

**The National Marine Biological
Analytical Quality Control Scheme**

Ring Test Bulletin – RTB#30

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RING TEST DETAILS

Ring Test #30

Type/Contents – Target - Cirratulidae

Circulated – 02/02/2007

Completion Date – 02/03/2007

Number of Participating Laboratories - 18

Number of Results Received – 12

Summary of differences

Specimen	Genus	Species	Total differences for (12) laboratories	
			Genus	Species
RT3001	<i>Chaetozone</i>	<i>setosa</i>	0	1
RT3002	<i>Chaetozone</i>	<i>vivipara</i>	2	3
RT3003	<i>Aphelochaeta</i>	<i>marioni</i>	0	3
RT3004	<i>Monticellina</i>	sp.	1	1
RT3005	<i>Caulleriella</i>	<i>alata</i>	0	0
RT3006	<i>Cirratulus</i>	<i>cirratulus</i>	1	4
RT3007	<i>Chaetozone</i>	<i>zetlandica</i>	0	2
RT3008	<i>Chaetozone</i>	<i>christiei</i>	0	2
RT3009	<i>Chaetozone</i>	<i>gibber</i>	0	0
RT3010	<i>Cirriformia</i>	<i>tentaculata</i>	0	0
RT3011	<i>Protocirrinieris</i>	<i>chrysoderma</i>	2	2
RT3012	<i>Tharyx</i>	<i>killariensis</i>	3	5
RT3013	<i>Chaetozone</i>	<i>christiei</i>	0	2
RT3014	<i>Aphelochaeta</i>	<i>marioni</i>	1	2
RT3015	<i>Tharyx</i>	A	4	4
RT3016	<i>Chaetozone</i>	<i>vivipara</i>	0	2
RT3017	<i>Cirratulus</i>	<i>caudatus</i>	0	0
RT3018	<i>Tharyx</i>	A	3	3
RT3019	<i>Protocirrinieris</i>	<i>chrysoderma</i>	2	2
RT3020	<i>Cirriformia</i>	<i>tentaculata</i>	0	0
RT3021	<i>Monticellina</i>	sp.	1	1
RT3022	<i>Chaetozone</i>	<i>setosa</i>	0	2
RT3023	<i>Caulleriella</i>	<i>alata</i>	1	1
RT3024	<i>Chaetozone</i>	<i>gibber</i>	0	0
RT3025	<i>Tharyx</i>	<i>killariensis</i>	0	0
Total differences			21	42
Average differences /lab.			1.8	3.5

NMBAQC Scheme Interim Results

EXERCISE DETAILS

Ring Test #30

Return Deadline - 02/03/07

Date Received - 02/03/07

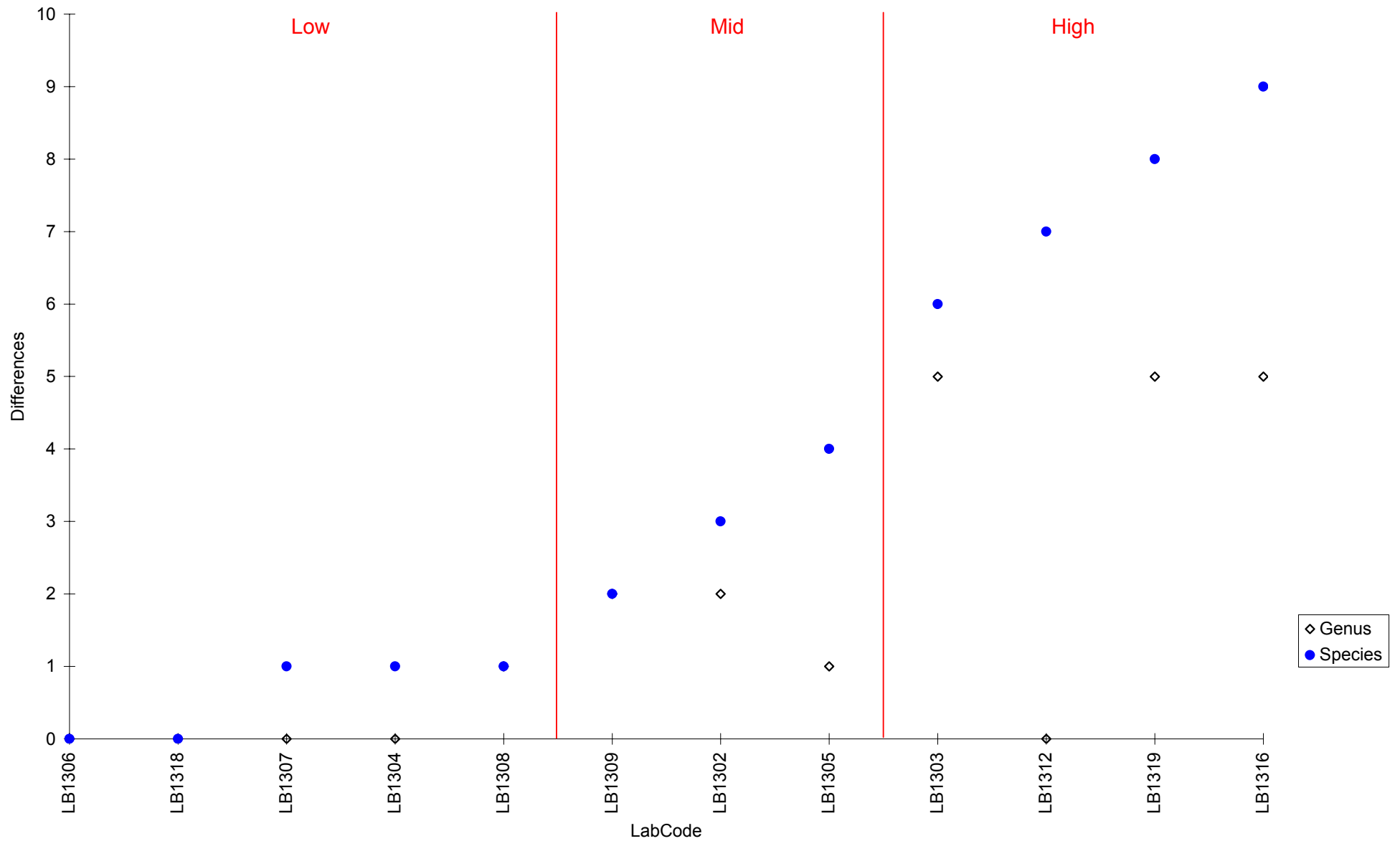
Number of Participating Laboratories - 18

