACTAGTCCCTTAACTTGGGGCTCAGATATGGCTTTCCCTCGTATGAATAATAAGATTTGGTTTTTATTACCAGCTTTTTCATATTACTTTT CAGGGCTTTGGTTGAGAGAGGGGCTGGCACGGATGAACAGTTTACCTCGTTGAGAAGAAACATCGCGCATAGGGGTTCTCCGTGATTATG CTATTTTTCTTACACTTAGCAGGATATCTTCTATTTTAGGAGCAGTTAATTTATTAGAAGTGTGGGCAATCTTCAACCTTTGGAAATACATTTT AGCGAATCTTTGTTGCTGATGTTTAAATTAATTAACGGCAGCTTGTATTATTACTTCTGCTGTTAGCTGGCAATTAATGTTATTGACAG ATCGAAACTTAAACTCTTTTTACGATCTAGGGGGGAGGAGACCAATTTTATACCAACTTTATTT</p>	658		New for family
<p>>2PMD08091251_Daphnia lumholzi cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial ATACTTTATATTTGGTATTTGATCGGGCATAGTAGGAAGTCTTGGTATACCTATCCGAGCTGAAGTGGTCACTGAGGAGATTAATGGAGA TGACAGATTTAATGTAATGTTCACTGGCCATGCAATTTATAAATTTTTTATGTTATTAATTTGGGATTAATTTGGGATTTGAAATGATTAGT CCCTTAAATATTAGGGCTCCTGATAGCTTTCCCTCGTTAAACAATTTAAGCTTTGATTTTTACCCCGCCCTGACTCTTTACTTGTGGTGGG GCTGTAGAAGAGGGGGGGGACCGGGTGGACTGTCTATCCTCCCTTTCAGCTGGAATTTGCTCATGCTGGGGCTTCTGTAGATTAAAGTATTTT TCTGTCAATTTGGCTGGGAAATTTCTTCAATTTGGGTCGGTTAATTTTATTACAATTAATTAATACGATCTTCCGGTATAACTTTAAATCGTATT CCTTTATTTGTTGGGCTGTCGGGATCACAGCACTTTACTTCTTTGAGTCTCCCTGTGCTAGCAGGAGCTATCAACAATCTTTAAACAATCGTAAT TTGAACACCTCTTCTCGATCCGGCGGGGGGAGGAGATCCTATTTTGAACCAACTTATTT</p>	652		Confirmation
<p>>2PMU05301254_Diaphanosoma sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TCCGGGATAGTTGGAACAGCCTAAGTATACTATTCGAGCTGAAGTTAGGGCAGTGTGGCAGACTATTGGTGATGACCAATTTATAANGTTAT TCGTAACCGCTCANGCTTTNGTTATAATTTTTTATAGTTATGCTATTCTCATTGGTGGCTTTGGCAATGGCTGGTGCCTTAACTAGGTGCC CTGATATGGCTTTCTCGTTAAATAAATTTAAGTTTTGAATATTACCCCTTCTTAACTCTTCTTTGGTTGGAAGGGCAGTTGAAAGGGGTGCT GGAACAGTTGAAGTGTACCCCTCTTCTGTTACAATGCTCATGCGGGGCACTGTAGATTGAGAATTTTTCTCTCATCTTCCGGGAT TTCTTCAATTTAGGTGACGTAATTTTACTGTTTAAATATACGTAACGACTAATTTAAATCGAATTTCTTAAATTTGTTGGTCTGTT GGGATTACAGCTCTATTGCTTTACTAGTCTCCGGTTAGCAGGGGCTAATCTACTGTTACTAAGTAACTGACCGTAATTTAAATACCTCTTTTTGAT CCAGCAGGTGGTGGTACCCCTTTTTATCAGCATTTTT</p>	632		Confirmation of genus
<p>>2PMB06021256_Diaphanosoma sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TTTTGGTGCATGATCTGGTATAGTAGGGACGGCTAAGTATGTTAATTCGTGCTGAGTTAGGACAATGTCAGTCTAATGGGGATGACCAGAT TTAATAGTCAATGTTACAGCTCAGCATTTATCATAATTTTTTATAGTCATACCCATTTAATTTGGGGGTTGGGAATGATTGGTCCCTCAT ATTGGGTCCCTGACATGGCTTTCCGCGCTTAATAATTTAAGTTTTGATTTTTACCTCCTCATTAACTATTGCTGTAGGGAGGGCGGTGG AAAGTGGCGCAGGTACAGGCTGACTGTTTACCACCTCTTCCGGTACTATTGCTCATGCGGGCCTCAGTTGATTTAAAAATTTTTCTTTACAT TTAGTGGGATTTCTTATTTAGGGGAGTAAATTTATTTCCAGGTTAATAATACAATCTAAAGTTTAACTTTAAATCGAGCACCATTGTT GTTTGGGCTGTGGGTATTACTGCTTACTACTTTTGGGCTTCCGTTTTANCGAGGGCAATCACAATGTTAATTAAGTATGCTAATTTGAATAC GTCAATTTTTGATCCGGCTGGGGGAGGGATCCTATTTTGTATCAGACTTTGTT</p>	643		Confirmation of genus
