

The National Marine Biological
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Ring Test Bulletin – RTB#35

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RING TEST DETAILS

Ring Test #35

Type/Contents – General/Mixed

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Number of Subscribing Laboratories – 25

Number of Participating Laboratories – 24

Number of Results Received – 28*

*multiple data entries per laboratory permitted

Summary of differences

Specimen	Genus	Species	Total differences for (28) participants	
			Genus	Species
RT3501	<i>Melinna</i>	<i>albicincta</i>	1	14
RT3502	<i>Elminius</i>	<i>modestus</i>	2	2
RT3503	<i>Melinna</i>	<i>palmata</i>	1	3
RT3504	<i>Ophelina</i>	<i>cylindricaudata</i>	5	14
RT3505	<i>Aora</i>	<i>gracilis</i>	1	5
RT3506	<i>Monocorophium</i>	<i>sextonae</i>	4	5
RT3507	<i>Nucula</i>	<i>nitidosa</i>	0	5
RT3508	<i>Flabelligera</i>	<i>affinis</i>	3	3
RT3509	<i>Potamopyrgus</i>	<i>antipodarum</i>	1	1
RT3510	<i>Araphura</i>	<i>brevimana</i>	4	4
RT3511	<i>Lepas</i>	<i>anatifera</i>	0	3
RT3512	<i>Urothoe</i>	<i>elegans</i>	0	0
RT3513	<i>Harpinia</i>	<i>crenulata</i>	1	3
RT3514	<i>Monocorophium</i>	<i>insidiosum</i>	6	16
RT3515	<i>Alitta</i>	<i>succinea</i>	23	23
RT3516	<i>Alkmaria</i>	<i>romijni</i>	3	3
RT3517	<i>Ophelia</i>	<i>borealis</i>	1	5
RT3518	<i>Fabricia</i>	<i>stellaris</i>	5	5
RT3519	<i>Aphelochaeta</i>	<i>marioni</i>	6	10
RT3520	<i>Pleurogonium</i>	<i>rubicundum</i>	4	4
RT3521	<i>Nucula</i>	<i>nucleus</i>	0	6
RT3522	<i>Parvicardium</i>	<i>minimum</i>	0	9
RT3523	<i>Spisula</i>	<i>subtruncata</i>	1	5
RT3524	<i>Ophelina</i>	<i>cylindricaudata</i>	2	3
RT3525	<i>Amphibalanus</i>	<i>improvisus</i>	20	20
Total differences			94	171
Average differences /lab.			3.4	6.1

Table 1. The identification of fauna made by participating laboratories for RT35 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3501	RT3502	RT3503	RT3504	RT3505	RT3506
Taxon	<i>Melinna albicincta</i>	<i>Elminius modestus</i>	<i>Melinna palmata</i>	<i>Ophelina cylindricaudata</i>	<i>Aora gracilis</i>	<i>Monocorophium sextonae</i>
LB1501	- cristata	--	--	--	--	Corophium arenarium
LB1502	Ampharete lindstroemi	Balanus balanoides	Terebellides stroemi	0 0	Corophium spp.	Corophium spp.
LB1503	--	--	--	--	--	- [sexatone]
LB1504	- elizabethae	--	--	--	--	--
LB1505	--	--	--	--	--	--
LB1506a	--	--	- cristata	- modesta	- typica	[Corophium] -
LB1506b	- [albicinata]	--	- cristata	- modesta	- typica	[Corophium] -
LB1507	- [albcincta]	Semibalanus balanoides	--	- modesta	--	[Corophium] -
LB1508	--	--	--	--	--	[Corophium] -
LB1509	--	--	--	--	--	--
LB1510	--	--	--	--	--	--
LB1511	- elizabethae	--	--	- modesta	--	[Corophium] -
LB1512	- elizabethae	--	--	- abbranchiata	--	[Corophium] -
LB1513	- cristata	--	--	--	--	--
LB1514a	--	--	--	Armandia polyphthalma	--	--
LB1514b	--	--	--	Armandia polyphthalma	--	--
LB1514c	--	--	--	Armandia polyophthalma	--	- acherusicum
LB1515	- cristata	--	--	- modesta	- typica	[Corophium] -
LB1516	- cristata	--	--	--	--	--
LB1519	--	--	--	--	--	[Corophium] -
LB1520	- cristata	--	--	- modesta	--	[Corophium] -
LB1521	- cristata	--	--	- modesta	--	[Corophium] -
LB1522	- cristata	[Eulimus] [modesta]	--	--	--	Corophium crassicorne
LB1523	- elizabethae	--	--	Ophelia rathkei	--	Unciola crenatipalma
LB1524	[Mellina] cristata	--	[Mellina] -	--	- typica	[Corophium] -
LB1525a	--	--	--	--	--	--
LB1525b	--	--	--	- [?cylindricaudata]	--	--
LB1535	- cristata	--	--	- sp.	--	[Corophium] -

Table 1. The identification of fauna made by participating laboratories for RT35 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3507	RT3508	RT3509	RT3510	RT3511	RT3512	RT3513
Taxon	<i>Nucula nitidosa</i>	<i>Flabelligera affinis</i>	<i>Potamopyrgus antipodarum</i>	<i>Araphura brevimana</i>	<i>Lepas anatifera</i>	<i>Urothoe elegans</i>	<i>Harpinia crenulata</i>
LB1501	--	<i>Pherusa flabellata</i>	<i>Hydrobia neglecta</i>	--	--	--	--
LB1502	- nucleus	<i>Diplocirrus glacicus</i>	- [jenkins]	<i>Leptognathia</i> spp.	--	--	0 0
LB1503	[Nuclula] -	--	--	<i>Anathrura simplex</i>	--	--	--
LB1504	--	--	--	--	--	--	--
LB1505	--	--	--	--	--	--	--
LB1506a	--	--	- [jenkinsii]	--	- hillii	--	--
LB1506b	--	--	- [jenkinsi]	--	--	--	--
LB1507	--	--	[Potamopyrgus] [jenkensi]	[Leptognathia] [breimana]	[Lepas] -	--	--
LB1508	--	--	--	--	--	--	--
LB1509	--	--	--	- [brevimanus]	--	--	--
LB1510	--	--	--	- [brevimanus]	--	--	--
LB1511	- nucleus	--	--	[Leptognathia] -	- anserifera	--	--
LB1512	--	--	--	--	--	--	[Harpinnia] -
LB1513	- hanleyi	--	--	[Leptognathia] [breviman]	--	--	--
LB1514a	--	--	[Pomatopyrgus] -	--	--	--	--
LB1514b	--	--	[Pomatopyrgus] -	--	--	--	--
LB1514c	--	--	--	--	--	--	--
LB1515	[Nucleus] -	0 0	[Poatamopyrgus] -	- [brevimanus]	--	--	--
LB1516	--	--	--	[Leptognathia] [brevimanus]	--	--	--
LB1519	--	--	--	--	- pectinata	--	--
LB1520	--	--	--	--	--	--	- laevis
LB1521	--	--	--	[Leptognathia] [brevimanus]	--	--	--
LB1522	--	--	[Potamopyrgus] -	--	--	--	--
LB1523	- hanleyi	--	--	<i>Heterotanais oerstedii</i>	- [anatiferas]	--	--
LB1524	- hanleyii	--	- [jenkinsii]	<i>Tanaissus lilljeborgi</i>	--	--	- laevis
LB1525a	--	--	- [jenkinsi]	[Leptognathia] -	--	--	--
LB1525b	--	--	--	--	--	--	--
LB1535	--	--	- [jenkinsi]	[Leptognathus] -	--	--	--

