



NMBAQC

NE Atlantic Marine Biological Analytical Quality Control Scheme

Laboratory Reference Module Summary Report

Benthic Invertebrate Component - 2018/19

LR23

16 April 2019

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MODULE / EXERCISE DETAILS

Module:	Laboratory Reference (LR)
Exercises:	LR23
Data/Sample Request Circulated:	30th August 2018
Sample Submission Deadline:	26th October 2018
Number of Subscribing Laboratories:	8
Number of LR Received:	6

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Table 1. Summary of mis-identified taxa in the Laboratory Reference Module (LR23) (erroneous identifications in brackets).

LabCode	Taxonomic Edits	Major Taxonomic Group				
		Polychaeta	Oligochaeta	Crustacea	Mollusca	Other
BI_2501	4	<i>Prionospio cf. dubia</i> (<i>Aurospio</i> spp.)	-	-	<i>Pandora pinna</i> (<i>Irus irus</i>)	<i>Leptosynapta bergensis</i> (<i>Leptosynapta galliennei</i> ?)
		-	-	-	-	<i>Phascolion strombus</i> (<i>Aspidosiphon muelleri</i>)
BI_2509	9	<i>Aurospio banyulensis</i> (<i>Prionospio multibranchiata</i>)	-	<i>Monocorophium insidiosum</i> (<i>Leptocheirus pectinatus</i>)	<i>Steromphala cineraria</i> (<i>Gibbula tumida</i>)	-
		<i>Syllides</i> (<i>Pionosyllis armata</i>)	-	-	-	-
		<i>Amphitritides gracilis</i> (<i>Ampharete / Lysippe</i> sp.)	-	-	-	-
		<i>Syllis armillaris</i> agg. (<i>Syllis variegata</i>)	-	-	-	-
		<i>Ophelia rathkei</i> (<i>Ophelia bicornis</i>)	-	-	-	-
		<i>Streptosyllis websteri</i> (<i>Syllis amica</i>)	-	-	-	-
		<i>Harmothoe glabra</i> (<i>Harmothoe spinifera</i>)	-	-	-	-
BI_2510	3	<i>Ophelia borealis</i> (<i>Ophelia rathkei</i>)	-	-	-	-
		<i>Polynoe scolopendrina</i> (<i>Harmothoe imbricata</i>)	-	-	-	-
		<i>Harmothoe fernandi</i> (<i>Harmothoe aspera</i>)	-	-	-	-
BI_2513	7	<i>Tharyx</i> sp A (<i>Aphelochaeta marioni</i>)	-	<i>Stenothoe valida</i> (<i>Stenothoe marina</i>)	-	-
		<i>Syllis vittata</i> (<i>Syllis vivipara</i>)	-	<i>Stenothoe tergestina</i> (<i>Metopa bruzelii</i>)	-	-
		<i>Arenicolidae</i> (<i>Maldane sarsi</i>)	-	-	-	-
		<i>Stenula solsbergi</i> (<i>Metopa pusilla</i>)	-	-	-	-
		<i>Pilumnus hirtellus</i> (<i>Pilumnus spinifer</i>)	-	-	-	-
BI_2514	7	<i>Malmgrenia arenicola</i> (<i>Malmgrenia darbouxi</i>)	-	-	<i>Mulinia lateralis</i> (<i>Rangia cuneata</i>)	-
		-	-	-	<i>Mulinia lateralis</i> (<i>Rangia cuneata</i>)	-
		-	-	-	<i>Spisula elliptica</i> (<i>Spisula solidia</i>)	-
		-	-	-	<i>Rangia cuneata</i> (<i>Spisula subtruncata</i>)	-
		-	-	-	<i>Spisula subtruncata</i> (<i>Spisula elliptica</i>)	-
		-	-	-	<i>Rangia cuneata</i> (<i>Spisula subtruncata</i>)	-
		-	-	-	-	-
BI_2516	6	<i>Polydora ciliata</i> (<i>Polydora cornuta</i>)	-	-	-	<i>Golfingia vulgaris</i> frag. (Actinaria ?)
		<i>Notomastus</i> (<i>Pseudonotomastus southerni</i>)	-	-	-	<i>Polycarpa fibrosa</i> (<i>Boltenia echinata</i> ?)
		<i>Arenicolidae</i> (Ctenodrilidae ?)	-	-	-	-
		<i>Leiochone tricirrata</i> (<i>Microclymene tricirrata</i>)	-	-	-	-
TOTAL	36	21	0	3	8	4
% Error	26	58	0	8	22	11