<p>>2PMN06021252_Diaphanosoma sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GGTGCATGATCTGGTATAGTAGGGACGGCTAAGTATGTTAATTCGTGCTGAGTTAGGACAATGTTGGTACTAATGGGGATGACCAGATTTAT AATGTCATTGTTACAGCTCAGCATTTATCATAATTTTTTATAGTCATACCCATTTAATTTGGGGGTTGGGAATGATTGGTCCCTCATATTG GGTCCCTGACATGCTTTCCGCGCTTAATAATTTAAGTTTTGATTTTTACCCCTCATTAACTATTGCTGTAGGGAGGGCGGTGGAAAG TGGCGCAGGTACAGGCTGACTGTTTACCACCTCTTCCGGTACTATTGCTCATGCGGGCCTCAGTTGATTTAAAAATTTTTCTTTACATTTAG CTGGGATTTCTTATTTAGGGGACGTAATTTTATTTCCAGGTTAATAATACAATCTAAAGTTTAACTTTAAATCGAGCACCATTGTTGCTTT GGGCTGTGGGTTACTGCTTACTACTTTTGGGCTTCCGTTTTANCGAGGGCAATCACAATGTTAATTAAGTATGCTAATTTGAATACGTC ATTTTTGATCCGGCTGGGGGAGGGATCCTATTTTGTATCAGACTTTGTT</p>	639		Confirmation of genus
<p>>LE082614_Homocyclops ater cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCAGGTGCATGAGCCGATTAATGGAAGTGGTTAAGGATAATTTATCGTCTGAAGTGGGCAACCCGGGCTTTAATAGGAGATGATCAAAT TTTTAATGATAGTACAGCTCATGCTTTTATAAATTTTTTATGTAATACCAATTTAATTTGGAGGGTTGGAAATGATTAGTGCCTTAAATA TTAGGATCCCTGATATAGCATTCCCGGAATAAATAACATAAAATCTGATTTTTGTTGCTGCTTAAATATACTTTTATAGGGCCTTATTAGAG AGGGGAGCTGGAACAGGATGAACAGTTTACCCCAATTAAGAAGAAATATTGCTCACTGCGGTCATCTGTTGATTATGCAATTTTTCTCTTATT AGCTGGGTTTCTATTTTAGGAGCAGTCAATTTTATAGTACTTAAAGTAACTACGAACATTTGGAATAACTGGAGACCGGCTACCTTATTG CTTGACGATTTAATTAAGTGGGCTGCTTACTTATCGTTACTGTTACTGTTAGGCAATTAATGCTAATTAAGTATGCTAATTAAGTATGCTAAT AGATTTTATGACCTAGAGGTGGGGGACCTAATCTTTACCAACTTTATTT</p>	642		New for species
<p>>SCL061614_Leptodiptomus sicilis cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCTGAGCTTGATCTGGATAGTGGGAACAGGTTAAGGATAATTTATCGTATAGAATTTAGGACAAGCTGGTCACTTATTGGGGACGACCAAAAT TATAATGATGTTTACTGCCATGCAATTTATAAATTTTTTATAGTTATACCTATTTGATTGGGGGTTGGTAATGGTGGTCTCTTATG TTAGGGGCAAGAGATATAGCATTCCACGATAAATAATAAGCTTTGATTTTTAGTCCAGCTTAGTATTATTGTTATCAAGATCGCTAGTAGA AAGAGGGGCGGGAACAGGCTGAACAGTTTACTCCGCTCTAGAAATTTGCCATGCCGGCAGATCTGTAGATTGCTATTTTTCTCTTATT TAGCAGGGTAAAGTCTATTTTAGGAGCAATAATTTTATAGTACTTAGGAAACCTTCGAGCCTTTGGAATAATTTTAGAGCAATACCGTTGTT TGCTGAGCTGATTAATCACAGCTGTGCTATTACTCTCTTACCGGTTATGGCTGGAGCAATCTACTGTTGTTAACTGACCGAAATCTAAT CAAGGTTTTACGATGACGGGGAGGGGGATCCTATTTTATATCAACACTTGT</p>	641		Confirmation