Table 1. The identification of fauna made by participating laboratories for RT35 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3514	RT3515	RT3516	RT3517	RT3518	RT3519
Taxon	<i>Monocorophium insidiosum</i>	<i>Alitta succinea</i>	<i>Alkmaria romijni</i>	<i>Ophelia borealis</i>	<i>Fabricia stellaris</i>	<i>Aphelocheata marioni</i>
LB1501	[Corophium] sextonae	Hediste diversicolor	--	--	--	- species A
LB1502	0 0	Nereis pelagica	Pectinaria auricoma	Ophelina acuminata	Sabellidae 0	0 0
LB1503	Apocorophium acutum	Hediste diversicolor	--	--	--	--
LB1504	--	Hediste diversicolor	--	--	Manayunkia aestuarina	--
LB1505	--	[Neanthes] -	--	--	--	--
LB1506a	[Corophium] acherusicum	Nereis zonata	--	[Ophelina] -	- [sabella]	--
LB1506b	[Corophium] acherusicum	Nereis longissima	--	[Ophelina] -	- [sabella]	--
LB1507	[Corophium] acherusicum	Hediste diversicolor	--	- limacina	- [sabella]	- A
LB1508	[Corophium] acherusicum	[Neanthes] -	--	--	- [sabella]	--
LB1509	--	Hediste diversicolor	--	--	- [sabella]	--
LB1510	- acherusicum	Hediste diversicolor	--	- neglecta	- [sabella]	--
LB1511	[Corophium] -	[Neanthes] -	--	--	- [sabella]	Cauleriella zetlandica
LB1512	[Corophium] acherusicum	Hediste diversicolor	Lysippe labiata	--	Fabriciola cf berkeleyi	--
LB1513	Corophium bonellii	Hediste diversicolor	--	--	--	- mcintoshii
LB1514a	--	Hediste diversicolor	- [romijini]	--	- [sabella]	[Aphelocheata] -
LB1514b	--	Hediste diversicolor	- [romijini]	--	- [sabella]	[Aphelocheata] -
LB1514c	- acherusicum	Hediste diversicolor	--	--	- [sabella]	--
LB1515	[Corophium] acherusicum	Hediste diversicolor	--	[Ophelina] -	Fabriciola cf berkleyi	Tharyx sp.A
LB1516	--	Hediste diversicolor	--	--	--	--
LB1519	[Corophium] -	[Neanthes] -	--	--	--	--
LB1520	Corophium bonellii	Hediste diversicolor	--	--	- [sabella]	Aphelocheata/Tharyx sp.
LB1521	[Corophium] -	Nereis pelagica	--	--	--	--
LB1522	Corophium bonnellii	[Nereis (Neanthes)] -	--	- bicornis	- [sabella]	- sp. A
LB1523	Corophium acutum	Neanthes irrorata	Pterolysippe vanelli	- limacina	Fabricola baltica	Tharyx killariensis
LB1524	[Corophium] acherusicum	Nereis pelagica	[Alkmaria] -	--	--	Tharyx A
LB1525a	--	Hediste (Nereis) diversicolor	--	--	- [sabella]	--
LB1525b	--	Hediste (Nereis) diversicolor	--	--	- [sabella]	--
LB1535	[Corophium] -	Hediste diversicolor	[Alkmarija] -	--	--	--

Table 1. The identification of fauna made by participating laboratories for RT35 (arranged by specimen). Names are given only where different from the AQC identification.

	RT3520	RT3521	RT3522	RT3523	RT3524	RT3525
Taxon	<i>Pleurogonium rubicundum</i>	<i>Nucula nucleus</i>	<i>Parvicardium minimum</i>	<i>Spisula subtruncata</i>	<i>Ophelina cylindrica</i>	<i>Amphibalanus improvisus</i>
LB1501	--	--	--	- elliptica	--	Chirona hameri
LB1502	0 0	- hanleyi	--	Abra alba??	0 0	Balanus crenatus
LB1503	--	--	- scabrum	--	Ophelia celtica	Elminius modestus
LB1504	--	--	--	--	--	Balanus crenatus
LB1505	- [rubicundum]	--	--	--	--	--
LB1506a	--	- hanleyi	--	--	--	Balanus crenatus
LB1506b	--	- sulcata	--	--	--	Balanus crenatus
LB1507	--	- hanleyi	- ovale	--	--	Balanus balanus
LB1508	- [rubicundum]	--	--	--	--	Balanus crenatus
LB1509	--	--	--	--	--	Balanus crenatus
LB1510	--	--	- scabrum	--	--	Balanus crenatus
LB1511	--	- sulcata	- scabrum	--	--	[Balanus] -
LB1512	--	--	--	--	--	Balanus crenatus
LB1513	--	--	--	--	--	[Balanus] -
LB1514a	--	--	--	--	- [cylindrica]	Chirona hameri
LB1514b	--	--	--	--	- [cylindrica]	Chirona hameri
LB1514c	--	--	--	--	--	Chirona hameri
LB1515	Paramunna bilobata	--	--	--	--	[Balanus] -
LB1516	--	--	--	--	--	[Balanus] -
LB1519	--	--	- scabrum	--	--	[Balanus] -
LB1520	--	--	- scabrum	--	--	Balanus crenatus
LB1521	--	--	- ovale	- elliptica	--	--
LB1522	--	--	--	--	--	Balanus crenatus
LB1523	Munna koyeri	--	- scabrum	--	- modesta	Balanus crenatus
LB1524	Munna armoricana	--	--	- elliptica	--	Balanus perforatus
LB1525a	--	--	--	--	--	--
LB1525b	--	--	--	--	--	Balanus crenatus
LB1535	--	- sulcata	- scabrum	- elliptica	--	Chirona hameri

Table 2. The identification of fauna made by participating laboratories for RT35 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1501	LB1502	LB1503	LB1504	LB1505
RT3501	<i>Melinna albicincta</i>	- cristata	Ampharete lindstroemi	--	- elizabethae	--
RT3502	<i>Elminius modestus</i>	--	Balanus balanoides	--	--	--
RT3503	<i>Melinna palmata</i>	--	Terebellides stroemi	--	--	--
RT3504	<i>Ophelina cylindricaudata</i>	--	0 0	--	--	--
RT3505	<i>Aora gracilis</i>	--	Corophium spp.	--	--	--
RT3506	<i>Monocorophium sextonae</i>	Corophium arenarium	Corophium spp.	- [sexatone]	--	--
RT3507	<i>Nucula nitidosa</i>	--	- nucleus	[Nuclula] -	--	--
RT3508	<i>Flabelligera affinis</i>	Pherusa flabellata	Diplocirrus glacicus	--	--	--
RT3509	<i>Potamopyrgus antipodarum</i>	Hydrobia neglecta	- [jenkins]	--	--	--
RT3510	<i>Araphura brevimana</i>	--	Leptognathia spp.	Anathrura simplex	--	--
RT3511	<i>Lepas anatifera</i>	--	--	--	--	--
RT3512	<i>Urothoe elegans</i>	--	--	--	--	--
RT3513	<i>Harpinia crenulata</i>	--	0 0	--	--	--
RT3514	<i>Monocorophium insidiosum</i>	[Corophium] sextonae	0 0	Apocorophium acutum	--	--
RT3515	<i>Alitta succinea</i>	Hediste diversicolor	Nereis pelagica	Hediste diversicolor	Hediste diversicolor	[Neanthes] -
RT3516	<i>Alkmaria romijni</i>	--	Pectinaria auricoma	--	--	--
RT3517	<i>Ophelia borealis</i>	--	Ophelina acuminata	--	--	--
RT3518	<i>Fabricia stellaris</i>	--	Sabellidae 0	--	Manayunkia aestuarina	--
RT3519	<i>Aphelochaeta marioni</i>	- species A	0 0	--	--	--
RT3520	<i>Pleurogonium rubicundum</i>	--	0 0	--	--	- [rubicundum]
RT3521	<i>Nucula nucleus</i>	--	- hanleyi	--	--	--
RT3522	<i>Parvicardium minimum</i>	--	--	- scabrum	--	--
RT3523	<i>Spisula subtruncata</i>	- elliptica	Abra alba??	--	--	--
RT3524	<i>Ophelina cylindricaudata</i>	--	0 0	Ophelia celtica	--	--
RT3525	<i>Amphibalanus improvisus</i>	Chirona hameri	Balanus crenatus	Elminius modestus	Balanus crenatus	--