NB: % errors for taxonomic groups are percentages of the total errors generated by each taxon (not percentages of errors within each taxon)

Table 2. Summary of identification policy differences in the Laboratory Reference Module (LR23) (original identifications in brackets).

LabCode	Number of differences	Identification policy difference explanations (participant original identifications in brackets)
BI_2501	5	<i>Lacydonia</i> (<i>Lacydonia miranda</i>) - Taxonomic resolution reduced
		<i>Arctica islandica</i> juv. (<i>Arctica islandica</i>) - Recording policy difference
		<i>Amphiura filiformis</i> (<i>Amphiura filiformis</i> / <i>incana</i> ?) - Taxonomic resolution increased
		<i>Eumida sanguinea</i> agg. (<i>Eumida sanguinea</i>) - Taxonomic resolution reduced
		<i>Nereiphylla rubiginosa</i> (<i>Notophyllum rubiginosa</i>) - Nomenclature update
BI_2509	8	<i>Cerastoderma edule</i> juv. (<i>Cardioidea</i>) - Taxonomic resolution increased
		<i>Nemertea</i> (<i>Tetrastemma melanocephalum</i>) - Taxonomic resolution reduced
		<i>Cerebratulus</i> (<i>Cerebratulus marginatus</i>) - Taxonomic resolution reduced
		Aoridae female (<i>Aora gracilis</i>) - Taxonomic resolution reduced
		<i>Petricolaria pholadiformis</i> juv. (<i>Petricolaria pholadiformis</i>) - Recording policy difference
		Anomiidae juv. (<i>Anomia ephippium</i>) - Taxonomic resolution reduced
		<i>Tharyx killariensis</i> (<i>Tharyx</i>) - Taxonomic resolution increased
		Gammaridae juv. (<i>Echinogammarus stoeerensis</i>) - Taxonomic resolution reduced
BI_2510	2	<i>Achelia echinata</i> agg. (<i>Achelia laevis</i>) - Taxonomic resolution reduced
		<i>Macropodia</i> juv. (<i>Macropodia parva</i>) - Taxonomic resolution reduced
BI_2513	6	<i>Myrianida</i> (<i>Myrianida sanmartini</i>) - Taxonomic resolution reduced
		<i>Spio</i> (<i>Spio symphyta</i>) - Taxonomic resolution reduced; probably <i>S. symphyta</i>
		<i>Stenothoe valida</i> (<i>Stenothoe valida</i>) - LR label showed 13
		Aeolidiidae (<i>Aeolidiella glauca</i>) - Taxonomic resolution reduced
		Aeolidiidae (<i>Aeolidia papillosa</i>) - Taxonomic resolution reduced
		Aeolidiidae (<i>Aeolidia papillosa</i>) - Taxonomic resolution reduced
BI_2514	5	<i>Spiophanes bombyx</i> (<i>Spiophanes</i>) - Taxonomic resolution increased; aberrant specimen
		<i>Exogene verugera</i> (<i>Exogene verugera</i>) - Spelling error
		<i>Eteone longa</i> agg. (<i>Eteone longa</i>) - Recording policy difference
		<i>Eumida sanguinea</i> agg. (<i>Eumida</i>) - Taxonomic resolution increased; aberrant specimen
		Cochliopidae species A (cf <i>Heleobia australis</i>) - Recording policy difference; probably <i>H. australis</i>
BI_2516	12	<i>Spirobranchus</i> (Serpulidae indet.) - Taxonomic resolution increased; deformed operculi
		<i>Polydora</i> sp. A (Polydorini- <i>Polydora cornuta</i> ?) - Taxonomic resolution increased
		<i>Chone</i> (<i>Chone fauveti</i>) - Taxonomic resolution reduced
		<i>Micronereis variegata</i> (Polychaetae indet.) - Taxonomic resolution increased
		<i>Laonice</i> juv. (Spionidae indet.) - Taxonomic resolution increased
		<i>Chone</i> (Sabellidae- <i>Chone duneri</i> ?) - Taxonomic resolution reduced
		<i>Scolelepis squamata</i> (<i>Scolelepis squamat</i>) - Spelling error
		<i>Dipolydora</i> (<i>Dipolydora</i> sp B) - Taxonomic resolution reduced; possible antenna but unusual structure and no eyes
		<i>Malacoceros girardi</i> (<i>Malacoceros</i> sp.) - Taxonomic resolution increased
		<i>Harmothoe impar</i> agg. (<i>Harmothoe mariannae</i>) - Taxonomic resolution reduced
		Notodelphyidae - Additional taxon; (could send to MOR)
		Anthoathecata (Additional taxon)