<p>>2PMN08131351_Leptodiaptomus siciloides cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial ATTCGAATAGAATTAGGGCAGGCTGGCTCATTAAATGGAGATGACCAGGTTATAATGAGTGTGTAACGGCCCATGCTTTTATTATAATTTTTTTTAT AGTTATACCTATTTAATTGGGGGATTTGGAAATTTGATTAGTACCATTAAATTTGGGAGCAAGAGATATAGCTTTCCCTCGAATAAATAATATAAGA TTTTGATTTTAAATCCAGCTCTAGTTATATTATCTAGGCTTTAGTAGAGAGTGGGGCAGGAAACGGGGTGAACAGTTTATCCTCCGTTATCAA GAAATATCGGCATGCGAGCAGTCCGGTGGACTTTGCTATTTTTTTCATTACATTTGGCAGGAGTTAGGTCAAATTTAGGTGCAAGTAAATTTATTAG GACTTTGGGAAATTTGCGAGCTTTTGGAAATAATTCTGTATGCAATACCATTATTTGCATGGGCTGTGCTTATTACTGCAGTCTATTGTTACTTTTATT ACCTGTTTACGAGGAGCATACAATACTACTTACAGATCGAAATTTAAATTTAGGTTTTATGATGCTGGAGGTTGGGGGGATCCAATTTTATAT CAACATTTATTT</p>	597		Confirmation
<p>>2PMS060212_Leptodiaptomus siciloides cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCTGGGCTTGATCAGGTATAGTTGGGACTGGTTGAGAATAATTATCGAATAGAATTAGGGCAGGCTGGCTCATTAAATGGAGATGACCAGGT TTATAATGATGTTGTAACGGCCCATGCTTTTATAAATTTTTTTATAGTTATACCTATTTAATTTGGGGGATTTGGAAATTTGATTAGTACCATTAAAT ATTGGGAGCAAGAGATATAGCTTTCCCTCGAATAAATAATATAAGATTTTGATTTTAAATCCAGCTCTAGTTATATTATCTAGGCTTTAGTAG AGAGTGGGGCAGGAAACGGGGTGAACAGTTTATCCTCCGTTATCAAGAAATATCGCGCATGCGAGCAGATCGGTTGACTTTTCTATTCTTAC ATTTGGCAGGAGTTAGGTCAAATTTAGGTGCAAGTAAATTTATTAGGACTTTGGGAAATTTGCGAGCTTTTGGAAATAATTCTGTATGCAATACCATT ATTTGCATGGGCTGTGCTTATTACTGCAGTCTATTGTTACTTTTATTACTCTGTTTAGCAGGAGCGATACAATACTACTTACAGATCGAAATTTAA ATTTAGGTTTTATGATGCTGGAGGTGGAGGGGACCAATTTTATCAACATTTATTT</p>	642		Confirmation
<p>>LE082614_Macrocyclus albidus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial CTGGGGCTTGGGCGGACTGGTCGGAACAGGCTTAAGAATAATTATCGTTAGAGTTAGGTCACAGGAGACTTTTAGGTGATGACCAAAATTT ATAATGTTGTTGATCAGCACATCTTTGTAATAATTTTTTATAGTTATACCTATTTAATTTGGCGAATTTGGGAAATTTGGTTCCTCTAATAT TAGGTTCTCTGATATAGCTTTCCCGGCTTAAATAAATTTTTTATAGTTTGTGTTTTTATACCAGCTTTGATTTTTATTATCAAGAGCTTTAGTGGAGT CTGGGGCTGGAAGCTGGTCAACAGTGTACCCCATTAAGAAAAAATTTAGCCATTCTGGTCTCAGTGCATAGCTATTTTTCTCTCATTTA CCCCGGGTTTCTTACTTTGGAGCTGTAAATTTTATAAACTATGGGTAATTTGCGTACTTTTGGAAATGACAGGGGACCGCTCCCTTTTTGC TTGGGCTGTTTTAATCACTGCTATCTCTCTTACTATCTTACCATTCTAGCGGGGCCATTACTACTTCTTACTGATCAAAATTTAAATACAAC TTTTATGACCTANAGGAGGGGGGACCGATTTTATCAACACTTATTT</p>	641		New for species
<p>>2PMS061212_Mesocyclops edax cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCTGGAGTCTGAGCAGGATAATGGAACGGATTAAGAGTAATATCCGTCTAGAGCTAGGTCAGCCTGGTCTTTAATGGGGGATGATCAAAATTT ACAAATGTAGTGACAGCTCAGCTCTTTGTAATAATTTTTTATAGTTATACCTATTTAATTTGGTGGATTTGGAAATTTGACTAGTTCTTTAATAC TAGGCTCTCTGATATAGCATTCTCCGGATAAATAATAAGTTTTGATTTTTAATCCAGCTCTGTTTACTCTTAAACAGTTCTTTAGTAGAAA GAGGGGCGAAGCAGGATGAAGTGTACCTCTTAAAGAAATTTATCTCATTGGGATCTTCAAGTAGATTACGCTATTTTTCTCTACATTTA GCTGGAGTACTTCTATTTTAGGACTGTAAATTTATTAGGACTGTGGCAATATACGCACTTCAAGAAATTTTGGGCAACTCTTTATTGCT CTGATCTGTTTTAATCTGCTATTTTACTACTACTCTACTCTGACTAGTGGGCTATTACCATTTTAACTGACCGAAATTTAAATACTTCT TTCTAGACCCAAGAGGGGGGAGACCTATTTTATCAACACTTATTT</p>	641		New for species