Table 2. The identification of fauna made by participating laboratories for RT35 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1506a	LB1506b	LB1507	LB1508	LB1509
RT3501	<i>Melinna albicincta</i>	--	- [albicinata]	- [albicincta]	--	--
RT3502	<i>Elminius modestus</i>	--	--	Semibalanus balanoides	--	--
RT3503	<i>Melinna palmata</i>	- cristata	- cristata	--	--	--
RT3504	<i>Ophelina cylindricaudata</i>	- modesta	- modesta	- modesta	--	--
RT3505	<i>Aora gracilis</i>	- typica	- typica	--	--	--
RT3506	<i>Monocorophium sextonae</i>	[Corophium] -	[Corophium] -	[Corophium] -	[Corophium] -	--
RT3507	<i>Nucula nitidosa</i>	--	--	--	--	--
RT3508	<i>Flabelligera affinis</i>	--	--	--	--	--
RT3509	<i>Potamopyrgus antipodarum</i>	- [jenkinsii]	- [jenkinsi]	[Potamopyrgus] [jenkensi]	--	--
RT3510	<i>Araphura brevimana</i>	--	--	[Leptognathia] [breimana]	--	- [brevimanus]
RT3511	<i>Lepas anatifera</i>	- hillii	--	[Lepus] -	--	--
RT3512	<i>Urothoe elegans</i>	--	--	--	--	--
RT3513	<i>Harpinia crenulata</i>	--	--	--	--	--
RT3514	<i>Monocorophium insidiosum</i>	[Corophium] acherusicum	[Corophium] acherusicum	[Corophium] acherusicum	[Corophium] acherusicum	--
RT3515	<i>Alitta succinea</i>	Nereis zonata	Nereis longissima	Hediste diversicolor	[Neanthes] -	Hediste diversicolor
RT3516	<i>Alkmaria romijni</i>	--	--	--	--	--
RT3517	<i>Ophelia borealis</i>	[Ophelina] -	[Ophelina] -	- limacina	--	--
RT3518	<i>Fabricia stellaris</i>	- [sabella]	- [sabella]	- [sabella]	- [sabella]	- [sabella]
RT3519	<i>Aphelochaeta marioni</i>	--	--	- A	--	--
RT3520	<i>Pleurogonium rubicundum</i>	--	--	--	- [rubicundum]	--
RT3521	<i>Nucula nucleus</i>	- hanleyi	- sulcata	- hanleyi	--	--
RT3522	<i>Parvicardium minimum</i>	--	--	- ovale	--	--
RT3523	<i>Spisula subtruncata</i>	--	--	--	--	--
RT3524	<i>Ophelina cylindricaudata</i>	--	--	--	--	--
RT3525	<i>Amphibalanus improvisus</i>	Balanus crenatus	Balanus crenatus	Balanus balanus	Balanus crenatus	Balanus crenatus

Table 2. The identification of fauna made by participating laboratories for RT35 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1510	LB1511	LB1512	LB1513	LB1514a
RT3501	<i>Melinna albicincta</i>	--	- elisabethae	- elisabethae	- cristata	--
RT3502	<i>Elminius modestus</i>	--	--	--	--	--
RT3503	<i>Melinna palmata</i>	--	--	--	--	--
RT3504	<i>Ophelina cylindricaudata</i>	--	- modesta	- abbranchiata	--	Armandia polyphthalma
RT3505	<i>Aora gracilis</i>	--	--	--	--	--
RT3506	<i>Monocorophium sextonae</i>	--	[Corophium] -	[Corophium] -	--	--
RT3507	<i>Nucula nitidosa</i>	--	- nucleus	--	- hanleyi	--
RT3508	<i>Flabelligera affinis</i>	--	--	--	--	--
RT3509	<i>Potamopyrgus antipodarum</i>	--	--	--	--	[Potamopyrgus] -
RT3510	<i>Araphura brevimana</i>	- [brevimanus]	[Leptognathia] -	--	[Leptognathia] [breviman]	--
RT3511	<i>Lepas anatifera</i>	--	- anserifera	--	--	--
RT3512	<i>Urothoe elegans</i>	--	--	--	--	--
RT3513	<i>Harpinia crenulata</i>	--	--	[Harpinnia] -	--	--
RT3514	<i>Monocorophium insidiosum</i>	- acherusicum	[Corophium] -	[Corophium] acherusicum	Corophium bonelli	--
RT3515	<i>Alitta succinea</i>	Hediste diversicolor	[Neanthes] -	Hediste diversicolor	Hediste diversicolor	Hediste diversicolor
RT3516	<i>Alkmaria romijni</i>	--	--	Lysippe labiata	--	- [romijini]
RT3517	<i>Ophelia borealis</i>	- neglecta	--	--	--	--
RT3518	<i>Fabricia stellaris</i>	- [sabella]	- [sabella]	Fabriciola cf berkeleyi	--	- [sabella]
RT3519	<i>Aphelochoaeta marioni</i>	--	Caulleriella zetlandica	--	- mcintoshii	[Aphelochoaeta] -
RT3520	<i>Pleurogonium rubicundum</i>	--	--	--	--	--
RT3521	<i>Nucula nucleus</i>	--	- sulcata	--	--	--
RT3522	<i>Parvicardium minimum</i>	- scabrum	- scabrum	--	--	--
RT3523	<i>Spisula subtruncata</i>	--	--	--	--	--
RT3524	<i>Ophelina cylindricaudata</i>	--	--	--	--	- [cylindricaudata]
RT3525	<i>Amphibalanus improvisus</i>	Balanus crenatus	[Balanus] -	Balanus crenatus	[Balanus] -	Chirona hameri

Table 2. The identification of fauna made by participating laboratories for RT35 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1514b	LB1514c	LB1515	LB1516
RT3501	<i>Melinna albicincta</i>	--	--	- cristata	- cristata
RT3502	<i>Elminius modestus</i>	--	--	--	--
RT3503	<i>Melinna palmata</i>	--	--	--	--
RT3504	<i>Ophelina cylindricaudata</i>	Armandia polyphthalma	Armandia polyophthalma	- modesta	--
RT3505	<i>Aora gracilis</i>	--	--	- typica	--
RT3506	<i>Monocorophium sextonae</i>	--	- acherusicum	[Corophium] -	--
RT3507	<i>Nucula nitidosa</i>	--	--	[Nucleus] -	--
RT3508	<i>Flabelligera affinis</i>	--	--	0 0	--
RT3509	<i>Potamopyrgus antipodarum</i>	[Potamopyrgus] -	--	[Potamopyrgus] -	--
RT3510	<i>Araphura brevimana</i>	--	--	- [brevimanus]	[Leptognathia] [brevimanus]
RT3511	<i>Lepas anatifera</i>	--	--	--	--
RT3512	<i>Urothoe elegans</i>	--	--	--	--
RT3513	<i>Harpinia crenulata</i>	--	--	--	--
RT3514	<i>Monocorophium insidiosum</i>	--	- acherusicum	[Corophium] acherusicum	--
RT3515	<i>Alitta succinea</i>	Hediste diversicolor	Hediste diversicolor	Hediste diversicolor	Hediste diversicolor
RT3516	<i>Alkmaria romijni</i>	- [romijini]	--	--	--
RT3517	<i>Ophelia borealis</i>	--	--	[Ophelina] -	--
RT3518	<i>Fabricia stellaris</i>	- [sabella]	- [sabella]	Fabriciola cf berkleyi	--
RT3519	<i>Aphelochaeta marioni</i>	[Aphelochaeta] -	--	Tharyx sp.A	--
RT3520	<i>Pleurogonium rubicundum</i>	--	--	Paramunna bilobata	--
RT3521	<i>Nucula nucleus</i>	--	--	--	--
RT3522	<i>Parvicardium minimum</i>	--	--	--	--
RT3523	<i>Spisula subtruncata</i>	--	--	--	--
RT3524	<i>Ophelina cylindricaudata</i>	- [cylindricaudata]	--	--	--
RT3525	<i>Amphibalanus improvisus</i>	Chirona hameri	Chirona hameri	[Balanus] -	[Balanus] -