APPENDIX

LR23 individual summary reports for participating laboratories



NMBAQC Scheme Laboratory Reference Interim Results



Laboratory reference: LR23

Audit Completion Date: 03 January 2019

Date received: 09 November 2018

Auditor (lead): Tim Worsfold

Laboratory Code: BI_2501

Auditor (review): David Hall, Chris Ashelby & Nicola Pennisi

Key: Blue text = no change, Green text = change

No.	Original Data (OD)	Edited Data (ED)	Comment	WoRMS List Reference 04/01/19)
	Identification	Identification		
1	<i>Mangelia attenuata</i>	<i>Mangelia attenuata</i>		<i>Mangelia attenuata</i> (Montagu, 1803)
2	<i>Paradoneis armata</i>	<i>Paradoneis armata</i>		<i>Paradoneis armata</i> Glémarec, 1966
3	<i>Malmgrenia castanea</i>	<i>Malmgrenia castanea</i>		<i>Malmgrenia castanea</i> McIntosh, 1876
4	<i>Drilonereis</i> sp.	<i>Drilonereis</i>		<i>Drilonereis</i> Claparède, 1870
5	<i>Lacydonia miranda</i>	<i>Lacydonia</i>	Taxonomic resolution reduced	<i>Lacydonia</i> Marion & Bobretzky, 1875
6	<i>Lacydonia miranda</i>	<i>Lacydonia</i>	Taxonomic resolution reduced	<i>Lacydonia</i> Marion & Bobretzky, 1875
7	<i>Parathelepus collaris</i>	<i>Parathelepus collaris</i>		<i>Parathelepus collaris</i> (Southern, 1914)
8	<i>Schistomeringos rudolphi</i>	<i>Schistomeringos rudolphi</i>		<i>Schistomeringos rudolphi</i> (Delle Chiaje, 1828)
9	<i>Syllis parapari</i>	<i>Syllis parapari</i>		<i>Syllis parapari</i> San Martín & López, 2000
10	<i>Tragula fenestrata</i>	<i>Tragula fenestrata</i>		<i>Tragula fenestrata</i> (Jeffreys, 1848)
11	<i>Irus Irus</i>	<i>Pandora pinna</i>	Taxonomic edit; also gastropod eggs	<i>Pandora pinna</i> (Montagu, 1803)
12	<i>Arctica islandica</i>	<i>Arctica islandica</i> juv.	Recording policy difference	<i>Arctica islandica</i> (Linnaeus, 1767)
13	<i>Aurospio</i> spp.	<i>Prionospio cf. dubia</i>	Taxonomic edit	<i>Prionospio dubia</i> Day, 1961
14	<i>Chaetozone elakata</i>	<i>Chaetozone elakata</i>		<i>Chaetozone elakata</i> Blake & Lavesque, 2017
15	<i>Chaetozone elakata</i>	<i>Chaetozone elakata</i>		<i>Chaetozone elakata</i> Blake & Lavesque, 2017
16	<i>Amphiura filiformis/incipita?</i>	<i>Amphiura filiformis</i>	Taxonomic resolution increased	<i>Amphiura filiformis</i> (O.F. Müller, 1776)
17	<i>Leptosynapta gallienoi?</i>	<i>Leptosynapta bergensis</i>	Taxonomic edit; no clear plate serrations	<i>Leptosynapta bergensis</i> (Östergren, 1905)
18	<i>Hesiospina aurantiaca</i>	<i>Hesiospina aurantiaca</i>		<i>Hesiospina aurantiaca</i> (M. Sars, 1862)
19	<i>Phyllodoce maculata</i>	<i>Phyllodoce maculata</i>		<i>Phyllodoce maculata</i> (Linnaeus, 1767)
20	<i>Eumida sanguinea</i>	<i>Eumida sanguinea</i> agg.	Taxonomic resolution reduced	<i>Eumida sanguinea</i> (Örsted, 1843)
21	<i>Eulalia viridis</i>	<i>Eulalia viridis</i>		<i>Eulalia viridis</i> (Linnaeus, 1767)
22	<i>Mystides caeca</i>	<i>Mystides caeca</i>		<i>Mystides caeca</i> Langerhans, 1880
23	<i>Notophyllum foliosum</i>	<i>Notophyllum foliosum</i>		<i>Notophyllum foliosum</i> (Sars, 1835)
24	<i>Notophyllum rubiginosa</i>	<i>Nereiphylla rubiginosa</i>	Nomenclature update	<i>Nereiphylla rubiginosa</i> (Saint-Joseph, 1888)
25	<i>Aspidosiphon muelleri</i>	<i>Phascolion strombus</i>	Taxonomic edit	<i>Phascolion</i> (<i>Phascolion</i>) <i>strombus</i> (Montagu, 1804)



