

The National Marine Biological
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Ring Test Bulletin – RTB#39

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RING TEST DETAILS

Ring Test #39

Type/Contents – General/Mixed

Circulated – 31/08/2010

Completion Date – 29/10/2010

Number of Subscribing Laboratories – 23

Number of Participating Laboratories – 23

Number of Results Received – 24*

*multiple data entries per laboratory permitted

Summary of differences

Specimen	Genus	Species	Total differences for 24 returns	
			Genus	Species
RT3901	<i>Verella</i>	<i>verella</i>	1	1
RT3902	<i>Alderia</i>	<i>modesta</i>	5	5
RT3903	<i>Lucinoma</i>	<i>borealis</i>	7	7
RT3904	<i>Leptochiton</i>	<i>cancellatus</i>	5	13
RT3905	<i>Phascolion</i>	<i>strombus</i>	3	3
RT3906	<i>Gammarus</i>	<i>zaddachi</i>	0	2
RT3907	<i>Glycymeris</i>	<i>glycymeris</i>	5	5
RT3908	<i>Ophiura</i>	<i>ophiura</i>	0	1
RT3909	<i>Crangon</i>	<i>crangon</i>	0	1
RT3910	<i>Echinocardium</i>	<i>cordatum</i>	1	1
RT3911	<i>Jasmineira</i>	<i>caudata</i>	6	16
RT3912	<i>Pariambus</i>	<i>typicus</i>	1	1
RT3913	<i>Musculus</i>	<i>discors</i>	3	11
RT3914	<i>Microjassa</i>	<i>cumbrensis</i>	8	8
RT3915	<i>Axinulus</i>	<i>croulinensis</i>	10	11
RT3916	<i>Exogone</i>	<i>verugera</i>	1	7
RT3917	<i>Adontorhina</i>	<i>similis</i>	9	9
RT3918	<i>Pleurogonium</i>	<i>rubicundum</i>	3	3
RT3919	<i>Tharyx</i>	<i>killariensis</i>	1	2
RT3920	<i>Lekanesphaera</i>	<i>levii</i>	5	18
RT3921	<i>Cirratulus</i>	<i>cirratulus</i>	0	2
RT3922	<i>Odontosyllis</i>	<i>ctenostoma</i>	4	6
RT3923	<i>Scoloplos / Leitoscoloplos</i>	<i>armiger / mammosus</i>	1	1
RT3924	<i>Gammaropsis</i>	<i>palmata</i>	1	2
RT3925	<i>Pusillina</i>	<i>inconspicua</i>	13	15
Total differences			93	151
Average diff. / data return			3.9	6.3

Figure 1. The number of differences from the AQC identification of specimens distributed in RT39 for each of the participating laboratories. Arranged in order of increasing number of differences.

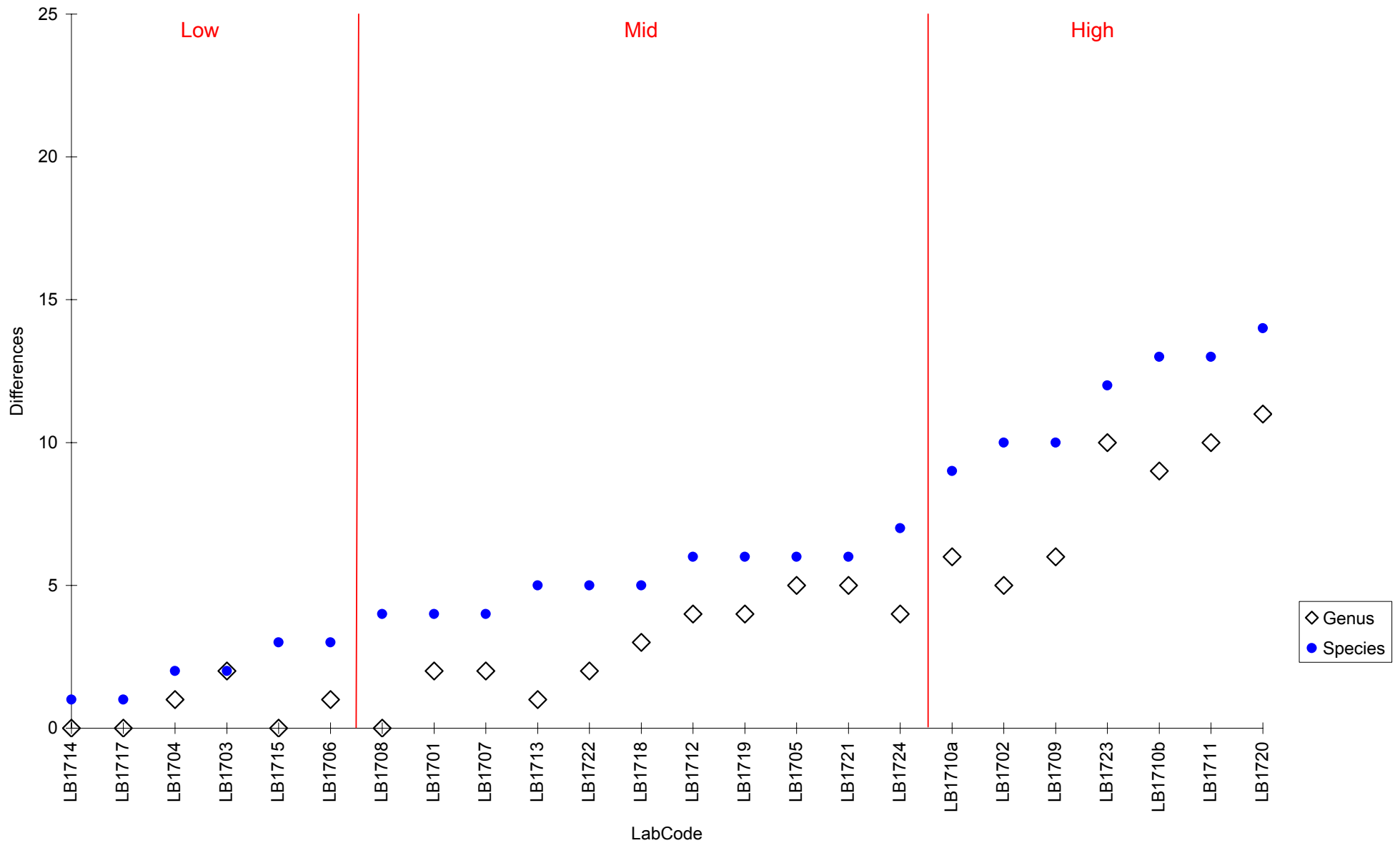


Table 1. The identification of fauna made by participating laboratories for RT39 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3901	RT3902	RT3903	RT3904	RT3905	RT3906
Taxon	<i>Veleva veleva</i>	<i>Alderia modesta</i>	<i>Lucinoma borealis</i>	<i>Leptochiton cancellatus</i>	<i>Phascolion strombus</i>	<i>Gammarus zaddachi</i>
LB1701	--	--	--	--	--	--
LB1702	--	--	Chamelea striatula	- asellus	--	--
LB1703	--	--	--	--	--	--
LB1704	--	--	--	--	--	--
LB1705	--	--	--	Hanleya hanleyi	--	- duebeni
LB1706	--	--	--	--	--	--
LB1707	--	--	Loripes lucinalis	--	--	--
LB1708	--	--	--	- asellus	--	--
LB1709	- [vellela]	--	--	- scabridus	- [strombi]	--
LB1710a	--	Runcina coronata	Astarte elliptica	--	--	- salinus
LB1710b	--	Runcina coronata	Astarte sulcata	Callochiton achatinus	--	--
LB1711	--	--	Venus verrucosa	- asellus	Sipunculus (Sipunculus) nudus	--
LB1712	--	--	--	--	--	--
LB1713	--	--	--	- asellus	- [strombus strombus]	--
LB1714	--	--	--	--	--	--
LB1715	--	--	--	- asellus	[Phascolion (Phascolion)] -	--
LB1717	--	--	--	--	--	--
LB1718	Physalia physalis	--	--	- asellus	--	--
LB1719	--	--	--	Tonicella marmorea	--	--
LB1720	--	Runcina coronata	Astarte sulcata	Tonicella rubra	Phascolosoma stephensoni	--
LB1721	--	Limapontia senestra	--	--	--	--
LB1722	--	--	--	--	--	--
LB1723	--	Nudibranchia 0	0 0	- asellus	Cucumaria 0	--
LB1724	--	--	--	Ischnochiton albus	- [strombi]	--