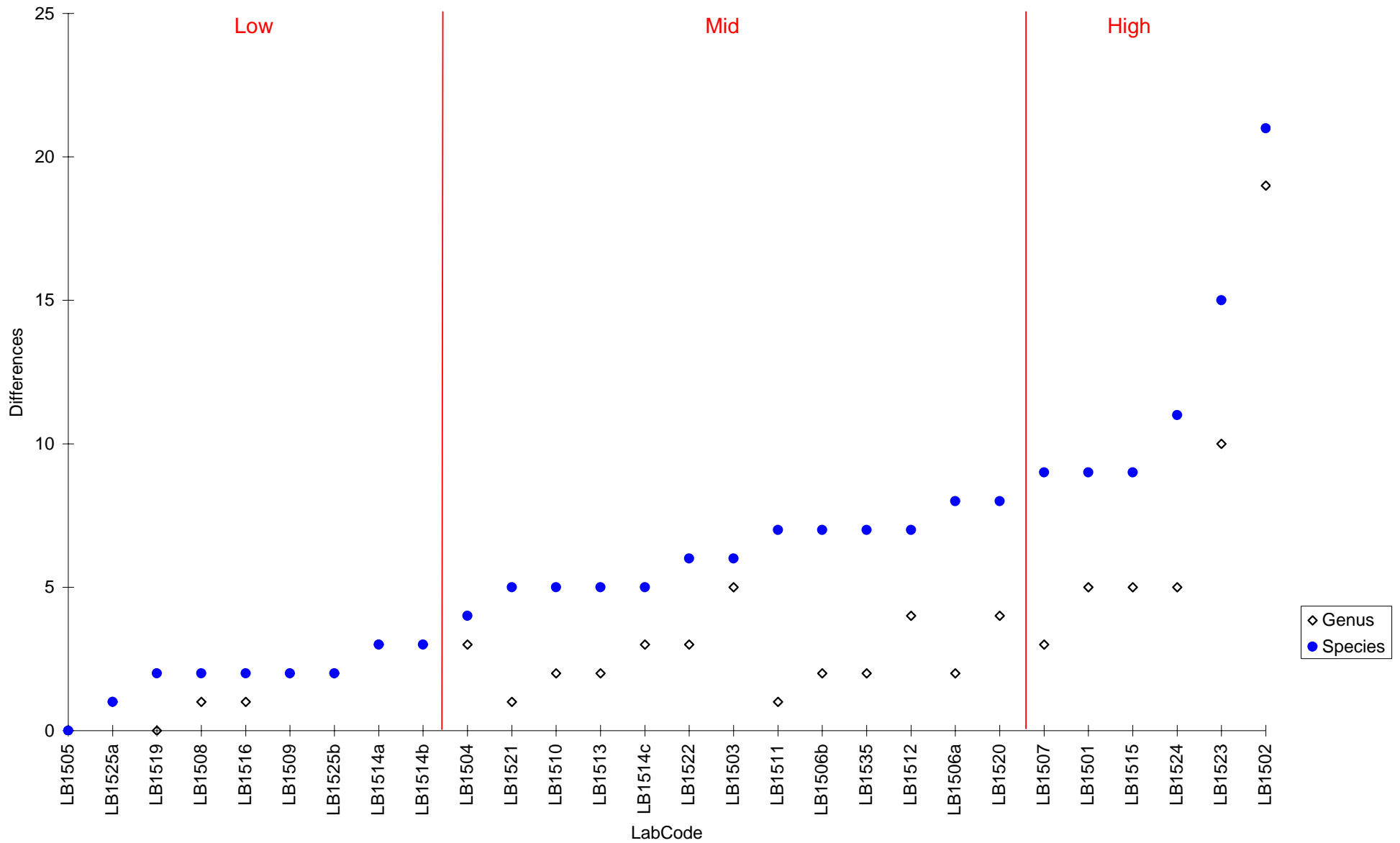
Table 2. The identification of fauna made by participating laboratories for RT35 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1519	LB1520	LB1521	LB1522
RT3501	<i>Melinna albicincta</i>	--	- cristata	- cristata	- cristata
RT3502	<i>Elminius modestus</i>	--	--	--	[Eulimus] [modesta]
RT3503	<i>Melinna palmata</i>	--	--	--	--
RT3504	<i>Ophelina cylindricaudata</i>	--	- modesta	- modesta	--
RT3505	<i>Aora gracilis</i>	--	--	--	--
RT3506	<i>Monocorophium sextonae</i>	[Corophium] -	[Corophium] -	[Corophium] -	Corophium crassicorne
RT3507	<i>Nucula nitidosa</i>	--	--	--	--
RT3508	<i>Flabelligera affinis</i>	--	--	--	--
RT3509	<i>Potamopyrgus antipodarum</i>	--	--	--	[Potamopyrgus] -
RT3510	<i>Araphura brevimana</i>	--	--	[Leptognathia] [brevimanus]	--
RT3511	<i>Lepas anatifera</i>	- pectinata	--	--	--
RT3512	<i>Urothoe elegans</i>	--	--	--	--
RT3513	<i>Harpinia crenulata</i>	--	- laevis	--	--
RT3514	<i>Monocorophium insidiosum</i>	[Corophium] -	Corophium bonellii	[Corophium] -	Corophium bonnellii
RT3515	<i>Alitta succinea</i>	[Neanthes] -	Hediste diversicolor	Nereis pelagica	[Nereis (Neanthes)] -
RT3516	<i>Alknaria romijni</i>	--	--	--	--
RT3517	<i>Ophelia borealis</i>	--	--	--	- bicornis
RT3518	<i>Fabricia stellaris</i>	--	- [sabella]	--	- [sabella]
RT3519	<i>Aphelochaeta marioni</i>	--	Aphelochaeta/Tharyx sp.	--	- sp. A
RT3520	<i>Pleurogonium rubicundum</i>	--	--	--	--
RT3521	<i>Nucula nucleus</i>	--	--	--	--
RT3522	<i>Parvicardium minimum</i>	- scabrum	- scabrum	- ovale	--
RT3523	<i>Spisula subtruncata</i>	--	--	- elliptica	--
RT3524	<i>Ophelina cylindricaudata</i>	--	--	--	--
RT3525	<i>Amphibalanus improvisus</i>	[Balanus] -	Balanus crenatus	--	Balanus crenatus

Table 2. The identification of fauna made by participating laboratories for RT35 (arranged by participant). Names are given only where different from the AQC identification.