NMBAQC Scheme Laboratory Reference Interim Results



Laboratory reference: LR23

Audit Completion Date: 03 October 2018

Date received: 01 October 2018

Auditor (lead): Tim Worsfold

Laboratory Code: BI_2409

Auditor (review): David Hall

Key: Blue text = no change, Green text = change

No.	Original Data (OD)	Edited Data (ED)	Comment	WoRMS List Reference (04/10/18)
	Identification	Identification		
1	Cardioidea	Cerastoderma edule juv.	Taxonomic resolution increased	Cerastoderma edule (Linnaeus, 1758)
2	Tetrastremma melanocephalum	Nemertea	Taxonomic resolution reduced	Nemertea
3	Cerebratulus marginatus	Cerebratulus	Taxonomic resolution reduced	Cerebratulus Renier, 1804
4	Pygospio elegans	Pygospio elegans		Pygospio elegans Claparède, 1863
5	Prionospio multibranchiata	Aurospio banyulensis	Taxonomic edit	Aurospio banyulensis (Laubier, 1966)
6	Unciola crenatipalma	Unciola crenatipalma		Unciola crenatipalma (Spence Bate, 1862)
7	Pionosyllis armata	Syllides	Taxonomic edit	Syllides Örsted, 1845
8	Ampharete/Lysippe sp.	Amphitritides gracilis	Taxonomic edit	Amphitritides gracilis (Grube, 1860)
9	Syllis variegata	Syllis armillaris agg.	Taxonomic edit	Syllis armillaris (O.F. Müller, 1776)
10	Spiophanes kroyeri	Spiophanes kroyeri		Spiophanes kroyeri Grube, 1860
11	Aorida gracilis	Aoridae female	Taxonomic resolution reduced	Aoridae Stebbing, 1899
12	Monopylephorus irroratus	Monopylephorus irroratus		Monopylephorus irroratus (Verrill, 1873)
13	Petricolaria pholadiformis	Petricolaria pholadiformis juv.	Recording policy difference	Petricolaria pholadiformis (Lamarck, 1818)
14	Anomia ephippium	Anomiidae juv.	Taxonomic resolution reduced	Anomiidae Rafinesque, 1815
15	Tharyx killariensis	Tharyx killariensis		Tharyx killariensis (Southern, 1914)
16	Tharyx	Tharyx killariensis	Taxonomic resolution increased	Tharyx killariensis (Southern, 1914)
17	Ficopomatus enigmaticus	Ficopomatus enigmaticus		Ficopomatus enigmaticus (Fauvel, 1923)
18	Harmothoe fernandi	Harmothoe fernandi		Harmothoe fernandi Barnich & Fiege, 2009
19	Leptocheirus pectinatus	Monocorophium insidiosum	Taxonomic edit	Monocorophium insidiosum (Crawford, 1937)
20	Ophelia bicornis	Ophelia rathkei	Taxonomic edit	Ophelia rathkei McIntosh, 1908
21	Tanaissus lilljeborgi	Tanaissus lilljeborgi		Tanaissus lilljeborgi (Stebbing, 1891)
22	Syllis amica	Streptosyllis websteri	Taxonomic edit	Streptosyllis websteri Southern, 1914
23	Echinogammarus stoevensis	Gammaridae juv.	Taxonomic resolution reduced	Gammaridae Leach, 1814
24	Bathyporeia sarsi	Bathyporeia sarsi		Bathyporeia sarsi Watkin, 1938
25	Harmothoe spinifera	Harmothoe glabra	Taxonomic edit	Harmothoe glabra (Malmgren, 1866)



