

The National Marine Biological  
Analytical Quality Control Scheme  
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Ring Test Bulletin – RTB#38

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**RING TEST DETAILS**

Ring Test #38

Type/Contents – Targeted; ‘Beginners’ Training Pack’ - Taxa without errors from previous RTs

Circulated – 07/12/2009

Completion Date – 05/02/2010

Number of Subscribing Laboratories – 24

Number of Participating Laboratories – 24

Number of Results Received – 35\*

\*multiple data entries per laboratory permitted

**Summary of differences**

Specimen	Genus	Species	Total differences for 35 returns	
			Genus	Species
RT3801	<i>Abra</i>	<i>alba</i>	2	3
RT3802	<i>Pomatoceros</i>	<i>lamarcki</i>	1	5
RT3803	<i>Heterochaeta</i>	<i>costata</i>	8	8
RT3804	<i>Macoma</i>	<i>balthica</i>	3	3
RT3805	<i>Eudorellopsis</i>	<i>deformis</i>	2	2
RT3806	<i>Spio</i>	<i>martinensis</i>	3	9
RT3807	<i>Goodallia</i>	<i>triangularis</i>	1	1
RT3808	<i>Poecilochaetus</i>	<i>serpens</i>	1	1
RT3809	<i>Sabellaria</i>	<i>alveolata</i>	1	3
RT3810	<i>Photis</i>	<i>longicaudata</i>	2	2
RT3811	<i>Pisione</i>	<i>remota</i>	1	1
RT3812	<i>Lagis</i>	<i>koreni</i>	6	6
RT3813	<i>Turritella</i>	<i>communis</i>	1	1
RT3814	<i>Kurtiella</i>	<i>bidentata</i>	3	3
RT3815	<i>Magelona</i>	<i>alleni</i>	1	6
RT3816	<i>Corbula</i>	<i>gibba</i>	2	2
RT3817	<i>Corophium</i>	<i>multisetosum</i>	1	4
RT3818	<i>Protodorvillea</i>	<i>kefersteini</i>	3	3
RT3819	<i>Tubificoides</i>	<i>benedii</i>	2	2
RT3820	<i>Acanthodoris</i>	<i>pilosa</i>	3	3
RT3821	<i>Caecum</i>	<i>glabrum</i>	1	1
RT3822	<i>Pseudoprotella</i>	<i>phasma</i>	10	10
RT3823	<i>Sternaspis</i>	<i>scutata</i>	2	2
RT3824	<i>Echinocyamus</i>	<i>pusillus</i>	1	1
RT3825	<i>Crepidula</i>	<i>fornicata</i>	6	6
Total differences			67	88
Average differences /lab.			1.9	2.5

Table 1. The identification of fauna made by participating laboratories for RT38 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3801	RT3802	RT3803	RT3804	RT3805	RT3806
Taxon	<i>Abra alba</i>	<i>Pomatoceros lamarcki</i>	<i>Heterochaeta costata</i>	<i>Macoma balthica</i>	<i>Eudorellopsis deformis</i>	<i>Spio martinensis</i>
LB1601	--	--	--	--	--	--
LB1602	--	--	--	--	--	--
LB1603	--	--	--	- [baltica]	--	- armata
LB1604	--	--	Tubificoides pseudogaster	--	--	--
LB1605a	--	--	--	--	--	--
LB1605b	--	- triqueter	--	Scrobicularia plana	--	- [martinensis]
LB1606	--	--	--	--	--	--
LB1607a	--	--	--	--	--	--
LB1607b	--	--	--	--	--	--
LB1607c	--	--	--	--	--	--
LB1608a	- nitida	- triqueter	--	--	Brachydiastylis resima	- armata agg.
LB1608b	--	--	--	--	--	--
LB1608c	--	--	--	--	--	--
LB1608d	--	--	--	--	--	--
LB1609	--	- triqueter	--	--	--	- filicornis
LB1610	--	[Pomatocerus] -	Lumbricillus 'unknown'	Nucula salcata	[Eudorellopsis] -	Pygospio elegans
LB1621a	--	- [lamarckii]	--	--	--	--
LB1621b	--	--	--	--	--	--
LB1621c	Spisula elliptica	--	Tubificoides pseudogaster	--	--	Minuspio multibranchiata
LB1621d	--	--	--	--	--	- armata agg.
LB1621e	--	--	--	--	--	- armata agg.
LB1621f	--	--	--	--	--	- armata
LB1622	--	--	--	--	--	--
LB1626	--	--	Tubificoides heterochaetus	--	--	--
LB1627	--	--	--	--	--	--
LB1629	--	--	--	--	--	--
LB1631	--	--	Tubificoides pseudogaster agg.	--	--	--
LB1632	--	--	Paranais litoralis	--	--	--
LB1633	--	--	--	--	--	--
LB1634	--	- triqueter	--	--	--	--
LB1635	--	--	--	--	--	--
LB1636	Semelidae ?	Serpulidae ?	??	Tellinidae ?	Leuconidae ?	Spionidae ?
LB1637	--	--	--	--	--	--
LB1638	--	--	Tubificoides pseudogaster (agg)	--	--	--
LB1639	--	--	--	--	--	--

Table 1. The identification of fauna made by participating laboratories for RT38 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3807	RT3808	RT3809	RT3810	RT3811	RT3812	RT3813
Taxon	<i>Goodallia triangularis</i>	<i>Poecilochaetus serpens</i>	<i>Sabellaria alveolata</i>	<i>Photis longicaudata</i>	<i>Pisione remota</i>	<i>Lagis koreni</i>	<i>Turritella communis</i>
LB1601	--	--	--	--	--	--	--
LB1602	--	--	--	--	--	--	--
LB1603	--	--	--	--	--	--	[Turitella] -
LB1604	--	--	--	--	--	--	--
LB1605a	--	--	--	--	--	--	--
LB1605b	[Goodalia] -	--	--	--	--	--	--
LB1606	--	--	--	--	--	--	--
LB1607a	--	--	--	--	--	[Pectinaria (Lagis)] -	--
LB1607b	--	--	--	--	--	[Pectinaria] -	--
LB1607c	--	--	--	--	--	[Pectinaria] -	--
LB1608a	--	--	--	Gammaropsis nitida	--	Pectinaria belgica	--
LB1608b	--	--	--	--	--	--	--
LB1608c	--	--	--	--	--	[Pectinaria / Lagis] -	--
LB1608d	--	--	--	--	--	[Pectinaria] -	--
LB1609	--	--	- spinulosa	--	--	[Pectinaria] -	--
LB1610	--	--	--	--	--	Pectinaria belgica	--
LB1621a	--	--	--	--	--	[Pectenaria] -	--
LB1621b	--	--	--	--	--	[Pectinaria] -	--
LB1621c	--	--	--	--	--	[Pectinaria] -	--
LB1621d	--	--	--	--	--	Pectinaria belgica	--
LB1621e	--	--	--	--	--	Pectinaria hyperborea	- [terebra]
LB1621f	--	--	--	--	--	[Pectinaria] -	--
LB1622	--	--	[Sabelaria] -	--	--	--	--
LB1626	--	--	--	--	--	[Pectinaria] -	--
LB1627	--	--	--	--	--	--	--
LB1629	--	--	--	--	--	[Pectinaria (lagis)] -	--
LB1631	[Goodalia] -	--	--	--	--	[Pectinaria] -	--
LB1632	--	--	--	--	--	Pectinaria belgica	--
LB1633	--	--	--	--	--	[Pectinaria ] -	--
LB1634	--	--	- spinulosa	--	--	--	--
LB1635	--	--	--	--	--	--	--
LB1636	Veneridae ?	Poecilochaetidae ?	Sabellariidae ?	Isaeidae ?	Pisionidae ?	Pectinariidae ?	Turritellidae ?
LB1637	--	--	--	--	--	--	--
LB1638	--	--	--	--	--	[Pectinaria] -	--
LB1639	--	--	--	--	--	[Pectinaria (Lagis)] -	--