	Taxon	LB1523	LB1524	LB1525a	LB1525b	LB1535
RT3501	<i>Melinna albicincta</i>	- elisabethae	[Mellina] cristata	--	--	- cristata
RT3502	<i>Elminius modestus</i>	--	--	--	--	--
RT3503	<i>Melinna palmata</i>	--	[Mellina] -	--	--	--
RT3504	<i>Ophelina cylindricaudata</i>	Ophelia rathkei	--	--	- [?cylindricaudata]	- sp.
RT3505	<i>Aora gracilis</i>	--	- typica	--	--	--
RT3506	<i>Monocorophium sextonae</i>	Unciola crenatipalma	[Corophium] -	--	--	[Corophium] -
RT3507	<i>Nucula nitidosa</i>	- hanleyi	- hanleyii	--	--	--
RT3508	<i>Flabelligera affinis</i>	--	--	--	--	--
RT3509	<i>Potamopyrgus antipodarum</i>	--	- [jenkinsii]	- [jenkinsi]	--	- [jenkinsi]
RT3510	<i>Araphura brevimana</i>	Heterotanais oerstedii	Tanaissus lilljeborgi	[Leptognathia] -	--	[Leptognathus] -
RT3511	<i>Lepas anatifera</i>	- [anatiferas]	--	--	--	--
RT3512	<i>Urothoe elegans</i>	--	--	--	--	--
RT3513	<i>Harpinia crenulata</i>	--	- laevis	--	--	--
RT3514	<i>Monocorophium insidiosum</i>	Corophium acutum	[Corophium] acherusicum	--	--	[Corophium] -
RT3515	<i>Alitta succinea</i>	Neanthes irrorata	Nereis pelagica	Hediste (Nereis) diversicolor	Hediste (Nereis) diversicolor	Hediste diversicolor
RT3516	<i>Alkmaria romijni</i>	Pterolysippe vanelli	[Alkamaria] -	--	--	[Alkmarija] -
RT3517	<i>Ophelia borealis</i>	- limacina	--	--	--	--
RT3518	<i>Fabricia stellaris</i>	Fabricola baltica	--	- [sabella]	- [sabella]	--
RT3519	<i>Aphelocheata marioni</i>	Tharyx killariensis	Tharyx A	--	--	--
RT3520	<i>Pleurogonium rubicundum</i>	Munna koyeri	Munna armoricana	--	--	--
RT3521	<i>Nucula nucleus</i>	--	--	--	--	- sulcata
RT3522	<i>Parvicardium minimum</i>	- scabrum	--	--	--	- scabrum
RT3523	<i>Spisula subtruncata</i>	--	- elliptica	--	--	- elliptica
RT3524	<i>Ophelina cylindricaudata</i>	- modesta	--	--	--	--
RT3525	<i>Amphibalanus improvisus</i>	Balanus crenatus	Balanus perforatus	--	Balanus crenatus	Chirona hameri

Figure 1. The number of differences from the AQC identification of specimens distributed in RT35 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.* LB1501a = 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 LB 01a & LB 01b. For details of your LabCode please contact your Scheme representative or Unicmarine Ltd.

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

RT3501 – *Melinna albicincta* (Figures 1a & b)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: W. Scotland. Condition: Good (complete), Large. Note: White banding on branchiae faint in alcohol; tubes not supplied.



Fig. 1a. *Melinna albicincta* (RT3501) - DL

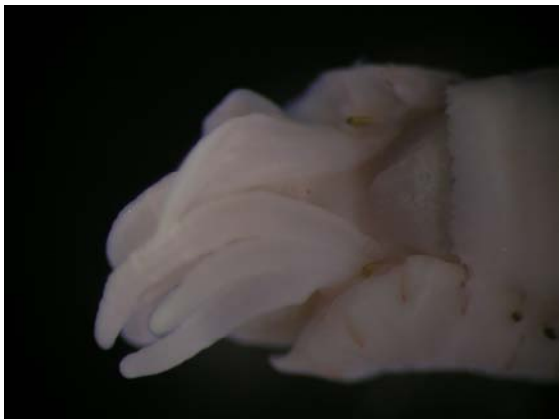


Fig. 1b. *Melinna albicincta* (RT3501) – AD



Fig. 1d. *Ampharete lindstroemi* (41410) – AD

One generic and fourteen specific differences: Labs 01, 13, 15, 16, 20, 21, 22, 24 and 35 identified as *Melinna cristata* (No material available) (which has uniform serrations on the postbranchial dorsal brim and relatively straight postbranchial hooks); Labs 04, 11, 12 and 23 identified as *Melinna elisabethae* (Figure 1c) (which has eyespots and a narrow dorsal depression); Lab 02 identified as *Ampharete lindstroemi* (Figure 1d) (which has paleae and lacks postbranchial hooks).

Lab 24 incorrectly spelt the genus; Labs 06b and 07 incorrectly spelt the species.

Additional Literature:

Mackie & Pleijel, 1995

O'Reilly & Nowacki, 2006.



Fig. 1c. *Melinna elisabethae* (39144) – AD

RT3502 – *Elminius modestus* (Figure 2a & b)

Substratum: Hard. Salinity: High. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Medium. Note: Co-habitant with Specimen 25.



Fig. 2a. *Elminius modestus* (RT3502) – D

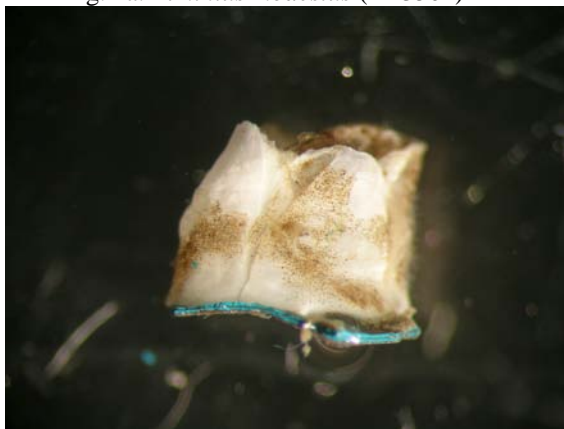


Fig. 2b. *Elminius modestus* (RT3502) – L

Two generic and two specific differences: Labs 02 and 07 identified as *Semibalanus balanoides* or the synonym *Balanus balanoides* (No material available) (which has six plates in the shell wall).

Lab 22 incorrectly spelt the genus and species.

Additional Literature:
Southward, 2008.

RT3503 – *Melinna palmata* (Figure 3a & b)

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



Fig. 3a. *Melinna palmata* (RT3503) - L

One generic and three specific differences: Labs 06a and 06b identified as *Melinna cristata* (No material available) (which has a sharply serrated postbranchial dorsal brim and ventral chaetae on the fourth chaetiger); Lab 02 identified as *Terebellides stroemi* (Figure 3c) (which has a single quadripartite branchia with transverse lamallae).

Lab 24 incorrectly spelt the genus.



Fig. 3b. *Melinna palmata* (RT3503) – AL



Fig. 3c. *Terebellides stroemi* (RT3211) - L

RT3504 – *Ophelina cylindricaudata* (Figure 4a)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. North Sea. Condition: Fair/Poor, Medium. Note: Pygidium absent.



Fig. 4a. *Ophelina cylindricaudata* (RT3504) - V

Five generic and fourteen specific differences: Labs 06a, 06b, 07, 11, 15, 20 and 21 identified as *Ophelina modesta* (Figure 4b) (which has branchiae of similar size / form throughout branchial region and has fewer chaetigers); Labs 14a, 14b and 14c identified as *Armandia polyphthalma* (Figure 4c) (which has lateral eyespots); Lab 12 identified as *Ophelina abranchiata* (No material available) (which lacks branchiae); Lab 23 identified as *Ophelia rathkei* (Figure 4d) (which lacks an anterior ventral groove); Lab 25b identified as *Ophelina ?cylindricaudata*; Lab 35 identified as *Ophelina* sp.; Lab 02 did not submit data for this taxon (ring test specimens should be identified at species level with appropriate confidence level notes).



Fig. 4b. *Ophelina modesta* (16877) - L



Fig. 4c. *Armandia polyphthalma* (38787) - L



Fig. 4d. *Ophelia rathkei* (11747) - L

RT3505 – *Aora gracilis* (Figure 5a)

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: S. E. England. Condition: Fair/Poor, Medium, Male. Note: Co-habitant with Specimen 06.



Fig. 5a. *Aora gracilis* (RT3505) - L

One generic and five specific differences: Labs 06a, 06b, 15 and 24 identified as *Aora typica* (No material available) (which is only found in the southern ocean, between 20 and 50 degrees south); Lab 02 identified as *Corophium* spp. (Figure 6f shows *Corophium arenarium*) (which are dorso-ventrally flattened and have the merus and carpus on gnathopod 2 longitudinally fused; ring test specimens should be identified at species level with appropriate confidence level notes).

Additional Literature:
Myers & Costello, 1984.