Table 1. The identification of fauna made by participating laboratories for RT39 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3907	RT3908	RT3909	RT3910	RT3911	RT3912
Taxon	<i>Glycymeris glycymeris</i>	<i>Ophiura ophiura</i>	<i>Crangon crangon</i>	<i>Echinocardium cordatum</i>	<i>Jasmineira caudata</i>	<i>Pariambus typicus</i>
LB1701	--	--	--	--	Chone filicaudata	--
LB1702	Laevicardium crassum	- albida	--	--	- elegans	--
LB1703	--	--	--	--	--	- [typicus var armatus]
LB1704	--	--	--	--	--	--
LB1705	Parvicardium ovale	--	--	--	--	--
LB1706	--	--	--	--	--	--
LB1707	--	--	--	--	- elegans	--
LB1708	--	--	--	--	- elegans	--
LB1709	[Glycermeris] [glycmeris]	--	- allmani	--	- elegans	--
LB1710a	--	--	--	--	Chone duneri	--
LB1710b	--	--	--	Brissopsis lyrifera	Chone fauveli	--
LB1711	--	--	--	--	- elegans	Parvipalpus capillaceus
LB1712	--	--	--	--	Potamilla torelli	--
LB1713	--	--	--	--	--	--
LB1714	--	--	--	--	- elegans	--
LB1715	--	--	--	--	--	--
LB1717	--	--	--	--	--	--
LB1718	[Glycmeris] [glycmeris]	--	--	--	--	--
LB1719	--	--	--	--	- elegans	--
LB1720	Limopsis cristata	--	--	--	- elegans	--
LB1721	Laevicardium crassum	--	--	--	- elegans	--
LB1722	Timoclea ovata	--	--	--	- elegans	--
LB1723	--	--	--	--	Laonome kroyeri	- [armatus]
LB1724	--	--	--	--	Laonome kroeyeri	--

Table 1. The identification of fauna made by participating laboratories for RT39 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3913	RT3914	RT3915	RT3916	RT3917
Taxon	<i>Musculus discors</i>	<i>Microjassa cumbrensis</i>	<i>Axinulus croulinensis</i>	<i>Exogone verugera</i>	<i>Adontorhina similis</i>
LB1701	- costulatus	--	--	--	--
LB1702	- costulatus	Microprotopus maculatus	Thyasira obsoleta	[Exogone e] dispar	--
LB1703	--	--	[Axinulus (Axinulus)] -	--	--
LB1704	--	--	--	--	--
LB1705	--	--	--	- [verugera]	Mendicula pygmaea
LB1706	--	--	Thyasira obsoleta	--	--
LB1707	--	--	- eumyarius	--	--
LB1708	--	--	--	--	--
LB1709	Modiolarca tumida	Microprotopus longimanus	Thyasira ferruginea	[Exogene] [verugea]	Kellia suborbicularis
LB1710a	--	Metopa alderi	Mendicula ferruginosa	- naidina	0 0
LB1710b	--	Metopa alderi	Mendicula ferruginosa	- naidina	0 0
LB1711	--	Microprotopus maculatus	Kellia suborbicularis	[Exogone (Exogone)] -	Montacuta substriata
LB1712	- costulatus	Microprotopus maculatus	--	- dispar	--
LB1713	- costulatus	--	--	- dispar	--
LB1714	--	--	--	--	--
LB1715	- costulatus	--	--	[Exogone (Exogone)] -	--
LB1717	- costulatus	--	- [crouliensis]	--	--
LB1718	[Musculua] -	--	Montacuta substriata	--	Tellimya ferruginosa
LB1719	Modiolula phaseolina	Microprotopus maculatus	Mendicula ferruginosa	--	--
LB1720	--	Gammaropsis palmata	Mendicula ferruginosa	Sphaerosyllis bulbosa	--
LB1721	--	--	--	--	Kellia suborbicularis
LB1722	- costulatus	--	--	[Exogone (Exogone)] -	--
LB1723	Modiolarca subpicta	--	Thyasira 0	--	Kurtiella bidentata
LB1724	- costulatus	--	--	- hebes	Bivalvia 0

Table 1. The identification of fauna made by participating laboratories for RT39 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3918	RT3919	RT3920	RT3921	RT3922
Taxon	<i>Pleurogonium rubicundum</i>	<i>Tharyx killariensis</i>	<i>Lekanesphaera levii</i>	<i>Cirratulus cirratus</i>	<i>Odontosyllis ctenostoma</i>
LB1701	--	--	- rugicauda	--	--
LB1702	--	--	Sphaeroma serratum	--	--
LB1703	--	--	Sphaeroma serratum	--	--
LB1704	--	--	[Sphaeroma] monodi	--	--
LB1705	--	--	Sphaeroma serratum	--	--
LB1706	- [rubicuncum]	[Caulleriella] -	- monodi	--	--
LB1707	--	--	--	--	--
LB1708	--	--	--	- caudatus	--
LB1709	Munna minuta	--	[Sphaeroma] monodi	--	--
LB1710a	--	--	- monodi	--	- [ctenosoma]
LB1710b	--	--	- rugicauda	--	- fulgurans
LB1711	Isopoda 0	[Caulleriella] -	Sphaeroma serratum	- sp.	Eusyllis blomstrandii
LB1712	--	--	Sphaeroma serratum	--	--
LB1713	--	--	- monodi	--	--
LB1714	--	--	--	--	--
LB1715	--	[Caulleriella] -	- monodi	--	--
LB1717	--	[Caulleriella] [kilariensis]	--	--	--
LB1718	--	--	[Sphaeroma] monodi	--	--
LB1719	--	[Caulleriella] -	- monodi	--	--
LB1720	--	- sp. 'A'	- monodi	--	Autolytus prolifer
LB1721	--	[Caulleriella] -	--	--	Eusyllis blomstrandii
LB1722	--	Chaetozone setosa	- monodi	--	--
LB1723	Isopoda 0	--	- rugicauda	--	Eusyllis blomstrandii
LB1724	--	[Caulleriella] -	--	--	- gibba

Table 1. The identification of fauna made by participating laboratories for RT39 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3923	RT3924	RT3925
Taxon	<i>Leitoscoloplos mammosus</i> ?	<i>Gammaropsis palmata</i>	<i>Pusillina inconspicua</i>
LB1701	--	--	Ventrosia ventrosa
LB1702	[Scoloplos] [armiger]	--	--
LB1703	--	--	Rissoa interrupta
LB1704	[Scoloplos] [armiger]	--	Rissoa parva
LB1705	--	--	Rissoa parva
LB1706	--	--	- sarsii
LB1707	--	--	Rissoa parva
LB1708	--	--	- sarsi
LB1709	[Scoloplos] [armiger]	--	Hydrobia neglecta
LB1710a	[Scoloplos] [armiger]	--	--
LB1710b	[Scoloplos] [armiger]	- maculata	Rissoella diaphana
LB1711	[Scoloplos (Scoloplos)] [armiger]	--	Hydrobia ulvae
LB1712	[Scoloplos] [armiger]	--	Rissoa interrupta
LB1713	--	--	Rissoa parva var. interrupta
LB1714	--	--	--
LB1715	[Scoloplos (Scoloplos)] [armiger]	--	--
LB1717	--	--	--
LB1718	[Scoloplos] [armiger]	--	--
LB1719	--	--	--
LB1720	[Scoloplos] [armiger]	Jassa falcata	Crisilla semistriata
LB1721	[Scoloplos] [armiger]	--	Hydrobia acuta neglecta
LB1722	--	--	--
LB1723	[Scoloplos] [armiger]	--	Rissoa parva var. interrupta
LB1724	Orbinia sertulata	--	--