Table 1. The identification of fauna made by participating laboratories for RT38 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3814	RT3815	RT3816	RT3817	RT3818	RT3819
Taxon	<i>Kurtiella bidentata</i>	<i>Magelona alleni</i>	<i>Corbula gibba</i>	<i>Corophium multisetosum</i>	<i>Protodorvillea kefersteini</i>	<i>Tubificoides benedii</i>
LB1601	[Mysella] -	--	--	--	--	--
LB1602	--	--	--	--	--	--
LB1603	[Mysella] -	--	--	--	--	--
LB1604	[Mysella] -	--	--	--	--	--
LB1605a	[Mysella] -	--	--	--	--	--
LB1605b	[Mysella] -	--	--	--	--	--
LB1606	[Mysella] -	--	--	--	--	--
LB1607a	--	--	--	--	--	--
LB1607b	--	--	--	--	--	--
LB1607c	--	--	--	--	--	--
LB1608a	[Mysella] -	- filliformis	--	--	--	--
LB1608b	[Mysella] -	--	--	--	--	--
LB1608c	[Mysella] -	--	--	--	--	--
LB1608d	[Mysella] -	--	--	--	--	--
LB1609	[Mysella] -	--	--	--	--	--
LB1610	[Mysella] -	- miribilis	--	--	Schistomeringos rudolphii	Monopylephorus irroratus
LB1621a	[Mysella] -	--	--	--	--	--
LB1621b	Tellimya ferruginosa	--	--	--	--	--
LB1621c	Tellimya ferruginosa	- wilsoni	--	- arenarium	--	--
LB1621d	[Mysella] -	--	--	--	--	--
LB1621e	[Mysella] -	--	--	--	--	--
LB1621f	--	--	--	--	--	--
LB1622	--	--	--	--	--	--
LB1626	[Mysella] -	--	--	--	--	- [benedeni]
LB1627	[Mysella] -	--	--	- urdaibaiense	--	--
LB1629	--	--	--	--	--	--
LB1631	[Mysella] -	--	--	--	--	--
LB1632	[Mysella] -	--	--	--	--	--
LB1633	[Mysella] -	--	--	--	--	--
LB1634	[Mysella] -	--	--	--	--	--
LB1635	--	--	--	--	--	--
LB1636	Montacutidae ?	Magelonidae ?	Corbulidae ?	Corophiidae ?	Dorvilleidae ?	??
LB1637	[Mysella] -	--	--	--	--	--
LB1638	--	- minuta	Cuspidaria cuspidata	- volutator	Exogone dispar	--
LB1639	--	- minuta	--	--	--	--

Table 1. The identification of fauna made by participating laboratories for RT38 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3820	RT3821	RT3822	RT3823	RT3824	RT3825
Taxon	<i>Acanthodoris pilosa</i>	<i>Caecum glabrum</i>	<i>Pseudoprotella phasma</i>	<i>Sternaspis scutata</i>	<i>Echinocyamus pusillus</i>	<i>Crepidula fornicata</i>
LB1601	--	--	--	--	[Echinocyamis] -	--
LB1602	--	--	--	--	--	--
LB1603	--	--	--	--	--	--
LB1604	--	--	--	--	--	--
LB1605a	--	--	[Pseodoprotella] -	[Sternapsis] -	--	--
LB1605b	--	--	--	[Sternapsis] -	--	--
LB1606	--	--	--	--	--	--
LB1607a	--	--	--	--	--	--
LB1607b	--	--	--	--	--	--
LB1607c	--	--	--	--	--	--
LB1608a	--	--	Caprella acanthifera	--	--	Acmaea virginea
LB1608b	--	--	--	--	--	--
LB1608c	--	--	--	--	--	--
LB1608d	--	--	--	--	--	--
LB1609	Archidoris pseudoargus	--	Caprella septentrionalis	--	--	--
LB1610	--	--	Caprella septentrionalis	--	--	--
LB1621a	--	--	--	--	--	--
LB1621b	--	--	--	--	--	--
LB1621c	Sagartia elegans	--	--	--	--	Acmaea virginea
LB1621d	--	--	--	--	--	--
LB1621e	--	--	--	--	--	--
LB1621f	--	--	--	--	--	--
LB1622	--	--	--	--	--	--
LB1626	--	--	Caprella scaura	--	--	--
LB1627	--	--	--	--	--	--
LB1629	--	--	Caprella fretensis	--	--	??
LB1631	--	--	--	??	--	--
LB1632	--	--	Aeginina longicornis	--	--	--
LB1633	--	--	--	--	--	--
LB1634	--	--	Caprella fretensis	--	--	Tectura virginea
LB1635	--	--	--	--	--	--
LB1636	??	Caecidae ?	Caprellidae ?	Sternaspidae ?	??	Calypttraeidae ?
LB1637	--	--	--	--	--	--
LB1638	--	--	Aeginina longicornis	--	--	Capulus ungaricus
LB1639	--	--	Caprella linearis	--	--	--

**Table 2. The identification of fauna made by participating laboratories for RT38 (arranged by participant). Names are given only where different from the AQC identification.**

	<b>Taxon</b>	<b>LB1601</b>	<b>LB1602</b>	<b>LB1603</b>	<b>LB1604</b>	<b>LB1605a</b>	<b>LB1605b</b>	<b>LB1606</b>	<b>LB1607a</b>
RT3801	<i>Abra alba</i>	--	--	--	--	--	--	--	--
RT3802	<i>Pomatoceros lamarcki</i>	--	--	--	--	--	- triqueter	--	--
RT3803	<i>Heterochaeta costata</i>	--	--	--	Tubificoides pseudogaster	--	--	--	--
RT3804	<i>Macoma balthica</i>	--	--	- [baltica]	--	--	Scrobicularia plana	--	--
RT3805	<i>Eudorellopsis deformis</i>	--	--	--	--	--	--	--	--
RT3806	<i>Spio martinensis</i>	--	--	- armata	--	--	- [martinensis]	--	--
RT3807	<i>Goodallia triangularis</i>	--	--	--	--	--	[Goodalia] -	--	--
RT3808	<i>Poecilochaetus serpens</i>	--	--	--	--	--	--	--	--
RT3809	<i>Sabellaria alveolata</i>	--	--	--	--	--	--	--	--
RT3810	<i>Photis longicaudata</i>	--	--	--	--	--	--	--	--
RT3811	<i>Pisione remota</i>	--	--	--	--	--	--	--	--
RT3812	<i>Lagis koreni</i>	--	--	--	--	--	--	--	[Pectinaria (Lagis)] -
RT3813	<i>Turritella communis</i>	--	--	[Turitella] -	--	--	--	--	--
RT3814	<i>Kurtiella bidentata</i>	[Mysella] -	--	[Mysella] -	[Mysella] -	[Mysella] -	[Mysella] -	[Mysella] -	--
RT3815	<i>Magelona alleni</i>	--	--	--	--	--	--	--	--
RT3816	<i>Corbula gibba</i>	--	--	--	--	--	--	--	--
RT3817	<i>Corophium multisetosum</i>	--	--	--	--	--	--	--	--
RT3818	<i>Protodorvillea kefersteini</i>	--	--	--	--	--	--	--	--
RT3819	<i>Tubificoides benedii</i>	--	--	--	--	--	--	--	--
RT3820	<i>Acanthodoris pilosa</i>	--	--	--	--	--	--	--	--
RT3821	<i>Caecum glabrum</i>	--	--	--	--	--	--	--	--
RT3822	<i>Pseudoprotella phasma</i>	--	--	--	--	[Pseudoprotella] -	--	--	--
RT3823	<i>Sternaspis scutata</i>	--	--	--	--	[Sternapsis] -	[Sternapsis] -	--	--
RT3824	<i>Echinocyamus pusillus</i>	[Echinocyamis] -	--	--	--	--	--	--	--
RT3825	<i>Crepidula fornicata</i>	--	--	--	--	--	--	--	--