RT3506 – *Monocorophium sextonae* (Figure 6a & b)

Substratum: Mixed. Salinity: Full. Depth: Infralittoral. Geography: S. E. England. Condition: Fair, Medium, Male. Note: Co-habitant with Specimen 05.



Fig. 6a. *Monocorophium sextonae* (RT3506) - L

Four generic and five specific differences: Lab 14c identified as *Monocorophium ascherusicum* (Figure 6c & d) (which lacks spines on the inner ventral margin of antenna 2 peduncle article 4); Lab 22 identified as *Corophium crassicorne*, a synonym of *Crassicorophium crassicorne* (Figure 6e) (which has setae on the proximal outer margin of uropod 1 peduncle); Lab 01 identified as *Corophium arenarium* (Figure 6f) (which has dorsally visible urosomal segmentation); Lab 23 identified as *Unciola crenatipalma* (Figure 6g) (which lacks longitudinally fused merus and carpus on gnathopod 2); Lab 02 identified as *Corophium* spp. (Figure 6f shows *C. arenarium*) (which have dorsally visible urosomal segmentation); ring test specimens should be identified at species level with appropriate confidence level notes).

Lab 03 incorrectly spelt the species.

Labs 06a, 06b, 07, 08, 11, 12, 15, 19, 20, 21, 24 and 35 recorded the synonym *Corophium sextonae*.

Additional Literature:
Bousfield & Hoover, 1997.

ERMS retains the generic name *Corophium* for this species.

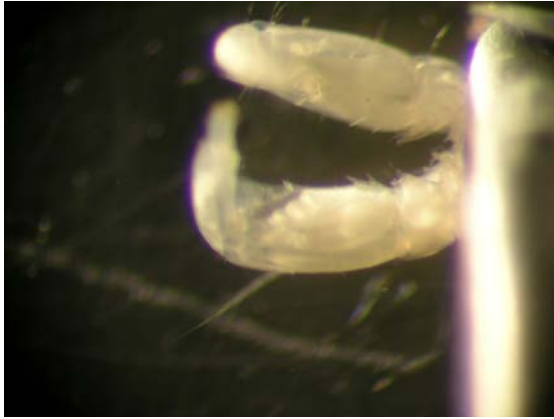


Fig. 6b. *Monocorophium sextonae* (RT3506) – AV
(antennae 2 art.4 – inner margin)



Fig. 6c. *Monocorophium ascherusicum* (9408-05076) - L



Fig. 6d. *Monocorophium ascherusicum* (9408-05076) – AV (antenna 2 art. 4 – inner margin)



Fig. 6e. *Crassikorophium crassicorne* (41232) - PD



Fig. 6f. *Corophium arenarium* (9312-04465) - PD



Fig. 6g. *Unciola crenatipalma* (43344) – L
(antennae lost)

RT3507 – *Nucula nitidosa* (Figure 7a)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: East Anglia. England. Condition: Good, Medium/Small (3-4 mm).



Fig. 7a. *Nucula nitidosa* (RT3507) - L



Fig. 7b. *Nucula hanleyi* (41256) - L

Five specific differences: Labs 13, 24 and 23 identified as *Nucula hanleyi* (Figure 7b) (which has a more convex lunule and a more elongate shell); Labs 02 and 11 identified as *Nucula nucleus* (Figure 21a) (which is less triangular and less glossy shell with a more projecting lunule).

Labs 03 and 15 incorrectly spelt the genus.

RT3508 – *Flabelligera affinis* (Figure 8a & b)

Substratum: Mixed. Salinity: High. Depth: Infralittoral. Geography: East Anglia. Condition: Fair/Poor, Medium/Large.



Fig. 8a. *Flabelligera affinis* (RT3508) - D

Three generic and three specific differences: Lab 01 identified as *Pherusa flabellata* (Figure 8c); Lab 02 identified as *Diplocirrus glacicus* (sic) (Figure 8d) (which both lack a slime tube and compound ventral hooks); Lab 15 did not submit data for this taxon (ring test specimens should be identified at species level with appropriate confidence level notes).



Fig. 8b. *Flabelligera affinis* (RT3508) – AV



Fig. 8c. *Pherusa flabellata* (13565) - D



Fig. 8d. *Diplocirrus glaucus* (41858) - L

RT3509 – *Potamopyrgus antipodarum* (Figure 9a)

Substratum: Mixed. Salinity: Reduced. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Large. Note: Spiral periostracal keel present.



Fig. 9a. *Potamopyrgus antipodarum* (RT3509) - L

One generic and one specific difference: Lab 01 identified as *Hydrobia neglecta* (**No material available**) (which is narrower across the centre, is smaller for the same number of whorls and lacks a periostracal keel).

Labs 02, 06a, 06b, 07, 24, 25a and 35 recorded the synonym *Potamopyrgus jenkinsi*.

Labs 07, 14a, 14b, 15 and 22 incorrectly spelt the genus.

RT3510 – *Araphura brevimana* (Figure 10a & b)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. North Sea. Condition: Good/Fair, Medium/Large.



Fig. 10a. *Araphura brevimana* (RT3510) - D

Four generic and four specific differences: Lab 03 identified as *Anathrura simplex* (*sic*) (**No material available**) (which is a deep water species that has large cheliped coxa that articulate with the proximal margin of the basis); Lab 23 identified as *Heterotanais oerstedii* (Figure 10c) (which has eyes); Lab 24 identified as *Tanaissus lilljeborgi* (Figure 10d) (which has uropod rami that are fused separately to the peduncle); Lab 02 identified as *Leptognathia* spp. (ring test specimens should be identified at species level with appropriate confidence level notes).

Labs 11, 13, 16, 21 and 25a recorded the synonym *Leptognathia brevimanus*; Lab 35 recorded the synonym / spelling error *Leptognathus brevimana*.

Labs 09, 10 and 15 incorrectly spelt the species; the incorrect spelling, *Araphura brevimanus*, is also listed in ERMS.



Fig. 10a. *Araphura brevimana* (RT3510) – PD (uropods)



Fig. 10c. *Heterotanais oerstedii* (40432) - L



Fig. 10d. *Tanaissus lilljeborgi* (11624) - L

RT3511 – *Lepas anatifera* (Figure 11a)

Substratum: Driftwood. Salinity: Full. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Medium/Large.



Fig. 11a. *Lepas anatifera* (RT3511) - L

Three specific differences: Lab 06a identified as *Lepas hillii* (No material available) (which has smooth valves and a white collar at the base of the capitulum); Lab 11 identified as *Lepas anserifera* (No material available); Lab 19 identified as *Lepas pectinata* (No material available) (both of which have conspicuously grooved valves).

Lab 07 incorrectly spelt the genus; Lab 23 incorrectly spelt the species.

Additional Literature:
Southward, 2008.

RT3512 – *Urothoe elegans* (Figure 12a)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: Eire (East Coast). Condition: Good, Medium.



Fig. 12a. *Urothoe elegans* (RT3512) - L

No taxonomic differences recorded.

RT3513 – *Harpinia crenulata* (Figure 13a)

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



Fig. 13a. *Harpinia crenulata* (RT3513) - L

One generic and three specific differences: Labs 20 and 24 identified as *Harpinia laevis* (Figure 13b) (which lacks serrations on the posterior-distal margin of epimeral plate 3 and has only a weakly toothed pereopod 7 basis); Lab 02 did not submit data for this taxon (ring test specimens should be identified at species level with appropriate confidence level notes).

Lab 12 incorrectly spelt the genus.



Fig. 13b. *Harpinia laevis* (11048) – L (epimeral pl.3)

RT3514 – *Monocorophium insidiosum* (Figure 14a)

Substratum: Mixed. Salinity: High. Depth: Infralittoral. Geography: S. E. England. Condition: Good/Fair, Medium, Female.