<p>>LSC091317-1137_Neogasilus sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACCTTATATCTTATCACAGGAGCTTGAGCAGGACTTATCGGCAGGACTTATCGGCAGGCTTATAGATTTATATCCGGCTAGAACTAGGCCAAGCAGGGTCTTTAAT GGGGATGACCAGATTTACAATGTTATTGTTACTGCTCATGCTTTTATTATAATTTTTTATAGTTATACCTATTTAATTTGGAGGGTTTGGTAATTGA CTTGTCCTCTCATGTTAGGGGCTCAGACATGCTTTCCCGCTTAAACAACATGAGATATTGATTTTTAGTCCAGCTTTGATTTTACTATTAGTA AGAAGATTAGTAGAATCTGGGCTGGTACCGGCTGGACGGTGTACCTCCATTAAGGAGAAATATTGCTCATTGGGGGCTTCTGTAGATTAGCT ATTTTTCTCTACACTAGCTGGTATTCTCCCTCTAGGAGCAGTAAATTTTATTAGAATATTGGCAACTACAGATTTTGAAGAAATTTTTAGAC CGAATGCCTCTTTTTGTTGATCTGTTTTAATACGGCTGTTTTAATCTTTTATCCTTACCAGTACTAGCAGGTGCTATTACTATATTACTGACAGATC GAAATTTAAATACTTCTTTTATGACCCAAGAGGTGGAGGGGACCAATTTTATACCAACACTTATTT</p>	658		Confirmation of genus
<p>>LSC091317-1238_Neogasilus sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACCTTATATCTTATCACAGGAGCTTGAGCAGGACTTATCGGCAGGACTTATCGGCAGGCTTATAGATTTATATCCGGCTAGAACTAGGCCAAGCAGGGTCTTTAAT GGGGATGACCAGATTTACAATGTTATTGTTACTGCTCATGCTTTTATTATAATTTTTTATAGTTATACCTATTTAATTTGGAGGGTTTGGTAATTGA CTTGTCCTCTCATGTTAGGGGCTCAGACATGCTTTCCCGCTTAAACAACATGAGATATTGATTTTTAGTCCAGCTTTGATTTTACTATTAGTA AGAAGATTAGTAGAATCTGGGCTGGTACCGGCTGGACGGTGTACCTCCATTAAGGAGAAATATTGCTCATTGGGGGCTTCTGTAGATTAGCT ATTTTTCTCTACACTAGCTGGTATTCTCCCTCTAGGAGCAGTAAATTTTATTAGAATATTGGCAACTACAGATTTTGAAGAAATTTTTAGAC CGAATGCCTCTTTTTGTTGATCTGTTTTAATACGGCTGTTTTAATCTTTTATCCTTACCAGTACTAGCAGGTGCTATTACTATATTACTGACAGATC GAAATTTAAATACTTCTTTTATGACCCAAGAGGTGGAGGGGACCAATTTTATACCAACACTTATTT</p>	658		Confirmation of genus
<p>>MMLE081817-1035_Neogasilus sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACCTTATATCTTATCACAGGAGCTTGAGCAGGACTTATCGGCAGGACTTATCGGCAGGCTTATAGATTTATATCCGGCTAGAACTAGGCCAAGCAGGGTCTTTAAT GGGGATGACCAGATTTACAATGTTATTGTTACTGCTCATGCTTTTATTATAATTTTTTATAGTTATACCTATTTAATTTGGAGGGTTTGGTAATTGA CTTGTCCTCTCATGTTAGGGGCTCAGACATGCTTTCCCGCTTAAACAACATGAGATATTGATTTTTAGTCCAGCTTTGATTTTACTATTAGTA AGAAGATTAGTAGAATCTGGGCTGGTACCGGCTGGACGGTGTACCTCCATTAAGGAGAAATATTGCTCATTGGGGGCTTCTGTAGATTAGCT ATTTTTCTCTACACTAGCTGGTATTCTCCCTCTAGGAGCAGTAAATTTTATTAGAATATTGGCAACTACAGATTTTGAAGAAATTTTTAGAC CGAATGCCTCTTTTTGTTGATCTGTTTTAATACGGCTGTTTTAATCTTTTATCCTTACCAGTACTAGCAGGTGCTATTACTATATTACTGACAGATC GAAATTTAAATACTTCTTTTATGACCCAAGAGGTGGAGGGGACCAATTTTATACCAACACTTATTT</p>	658		New for genus