**Table 2. The identification of fauna made by participating laboratories for RT38 (arranged by participant). Names are given only where different from the AQC identification.**

	<b>Taxon</b>	<b>LB1607b</b>	<b>LB1607c</b>	<b>LB1608a</b>	<b>LB1608b</b>	<b>LB1608c</b>	<b>LB1608d</b>	<b>LB1609</b>
RT3801	<i>Abra alba</i>	--	--	- nitida	--	--	--	--
RT3802	<i>Pomatoceros lamarcki</i>	--	--	- triqueter	--	--	--	- triqueter
RT3803	<i>Heterochaeta costata</i>	--	--	--	--	--	--	--
RT3804	<i>Macoma balthica</i>	--	--	--	--	--	--	--
RT3805	<i>Eudorellopsis deformis</i>	--	--	Brachydiastylis resima	--	--	--	--
RT3806	<i>Spio martinensis</i>	--	--	- armata agg.	--	--	--	- filicornis
RT3807	<i>Goodallia triangularis</i>	--	--	--	--	--	--	--
RT3808	<i>Poecilochaetus serpens</i>	--	--	--	--	--	--	--
RT3809	<i>Sabellaria alveolata</i>	--	--	--	--	--	--	- spinulosa
RT3810	<i>Photis longicaudata</i>	--	--	Gammaropsis nitida	--	--	--	--
RT3811	<i>Pisione remota</i>	--	--	--	--	--	--	--
RT3812	<i>Lagis koreni</i>	[Pectinaria] -	[Pectinaria] -	Pectinaria belagica	--	[Pectinaria / Lagis] -	[Pectinaria] -	[Pectinaria] -
RT3813	<i>Turritella communis</i>	--	--	--	--	--	--	--
RT3814	<i>Kurtiella bidentata</i>	--	--	[Mysella] -	[Mysella] -	[Mysella] -	[Mysella] -	[Mysella] -
RT3815	<i>Magelona alleni</i>	--	--	- filliformis	--	--	--	--
RT3816	<i>Corbula gibba</i>	--	--	--	--	--	--	--
RT3817	<i>Corophium multisetosum</i>	--	--	--	--	--	--	--
RT3818	<i>Protodorvillea kefersteini</i>	--	--	--	--	--	--	--
RT3819	<i>Tubificoides benedii</i>	--	--	--	--	--	--	--
RT3820	<i>Acanthodoris pilosa</i>	--	--	--	--	--	--	Archidoris pseudoargus
RT3821	<i>Caecum glabrum</i>	--	--	--	--	--	--	--
RT3822	<i>Pseudoprotella phasma</i>	--	--	Caprella acanthifera	--	--	--	Caprella septentrionalis
RT3823	<i>Sternaspis scutata</i>	--	--	--	--	--	--	--
RT3824	<i>Echinocyamus pusillus</i>	--	--	--	--	--	--	--
RT3825	<i>Crepidula fornicata</i>	--	--	Acmaea virginea	--	--	--	--



**Table 2. The identification of fauna made by participating laboratories for RT38 (arranged by participant). Names are given only where different from the AQC identification.**

	<b>Taxon</b>	<b>LB1610</b>	<b>LB1621a</b>	<b>LB1621b</b>	<b>LB1621c</b>	<b>LB1621d</b>	<b>LB1621e</b>	<b>LB1621f</b>
RT3801	<i>Abra alba</i>	--	--	--	Spisula elliptica	--	--	--
RT3802	<i>Pomatoceros lamarcki</i>	[Pomatocerus] -	- [lamarckii]	--	--	--	--	--
RT3803	<i>Heterochaeta costata</i>	Lumbricillus 'unknown'	--	--	Tubificoides pseudogaster	--	--	--
RT3804	<i>Macoma balthica</i>	Nucula salcata	--	--	--	--	--	--
RT3805	<i>Eudorellopsis deformis</i>	[Eudorellopsis] -	--	--	--	--	--	--
RT3806	<i>Spio martinensis</i>	Pygospio elegans	--	--	Minuspio multibranchiata	- armata agg.	- armata agg.	- armata
RT3807	<i>Goodallia triangularis</i>	--	--	--	--	--	--	--
RT3808	<i>Poecilochaetus serpens</i>	--	--	--	--	--	--	--
RT3809	<i>Sabellaria alveolata</i>	--	--	--	--	--	--	--
RT3810	<i>Photis longicaudata</i>	--	--	--	--	--	--	--
RT3811	<i>Pisione remota</i>	--	--	--	--	--	--	--
RT3812	<i>Lagis koreni</i>	Pectinaria belgica	[Pectenaria] -	[Pectenaria] -	[Pectenaria] -	Pectinaria belgica	Pectinaria hyperborea	[Pectenaria] -
RT3813	<i>Turritella communis</i>	--	--	--	--	--	- [terebra]	--
RT3814	<i>Kurtiella bidentata</i>	[Mysella] -	[Mysella] -	Tellimya ferruginosa	Tellimya ferruginosa	[Mysella] -	[Mysella] -	--
RT3815	<i>Magelona alleni</i>	- miribilis	--	--	- wilsoni	--	--	--
RT3816	<i>Corbula gibba</i>	--	--	--	--	--	--	--
RT3817	<i>Corophium multisetosum</i>	--	--	--	- arenarium	--	--	--
RT3818	<i>Protodorvillea kefersteini</i>	Schistomeringos rudolphii	--	--	--	--	--	--
RT3819	<i>Tubificoides benedii</i>	Monopylephorus irroratus	--	--	--	--	--	--
RT3820	<i>Acanthodoris pilosa</i>	--	--	--	Sagartia elegans	--	--	--
RT3821	<i>Caecum glabrum</i>	--	--	--	--	--	--	--
RT3822	<i>Pseudoprotella phasma</i>	Caprella septentrionalis	--	--	--	--	--	--
RT3823	<i>Sternaspis scutata</i>	--	--	--	--	--	--	--
RT3824	<i>Echinocyamus pusillus</i>	--	--	--	--	--	--	--
RT3825	<i>Crepidula fornicata</i>	--	--	--	Acmae virginea	--	--	--