Table 2. The identification of fauna made by participating laboratories for RT39 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1701	LB1702	LB1703	LB1704	LB1705
RT3901	<i>Veleva veleva</i>	--	--	--	--	--
RT3902	<i>Alderia modesta</i>	--	--	--	--	--
RT3903	<i>Lucinoma borealis</i>	--	Chamelea striatula	--	--	--
RT3904	<i>Leptochiton cancellatus</i>	--	- asellus	--	--	Hanleya hanleyi
RT3905	<i>Phascolion strombus</i>	--	--	--	--	--
RT3906	<i>Gammarus zaddachi</i>	--	--	--	--	- duebeni
RT3907	<i>Glycymeris glycymeris</i>	--	Laevicardium crassum	--	--	Parvicardium ovale
RT3908	<i>Ophiura ophiura</i>	--	- albida	--	--	--
RT3909	<i>Crangon crangon</i>	--	--	--	--	--
RT3910	<i>Echinocardium cordatum</i>	--	--	--	--	--
RT3911	<i>Jasmineira caudata</i>	Chone filicaudata	- elegans	--	--	--
RT3912	<i>Pariambus typicus</i>	--	--	- [typicus var armatus]	--	--
RT3913	<i>Musculus discors</i>	- costulatus	- costulatus	--	--	--
RT3914	<i>Microjassa cumbrensis</i>	--	Microprotopus maculatus	--	--	--
RT3915	<i>Axinulus croulinensis</i>	--	Thyasira obsoleta	[Axinulus (Axinulus)] -	--	--
RT3916	<i>Exogone verugera</i>	--	[Exogone e] dispar	--	--	- [verugera]
RT3917	<i>Adontorhina similis</i>	--	--	--	--	Mendicula pygmaea
RT3918	<i>Pleurogonium rubicundum</i>	--	--	--	--	--
RT3919	<i>Tharyx killariensis</i>	--	--	--	--	--
RT3920	<i>Lekanesphaera levii</i>	- rugicauda	Sphaeroma serratum	Sphaeroma serratum	[Sphaeroma] monodi	Sphaeroma serratum
RT3921	<i>Cirratulus cirratus</i>	--	--	--	--	--
RT3922	<i>Odontosyllis ctenostoma</i>	--	--	--	--	--
RT3923	<i>Leitoscoloplos mammosus ?</i>	--	Scoloplos armiger	--	Scoloplos armiger	--
RT3924	<i>Gammaropsis palmata</i>	--	--	--	--	--
RT3925	<i>Pusillina inconspicua</i>	Ventrosia ventrosa	--	Rissoa interrupta	Rissoa parva	Rissoa parva

Table 2. The identification of fauna made by participating laboratories for RT39 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1706	LB1707	LB1708	LB1709	LB1710a	LB1710b
RT3901	<i>Veleva veleva</i>	--	--	--	- [veleva]	--	--
RT3902	<i>Alderia modesta</i>	--	--	--	--	Runcina coronata	Runcina coronata
RT3903	<i>Lucinoma borealis</i>	--	Loripes lucinalis	--	--	Astarte elliptica	Astarte sulcata
RT3904	<i>Leptochiton cancellatus</i>	--	--	- asellus	- scabridus	--	Callochiton achatinus
RT3905	<i>Phascolion strombus</i>	--	--	--	- [strombi]	--	--
RT3906	<i>Gammarus zaddachi</i>	--	--	--	--	- salinus	--
RT3907	<i>Glycymeris glycymeris</i>	--	--	--	[Glycermeris] [glycermeris]	--	--
RT3908	<i>Ophiura ophiura</i>	--	--	--	--	--	--
RT3909	<i>Crangon crangon</i>	--	--	--	- allmani	--	--
RT3910	<i>Echinocardium cordatum</i>	--	--	--	--	--	Brissopsis lyrifera
RT3911	<i>Jasmineira caudata</i>	--	- elegans	- elegans	- elegans	Chone duneri	Chone fauveli
RT3912	<i>Pariambus typicus</i>	--	--	--	--	--	--
RT3913	<i>Musculus discors</i>	--	--	--	Modiolarca tumida	--	--
RT3914	<i>Microjassa cumbrensis</i>	--	--	--	Microprotopus longimanus	Metopa alderi	Metopa alderi
RT3915	<i>Axinulus croulinensis</i>	Thyasira obsoleta	- eumyrius	--	Thyasira ferruginea	Mendicula ferruginosa	Mendicula ferruginosa
RT3916	<i>Exogone verugera</i>	--	--	--	[Exogene] [verugea]	- naidina	- naidina
RT3917	<i>Adontorhina similis</i>	--	--	--	Kellia suborbicularis	0 0	0 0
RT3918	<i>Pleurogonium rubicundum</i>	- [rubicuncum]	--	--	Munna minuta	--	--
RT3919	<i>Tharyx killariensis</i>	[Cauleriella] -	--	--	--	--	--
RT3920	<i>Lekanesphaera levii</i>	- monodi	--	--	[Sphaeroma] monodi	- monodi	- rugicauda
RT3921	<i>Cirratulus cirratus</i>	--	--	- caudatus	--	--	--
RT3922	<i>Odontosyllis ctenostoma</i>	--	--	--	--	- [ctenosoma]	- fulgurans
RT3923	<i>Leitoscoloplos mammosus ?</i>	--	--	--	Scolopsis armiger	Scoloplos armiger	Scoloplos armiger
RT3924	<i>Gammaropsis palmata</i>	--	--	--	--	--	- maculata
RT3925	<i>Pusillina inconspicua</i>	- sarsii	Rissoa parva	- sarsi	Hydrobia neglecta	--	Rissoella diaphana

Table 2. The identification of fauna made by participating laboratories for RT39 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1711	LB1712	LB1713	LB1714	LB1715
RT3901	<i>Verella verella</i>	--	--	--	--	--
RT3902	<i>Alderia modesta</i>	--	--	--	--	--
RT3903	<i>Lucinoma borealis</i>	Venus verrucosa	--	--	--	--
RT3904	<i>Leptochiton cancellatus</i>	- asellus	--	- asellus	--	- asellus
RT3905	<i>Phascolion strombus</i>	Sipunculus (Sipunculus) nudus	--	- [strombus strombus]	--	[Phascolion (Phascolion)] -
RT3906	<i>Gammarus zaddachi</i>	--	--	--	--	--
RT3907	<i>Glycymeris glycymeris</i>	--	--	--	--	--
RT3908	<i>Ophiura ophiura</i>	--	--	--	--	--
RT3909	<i>Crangon crangon</i>	--	--	--	--	--
RT3910	<i>Echinocardium cordatum</i>	--	--	--	--	--
RT3911	<i>Jasmineira caudata</i>	- elegans	Potamilla torelli	--	- elegans	--
RT3912	<i>Pariambus typicus</i>	Parvipalpus capillaceus	--	--	--	--
RT3913	<i>Musculus discors</i>	--	- costulatus	- costulatus	--	- costulatus
RT3914	<i>Microjassa cumbrensis</i>	Microprotopus maculatus	Microprotopus maculatus	--	--	--
RT3915	<i>Axinulus croulinensis</i>	Kellia suborbicularis	--	--	--	--
RT3916	<i>Exogone verugera</i>	[Exogone (Exogone)] -	- dispar	- dispar	--	[Exogone (Exogone)] -
RT3917	<i>Adontorhina similis</i>	Montacuta substriata	--	--	--	--
RT3918	<i>Pleurogonium rubicundum</i>	Isopoda 0	--	--	--	--
RT3919	<i>Tharyx killariensis</i>	[Caulleriella] -	--	--	--	[Caulleriella] -
RT3920	<i>Lekanesphaera levii</i>	Sphaeroma serratum	Sphaeroma serratum	- monodi	--	- monodi
RT3921	<i>Cirratulus cirratus</i>	- sp.	--	--	--	--
RT3922	<i>Odontosyllis ctenostoma</i>	Eusyllis blomstrandii	--	--	--	--
RT3923	<i>Leitoscoloplos mammosus ?</i>	Scoloplos (Scoloplos) armiger	Scoloplos armiger	--	--	Scoloplos (Scoloplos) armiger
RT3924	<i>Gammaropsis palmata</i>	--	--	--	--	--
RT3925	<i>Pusillina inconspicua</i>	Hydrobia ulvae	Rissoa interrupta	Rissoa parva var. interrupta	--	--