<p>>LE080317-727_Neogasilus japonicus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACCTTATATCTTATCACAGGAGCTTGAGCAGGACTTATCGGCAGGACTTATCGGCAGGCTTATAGATTTATATCCGGCTAGAACTAGGCCAAGCAGGGTCTTTAAT GGGGATGACCAGATTTACAATGTTATTGTTACTGCTCATGCTTTTATTATAATTTTTTATAGTTATACCTATTTAATTTGGAGGGTTTGGTAATTGA CTTGTCCTCTCATGTTAGGGGCTCAGACATGCTTTCCCGCTTAAACAACATGAGATATTGATTTTTAGTCCAGCTTTGATTTTACTATTAGTA AGAAGATTAGTAGAATCTGGGCTGGTACCGGCTGGACGGTGTACCTCCATTAAGGAGAAATATTGCTCATTGGGGGCTTCTGTAGATTAGCT ATTTTTCTCTACACTAGCTGGTATTCTCCCTCTAGGAGCAGTAAATTTTATTAGAATATTGGCAACTACAGATTTTGAAGAAATTTTTAGAC CGAATGCCTCTTTTTGTTGATCTGTTTTAATACGGCTGTTTTAATCTTTTATCCTTACCAGTACTAGCAGGTGCTATTACTATATTACTGACAGATC GAAATTTAAATACTTCTTTTATGACCCAAGAGGTGGAGGGGACCAATTTTATACCAACACTTATTT</p>	658		New for species
<p>>LE080317-828_Neogasilus japonicus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACCTTATATCTTATCACAGGAGCTTGAGCAGGACTTATCGGCAGGACTTATCGGCAGGCTTATAGATTTATATCCGGCTAGAACTAGGCCAAGCAGGGTCTTTAAT GGGGATGACCAGATTTACAATGTTATTGTTACTGCTCATGCTTTTATTATAATTTTTTATAGTTATACCTATTTAATTTGGAGGGTTTGGTAATTGA CTTGTCCTCTCATGTTAGGGGCTCAGACATGCTTTCCCGCTTAAACAACATGAGATATTGATTTTTAGTCCAGCTTTGATTTTACTATTAGTA AGAAGATTAGTAGAATCTGGGCTGGTACCGGCTGGACGGTGTACCTCCATTAAGGAGAAATATTGCTCATTGGGGGCTTCTGTAGATTAGCT ATTTTTCTCTACACTAGCTGGTATTCTCCCTCTAGGAGCAGTAAATTTTATTAGAATATTGGCAACTACAGATTTTGAAGAAATTTTTAGAC CGAATGCCTCTTTTTGTTGATCTGTTTTAATACGGCTGTTTTAATCTTTTATCCTTACCAGTACTAGCAGGTGCTATTACTATATTACTGACAGATC GAAATTTAAATACTTCTTTTATGACCCAAGAGGTGGAGGGGACCAATTTTATACCAACACTTATTT</p>	658		New for species

<p>>LE080317-929_Neogasilus japonicus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACCTTATATCTTATCACAGGAGCTTGAGCAGGACTTATCGGCACTGCCCTTAGATTATATCCGGCTAGAACTAGGCCAAGCAGGGTCTTTAATT GGGGATGACCAATTACAATGTTATTGTTACTGCTCATGCTTTCATTATAAATTTTTTATAGTTATACCTATTTAATTGGAGGGTTGGTAATTGA CTTGTGCCTCTCATGTTAGGGGCTCCAGACATGGCTTTCCCGCTTAAACAACATGAGATATTGATTTTTAGTCCAGCTTTGATTTTACTATTAGTA AGAAGATTAGTAGAATCTGGGGCTGGTACCGGCTGGACGGTGTACCTCCATTAAGGAGAAATATTGCTCATTGGGGGCTTCTGTAGATTTAGCT ATTTTTCTCTACACTAGCTGGTATTCTCCCTCTAGGAGCAGTAAATTTTATTAGAATCTAGGCAATCTACGAGTTTGGAAATATTTTGGAC CGAATGCCTCTTTTTGTTGATCTGTTTAAATACGGCTGTTTTATTACTTTTATCCTTACCAGTACTAGCAGGTGCTATTACTATATTACTGACAGATC GAAATTTAAACTCTTTTTATGACCAAGAGGTGGAGGGGACCAATTTATACCAACTTATTT</p>	657		New for species
<p>>LE080317-626_Neogasilus japonicus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TACCTTATATCTTATCACAGGAGCTTGAGCAGGACTTATCGGCACTGCCCTTAGATTATATCCGGCTAGAACTAGGCCAAGCAGGGTCTTTAATT GGGGATGACCAATTACAATGTTATTGTTACTGCTCATGCTTTCATTATAAATTTTTTATAGTTATACCTATTTAATTGGAGGGTTGGTAATTGA CTTGTGCCTCTCATGTTAGGGGCTCCAGACATGGCTTTCCCGCTTAAACAACATGAGATATTGATTTTTAGTCCAGCTTTGATTTTACTATTAGTA AGAAGATTAGTAGAATCTGGGGCTGGTACCGGCTGGACGGTGTACCTCCATTAAGGAGAAATATTGCTCATTGGGGGCTTCTGTAGATTTAGCT ATTTTTCTCTACACTAGCTGGTATTCTCCCTCTAGGAGCAGTAAATTTTATTAGAATCTAGGCAATCTACGAGTTTGGAAATATTTTGGAC CGAATGCCTCTTTTTGTTGATCTGTTTAAATACGGCTGTTTTATTACTTTTATCCTTACCAGTACTAGCAGGTGCTATTACTATATTACTGACAGATC GAAATTTAAACTCTTTTTATGACCAAGAGGTGGAGGGGACCAATTTATACCAACTTATTT</p>	658	(COX1) gene, partial cds; mitochondrial	New for species