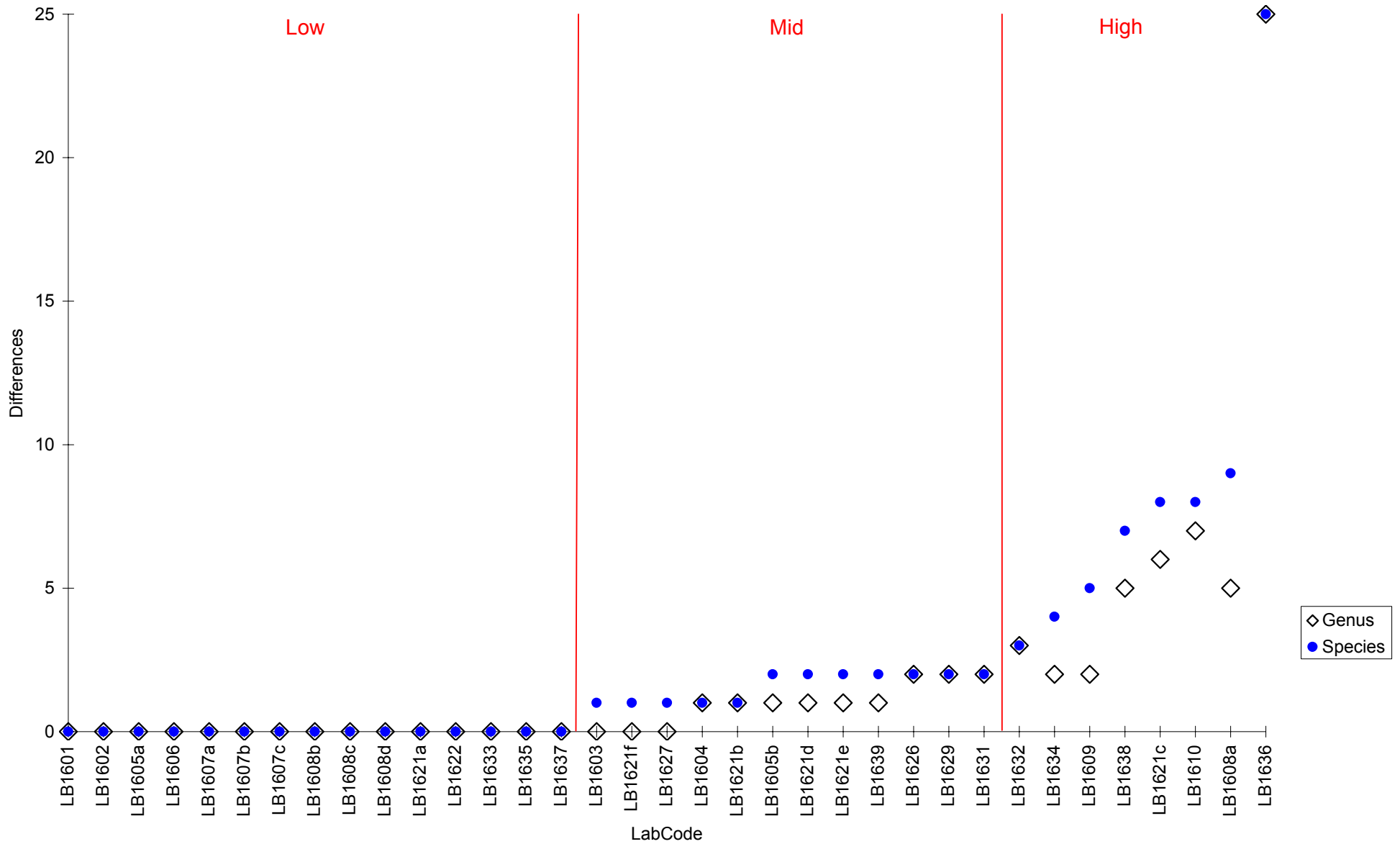
**Table 2. The identification of fauna made by participating laboratories for RT38 (arranged by participant). Names are given only where different from the AQC identification.**

	<b>Taxon</b>	<b>LB1622</b>	<b>LB1626</b>	<b>LB1627</b>	<b>LB1629</b>	<b>LB1631</b>	<b>LB1632</b>	<b>LB1633</b>
RT3801	<i>Abra alba</i>	--	--	--	--	--	--	--
RT3802	<i>Pomatoceros lamarcki</i>	--	--	--	--	--	--	--
RT3803	<i>Heterochaeta costata</i>	--	Tubificoides heterochaetus	--	--	Tubificoides pseudogaster agg.	Paranais litoralis	--
RT3804	<i>Macoma balthica</i>	--	--	--	--	--	--	--
RT3805	<i>Eudorellopsis deformis</i>	--	--	--	--	--	--	--
RT3806	<i>Spio martinensis</i>	--	--	--	--	--	--	--
RT3807	<i>Goodallia triangularis</i>	--	--	--	--	[Goodalia] -	--	--
RT3808	<i>Poecilochaetus serpens</i>	--	--	--	--	--	--	--
RT3809	<i>Sabellaria alveolata</i>	[Sabellaria] -	--	--	--	--	--	--
RT3810	<i>Photis longicaudata</i>	--	--	--	--	--	--	--
RT3811	<i>Pisione remota</i>	--	--	--	--	--	--	--
RT3812	<i>Lagis koreni</i>	--	[Pectinaria] -	--	[Pectinaria (lagis)] -	[Pectinaria] -	Pectinaria belgica	[Pectinaria] -
RT3813	<i>Turritella communis</i>	--	--	--	--	--	--	--
RT3814	<i>Kurtiella bidentata</i>	--	[Mysella] -	[Mysella] -	--	[Mysella] -	[Mysella] -	[Mysella] -
RT3815	<i>Magelona alleni</i>	--	--	--	--	--	--	--
RT3816	<i>Corbula gibba</i>	--	--	--	--	--	--	--
RT3817	<i>Corophium multisetosum</i>	--	--	- urdaibaiense	--	--	--	--
RT3818	<i>Protodorvillea kefersteini</i>	--	--	--	--	--	--	--
RT3819	<i>Tubificoides benedii</i>	--	- [benedeni]	--	--	--	--	--
RT3820	<i>Acanthodoris pilosa</i>	--	--	--	--	--	--	--
RT3821	<i>Caecum glabrum</i>	--	--	--	--	--	--	--
RT3822	<i>Pseudoprotella phasma</i>	--	Caprella scaura	--	Caprella fretensis	--	Aeginina longicornis	--
RT3823	<i>Sternaspis scutata</i>	--	--	--	--	??	--	--
RT3824	<i>Echinocyamus pusillus</i>	--	--	--	--	--	--	--
RT3825	<i>Crepidula fornicata</i>	--	--	--	??	--	--	--

**Table 2. The identification of fauna made by participating laboratories for RT38 (arranged by participant). Names are given only where different from the AQC identification.**

	<b>Taxon</b>	<b>LB1634</b>	<b>LB1635</b>	<b>LB1636</b>	<b>LB1637</b>	<b>LB1638</b>	<b>LB1639</b>
RT3801	<i>Abra alba</i>	--	--	Semelidae ?	--	--	--
RT3802	<i>Pomatoceros lamarcki</i>	- triqueter	--	Serpulidae ?	--	--	--
RT3803	<i>Heterochaeta costata</i>	--	--	??	--	Tubificoides pseudogaster (agg)	--
RT3804	<i>Macoma balthica</i>	--	--	Tellinidae ?	--	--	--
RT3805	<i>Eudorellopsis deformis</i>	--	--	Leuconidae ?	--	--	--
RT3806	<i>Spio martinensis</i>	--	--	Spionidae ?	--	--	--
RT3807	<i>Goodallia triangularis</i>	--	--	Veneridae ?	--	--	--
RT3808	<i>Poecilochaetus serpens</i>	--	--	Poecilochaetidae ?	--	--	--
RT3809	<i>Sabellaria alveolata</i>	- spinulosa	--	Sabellariidae ?	--	--	--
RT3810	<i>Photis longicaudata</i>	--	--	Isaeidae ?	--	--	--
RT3811	<i>Pisione remota</i>	--	--	Pisionidae ?	--	--	--
RT3812	<i>Lagis koreni</i>	--	--	Pectinariidae ?	--	[Pectinaria] -	[Pectinaria (Lagis)] -
RT3813	<i>Turritella communis</i>	--	--	Turritellidae ?	--	--	--
RT3814	<i>Kurtiella bidentata</i>	[Mysella] -	--	Montacutidae ?	[Mysella] -	--	--
RT3815	<i>Magelona alleni</i>	--	--	Magelonidae ?	--	- minuta	- minuta
RT3816	<i>Corbula gibba</i>	--	--	Corbulidae ?	--	Cuspidaria cuspidata	--
RT3817	<i>Corophium multisetosum</i>	--	--	Corophiidae ?	--	- volutator	--
RT3818	<i>Protodorvillea kefersteini</i>	--	--	Dorvilleidae ?	--	Exogone dispar	--
RT3819	<i>Tubificoides benedii</i>	--	--	??	--	--	--
RT3820	<i>Acanthodoris pilosa</i>	--	--	??	--	--	--
RT3821	<i>Caecum glabrum</i>	--	--	Caecidae ?	--	--	--
RT3822	<i>Pseudoprotella phasma</i>	Caprella fretensis	--	Caprellidae ?	--	Aeginina longicornis	Caprella linearis
RT3823	<i>Sternaspis scutata</i>	--	--	Sternaspididae ?	--	--	--
RT3824	<i>Echinocyamus pusillus</i>	--	--	??	--	--	--
RT3825	<i>Crepidula fornicata</i>	Tectura virginea	--	Calyptraeidae ?	--	Capulus ungaricus	--