Table 2. The identification of fauna made by participating laboratories for RT39 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1717	LB1718	LB1719	LB1720	LB1721
RT3901	<i>Verella verella</i>	--	Physalia physalis	--	--	--
RT3902	<i>Alderia modesta</i>	--	--	--	Runcina coronata	Limapontia senestra
RT3903	<i>Lucinoma borealis</i>	--	--	--	Astarte sulcata	--
RT3904	<i>Leptochiton cancellatus</i>	--	- asellus	Tonicella marmorea	Tonicella rubra	--
RT3905	<i>Phascolion strombus</i>	--	--	--	Phascolosoma stephensoni	--
RT3906	<i>Gammarus zaddachi</i>	--	--	--	--	--
RT3907	<i>Glycymeris glycymeris</i>	--	[Glycymeris] [glycymeris]	--	Limopsis cristata	Laevicardium crassum
RT3908	<i>Ophiura ophiura</i>	--	--	--	--	--
RT3909	<i>Crangon crangon</i>	--	--	--	--	--
RT3910	<i>Echinocardium cordatum</i>	--	--	--	--	--
RT3911	<i>Jasmineira caudata</i>	--	--	- elegans	- elegans	- elegans
RT3912	<i>Pariambus typicus</i>	--	--	--	--	--
RT3913	<i>Musculus discors</i>	- costulatus	[Musculua] -	Modiolula phaseolina	--	--
RT3914	<i>Microjassa cumbrensis</i>	--	--	Microprotopus maculatus	Gammaropsis palmata	--
RT3915	<i>Axinulus croulinensis</i>	- [croulinensis]	Montacuta substriata	Mendicula ferruginosa	Mendicula ferruginosa	--
RT3916	<i>Exogone verugera</i>	--	--	--	Sphaerosyllis bulbosa	--
RT3917	<i>Adontorhina similis</i>	--	Tellimya ferruginosa	--	--	Kellia suborbicularis
RT3918	<i>Pleurogonium rubicundum</i>	--	--	--	--	--
RT3919	<i>Tharyx killariensis</i>	[Caulleriella] [killariensis]	--	[Caulleriella] -	- sp. 'A'	[Caulleriella] -
RT3920	<i>Lekanesphaera levii</i>	--	[Sphaeroma] monodi	- monodi	- monodi	--
RT3921	<i>Cirratulus cirratus</i>	--	--	--	--	--
RT3922	<i>Odontosyllis ctenostoma</i>	--	--	--	Autolytus prolifer	Eusyllis blomstrandii
RT3923	<i>Leitoscoloplos mammosus ?</i>	--	Scoloplos armiger	--	Scoloplos armiger	Scoloplos armiger
RT3924	<i>Gammaropsis palmata</i>	--	--	--	Jassa falcata	--
RT3925	<i>Pusillina inconspicua</i>	--	--	--	Crisilla semistriata	Hydrobia acuta neglecta

Table 2. The identification of fauna made by participating laboratories for RT39 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1722	LB1723	LB1724
RT3901	<i>Veleva veleva</i>	--	--	--
RT3902	<i>Alderia modesta</i>	--	Nudibranchia 0	--
RT3903	<i>Lucinoma borealis</i>	--	0 0	--
RT3904	<i>Leptochiton cancellatus</i>	--	- asellus	Ischnochiton albus
RT3905	<i>Phascolion strombus</i>	--	Cucumaria 0	- [strombi]
RT3906	<i>Gammarus zaddachi</i>	--	--	--
RT3907	<i>Glycymeris glycymeris</i>	Timoclea ovata	--	--
RT3908	<i>Ophiura ophiura</i>	--	--	--
RT3909	<i>Crangon crangon</i>	--	--	--
RT3910	<i>Echinocardium cordatum</i>	--	--	--
RT3911	<i>Jasmineira caudata</i>	- elegans	Laonome kroeyeri	Laonome kroeyeri
RT3912	<i>Pariambus typicus</i>	--	- [armatus]	--
RT3913	<i>Musculus discors</i>	- costulatus	Modiolarca subpicta	- costulatus
RT3914	<i>Microjassa cumbrensis</i>	--	--	--
RT3915	<i>Axinulus croulinensis</i>	--	Thyasyra 0	--
RT3916	<i>Exogone verugera</i>	[Exogone (Exogone)] -	--	- hebes
RT3917	<i>Adontorhina similis</i>	--	Kurtiella bidentata	Bivalvia 0
RT3918	<i>Pleurogonium rubicundum</i>	--	Isopoda 0	--
RT3919	<i>Tharyx killariensis</i>	Chaetozone setosa	--	[Caulleriella] -
RT3920	<i>Lekanesphaera levii</i>	- monodi	- rugicauda	--
RT3921	<i>Cirratulus cirratus</i>	--	--	--
RT3922	<i>Odontosyllis ctenostoma</i>	--	Eusyllis blomstrandii	- gibba
RT3923	<i>Leitoscoloplos mammosus ?</i>	--	Scoloplos armiger	Orbinia sertulata
RT3924	<i>Gammaropsis palmata</i>	--	--	--
RT3925	<i>Pusillina inconspicua</i>	--	Rissoa parva var. interrupta	--

Specimen Images and Detailed Breakdown of Identifications

LabCodes are abbreviated in this report to exclude the Scheme year, *i.e.* LB1701a = Lab 01a. An additional terminal character has been added within each LabCode (small case sequential letters) to permit multiple data entries from each laboratory, *i.e.* two participants from laboratory 01 would be coded as Lab 01a & Lab 01b. For details of your LabCode please contact your Scheme representative or Thomson Unicmarine Ltd.

(Figure codes: A=anterior; P=posterior; L=lateral; D=dorsal; V=ventral)

RT3901 – *Verella verella* (Figure 1a)

Substratum: (Sand). Salinity: Full. Depth: (Intertidal). Geography: S. W. England. Condition: Fair, Medium.

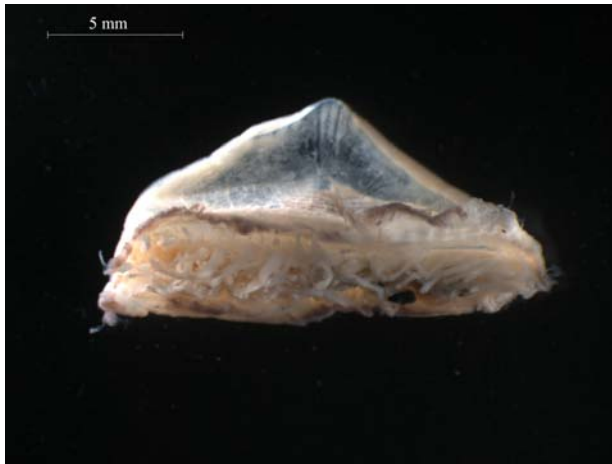


Fig. 1a. *Verella verella* (RT3901) – L

One generic and one specific difference: Lab 18 identified as *Physalia physalis* (no material available) (which lacks a dorsal sail-like structure).

Lab 09 incorrectly spelt the species.