<p>>2PMV06021251_Ostracoda sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TCTACCTAATCTTCGGAGCTTGTAGCGCAACTACTAGGAAGCTGCTTAAAGAGTAATTTATCTGTCGAGAATAGGACAACAGGATCATAATTGGCAA CGATCAAACTATAAACAATGTAACAGCTCATGCAATTTGTTATAAATTTTTTATAGTTATACCTATTCTAATTGGAGGTTTGGTAATTGATTAGT TCCTTTAATGTTAGGAGCCCTGATATAGCAATTCCTCGAATAAATAAATAAGATTCTGACTCTTCCCCATCTCTTACCTTAAAGGTTAGGAAT ATTAACCGAAAGAGGGGAGGAGCGGATGAACAGTATACCTCCTTATCAAGAACTTATCACACTCAGGGGCAAGGGTTGATCTTCGATCTT CTCTTACACTAGCTGGGGCAGATCTATTAGGGGCCATTAATTTTACTACTATTGGCAATATACGGGCAGCAAGAATACACTAGATCGAA TTCTTTAATGTTCTGATCTGATGATTAATGTTTATGTTTCTGCTTCTTCTGCTACAGTCTTTCGAGGGCAATCAACAATACTACTACTGATCGTA ATCTAAATACAACATTTTTGACCCAGCTGGAGGGGGAGACCAATTTCTATACCAGCATCTATT</p>	653		Confirmation of class
<p>>1LMUSK061914_Skistodiaptomus pallidus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial ATCAGGGATAGTTGGAACAGGCTTAAAGAATAATTATCCGTATAGAATTAGGGCAAGCAGGGTATTGATCGGGGACGATCAAATTTATAATGTAG TAGTTAGTCCCATGCATTTAATAATTTTTTATGTTTATGCTTCTTAAATTTAGGGGGTTTGGAAATGGTTAGTGCCTTAAATTTAGGGGCCA GAGATATGGCATTCCCGCAATAAATAATAAGATTTGGTTCTAATTCCTGCTTAGTTATGCTTCTTAGATCTTTAGTGGAAAGAGGGCGCA GGTACAGTTGAAACAGTTTATCCTCGTTATCCAGTAATATCGCCCATGCTGGCAGTTCCGTTGGATTTGCTATTTTTTCACTACATTTAGCCGGAGT GAGCTAATTTCTGGAGCTGTAACCTTTAATAAATCTAGGAAATTTGCGAGTGTGGAAATTTAGACCGAAATACCACCTTTGCTGAGCT GTTTTAATCACCGGGTTTTACTACTTTTACTTCTGCTGCTGCTGGGCTATTACAATACTTTAACAGATCGAAATTTAAATTTCTAGTTCTATG ACCGAGGGGAGGAGGAGATCCTATTTATACCAACTTATTT</p>	631		Confirmation
<p>>2LMUSK061914_Skistodiaptomus pallidus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial AACGGGGCTAAGAATAATTATCCGGATAGAGTTGGGACAAGCAGGATCTTAAATGGAGATGATCAAATTTATAATGTGGTTGACTGCTCATGC TTTTATTATAATTTTTTATGTTATGCCTATTTAATTGGAGGGTTTGGAAATGACTAGTACCTTAAATTTGGGGCTAGGGATATAGCTTTCC CACGAATAAATAATAAGGTTTTGATTTTTAATTCCTGCTTAGTAATGCTTTATCTAGATGATAGTAGAGAGGGTGCAGGCACCGGCTGAAC CGTTATCCCGCTAAGAATAATTGCTCATCGGGAGGCTGTGGATTTGCTATTTTTCTACTACATTTAGCCGGAGTAGGTCTATTTAG GAGCAGTAAACTTTATCAGGACATTTAGGTAATTTACGAAATTTGGTATAAATCTGATCGTATTCCTCTATTCGATGAGCGGTTCTATCACGGCA GTTTTACTTTTATATCTTACTGTGCTAGCCGGAGCTATTACAATACTAATCAAGTGTGGAAATTTAGACCGAAATACCACCTTTGCTGAGCTGTTT GGGGGATCAATTTTATACCAACTTATTT</p>	616		New for species