**Figure 1. The number of differences from the AQC identification of specimens distributed in RT38 for each of the participating laboratories. Arranged in order of increasing number of differences.**



### **Specimen Images and Detailed Breakdown of Identifications**

LabCodes are abbreviated in this report to exclude the Scheme year, *i.e.* LB1601a = 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 Unicmarine Ltd.

This report follows the classification listed in the WoRMS online database, unless this is known to be incorrect or out of date.

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

#### **RT3801 – *Abra alba* (Figure 1a)**

Substratum: Muddy Sand. Salinity: Full. Depth: Circalittoral. Geography: East Anglia. Condition: Good, Medium/Large.



Fig. 1a. *Abra alba* (RT3801) – L

Two generic and three specific differences: Lab 08a identified as *Abra nitida* (Figure 1b) (which has a more elongated, equilateral and glossy shell); Lab 21c identified as *Spisula elliptica* (Figure 1c) (which has thicker shell that is more tumid across the valves); Lab 36 identified correctly as Semelidae (identification is required to species for RT exercises).



Fig. 1b. *Abra nitida* (26206) - L



Fig. 1c. *Spisula elliptica* (22110) - L

#### **RT3802 – *Pomatoceros lamarcki* (Figure 2a)**

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: S. E. Ireland. Condition: Good/Fair, Medium/Large.



Fig. 2a. *Pomatoceros lamarcki* (RT3802) – L

One generic and five specific differences: Labs 05b, 08a, 09 and 34 identified as *P. triqueter* (Figure 2b) (which has a shallow opercular ampulla); Lab 36 identified correctly as Serpulidae (identification is required to species for RT exercises).

Lab 10 incorrectly spelt the genus; Lab 21a incorrectly spelt the species.

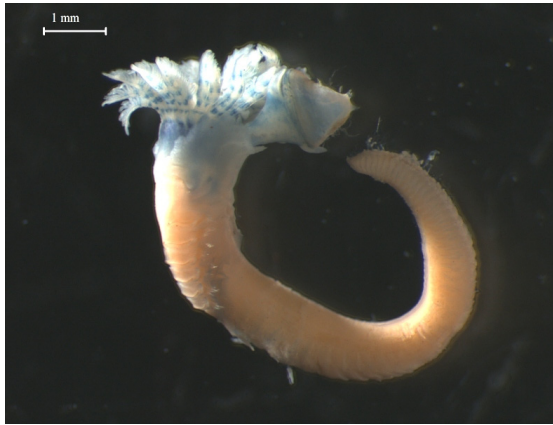


Fig. 2b. *Pomatoceros triqueter* (45565) - L

**RT3803 – *Heterochaeta costata* (Figure 3a)**

Substratum: Mud. Salinity: Low. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Medium.



Fig. 3a. *Heterochaeta costata* (RT3803) - L

Eight generic and eight specific differences: Labs 04, 21c, 31 and 38 identified as *Tubificoides pseudogaster* or *Tubificoides pseudogaster* agg. (Figure 3b); Lab 26 identified as *Tubificoides heterochaetus* (Figure 3c); Lab 10 identified as *Lumbricillus* sp. (Figure 3d shows *Enchytraeidae*); Lab 32 identified as *Paranais litoralis* (Figure 3e) (all of which lack palmate chaetae); Lab 36 did not supply data for this specimen (identification is required to species for RT exercises).



Fig. 3b. *Tubificoides pseudogaster* agg. (35333) - L

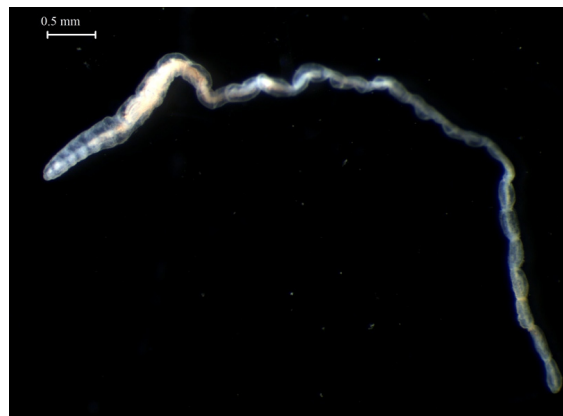


Fig. 3c. *Tubificoides heterochaetus* (45013) - L

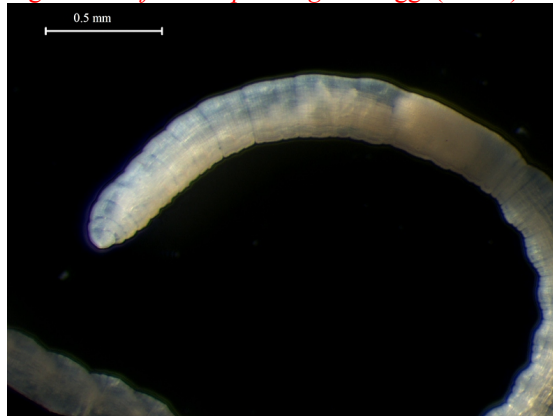


Fig. 3d. *Enchytraeidae* (33827) - L



Fig. 3e. *Paranais litoralis* (44936) - L

**RT3804 – *Macoma balthica* (Figure 4a)**

Substratum: Mud. Salinity: Slightly Reduced. Depth: Infralittoral. Geography: East Anglia. Condition: Good, Large.



Fig. 4a. *Macoma balthica* (RT3804) - L

Three generic and three specific differences: Lab 05b identified as *Scrobicularia plana* (Figure 4b) (which has an equilateral shell); Lab 10 identified as *Nucula sulcata* (sic.) (Figure 4c) (which is not typically estuarine and has a crenulated margin); Lab 36 identified correctly as Tellinidae (identification is required to species for RT exercises).

Lab 03 incorrectly spelt the species.



Fig. 4b. *Scrobicularia plana* (35528) - L

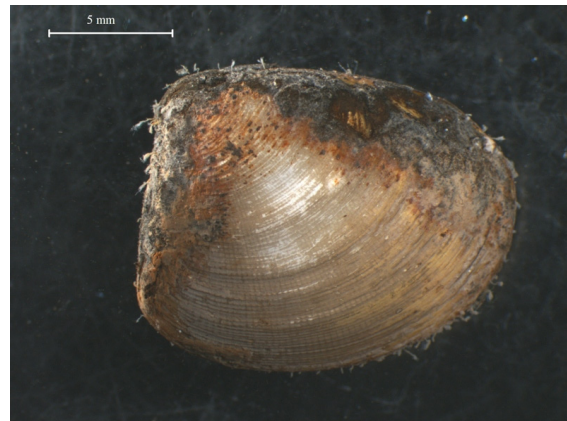


Fig. 4c. *Nucula sulcata* (39471) - L

**RT3805 – *Eudorellopsis deformis* (Figure 5a)**

Substratum: Sand. Salinity: Full. Depth: Circalittoral. Geography: North Sea. Condition: Good, Medium/Small (Female).