Additional reference:

Kirkpatrick & Pugh, 1984

RT3902 – *Alderia modesta* (Figure 2a)

Substratum: Mixed. Salinity: Reduced. Depth: Infralittoral. Geography: East Anglia. Condition: Fair-Poor, Small.

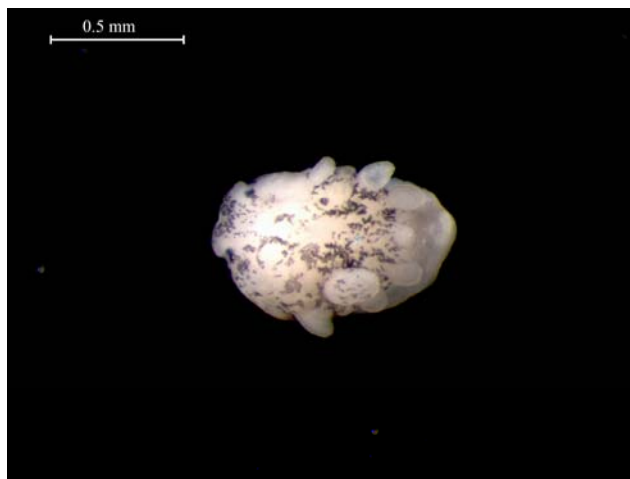


Fig. 2a. *Alderia modesta* (RT3902) – D

Five generic and five specific differences: Labs 10a, 10b and 20 identified as *Runcina coronata* (Figure 2b); Lab 21 identified as *Limapontia senestra* (Figure 2c, shows a similar species *L. depressa*) (both of which lack dorso-lateral processes); Lab 23 identified incorrectly as Nudibranchia (identification is required to species for RT exercises).



Fig. 2b. *Runcina coronata* (11039) – L

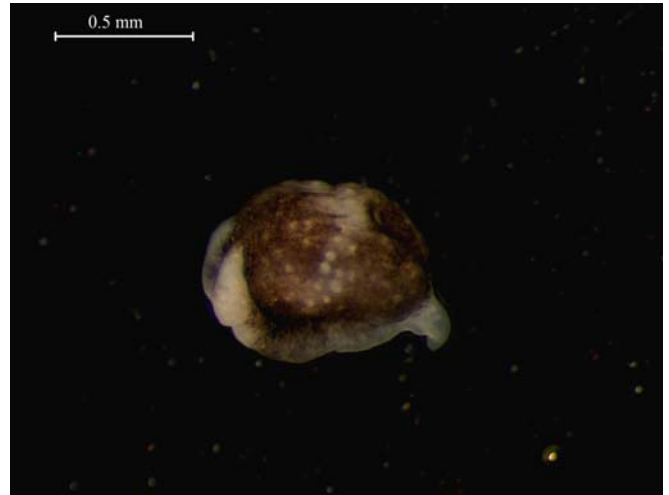


Fig. 2c. *Limapontia depressa* (45252) – L

RT3903 – *Lucinoma borealis* (Figure 3a)

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: Northern Ireland. Condition: Good, Small (Juvenile).



Fig. 3a. *Lucinoma borealis* juv. (RT3903) - L

Seven generic and seven specific differences: Labs 10b and 20 identified as *Astarte sulcata* (Figure 3b, shows *Astartidae* juv.); Lab 10a identified as *Astarte elliptica* (Figure 3b, shows *Astartidae* juv.) (both of which have coarser, more rounded concentric ribs and a brown periostracum); Lab 02 identified as *Chamelea striatula* (Figure 3c) (which is more tumid and equilateral); Lab 07 identified as *Loripes lucinalis* (Figure 3d) (which has a deeply inset external ligament); Lab 11 identified as *Venus verrucosa* (No juvenile material available) (which has coarser sculpture); Lab 23 did not supply data for this specimen (identification is required to species for RT exercises).

Additional website resource:

www.naturalhistory.museumwales.ac.uk/britishbi/valves



Fig. 3b. *Astartidae* juv. (40607) – L



Fig. 3c. *Chamelea striatula* juv.(40387) – L



Fig. 3d. *Loripes lucinalis* (8046) – L

RT3904 – *Leptochiton cancellatus* (Figure 4a)

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: Northern Ireland. Condition: Good, Medium.



Fig. 4a. *Leptochiton cancellatus* (RT3904) - D

Five generic and thirteen specific differences: Labs 02, 08, 11, 13, 15, 18 and 23 identified as *Leptochiton asellus* (Figure 4b) (which has keeled shell valves); Lab 09 identified as *L. scabridus* (No material available) (which has coarser sculpture); Lab 05 identified as *Hanleya hanleyi* (Figure 4c) (which has more spiny spicules in the girdle); Lab 10b identified as *Callochiton achatinus*, a synonym of *C. septemvalvis* (Figure 4d); Lab 19 identified as *Tonicella marmorea* (Figure 4e); Lab 20 identified as *Tonicella rubra* (Figure 4f); Lab 24 identified as *Ischnochiton albus*, a synonym of *Stenosemus albus* (Figure 4g) (all of which lack linear sculpture).

Additional references:

Kaas & van Belle, 1985, 1987, 1990, 1994



Fig. 4b. *Leptochiton asellus* (11060) - D



Fig. 4c. *Hanleya hanleyi* (13347) - D

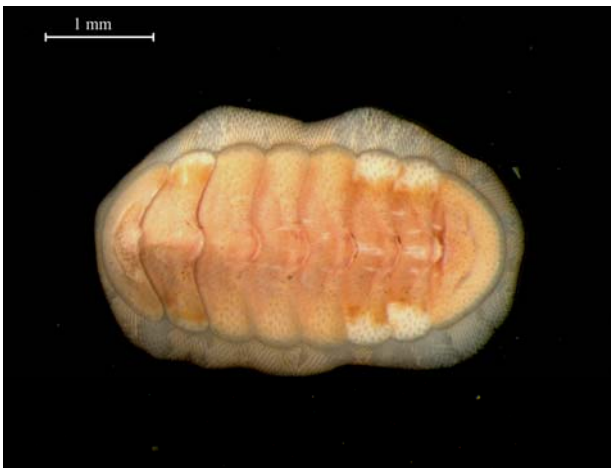


Fig. 4d. *Callochiton septemvalvis* (46505) - D



Fig. 4e. *Tonicella marmorea* (13309) - D



Fig. 4f. *Tonicella rubra* (46505) - D



Fig. 4g. *Stenosemus albus* (13265) - D

RT3905 – *Phascolion strombus* (Figure 5a)

Substratum: Mud. Salinity: Full. Depth: Infralittoral. Geography: Northern Ireland. Condition: Good-Fair, Medium-Small.



Fig. 5a. *Phascolion strombus* (RT3905) – L

Three generic and three specific differences: Lab 11 identified as *Sipunculus* (*Sipunculus*) *nudus* (no material available) (which lacks holdfast papillae); Lab 20 identified as *Phascolosoma stephensoni* (Figure 5b shows *P. granulatum*) (which has large conical posterior papillae); Lab 23 identified incorrectly as *Cucumaria* (Figure 5c shows *C. frondosa*) (which have skin spicules and lack a digestive loop and retractor muscles; identification is required to species for RT exercises).

Labs 09 and 24 recorded the synonym *P. strombi*; Labs 13 and 15 recorded subgenera or subspecies.

Additional Literature:

Saiz Salinas, 1993



Fig. 5b. *Phascolosoma granulatum* (48103) – L



Fig. 5c. *Cucumaria frondosa* (29204) – PL

RT3906 – *Gammarus zaddachi* (Figure 6a)

Substratum: Mixed. Salinity: Low. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Large-Medium.



Fig. 6a. *Gammarus zaddachi* (RT3906) – L

Two specific differences: Lab 05 identified as *Gammarus duebeni* (Figure 6b) (which has a row of setae of similar length on mandible palp segment 3); Lab 10a identified as *G. salinus* (Figure 6c) (which is less tolerant of low salinities and has fewer and shorter setae throughout the body and appendages).