<p>>3LMUSK061914_Skistodiaptomus pallidus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GGATAGTTGGAACAGGCTTAAAGAATAATTATCCGTATAGAATTAGGGCAAGCAGGGTATTGATCGGGGACGATCAAATTTATAATGTAGTAGTT ACTGCCCATGCATTTAATAATTTTTTATGTTATGCCTATTTAATTTGGGGGTTTGGAAATGGTTAGTGCCTTAAATTTAGGGCCAGAGA TATGGCATTCCCGCAATAAATAATAAGATTTGGTTCTAATTCCTGCTTAGTTATGCTTCTTAGATCTTTAGTGGAAAGAGGGCGCAGGTA CAGGTTGAACAGTTTATCCTCGTTATCCAGTAATATCGCCCATGCTGGCAGTTCCGTTGGATTTGCTATTTTTCTACTACATTTAGCCGGAGT TCAATTTCTGGAGCTGTAACCTTTAATAAATCTAGGAAATTTGCGAGTGTGGAAATTTAGACCGAAATACCACCTTTGCTGAGCTGTTT AATCACCGCGTTTTACTACTTTTACTTCTTACTGTGCTGCTGGGGCTATTACAATACTTTAACAGATCGAAATTTAAATTTCTAGTTCTATGACGC AGGGGATCAATTTTATACCAACTTATTT</p>	626		Confirmation
<p>>BHL060614S2_Skistodiaptomus pallidus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial CTTGATCAGGGANAGTTGGAACAGGCTTAAAGAATAATTATCCGTATAGAATTAGGGCAAGCAGGGTATTGATCGGGGACGATCAAATTTATAAT GTAGTAGTACTGCCATGCATTTAATAATTTTTTATGTTATGCCTATTTAATTTGGGGGTTTGGAAATGGTTAGTGCCTTAAATTTAGG CGCCAGATATGGCATTCCCGCAATAAATAATAAGATTTGGTTCTAATTCCTGCTTAGTTATGCTTCTTAGATCTTTAGTGGAAAGAG GCGCAGGTACAGGTTGAACAGTTTATCCTCGTTATCCAGTAATATCGCCCATGCTGGCAGTTCCGTTGGATTTGCTATTTTTCTACTACATTTAGCC GGAGTGAAGCTAATTTCTGGAGCTGTAACCTTTAATAAATCTAGGAAATTTGCGAGTGTGGAAATTTAGACCGAAATACCACCTTTGCTGCT GAGCTGTTTTAATCACCGCGTTTTACTACTTTTACTTCTTACTGTGCTGCTGGGGCTATTACAATACTTTAACAGATCGAAATTTAAATTTCTAGTT TCTATGACGAGGGGAGGAGGATCCTATTTATACCAACTTATTT</p>	635		Confirmation
<p>>2PMP052113S2_Skistodiaptomus reighardi cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCCTGATCCGGCATAGTAGGAACGGGGCTAAGAATAATTATCCGGATAGAGTTGGGACAAGCAGGATCTTAAATGGAGATGATCAAATTTATAA TGTGTTGTTACTGCTCATGCTTTAATAATTTTTTATGTTATGCCTATTTAATTTGGAGGGTTTGGAAATGGTACTAGTACCTTAAATTTGGG GGCTAGGGATAGCTTTCCACGAATAAATAATAAGGTTTTGATTTTTAATTCCTGCTTAGTAATGCTTTTACTAGATCGATAGTAGAGG GGTGCAGGCACCGGCTGAACCGTTTATCCCGCTTATCAAGAAATATTGCTCATGCGGGAGGCTGTGGATTTGCTATTTTTCTACTACATTTAGC CGGAGTTAGGCTATTTAGGAGCAGTAACTTTATCAGGACATAGGTAATTTACGAGTTTTGGTATAATCTTATGATCGTATGCCTCTATTGCGAT GAGCGGTTCTTATCACGGCAGTTTTACTTTTATATCTTACTGTGCTAGCCGGAGCTATTACAATACTAAGTACGACCGAAATCAAATTTCAAGG TTTTATGACGAGGGGAGGGGGGATCCAATTTATACCAACTTATTT</p>	636		New for species
<p>>2PMN081313S2_Skistodiaptomus reighardi cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial TGATCCGCATAGTAGGAACGGGGCTAAGAATAATTATCCGGATAGAGTTGGGACAAGCAGGATCTTAAATGGAGATGATCAAATTTATAATGT GGTGTACTGCTCATGCTTTAATAATTTTTTATGTTATGCCTATTTAATTTGGAGGGTTTGGAAATGACTAGTACCTTAAATTTGGGGG TAGGGATATAGCTTTCCACGAATAAATAATAAGGTTTTGATTTTTAATTCCTGCTTAGTAATGCTTTTACTAATCGATAGTAGAGGGG GCAGGCACCGGCTGAACCGTTTATCCCGCTTATCAAGAAATATTGCTCATGCGGGAGGCTGTGGATTTGCTATTTTTCTACTACATTTAGCCG AGTTAGGCTATTTAGGAGCAGTAACTTTATCAGGACATAGGTAATTTACAAGTTTTGGTATAATCTTATGATCGTATGCCTCTATTGCGATGAG CGGTTCTTATCACGGCAGTTTTACTTTTATATCTTACTGTGCTAGCCGGAGCTATTACAATACTAAGTACGACCGAAATCAAATTTCAAGGTTTT ATGACGAGGGGAGGGGGGATCCAATTTTATACCAACTTATTT</p>	633		New for species