Fig. 5a. *Eudorellopsis deformis* (RT3805) – L

Two generic and two specific differences: Lab 08a identified as *Brachydiastylis resima* (no material available) (which has an elongate differentiated telson); Lab 36 identified correctly as Leuconidae (identification is required to species for RT exercises).

Lab 10 incorrectly spelt the genus.

**RT3806 – *Spio martinensis* (Figure 6a)**

Substratum: Muddy Sand. Salinity: Full. Depth: Intertidal. Geography: N. Wales. Condition: Good, Medium/Small.



Fig. 6a. *Spio martinensis* (RT3806) – L

Three generic and nine specific differences: Labs 03, 08a, 21d, 21e and 21f identified as *Spio armata* or *Spio armata* agg. (Figure 6b) (which have neuropodial hooded hooks commencing from at least chaetiger 16); Lab 09 identified as *Spio filicornis* (Figure 6c) (which has neuropodial hooded hooks commencing on chaetiger 11 or 12 and has fully developed branchiae on chaetiger 1); Lab 10 identified as *Pygospio elegans* (Figure 6d) (which has branchiae from chaetiger 8); Lab 21c identified as *Minuspio multibranchiata* (Figure 6e) (which has branchiae limited to the anterior chaetigers); Lab 36 identified correctly as Spionidae (identification is required to species fro RT exercises).

Lab 05b incorrectly spelt the species.



Fig. 6b. *Spio armata* agg. (11957) - DL



Fig. 6c. *Spio filicornis* (11049) - L



Fig. 6d. *Pygospio elegans* (9606) - D



Fig. 6e. *Minuspio* cf. *multibranchiata* (40833) - L



**RT3807 – *Goodallia triangularis* (Figure 7a)**

Substratum: Gravel. Salinity: Full. Depth: Circalittoral. Geography: Northern Ireland. Condition: Good, Medium.



Fig. 7a. *Goodallia triangularis* (RT3807) – L

One generic and one specific difference: Lab 36 identified incorrectly as Veneridae, *Goodallia triangularis* is assigned to the family Astartiidae (identification is required to species for RT exercises).

Labs 05b and 31 incorrectly spelt the genus.

**RT3808 – *Poecilochaetus serpens* (Figure 8a)**

Substratum: Muddy Sand. Salinity: Full. Depth: Circalittoral. Geography: N. W. England. Condition: Good/Fair, Medium.



Fig. 8a. *Poecilochaetus serpens* (RT3808) – D

One generic and one specific difference: Lab 36 identified correctly as Poecilochaetidae (identification is required to species for RT exercises).

**RT3809 – *Sabellaria alveolata* (Figure 9a)**

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: S. E. Ireland. Condition: Good/Fair, Large.



Fig. 9a. *Sabellaria alveolata* (RT3809) – D

One generic and three specific differences: Labs 09 and 34 identified as *Sabellaria spinulosa* (Figure 9b) (which has sickle-shaped and pointed opercular chaetae); Lab 36 identified correctly as Sabellaridae (identification is required to species for RT exercises).

Lab 22 incorrectly spelt the genus.



Fig. 9b. *Sabellaria spinulosa* (8481) - D

**RT3810 – *Photis longicaudata* (Figure 10a)**

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: Northern Ireland. Condition: Fair, Large.



Fig. 10a. *Photis longicaudata* (RT3810) – L

Two generic and two specific differences: Lab 08a identified as *Gammaropsis nitida* (Figure 10b) (which has subequal uropod 3 rami and lacks a rounded ocular lobe); Lab 36 identified incorrectly as Isaeidae, *Photis longicaudata* is assigned to the family Photidae (identification is required to species for RT exercises).



Fig. 10b. *Gammaropsis nitida* (7254) - L

**RT3811 – *Pisione remota* (Figure 11a)**

Substratum: Sand. Salinity: Full. Depth: Circalittoral. Geography: North Sea. Condition: Fair, Variable.



Fig. 11a. *Pisione remota* (RT3811) – D

One generic and one specific difference: Lab 36 identified correctly as Pisionidae (identification is required to species for RT exercises).

**RT3812 – *Lagis koreni* (Figure 12a)**

Substratum: Muddy Sand. Salinity: Full. Depth: Circalittoral. Geography: N. W. England. Condition: Good, Medium.



Fig. 12a. *Lagis koreni* (RT3812) – L

Six generic and six specific differences: Labs 08a, 10, 21d, and 32 identified as *Pectinaria belgica* (Figure 12b); Lab 21e identified as *Pectinaria hyperborea* (Figure 12c) (both of which have more (17) notochaetae); Lab 36 identified correctly as Pectinariidae (identification is required to species for RT exercises).

Labs 07a, 07b, 07c, 08c, 08d, 09, 21a, 21b, 21c, 21f, 26, 29, 31, 33, 38 and 39 recorded the synonym *Pectinaria koreni*.



Fig. 12b. *Pectinaria belgica* (9202-0106) - L



Fig. 12c. *Pectinaria hyperborea* (JirkovColn) - D

**RT3813 – *Turritella communis* (Figure 13a)**

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Good, Medium/Large.



Fig. 13a. *Turritella communis* (RT3813) – L

One generic and one specific difference: Lab 36 identified correctly as Turritellidae (identification is required to species for RT exercises).

Lab 03 incorrectly spelt the genus.

Lab 21e recorded the synonym *Turritella terebra*.

**RT3814 – *Kurtiella bidentata* (Figure 14a)**

Substratum: Muddy Sand. Salinity: Full. Depth: Circalittoral. Geography: N. W. England. Condition: Good, Medium.



Fig. 14a. *Kurtiella bidentata* (RT3814) – L

Three generic and three specific differences: Labs 21b and 21c identified as *Tellimya ferruginosa* (Figure 14b) (which has a more elongate shell); Lab 36 identified correctly as Montacutidae (identification is required to species for RT exercises).

Labs 01, 03, 04, 05a, 05b, 06, 08a, 08b, 08c, 08d, 09, 10, 21a, 21d, 21e, 26, 27, 31, 32, 33, 34 and 37 recorded the synonym *Mysella bidentata*.

Additional Literature:  
Gofas & Salas (2008).

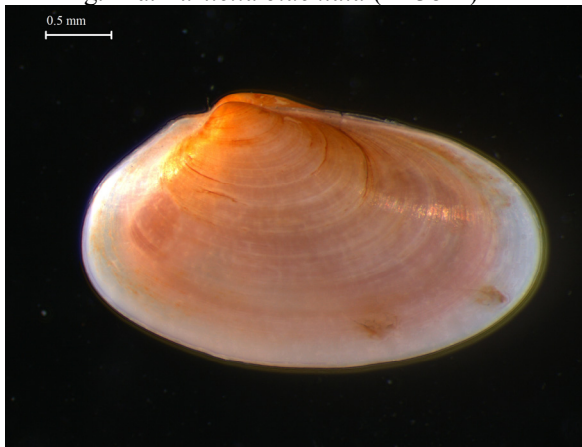


Fig. 14b. *Tellimya ferruginosa* (7469) - L

**RT3815 – *Magelona alleni* (Figure 15a)**

Substratum: Muddy Sand. Salinity: Full. Depth: Circalittoral. Geography: N. W. England. Condition: Poor/Fair, Medium/Large.



Fig. 15a. *Magelona alleni* (RT3815) – D

One generic and six specific differences: Lab 08a identified as *Magelona filiformis* (sic.) (Figure 15b); Lab 10 identified as *Magelona miribilis* (sic.) (Figure 15c shows a similar species *M. johnstoni*) (both of which have an elongated prostomium); Lab 21c identified as *Magelona wilsoni* (no material available) (which has prostomial ‘horns’); Labs 38 and 39 identified as *Magelona minuta* (Figure 15d) (which is a small form with bidentate abdominal hooks); Lab 36 identified correctly as Magelonidae (identification is required to species for RT exercises).