Fig. 6b. *Gammarus duebeni* (34078) – L



Fig. 6c. *Gammarus salinus* (33697) – L

RT3907 – *Glycymeris glycymeris* (Figure 7a)

Substratum: Gravel. Salinity: Full. Depth: Circalittoral. Geography: English Channel. Condition: Good, Small (Juvenile; ~4mm).



Fig. 7a. *Glycymeris glycymeris* juv. (RT3907) – L

Five generic and five specific differences: Labs 02 and 21 identified as *Laevicardium crassum* (Figure 7b); Lab 05 identified as *Parvicardium ovale* (Figure 7c); Lab 20 identified as *Limopsis cristata* (Figure 7d); Lab 22 identified as *Timoclea ovata* (Figure 7e) (all of which are more inequilateral).

Labs 09 and 18 incorrectly spelt the genus and species.

Additional website resource:

www.naturalhistory.museumwales.ac.uk/britishbivalves



Fig. 7b. *Laevicardium crassum* (46832) – L



Fig. 7c. *Parvicardium ovale* (40076) – L



Fig. 7d. *Limopsis cristata* (28952; empty shell) – L



Fig. 7e. *Timoclea ovata* (36793) – L

RT3908 – *Ophiura ophiura* (Figure 8a and b)

Substratum: Mud. Salinity: High. Depth: Infralittoral. Geography: East Anglia. Condition: Fair, Medium. Note: Co-habitant with Specimens 09 & 10.

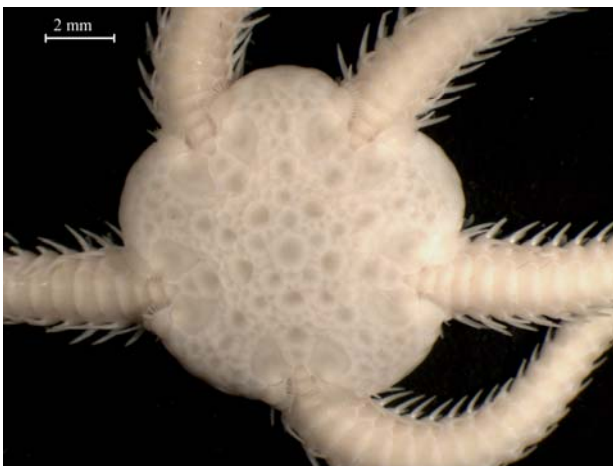


Fig. 8a. *Ophiura ophiura* (RT3908) – D

One specific difference: Lab 02 identified as *Ophiura albida* (Figures 8c and 8d) (which has fewer and stouter arm comb papillae and heart-shaped 1st dorsal arm plates).



Fig. 8b. *Ophiura ophiura* (RT3908) – V

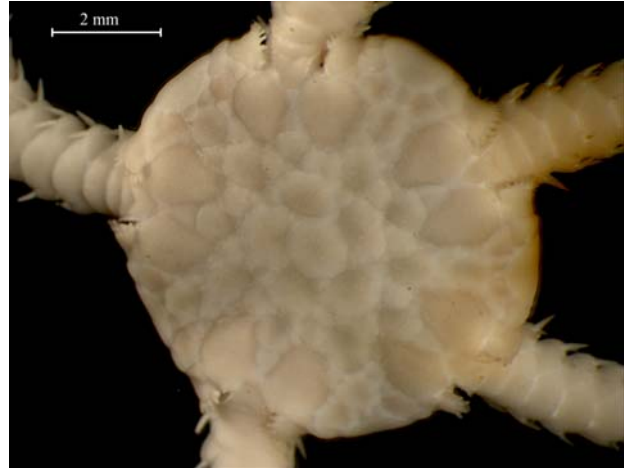


Fig. 8c. *Ophiura albida* (38940) – D



Fig. 8d. *Ophiura albida* (38940) – V

RT3909 – *Crangon crangon* (Figure 9a and b)

Substratum: Mud. Salinity: High. Depth: Infralittoral. Geography: East Anglia. Condition: Fair, Medium. Note: Co-habitant with Specimens 08 & 10.



Fig. 9a. *Crangon crangon* (RT3909) – AL

One specific difference: Lab 09 identified as *Crangon allmani* (*sic.*) (Figures 9c and 9d) (which has a longitudinal dorsal groove on pereonite 6).



Fig. 9b. *Crangon crangon* (RT3909) – PD



Fig. 9c. *Crangon allmanni* (24701) – AL

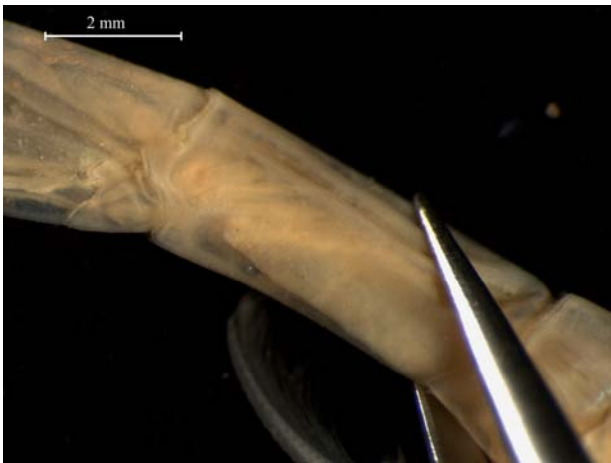


Fig. 9d. *Crangon allmanni* (24701) – PD

RT3910 – *Echinocardium cordatum* (Figure 10a)

Substratum: Mud. Salinity: High. Depth: Infralittoral. Geography: East Anglia. Condition: Fair, Medium. Note: Co-habitant with Specimens 08 & 09.



Fig. 10a. *Echinocardium cordatum* (RT3910) – D

One generic and one specific difference: Lab 10b identified as *Brissopsis lyrifera* (Figure 10b) (which has a dorsal complete peripetalous fasciole).



Fig. 10b. *Brissopsis lyrifera* (34011) – D

RT3911 – *Jasminiera caudata* (Figure 11a and b)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: N. E. England. Condition: Poor, Medium.



Fig. 11a. *Jasminiera caudata* (RT3911) – AL



Fig. 11b. *Jasminiera caudata* (RT3911) – P

Six generic and sixteen specific differences: Lab 01 identified as *Chone filicaudata* (Figure 11e) (which has a longer collar and lacks sutures between the radiole crown base and radioles); Labs 02, 07, 08, 09, 11, 14, 19, 20, 21 and 22 identified as *Jasminiera elegans* (Figure 11c); Labs 23 and 24 identified as *Laonome kroyeri* (Figure 11d, shows *L. kroyeri*?); Lab 10a identified as *C. duneri* (Figure 11f); Lab 10b identified as *C. fauveli* (Figure 11g); Lab 12 identified as *Potamilla torelli* (no material available) (all of which lack a caudal filament).



Fig. 11c. *Jasminiera elegans* (43298) – L



Fig. 11d. *Laonome kroyeri?*(39630) – L



Fig. 11e. *Chone filicaudata* (39481) – L



Fig. 11f. *Chone duneri* (11040) – L



Fig. 11g. *Chone fauveli* (11646) – L

RT3912 – *Pariambus typicus* (Figure 12a)

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: Northern Ireland. Condition: Fair, Medium (Male).



Fig. 12a. *Pariambus typicus* (RT3912) – L

One generic and one specific difference: Lab 11 identified as *Parvipalpus capillaceus* (Figure 12b) (which has a fully developed fifth pereopod and a more elongated posterior).

Labs 03 and 23 recorded the synonym and subspecies; *Pariambus armatus* or *Pariambus typicus* var. *armatus*.



Fig. 12b. *Parvipalpus capillaceus* (44497) – L

RT3913 – *Musculus discors* (Figure 13a)

Substratum: Rock / Algae. Salinity: Full. Depth: Intertidal. Geography: Brittany. Condition: Good, Small.