<p>>37 MM07142017_Thermocyclops crassus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GACTTTGACTTAATCGTTGGGGTCTGAGCAGGGATGATTGGCACGGGATTAAGAGTAATTATTCGGCTGGAGCTAGGGCAACCAGGATCTTTAA TGGGAGATGACCAGATTACAACGTTGTAGTGACGGCCATGCGTTTATAAATTTTTTATAGTGATGCCTATCCTCATTGGAGGGTTGGGAA TTGATTGGTTCCTTAATAATTGGCTCCCTGATATAGCTTCCCTCGTATAAATAATATGAGGTTTTGATTTTTAATTCCTGCTCTTATTATATTATTA ACAAGGTCTTTGGTGAAAGAGGGGCCGGGACAGGTTGAACGGTATATCCTCCCTTGAGAAGGAATATGTCGATTCTGGTCTTCAGTGGACTA CGCTATTTTTCTTGCATTAGCAGGAGTTTCATCAATTTAGGGGCAGTTAATTTATTAGGACCTAGGAAACATACGAACACTGGGCATATTTT TAGATCGGACCCCTTATTTGCCTGAGCAGTGTGATTACGGCCATTTACTTCTTTATCACTACCTGTCTTAGCAGGAGCTATTACTATGTTATTA CAGATCGAAATCTAAATACTTCTTTTTATGATCCAGAGGGGGGAGATCCTATTCTCTACCAGCATTTATTC</p>	658		New for species
<p>>48 MM07142017_Thermocyclops crassus cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GACTTTGACTTAATCGCTGGGGTCTGAGCAGGGATGATTGGCACGGGATTAAGAGTAATTATTCGGCTGGAGCTAGGGCAACCAGGATCTTTAA TGGGAGATGACCAGATTACAACGTTGTAGTGACGGCCATGCGTTTATAAATTTTTTATAGTGATGCCTATCCTCATTGGAGGGTTGGGAA TTGATTGGTTCCTTAATAATTGGCTCCCTGATATAGCTTCCCTCGTATAAATAATATGAGGTTTTGATTTTTAATTCCTGCTCTTATTATATTATTA ACAAGGTCTTTGGTGAAAGAGGGGCCGGGACAGGTTGAACGGTATATCCTCCCTTGAGAAGGAATATGTCGATTCTGGTCTTCAGTGGACTA CGCTATTTTTCTTGCATTAGCAGGAGTTTCATCAATTTAGGGGCAGTTAATTTATTAGGACCTAGGAAACATACGAACACTGGGCATATTTT TAGATCGGACCCCTTATTTGCCTGAGCAGTGTGATTACGGCCATTTACTTCTTTATCACTACCTGTCTTAGCAGGAGCTATTACTATGTTATTA CAGATCGAAATCTAAATACTTCTTTTTATGATCCAGAGGGGGGAGATCCTATTCTCTACCAGCATTTATTC</p>	658		New for species
<p>>LE082614_Tropocyclops sp. cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial GCTGGGGCTGGGCAGGGTTGTGGGCTGGGATAAGCATAATTATTCGTTAGAGTAGGTCAACCTGGAGTTTTATTGGGGGATGATCATCTT TACAATGTAATTGTGACTGCACATGCTTTTATAAATTTTTTATGTTATACCTATTTAATTGGGGGTTGGTAATTGATTGGTCCCTTGATG TTAGGGGCCCGATATGGCATATGCCCTCCCGAATAAATAACATAAAGTTTTGATTTTTAGTTGCTTATTAATCATGTTGTTGATGAGGTCTTATGTTGA AAGAGGTGCTGGGACAGGGTGACAGTGTACCCTCCATTGAGAAGAAATATCGCACATGGGGGAGATCAGTTGATTACGCAATTTTTACTGC ATTTGGCGGGGATCTTCTATTCTGGGGCTGTGAATTTATTAGGACGTTAAAAATCTGCGAAGGTTTGGCATAAAAGGGGATTGATTCCTTT ATTTGGGTGAGCTGTTCTAATCACAGCTATTTTATTGTTATTACATTACCTGTGTAGCAGGGGCAATTACTATGTTATTGACAGACCGAAATTTAA ATACTAGATTCTATGACCTAGAGGGGGGAGACCTATTTTATACCAACATTTGTTC</p>	642		New for genus