Fig. 15b. *Magelona filiformis* (41251) - D



Fig. 15c. *Magelona johnstoni* (38749) - D



Fig. 15d. *Magelona minuta* (40920) - D

**RT3816 – *Corbula gibba* (Figure 16a)**

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: Northern Ireland. Condition: Good, Large.



Fig. 16a. *Corbula gibba* (RT3816) – L



Fig. 16b. *Cuspidaria cuspidata* (31625) - L

**RT3817 – *Corophium multisetosum* (Figure 17a)**

Substratum: Mud. Salinity: Low. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Large (Female).



Fig. 17a. *Corophium multisetosum* (RT3817) – L

Two generic and two specific differences: Lab 38 identified as *Cuspidaria cuspidata* (Figure 16b) (which has a distinct posterior projection); Lab 36 identified correctly as Corbulidae (identification is required to species for RT exercises).

One generic and four specific differences: Lab 21c identified as *Corophium arenarium* (Figure 17b); Lab 38 identified as *Corophium volutator* (Figure 17c) (both of which lack a produced lateral lobe on the peduncle of uropod 3); Lab 27 identified as *Corophium urdaibaiense* (no material available) (which lacks spines on the inner margin of antenna 1 peduncle article 1); Lab 36 identified correctly as Corophiidae (identification is required to species for RT exercises).



Fig. 17b. *Corophium arenarium* (35839) - L



Fig. 17c. *Corophium volutator* (10785) - L

**RT3818 – *Protodorvillea kefersteini* (Figure 18a)**

Substratum: Sand. Salinity: Full. Depth: Circalittoral. Geography: North Sea. Condition: Fair, Medium.



Fig. 18a. *Protodorvillea kefersteini* (RT3818) – D

Three generic and three specific differences: Lab 10 identified as *Schistomeringos rudolphii* (Figure 18b) (which has an elongated dorsal cirrus divided into two sections); Lab 38 identified as *Exogone dispar* (Figure 18c shows a similar species *E. hebes*) (which has a proventriculus); Lab 36 identified correctly as Dorvilleidae (identification is required to species for RT exercises).



Fig. 18b. *Schistomeringos rudolphii* (38875) - D



Fig. 18c. *Exogone hebes* (13495) - D

**RT3819 – *Tubificoides benedii* (Figure 19a)**

Substratum: Mud. Salinity: Low. Depth: Infralittoral. Geography: Northern Ireland. Condition: Poor/Fair, Medium.



Fig. 19a. *Tubificoides benedii* (RT3819) – DL



Fig. 19b. *Monopylephorus irroratus* (9310-04083) - DL

Two generic and two specific differences: Lab 10 identified as *Monopylephorus irroratus* (Figure 19b) (which lacks papillations and has hair chaetae); Lab 36 did not supply data for this specimen (identification is required to species for RT exercises).

Lab 26 incorrectly spelt the species.

**RT3820 – *Acanthodoris pilosa* (Figure 20a)**

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: East Anglia. Condition: Good, Medium.



Fig. 20a. *Acanthodoris pilosa* (RT3820) – L

Three generic and three specific differences: Lab 09 identified as *Archidoris pseudoargus* (Figure 20b) (which has rounded mantle tubercles); Lab 21c identified as *Sagartia elegans* (Figure 20c shows Sargartiidae) (which has radial symmetry); Lab 36 did not supply data for this specimen (identification is required to species for RT exercises).



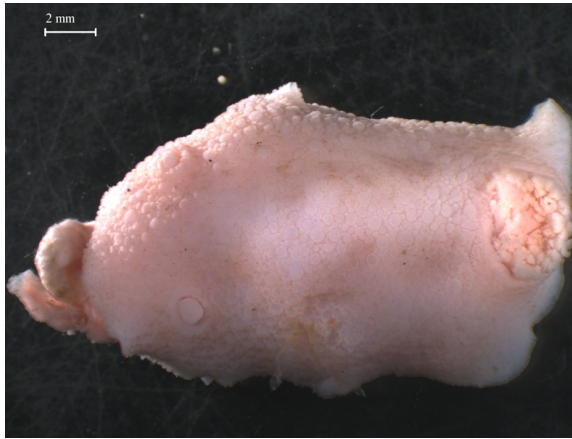


Fig. 20b. *Archidoris pseudoargus* (9531) - D



Fig. 20c Sagartiidae (8074) - L

**RT38021 – *Caecum glabrum* (Figure 21a)**

Substratum: Maerl. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Good, Medium.



Fig. 21a. *Caecum glabrum* (RT3821) – L

One generic and one specific difference: Lab 36 identified correctly as Caecidae (identification is required to species for RT exercises).

**RT3822 – *Pseudoprotella phasma* (Figure 22a)**

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: W. Scotland. Condition: Poor, Small.

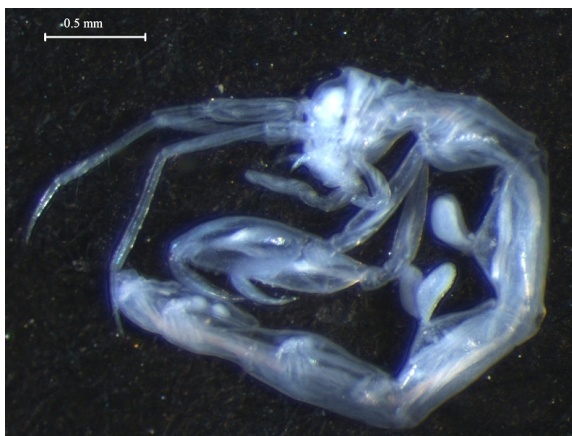


Fig. 22a. *Pseudoprotella phasma* (RT3822) – L

Ten generic and ten specific differences: Lab 08a identified as *Caprella acanthifera* (Figure 22b); Labs 09 and 10 identified as *Caprella septentrionalis* (no material available); Lab 26 identified as *Caprella scaura* (no material available); Labs 29 and 34 identified as *Caprella fretensis* (Figure 22c); Lab 39 identified as *Caprella linearis* (Figure 22d); Labs 32 and 38 identified as *Aeginina longicornis* (an Arctic species; no material available) (all of which lack minute, 2 segmented pereopods 3 and 4); Lab 36 identified correctly as Caprellidae (identification is required to species for RT exercises).

Labs 05a incorrectly spelt the genus

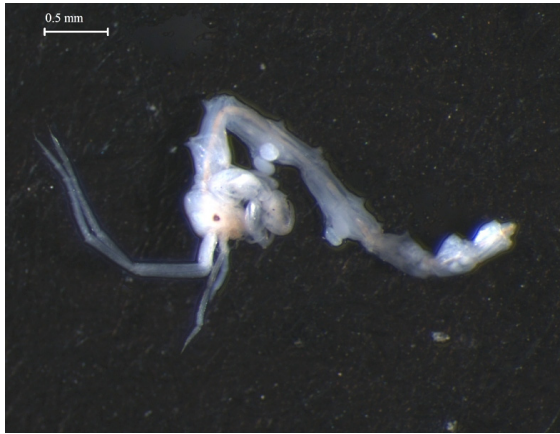


Fig. 22b. *Caprella acanthifera* (45561) - L



Fig. 22c *Caprella fretensis* (42295) - L

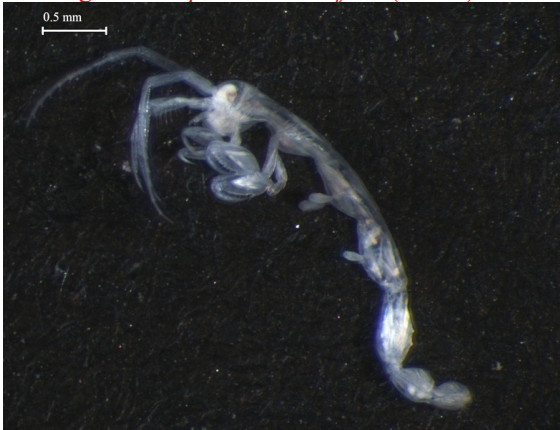


Fig. 22d *Caprella linearis* (8221) - L

**RT3823 – *Sternaspis scutata* (Figure 23a)**

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Good, Medium.