Fig. 13a. *Musculus discors* (RT3913) – L

Three generic and eleven specific differences: Lab 01, 02, 12, 13, 15, 17, 22 and 24 identified as *Musculus costulatus* (Figure 13b) (which has fewer ribs); Labs 09 and 23 identified as *Modiolarca subpicta* or the synonym *Modiolarca tumida* (Figure 13c) (which has a more angular outline); Lab 19 identified as *Modiolarca phaseolina* (Figure 13d) (which lacks radial ribs).

Lab 18 incorrectly spelt the genus.

Additional website resource:

www.naturalhistory.museumwales.ac.uk/britishbivalves



Fig. 13b. *Musculus costulatus* (42767) – L



Fig. 13c. *Modiolarca subpicta* (9365) – L



Fig. 13d. *Modiolula phaseolina* (24201) – L

RT3914 – *Microjassa cumbrensis* (Figure 14a)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: Northern Ireland. Condition: Fair, Medium.



Fig. 14a. *Microjassa cumbrensis* (RT3914) – L

Eight generic and eight specific differences: Labs 02, 11, 12 and 19 identified as *Microprotopus maculatus* (Figure 14b); Lab 09 identified as *M. longimanus* (no material available); Labs 10a and 10b identified as *Metopa alderi* (Figure 14c); Lab 20 identified as *Gammaropsis palmata* (Figure 24a) (all of which have rami longer than the peduncles on uropod 3).



Fig. 14b. *Microprotopus maculatus* (11048) – L



Fig. 14c. *Metopa alderi* (45261) – L

RT3915 – *Axinulus croulinensis* (Figure 15a)

Substratum: Mud. Salinity: Full. Depth: Circalittoral (Lower Shelf). Geography: N. North Sea. Condition: Good, Small.



Fig. 15a. *Axinulus croulinensis* (RT3915) – L

Ten generic and eleven specific differences: Labs 09, 10a, 10b, 19 and 20 identified as *Mendicula ferruginosa* or the synonym *Thyasira ferruginea* (Figure 15b) (which is longer than high); Labs 02 and 06 identified as *Thyasira obsoleta* (Figure 15c) (which has a distinct auricle); Lab 07 identified as *Axinulus eumyrius* (No material available) (which has prominent adductor scars); Lab 11 identified as *Kellia suborbicularis* (Figure 15d) (which has prominent umbones); Lab 18 identified as *Montacuta substriata* (Figure 15e) (which has radial sculpture); Lab 23 identified as *Thyasira (sic.)* (identification is required to species for RT exercises).

Lab 17 incorrectly spelt the species.

Lab 03 recorded the subgenus.

Additional website resource:

www.naturalhistory.museumwales.ac.uk/britishbivalves

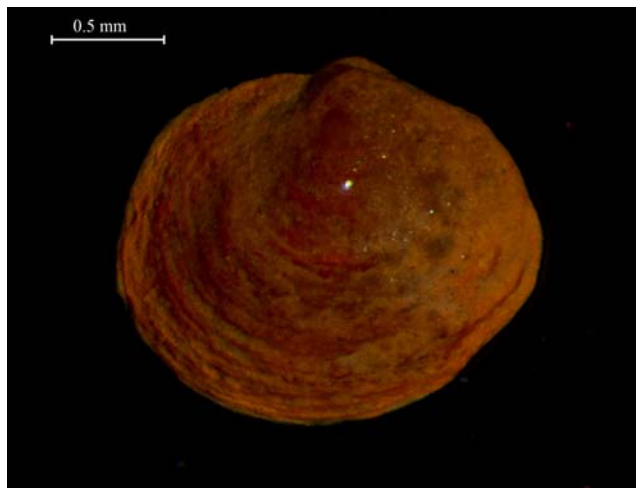


Fig. 15b. *Mendicula ferruginosa* (46847) – L



Fig. 15c. *Thyasira obsoleta* (28973) – L



Fig. 15d. *Kellia suborbicularis* (44089) – L



Fig. 15e. *Montacuta substriata* (21684) – L

RT3916 – *Exogone verugera* (Figure 16a)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: Northern Ireland. Condition: Fair-Poor, Medium.



Fig. 16a. *Exogone verugera* (RT3916) – D

One generic and seven specific differences: Labs 02, 12 and 13 identified as *Exogone dispar* (No material available) (which has longer antennae and dorsal cirri present on setiger 2); Labs 10a and 10b identified as *E. naidina* (Figure 16b) (which has longer antennae, a shorter proventriculus and shorter palps); Lab 24 identified as *E. hebes* (Figure 16c) (which lacks spinigers, has no indentation between the palps and has a longer median antenna); Lab 20 identified as *Sphaerosyllis bulbosa* (Figure 16d) (which has conspicuous flask-shaped dorsal cirri).

Labs 02 and 09 incorrectly spelt the genus; Labs 05 and 09 incorrectly spelt the species.

Labs 11, 15 and 22 recorded the subgenus.



Fig. 16b. *Exogone naidina* (36646) – D



Fig. 16c. *Exogone hebes* (11811) – D



Fig. 16d. *Sphaerosyllis bulbosa* (39933) – D

RT3917 – *Adontorhina similis* (Figure 17a)

Substratum: Mud. Salinity: Full. Depth: Circalittoral (Lower Shelf). Geography: N. North Sea. Condition: Good, Small.

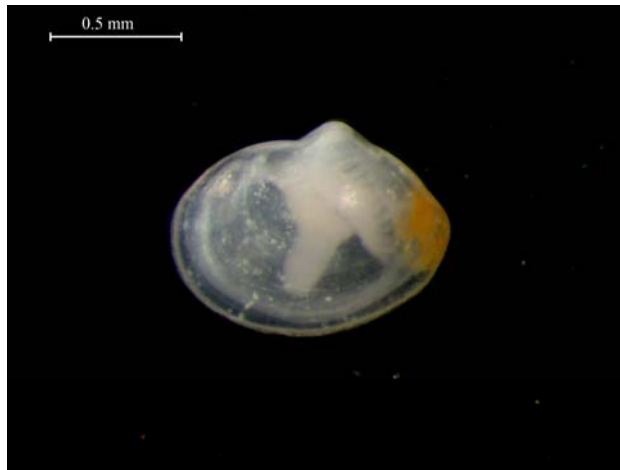


Fig. 17a. *Adontorhina similis* (RT3917) – L

Nine generic and nine specific differences: Labs 09 and 21 identified as *Kellia suborbicularis* (Figure 15d) (which has stronger umbones); Lab 11 identified as *Montacuta substriata* (Figure 15e) (which has radial sculpture); Lab 05 identified as *Mendicula pygmaea* (No material available) (this is an American species; European records are currently assigned to *A. similis* by Barry & McCormack; it lacks granulation on the hinge margin); Lab 18 identified as *Tellimya ferruginosa* (Figure 17b); Lab 23 identified as *Kurtiella bidentata* (Figure 17c) (both of which have more rounded outlines); Lab 24 identified correctly as *Bivalvia*; Labs 10a and 10b did not supply data for this specimen (identification is required to species for RT exercises).

Additional Literature:

Barry & McCormack (2007)



Fig. 17b. *Tellimya ferruginosa* (38879) – L

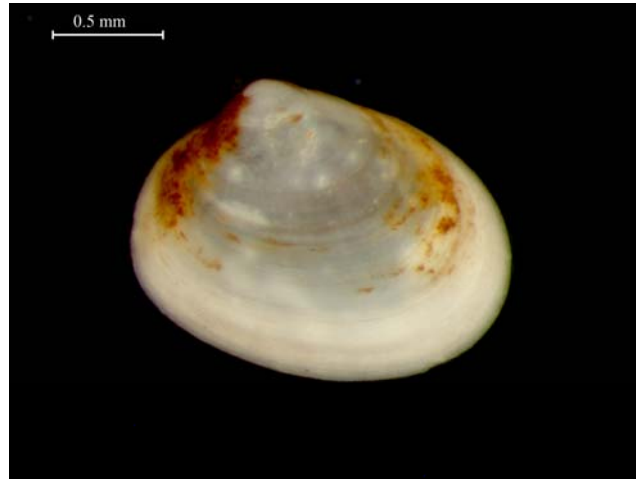


Fig. 17c. *Kurtiella bidentata* (18304) – L

RT3918 – *Pleurogonium rubicundum* (Figure 18a)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: Northern Ireland. Condition: Good-Fair, Medium.