NMBAQC Scheme Laboratory Reference Interim Results



Laboratory reference: LR23

Audit Completion Date: 04 October 2018

Date received: 02 October 2018

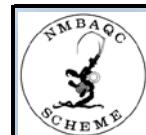
Auditor (lead): Tim Worsfold

Laboratory Code: BI_2510

Auditor (review): David Hall

Key: Blue text = no change, Green text = change

No.	Original Data (OD)	Edited Data (ED)	Comment	WoRMS List Reference (04/10/18)
	Identification	Identification		
1	Ophelia rathkei	Ophelia borealis	Taxonomic edit	Ophelia borealis Quatrefages, 1866
2	Ammothella longipes	Ammothella longipes		Ammothella longipes (Hodge, 1864)
3	Nymphon brevirostre	Nymphon brevirostre		Nymphon brevirostre Hodge, 1863
4	Achelia laevis	Achelia echinata agg.	Taxonomic resolution reduced	Achelia echinata Hodge, 1864
5	Macropodia parva	Macropodia juv.	Taxonomic resolution reduced	Macropodia Leach, 1814
6	Caulieriella alata (2)	Caulieriella alata		Caulieriella alata (Southern, 1914)
7	Tharyx killariensis	Tharyx killariensis		Tharyx killariensis (Southern, 1914)
8	Harmothoe imbricata	Polynoe scolopendrina	Taxonomic edit	Polynoe scolopendrina Savigny, 1822
9	Harmothoe aspera	Harmothoe fernandi	Taxonomic edit	Harmothoe fernandi Barnich & Fiege, 2009
10	Aricidea (Aricidea) wassi	Aricidea wassi		Aricidea (Aricidea) wassi Pettibone, 1965
11	Ione thoracica	Ione thoracica		Ione thoracica (Montagu, 1808)
12	Iphimedia obesa	Iphimedia obesa		Iphimedia obesa Rathke, 1843
13	Ammothella longipes	Ammothella longipes		Ammothella longipes (Hodge, 1864)
14	Cheirocratus (female)	Cheirocratus female		Cheirocratus Norman, 1867
15	Malacoceros tetracerus	Malacoceros tetracerus		Malacoceros tetracerus (Schmarda, 1861)
16	Aricidea wassi	Aricidea wassi		Aricidea (Aricidea) wassi Pettibone, 1965
17	Lacuna crassior	Lacuna crassior		Lacuna crassior (Montagu, 1803)
18	Simnia patula	Simnia patula		Simnia patula (Pennant, 1777)
19	Musculus discors	Musculus discors		Musculus discors (Linnaeus, 1767)
20	Philocheras fasciatus	Philocheras fasciatus		Philocheras fasciatus (Risso, 1816)
21	Galathea intermedia	Galathea intermedia		Galathea intermedia Lilljeborg, 1851
22	Gibbula tumida	Steromphala cineraria	Taxonomic edit	Steromphala cineraria (Linnaeus, 1758)
23	Microprotopus maculatus (male+female)	Microprotopus maculatus		Microprotopus maculatus Norman, 1867
24	Idotea balthica	Idotea balthica		Idotea balthica (Pallas, 1772)
25	Idotea linearis	Idotea linearis		Idotea linearis (Linnaeus, 1766)