Fig. 23a. *Sternaspis scutata* (RT3823) – V

Two generic and two specific differences: Lab 36 identified correctly as Sternaspidae (identification is required to species for RT exercises); Lab 31 did not supply data for this specimen (identification is required to species for RT exercises).

Labs 05a and 05b incorrectly spelt the genus.

**RT3824 – *Echinocyamus pusillus* (Figure 24a)**

Substratum: Gravel. Salinity: Full. Depth: Circalittoral. Geography: English Channel. Condition: Good, Medium.

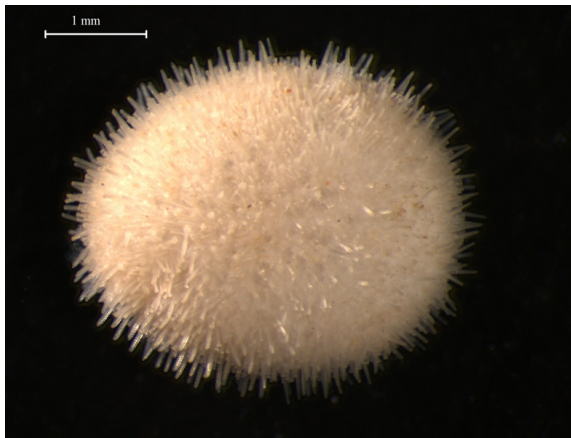


Fig. 24a. *Echinocyamus pusillus* (RT3824) – D

One generic and one specific difference; Lab 36 did not supply data for this specimen (identification is required to species for RT exercises).

Lab 01 incorrectly spelt the genus.

**RT3825 – *Crepidula fornicata* (Figure 25a)**

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: English Channel. Condition: Fair, Small.

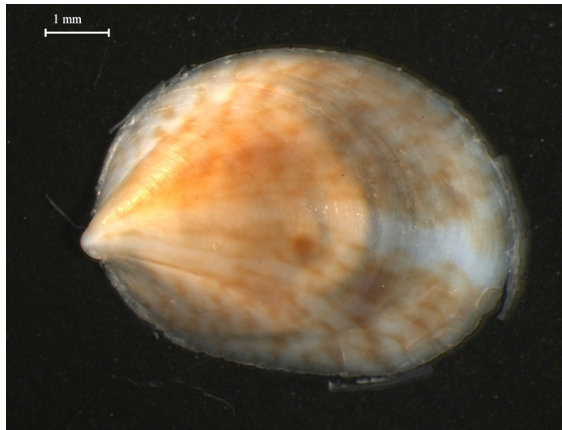


Fig. 25a. *Crepidula fornicata* (RT3825) – D

Six generic and six specific differences: Labs 08a, 21c and 34 identified as *Tectura virginea* or the synonym *Acmaea virginea* (Figure 25b) (which has a non-spiral apex); Lab 38 identified as *Capulus ungaricus* (Figure 25c) (which has spiral sculpture); Lab 36 identified correctly as Calyptraeidae (identification is required to species for RT exercises); Lab 29 did not supply data for this specimen (identification is required to species for RT exercises).

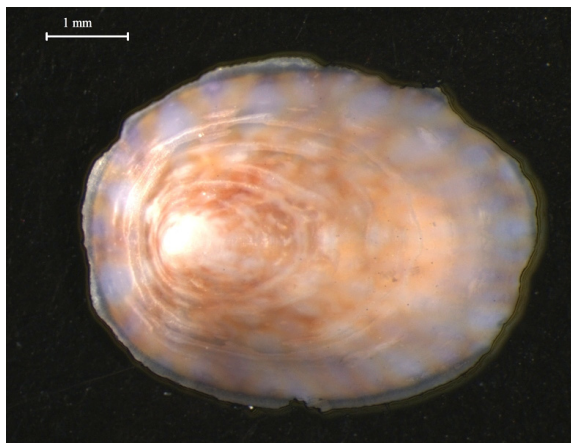


Fig. 25b. *Tectura virginea* (42295) - D



Fig. 25c. *Capulus ungaricus* (31564) - L

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### **Specimen Labels**

These ring test specimens should **not** be returned to Unicomarine Ltd. A sheet of labels is provided for incorporating these specimens into in-house reference collections.

<p><b>NMBAQC Scheme</b>  <i>Abra alba</i>  Location: East Anglia  Gear: Hamon Grab  FullCode #: RT38 Sp01</p>	<p><b>NMBAQC Scheme</b>  <i>Pomatoceros lamarcki</i>  Location: S.E.Ireland  Gear: Dredge  FullCode #: RT38 Sp02</p>	<p><b>NMBAQC Scheme</b>  <i>Heterochaeta costata</i>  Location: S.E.England  Gear: Day Grab  FullCode #: RT38 Sp03</p>	<p><b>NMBAQC Scheme</b>  <i>Macoma balthica</i>  Location: East Anglia  Gear: Core  FullCode #: RT38 Sp04</p>
<p><b>NMBAQC Scheme</b>  <i>Eudorellopsis deformis</i>  Location: North Sea  Gear: Day Grab  FullCode #: RT38 Sp05</p>	<p><b>NMBAQC Scheme</b>  <i>Spio martinensis</i>  Location: N.Wales  Gear: Core  FullCode #: RT38 Sp06</p>	<p><b>NMBAQC Scheme</b>  <i>Goodallia triangularis</i>  Location: Northern Ireland  Gear: Day Grab  FullCode #: RT38 Sp07</p>	<p><b>NMBAQC Scheme</b>  <i>Poecilochaetus serpens</i>  Location: N.W.England  Gear: Day Grab  FullCode #: RT38 Sp08</p>
<p><b>NMBAQC Scheme</b>  <i>Sabellaria alveolata</i>  Location: S.E.Ireland  Gear: Beam Trawl  FullCode #: RT38 Sp09</p>	<p><b>NMBAQC Scheme</b>  <i>Photis longicaudata</i>  Location: Northern Ireland  Gear: Day Grab  FullCode #: RT38 Sp10</p>	<p><b>NMBAQC Scheme</b>  <i>Pisione remota</i>  Location: North Sea  Gear: Hamon Grab  FullCode #: RT38 Sp11</p>	<p><b>NMBAQC Scheme</b>  <i>Lagis koreni</i>  Location: N.W.England  Gear: Day Grab  FullCode #: RT38 Sp12</p>
<p><b>NMBAQC Scheme</b>  <i>Turritella communis</i>  Location: S.W.England  Gear: Day Grab  FullCode #: RT38 Sp13</p>	<p><b>NMBAQC Scheme</b>  <i>Kurtiella bidentata</i>  Location: N.W.England  Gear: Day Grab  FullCode #: RT38 Sp14</p>	<p><b>NMBAQC Scheme</b>  <i>Magelona alleni</i>  Location: N.W.England  Gear: Day Grab  FullCode #: RT38 Sp15</p>	<p><b>NMBAQC Scheme</b>  <i>Corbula gibba</i>  Location: Northern Ireland  Gear: Day Grab  FullCode #: RT38 Sp16</p>
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