Fig. 18a. *Pleurogonium rubicundum* (RT3918) – D



Fig. 18b. *Munna* sp. (25126) – DL

Three generic and three specific differences: Lab 09 identified as *Munna minuta* (Figure 18b shows *Munna* sp.) (which lacks finger-like lateral projections on the pleosome); Labs 11 and 23 identified correctly as Isopoda (identification is required to species for RT exercises).

Lab 06 incorrectly spelt the species.

RT3919 – *Tharyx killariensis* (Figure 19a)

Substratum: Mud. Salinity: High. Depth: Circalittoral. Geography: S. W. England. Condition: Good, Medium-Small.



Fig. 19a. *Tharyx killariensis* (RT3919) – L

One generic and two specific differences: Lab 20 identified as *Tharyx* sp. A (Figure 19b) (which has a shorter, more flattened body and lacks wispy thoracic chaetae); Lab 22 identified as *Chaetozone setosa* (Figure 19c) (which has a concertina-like tail and acicular chaetae in both rami).

Labs 06, 11, 15, 17, 19, 21 and 24 recorded the synonym *Caulleriella killariensis*; the ERMS & WoRMS online registers for this species require revision (C. Fauchald pers comm.) and are considered to be anomalous.

Lab 17 incorrectly spelt the species.



Fig. 19b. *Tharyx* sp. A (11486) – L



Fig. 19c. *Chaetozone setosa* (42620) – L

RT3920 – *Lekanesphaera levii* (Figure 20a)

Substratum: Gravel. Salinity: Reduced. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Medium.



Fig. 20a. *Lekanesphaera levii* (RT3920) – L

Five generic and eighteen specific differences: Labs 04, 06, 09, 10a, 13, 15, 18, 19, 20 and 22 identified as *Lekanesphaera monodi* or the synonym *Sphaeroma monodi* (no material available) (which has plumose setae on the ischium and merus of pereopod 1, and uropodal rami that extend well beyond the posterior margin of the pleosome); Labs 01, 10b and 23 identified as *Lekanesphaera rugicauda* (Figure 20b) (which has, at most, weakly serrated exo-uropods); Labs 02, 03, 05, 11 and 12 identified as *Sphaeroma serratum* (No material available) (which has plumose setae on pereopods 1-3 and maxilliped 3).

Additional Literature:

Jacobs, 1987.



Fig. 20b. *Lekanesphaera rugicaudata* (36206) – L

RT39021 – *Cirratulus cirratus* (Figure 21a)

Substratum: Mixed. Salinity: High. Depth: Infralittoral. Geography: Northern Ireland. Condition: Fair-Poor, Small.



Fig. 21a. *Cirratulus cirratus* (RT3921) – D



Fig. 21b. *Cirratulus caudatus* (41185) – AV

Two specific differences: Lab 08 identified as *Cirratulus caudatus* (Figure 21b) (which lacks eyes, has a relatively small head and is found in fully marine subtidal habitats); Lab 11 identified as *Cirratulus* sp. (identification is required to species for RT exercises).

RT3922 – *Odontosyllis ctenostoma* (Figure 22a)

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: Northern Ireland. Condition: Poor, Medium (anterior portion).



Fig. 22a. *Odontosyllis ctenostoma* (RT3922) – L

Four generic and six specific differences: Labs 11, 21 and 23 identified as *Eusyllis blomstrandii* (Figure 22b); Lab 10b identified as *Odontosyllis fulgens* (Figure 22c); Lab 24 identified as *Odontosyllis gibba* (Figure 22d) (all of which have bidentate falcigers); Lab 20 identified as *Autolytus prolifer* (Figure 22e shows *Autolytus* sp.) (which lacks an occipital flap).

Lab 10a incorrectly spelt the species.



Fig. 22b. *Eusyllis blomstrandii* (27450) – D



Fig. 22c. *Odontosyllis fulgens* (38947) – D



Fig. 22d. *Odontosyllis gibba* (7217) – V



Fig. 22e. *Autolytus* sp. (39141) – D

RT3923 – *Scoloplos armiger* / *Leitoscoloplos mammosus* (Figure 23a)

Substratum: Muddy Sand. Salinity: Full. Depth: Circalittoral. Geography: Northern Ireland. Condition: Fair, Small.



Fig. 23a. *Scoloplos armiger* / *Leitoscoloplos mammosus* (RT3923) – L

One generic and one specific difference: Lab 24 identified as *Orbinia sertulata* (Figure 23b) (which has thoracic neuropodia with fringed post-chaetal lobes).

Specimens circulated intermediate forms with thoracic hooded hooks present and *Leitoscoloplos*-like body-form, unfortunately these specimens could not be externally verified; for the purpose of this exercise all entries of *L. mammosus* and *S. armiger* are deemed as correct.



Fig. 23b. *Orbinia sertulata* (11759) – L

RT3924 – *Gammaropsis palmata* (Figure 24a)

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: Northern Ireland. Condition: Fair, Medium-Small (Male).



Fig. 24a. *Gammaropsis palmata* (RT3924) – L

One generic and two specific differences; Lab 10b identified as *Gammaropsis maculata* (Figure 24b) (which has two distinct teeth on the palm of gnathopod 2); Lab 20 identified as *Jassa falcata* (Figure 24c) (which has uropod 3 rami shorter than their peduncles).



Fig. 24b. *Gammaropsis maculata* (43583) – L



Fig. 24c. *Jassa falcata* (17848) – L

RT3925 – *Pusillina inconspicua* (Figure 25a)

Substratum: Gravel. Salinity: Full. Depth: Infralittoral. Geography: N. E. England. Condition: Good-Fair, Medium.



Fig. 25a. *Pusillina inconspicua* (RT3925) – L

Thirteen generic and fifteen specific differences; Labs 03, 12, 13 and 23 identified as *Rissoa interrupta* or *R. parva* var. *interrupta* (Figure 25b); Labs 04, 05 and 07 identified as *R. parva*; (Figure 25c) (both of which may have a pinkish apical shell colour but lack a dark purple colour to the flesh at the apex); Labs 06 and 08 identified as *Pusillina sarsii* or *P. sarsi* (*sic.*) (Figure 25d) (which has a larger, broader shell); Labs 09 and 21 identified as *Hydrobia acuta neglecta* or *H. neglecta* (no material available); Lab 01 identified as *Ventrosia ventrosa* (Figure 25e); Lab 11 identified as *Hydrobia ulvae* (Figure 25f); Lab 10b identified as *Rissoella diaphana* (Figure 25g) (all of which lack any reddish pigment); Lab 20 identified as *Crisilla semistriata* (Figure 25h) (which has distinct spiral sculpture).



Fig. 25b. *Rissoa interrupta* (10633) – L



Fig. 25c. *Rissoa parva* (10633) – L



Fig. 25d. *Pusillina sarsii* (11039) – L



Fig. 25e. *Ventrosia ventrosa* (41609) – L



Fig. 25f. *Hydrobia ulvae* (41335) – L



Fig. 25g. *Rissoella diaphana* (10633) – L



Fig. 25h. *Crisilla semistriata* (21223) – L

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Please return all ring test specimens by 1st July 2011. These are reference collection specimens and must be returned to our museum. Your laboratory will be ineligible for future ring tests if specimens are not returned.

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