NMBAQC Scheme Laboratory Reference Interim Results



Laboratory reference: LR23

Audit Completion Date: 04 January 2019

Date received: 02 January 2019

Auditor (lead): Tim Worsfold

Laboratory Code: BI_2513

Auditor (review): David Hall & Chris Ashelby

Key: Blue text = no change, Green text = change

No.	Original Data (OD)	Edited Data (ED)	Comment	WoRMS List Reference (04/01/19)
	Identification	Identification		
1	<i>Myrianida sammartini</i>	<i>Myrianida</i>	Taxonomic resolution reduced	<i>Myrianida</i> Milne Edwards, 1845
2	<i>Aphelochaeta marioni</i>	<i>Tharyx sp A</i>	Taxonomic edit; probably <i>T. robustus</i>	<i>Tharyx</i> Webster & Benedict, 1887
3	<i>Spio symphyta</i>	<i>Spio</i>	Taxonomic resolution reduced; probably <i>S. symphyta</i>	<i>Spio</i> Fabricius, 1785
4	<i>Syllis vivipara</i>	<i>Syllis vittata</i>	Taxonomic edit	<i>Syllis vittata</i> Grube, 1840
5	<i>Glycera tridactyla</i>	<i>Glycera tridactyla</i>		<i>Glycera tridactyla</i> Schmarda, 1861
6	<i>Harmothoe fernandi</i>	<i>Harmothoe fernandi</i>		<i>Harmothoe fernandi</i> Barnich & Fiege, 2009
7	<i>Maldane sarsi</i>	<i>Arenicolidae</i>	Taxonomic edit	<i>Arenicolidae</i> Johnston, 1835
8	<i>Arenicolidae</i>	<i>Arenicolidae</i>		<i>Arenicolidae</i> Johnston, 1835
9	<i>Procerastea halleziana</i>	<i>Procerastea halleziana</i>		<i>Procerastea halleziana</i> Malaquin, 1893
10	<i>Gammaropsis nitida</i>	<i>Gammaropsis nitida</i>		<i>Gammaropsis nitida</i> (Stimpson, 1853)
11	<i>Crassicornophium bonellii</i>	<i>Crassicornophium bonellii</i>		<i>Crassicornophium bonellii</i> (H. Milne Edwards, 1830)
12	<i>Stenothoe tergestina</i>	<i>Stenothoe tergestina</i>		<i>Stenothoe tergestina</i> (Nebeski, 1881)
13	<i>Stenothoe marina</i>	<i>Stenothoe valida</i>	Taxonomic edit; LR label showed 14	<i>Stenothoe valida</i> Dana, 1852
14	<i>Stenothoe valida</i>	<i>Stenothoe valida</i>	LR label showed 13	<i>Stenothoe valida</i> Dana, 1852
15	<i>Metopa bruzelii</i>	<i>Stenothoe tergestina</i>	Taxonomic edit	<i>Stenothoe tergestina</i> (Nebeski, 1881)
16	<i>Metopa pusilla</i>	<i>Stenula solsbergi</i>	Taxonomic edit	<i>Stenula solsbergi</i> (Schneider, 1884)
17	<i>Pilumnus spinifer</i>	<i>Pilumnus hirtellus</i>	Taxonomic edit	<i>Pilumnus hirtellus</i> (Linnaeus, 1761)
18	<i>Pilumnus hirtellus</i>	<i>Pilumnus hirtellus</i>		<i>Pilumnus hirtellus</i> (Linnaeus, 1761)
19	<i>Sphenia binghami</i>	<i>Sphenia binghami</i>		<i>Sphenia binghami</i> W. Turton, 1822
20	<i>Kellia suborbicularis</i>	<i>Kellia suborbicularis</i>		<i>Kellia suborbicularis</i> (Montagu, 1803)
21	<i>Tritonia hombergii</i>	<i>Tritonia hombergii</i>		<i>Tritonia hombergii</i> Cuvier, 1803
22	<i>Aeolidiella glauca</i>	<i>Aeolidiidae</i>	Taxonomic resolution reduced	<i>Aeolidiidae</i> Gray, 1827
23	<i>Aeolidia papillosa</i>	<i>Aeolidiidae</i>	Taxonomic resolution reduced	<i>Aeolidiidae</i> Gray, 1827
24	<i>Aeolidia papillosa</i>	<i>Aeolidiidae</i>	Taxonomic resolution reduced	<i>Aeolidiidae</i> Gray, 1827
25	<i>Aeolidiidae</i>	<i>Aeolidiidae</i>		<i>Aeolidiidae</i> Gray, 1827