Fig. 14a. *Monocorophium insidiosum* (RT3514) - L

Six generic and sixteen specific differences: Labs 06a, 06b, 07, 08, 10, 12, 14c, 15 and 24 identified as *Monocorophium ascherusicum* or the synonym *Corophium ascherusicum*; Labs 13, 20 and 22 identified as *Corophium bonellii*, a synonym of *Crassicorophium bonellii* (Figure 14b); Lab 01 identified as *Corophium sextonae*, a synonym of *Monocorophium sextonae* (all of which have several spines on the distal inner margin of uropod 1); Labs 03 and 23 identified as *Apocorophium acutum* or the synonym *Corophium acutum* (Figure 14c) (which has a urosomal ridge); Lab 02 did not submit data for this taxon (ring test specimens should be identified at species level with appropriate confidence level notes).

Labs 11, 19, 21 and 35 recorded the synonym *Corophium insidiosum*.

Additional Literature:
Bousfield & Hoover, 1997.

ERMS retains the generic name *Corophium* for this species.

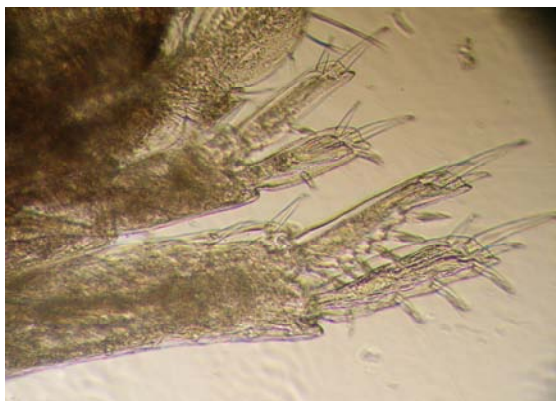


Fig. 14b. *Crassicorophium bonellii* (41233) – PD (uropod 1)



Fig. 14c. *Apocorophium acutum* (10630) - L

RT3515 – *Alitta succinea* (Figure 15a & b)

Substratum: Mud. Salinity: Reduced. Depth: Infralittoral. Geography: S. E. England. Condition: Fair/Poor (anterior only), Small/Medium. Note: Co-habitant with Specimen 16.



Fig. 15a. *Alitta succinea* (RT3515) - AD

Twenty-three generic and twenty-three specific differences: Labs 01, 03, 04, 07, 09, 10, 12, 13, 14a, 14b, 14c, 15, 16, 20, 25a, 25b and 35 identified as *Hediste diversicolor* (Figure 15c); Labs 02, 21 and 24 identified as *Nereis pelagica* (Figure 15d); Lab 06a identified as *Nereis zonata* (Figure 15e); Lab 23 identified as *Neanthes irrorata* (Figure 15f); Lab 06b identified as *Nereis longissima*, a synonym of *Eunereis longissima* (Figure 15g) (all of which have one or more peristomial groups with missing paragnaths, specifically group V on the oral ring).

Labs 05, 08, 11, 19 and 22 recorded the synonym *Neanthes succinea*.

Note: The reference, Chambers & Garwood (1992) does not include this species as it covers only the Scottish fauna.

Additional Literature:
Bakken & Wilson, 2005.



Fig. 15b. *Alitta succinea* (RT3515) – AD (pharynx)



Fig. 15c. *Hediste diversicolor* (35024) – AD (pharynx)



Fig. 15d. *Nereis pelagica* (9406-04945) – AD (pharynx – head displaced)



Fig. 15e. *Nereis zonata* (17860) – AD



Fig. 15f. *Neanthes irrorata* (20145) – AD (pharynx)

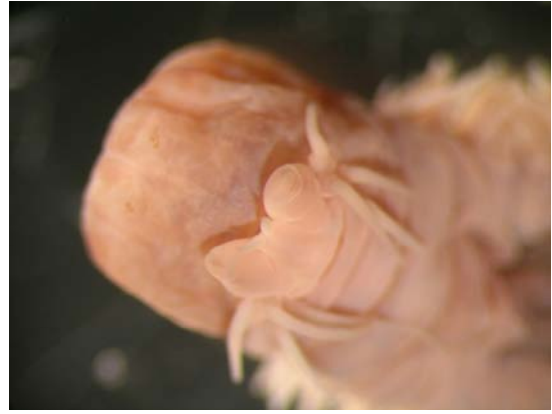


Fig. 15g. *Eunereis longissima* (32398) – AD (pharynx)

RT3516 – *Alkmaria romijni* (Figure 16a)

Substratum: Mud. Salinity: Reduced. Depth: Infralittoral. Geography: S. E. England. Condition: Good/Fair, Medium/Small. Note: Co-habitant with Specimen 15.



Fig. 16a. *Alkmaria romijni* (RT3516) - L

Three generic and three specific differences: Lab 02 identified as *Pectinaria auricoma* (Figure 16b) (which has numerous conspicuous stout paleae and a scaphe set off from the body); Lab 12 identified as *Lysippe labiata* (Figure 16c) (which has four pairs of branchiae, a prominent lower lip and an Arctic distribution); Lab 23 identified as *Pterolysippe vanelli* (Figure 16d) (which has 4 elongated thoracic segments, 15 segments with notochaetae and four pairs of branchiae).

Lab 24 and 35 incorrectly spelt the genus; Labs 14a and 14b incorrectly spelt the species.

Some taxonomists place this species in the genus *Hypania*; adoption of this classification is currently under review.



Fig. 16b. *Pectinaria auricoma* (38914) - L



Fig. 16c. *Lysippe labiata* (40914) – AL (some branchiae lost)



Fig. 16d. *Pterolysippe vanelli* (39539) – D
(branchiae lost)

RT3517 – *Ophelia borealis* (Figure 17a)

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



Fig. 17a. *Ophelia borealis* (RT3517) - L

One generic and five specific differences: Labs 07 and 23 identified as *Ophelia limacina* (**No material available**) (which has more branchial and post branchial segments than *O. borealis*; Species Directory (1997) notes: “An arctic species, it probably does not occur in area. Most UK records are referable to *O. borealis*); Lab 10 identified as *Ophelia neglecta* (**No material available**) (which has fewer prebranchial, branchial and postbranchial chaetigers than *O. borealis*); Lab 22 identified as *Ophelia bicornis* (Figure 17b) (which has only fifteen branchial segments); Lab 02 identified as *Ophelina acuminata* (Figure 17c) (which has a ventral groove that extends anteriorly).

Labs 06a, 06b and 15 incorrectly spelt the genus (all recorded the valid genus *Ophelina*).



Fig. 17b. *Ophelia bicornis* (37077) - D



Fig. 17c. *Ophelina acuminata* (8195) - L

RT3518 – *Fabricia stellaris* (Figure 18a & b)

Substratum: Mixed. Salinity: High. Depth: Infralittoral. Geography: N. Scotland. Condition: Good, Medium.



Fig. 18a. *Fabricia stellaris* (RT3518) - L

Five generic and five specific differences: Labs 12 and 15 identified as *Fabricola* cf. *berkeleyi* (No material available); Lab 23 identified as *Fabricola baltica* (Figure 18c shows *F. baltica* ?) (both lack pseudospatulate chaetae in the thoracic notopodia); Lab 04 identified as *Manayunkia aestuarina* (Figure 18d) (which lacks pygidial eyes and has a branchial crown that appears apinnate); Lab 02 identified as Sabellidae (ring test specimens should be identified at species level with appropriate confidence level notes).

Labs 06a, 06b, 07, 08, 09, 10, 11, 14a, 14b, 14c, 20, 22, 25a and 25b recorded the synonym *Fabricia sabella*; this synonym is incorrectly listed as an additional valid species in ERMS.

Additional Literature:

Bick, 2005

Fitzhugh, 1990.