NMBAQC Scheme Laboratory Reference Interim Results



Laboratory reference: LR23

Audit Completion Date: 07 December 2018

Date received: 06 December 2018

Auditor (lead): Tim Worsfold, Chris Ashelby

Laboratory Code: BI_2514

Auditor (review): David Hall

Key: Blue text = no change, Green text = change

No.	Original Data (OD)	Edited Data (ED)	Comment	WoRMS List Reference (07/12/18)
	Identification	Identification		
1	Mulinia lateralis	Mulinia lateralis		Mulinia lateralis (Say, 1822)
2	Spiophanes	Spiophanes bombyx	Taxonomic resolution increased; aberrant specimen	Spiophanes bombyx (Claparède, 1870)
3	Rangia cuneata	Mulinia lateralis	Taxonomic edit	Mulinia lateralis (Say, 1822)
4	Rangia cuneata	Mulinia lateralis	Taxonomic edit	Mulinia lateralis (Say, 1822)
5	Myrianida	Myrianida	Policy to leave at genus	Myrianida Milne Edwards, 1845
6	Exogene verugera	Exogone verugera	Spelling error	Exogone verugera (Claparède, 1868)
7	Eteone longa	Eteone longa agg.	Recording policy difference	Eteone longa (Fabricius, 1780)
8	Malmgrenia darbouxi	Malmgrenia arenicolae	Taxonomic edit	Malmgrenia arenicolae (Saint-Joseph, 1888)
9	Apolochus neapolitanus	Apolochus neapolitanus		Apolochus neapolitanus (Della Valle, 1893)
10	Eumida	Eumida sanguinea agg.	Taxonomic resolution increased; aberrant specimen	Eumida sanguinea (Örsted, 1843)
11	Spisula solida	Spisula elliptica	Taxonomic edit	Spisula elliptica (Brown, 1827)
12	Spisula subtruncata	Rangia cuneata	Taxonomic edit	Rangia cuneata (G. B. Sowerby I, 1832)
13.1	Spisula elliptica	Spisula elliptica	Mixture	Spisula elliptica (Brown, 1827)
13.2		Spisula subtruncata	Taxonomic edit	Spisula subtruncata (da Costa, 1778)
14	cf Heleobia australis	Cochliopidae species A	Recording policy difference; probably H. australis	Cochliopidae Tryon, 1866
15	Nebalia borealis	Nebalia borealis		Nebalia borealis Dahl, 1985
16	Spisula subtruncata	Rangia cuneata	Taxonomic edit	Rangia cuneata (G. B. Sowerby I, 1832)
17	-	-		
18	-	-		
19	-	-		
20	-	-		
21	-	-		
22	-	-		
23	-	-		
24	-	-		
25	-	-		



NMBAQC Scheme Laboratory Reference Interim Results

Laboratory reference: LR23

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Auditor (lead): Tim Worsfold

Auditor (review): David Hall, Ceri Miller & Marta Kazubek

Key: Blue text = no change, Green text = change

No.	Original Data (OD)	Edited Data (ED)	Comment	WoRMS List Reference (21/11/18)
	Identification	Identification		
1	Serpulidae indet.	<i>Spirobranchus</i>	Taxonomic resolution increased; deformed operculi	<i>Spirobranchus</i> Blainville, 1818
2	Dipolydora sp B	<i>Dipolydora</i> sp. B		<i>Dipolydora</i> Verrill, 1881
3	Dipolydora flava?	<i>Dipolydora</i> flava		<i>Dipolydora</i> flava (Claparède, 1870)
4	Dipolydora sp A	<i>Dipolydora</i> sp. A		<i>Dipolydora</i> Verrill, 1881
5	Polydorini- Polydora cornuta ?	<i>Polydora</i> sp. A	Taxonomic resolution increased	<i>Polydora</i> Bosc, 1802
6	Polydora cornuta	<i>Polydora ciliata</i>	Taxonomic edit	<i>Polydora ciliata</i> (Johnston, 1838)
7	Chone fauveli	<i>Chone</i>	Taxonomic resolution reduced	<i>Chone</i> Krøyer, 1856
8	Pseudonotomastus southerni	<i>Notomastus</i>	Taxonomic edit; 1st notochaetae may be missing, colour pattern more like <i>Notomastus</i>	<i>Notomastus</i> M. Sars, 1851
9	Polychaetae indet.	<i>Micronereis variegata</i>	Taxonomic resolution increased	<i>Micronereis variegata</i> Claparède, 1863
10	Spionidae indet.	<i>Laonice</i> juv.	Taxonomic resolution increased	<i>Laonice</i> Malmgren, 1867
11	Actinaria ?	<i>Golfingia vulgaris</i> (frag.)	Taxonomic edit	<i>Golfingia</i> (<i>Golfingia</i>) <i>vulgaris</i> (de Blainville, 1827)
12	Gibbomodiola adriatica	<i>Gibbomodiola</i> adriatica		<i>Gibbomodiola</i> adriatica (Lamarck, 1819)
13	Galathowenia oculata	<i>Galathowenia</i> oculata		<i>Galathowenia</i> oculata (Zachs, 1923)
14	Eteone barbata	<i>Eteone</i> barbata		<i>Eteone</i> barbata Malmgren, 1865
15	Sabellidae- Chone duneri ?	<i>Chone</i>	Taxonomic resolution reduced	<i>Chone</i> Krøyer, 1856
16	Scolelepis squamat	<i>Scolelepis</i> squamata	Spelling error	<i>Scolelepis</i> (<i>Scolelepis</i>) <i>squamata</i> (O.F. Muller, 1806)
17	Ctenodrilidae ?	<i>Arenicolidae</i>	Taxonomic edit	<i>Arenicolidae</i> Johnston, 1835
18	Dipolydora sp B	<i>Dipolydora</i>	Taxonomic resolution reduced; possible antenna but unusual structure and no eyes	<i>Dipolydora</i> Verrill, 1881
19	Malacoceros sp.	<i>Malacoceros</i> girardi	Taxonomic resolution increased	<i>Malacoceros</i> girardi Quatrefages, 1843
20	Microclymene tricirrata	<i>Leiochone</i> tricirrata	Taxonomic edit; WoRMS interpretation error	<i>Leiochone</i> tricirrata Bellan & Reys, 1967
21	Harmothoe mariannae	<i>Harmothoe</i> impar agg.	Taxonomic resolution reduced	<i>Harmothoe</i> impar (Johnston, 1839)
22	Malmgrenia darbouxi	<i>Malmgrenia</i> darbouxi		<i>Malmgrenia</i> darbouxi (Pettibone, 1993)
23	Syllis garciai	<i>Syllis</i> garciai		<i>Syllis</i> garciai (Campoy, 1982)
24.1	Polycarpa fibrosa	<i>Polycarpa</i> fibrosa		<i>Polycarpa</i> fibrosa (Stimpson, 1852)
24.2		<i>Notodelphyidae</i>	Additional taxon; (could send to MOR)	<i>Notodelphyidae</i> Dana, 1853
25.1	Boltenia echinata?	<i>Polycarpa</i> fibrosa	Taxonomic edit	<i>Polycarpa</i> fibrosa (Stimpson, 1852)
25.2		<i>Anthoathecata</i>	Additional taxon	<i>Anthoathecata</i> Cornelius, 1992