Fig. 18b. *Fabricia stellaris* (RT3518) – ADL (radiole removed to show laplet)

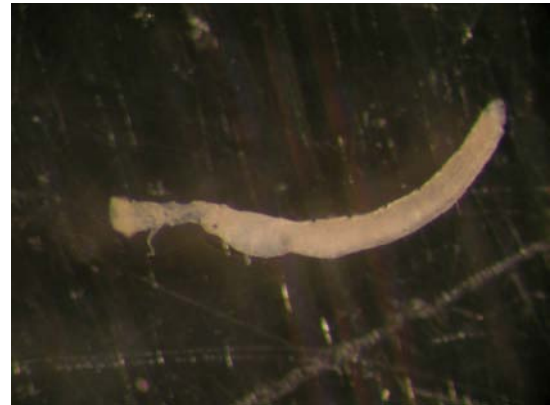


Fig. 18c. *Fabricola baltica* ? (39951) - L



Fig. 18d. *Manayunkia aestuarina* (10785) - L

RT3519 – *Aphelochaeta marioni* (Figure 19a)

Substratum: Mud. Salinity: High. Depth: Infralittoral. Geography: East Anglia. Condition: Fair (anterior only), Medium.



Fig. 19a. *Aphelochaeta marioni* (RT3519) - AL

Six generic and ten specific differences: Labs 01, 07 and 22 identified as *Aphelochaeta* sp. A (Figure 19b) (which is a fully marine species with more closely spaced palps that are elliptical in cross section and situated in line with or behind the first chaetiger); Labs 15 and 24 identified as *Tharyx* sp. A (Figure 19c) (which has a more pointed prostomium); Lab 23 identified as *Tharyx killariensis* (Figure 19d) (which has wispy thoracic chaetae and a sharply pointed prostomium); Lab 13 identified as *Aphelochaeta mcintoshi* (which is of uncertain identity); Lab 11 identified as *Caulleriella zetlandica*, a synonym of *Chaetozone zetlandica* (Figure 19e) (which has eyes); Lab 20 identified as *Aphelochaeta/Tharyx* sp.; Lab 02 did not submit data for this taxon (ring test specimens should be identified at species level with appropriate confidence level notes).

Labs 14a and 14b incorrectly spelt the genus.



Fig. 19b. *Aphelochaeta* sp. A (37951) - AD



Fig. 19c. *Tharyx* sp. A (RT3015) - AL



Fig. 19d. *Tharyx killariensis* (RT3012) - AL



Fig. 19e. *Chaetozone zetlandica* (RT3007) – AD(L)

RT3520 – *Pleurogonium rubicundum* (Figure 20a)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: N. Ireland. Condition: Good, Medium.



Fig. 20a. *Pleurogonium rubicundum* (RT3520) - D

Four generic and four specific differences: Lab 15 identified as *Paramunna bilobata* (Figure 20b); Lab 23 identified as *Munna koyeri* (*sic*) (Figure 20c shows *Munna* sp.); Lab 24 identified as *Munna armoricana* (Figure 20c shows *Munna* sp.) (all of which lack finger-like lateral projections on the pleosome); Lab 02 did not submit data for this taxon (ring test specimens should be identified at species level with appropriate confidence level notes).

Labs 05 and 08 incorrectly spelt the species.



Fig. 20b. *Paramunna bilobata* (42300) - D



Fig. 20c. *Munna* sp. (12263) - D

RT35021 – *Nucula nucleus* (Figure 21a)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: Eire (East Coast). Condition: Good, Small (3-4 mm).



Fig. 21a. *Nucula nucleus* (RT3521) - L

Six specific differences: Labs 02, 06a and 07 identified as *Nucula hanleyi* (Figure 7b) (which has a more elongate shell); Lab 06b, 11 and 35 identified as *Nucula sulcata* (Figure 21b) (which has a more strongly sculptured shell).



Fig. 21b. *Nucula sulcata* (18354) - L

RT3522 – *Parvicardium minimum* (Figure 22a)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. North Sea. Condition: Good, Small (~2 mm).



Fig. 22a. *Parvicardium minimum* (RT3522) - L

Nine specific differences: Labs 03, 10, 11, 19, 20, 23 and 35 identified as *Parvicardium scabrum* (Figure 22b) (which has fewer ribs and a more angular shell outline); Labs 07 and 21 identified as *Parvicardium ovale* (Figure 22c) (which has fewer ribs and rib scales that vary in form along the length of the shell).



Fig. 22b. *Parvicardium scabrum* (RT3521) - L



Fig. 22c. *Parvicardium ovale* (39144) - L

RT3523 – *Spisula subtruncata* (Figure 23a)

Substratum: Sandy Mud. Salinity: Full. Depth: Circalittoral. Geography: N. W. England. Condition: Good, Medium/Small (~7 mm).



Fig. 23a. *Spisula subtruncata* (RT3523) - L

One generic and five specific differences: Labs 01, 21, 24 and 35 identified as *Spisula elliptica* (Figure 23b); Lab 02 identified as *Abra alba* ?? (Figure 23c) (both have a less angular shell).



Fig. 23b. *Spisula elliptica* (22110) - L



Fig. 23c. *Abra alba* (42920) - L

RT3524 – *Ophelina cylindricaudata* (Figure 24a)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. North Sea. Condition: Good/Fair (complete), Medium.

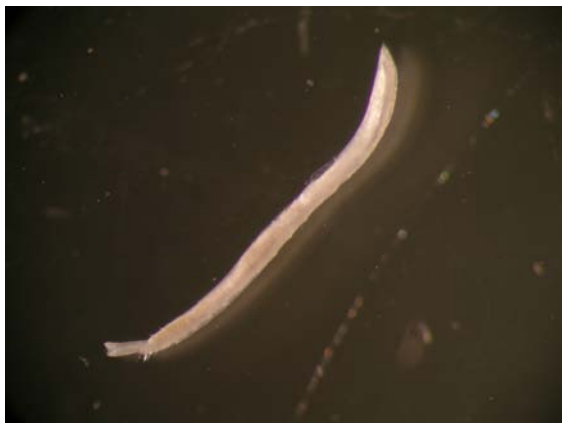


Fig. 24a. *Ophelina cylindricaudata* (RT3524) - L

Two generic and three specific differences; Lab 23 identified as *Ophelina modesta* (Figure 4b) (which has branchiae of similar size / form throughout branchial region and has fewer chaetigers); Lab 03 identified as *Ophelia celtica* (Figure 24b) (which lacks an anterior ventral groove), which may have been a transcription error; Lab 02 did not submit data for this taxon (ring test specimens should be identified at species level with appropriate confidence level notes).

Labs 14a and 14b incorrectly spelt the species.



Fig. 24b. *Ophelia celitica* (13895) - L

RT3525 – *Amphibalanus improvisus* (Figure 25a)

Substratum: Hard. Salinity: High. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Medium. Note: Co-habitant with Specimen 02.



Fig. 25a. *Amphibalanus improvisus* (RT3525) - DL

Twenty generic and twenty specific differences; Labs 02, 04, 06a, 06b, 07, 08, 09, 10, 12, 20, 22, 23 and 25b identified as *Balanus crenatus* (Figure 25b) (which has a crenulated appearance to the upper edge of the shell plates and lacks a strongly produced spur on the tergum); Labs 01, 14a, 14b, 14c and 35 identified as *Chirona hameri* (No material available) (which has shell plates without pores); Lab 03 identified as *Elminius modestus* (Figure 2a & b) (which has four plates in the shell wall); Lab 24 identified as *Balanus perforatus* (Figure 25c) (which has a regular conical shape with regular sculpture and pink or purple colouration on the shell plates).

Labs 11, 13, 15, 16 and 19 recorded the synonym *Balanus improvisus*.

Additional Literature:
Southward, 2008.



Fig. 25b. *Balanus crenatus* (18301) - D



Fig. 25c. *Balanus perforatus* (5323) - D

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Ring Test Return Instructions

Please return all ring test specimens by 21st November 2008. 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.

Return address: **David Hall, Unicomarine Ltd., Head Office, 7 Diamond Centre, Works Road, Letchworth, Hertfordshire SG6 1LW, UK**