Number of Returns Received - 12

Laboratory Code - 1303

RT301303 Specimen	AQC Identification		Your Identification		Total differences for (12) laboratories	
	Genus	Species	Genus	Species	Genus	Species
RT30130301	<i>Chaetozone</i>	<i>setosa</i>	-	-	0	1
RT30130302	<i>Chaetozone</i>	<i>vivipara</i>	-	-	2	3
RT30130303	<i>Aphelochaeta</i>	<i>marioni</i>	-	"A"	0	3
RT30130304	<i>Monticellina</i>	<i>sp.</i>	-	<i>[dorsobranchialis]</i>	1	1
RT30130305	<i>Caulleriella</i>	<i>alata</i>	-	-	0	0
RT30130306	<i>Cirratulus</i>	<i>cirratus</i>	-	-	1	4
RT30130307	<i>Chaetozone</i>	<i>zetlandica</i>	<i>[Caulleriella]</i>	-	0	2
RT30130308	<i>Chaetozone</i>	<i>christiei</i>	-	-	0	2
RT30130309	<i>Chaetozone</i>	<i>gibber</i>	-	-	0	0
RT30130310	<i>Cirriformia</i>	<i>tentaculata</i>	-	-	0	0
RT30130311	<i>Protocirrineris</i>	<i>chrysoderma</i>	-	-	2	2
RT30130312	<i>Tharyx</i>	<i>killariensis</i>	<i>Aphelochaeta</i>	<i>marioni</i>	3	5
RT30130313	<i>Chaetozone</i>	<i>christiei</i>	-	-	0	2
RT30130314	<i>Aphelochaeta</i>	<i>marioni</i>	-	-	1	4
RT30130315	<i>Tharyx</i>	<i>A</i>	<i>Aphelochaeta</i>	"A"	4	4
RT30130316	<i>Chaetozone</i>	<i>vivipara</i>	-	-	0	2
RT30130317	<i>Cirratulus</i>	<i>caudatus</i>	-	-	0	0
RT30130318	<i>Tharyx</i>	<i>A</i>	<i>Aphelochaeta</i>	"A"?	3	3
RT30130319	<i>Protocirrineris</i>	<i>chrysoderma</i>	-	-	2	2
RT30130320	<i>Cirriformia</i>	<i>tentaculata</i>	-	-	0	0
RT30130321	<i>Monticellina</i>	<i>sp.</i>	<i>Aphelochaeta</i>	<i>marioni</i>	1	1
RT30130322	<i>Chaetozone</i>	<i>setosa</i>	-	-	0	2
RT30130323	<i>Caulleriella</i>	<i>alata</i>	<i>Chaetozone</i>	<i>gibber?</i>	1	1
RT30130324	<i>Chaetozone</i>	<i>gibber</i>	-	-	0	0
RT30130325	<i>Tharyx</i>	<i>killariensis</i>	-	-	0	0
Total differences			5	6	21	44

Figure 1. The number of differences from the AQC identification of specimens distributed in RT30 for each of the participating laboratories. Arranged in order of increasing number of differences.



Specimen Images and Detailed Breakdown of Identifications

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

RT3001 – *Chaetozone setosa* (Figures 1a-c)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. E. England. Condition: Fair, Medium-Large; Anterior only.



Fig. 1a. *Chaetozone setosa* (RT3001) - L



Fig. 1b. *Chaetozone setosa* (RT3001) - AL

One specific difference: Lab 12 identified as *Caulleriella zetlandica* a synonym of *Chaetozone zetlandica* (Figures 7a-c) (which has eyes and longer thoracic chaetae).

Labs 16 and 19 recorded the equivalent *Chaetozone setosa* agg. Type A; Labs 02 and 06 recorded *Chaetozone setosa* agg.; these records have been marked correct in this instance, although the latter would cause confusion with e.g. *C. christiei* in data sets.

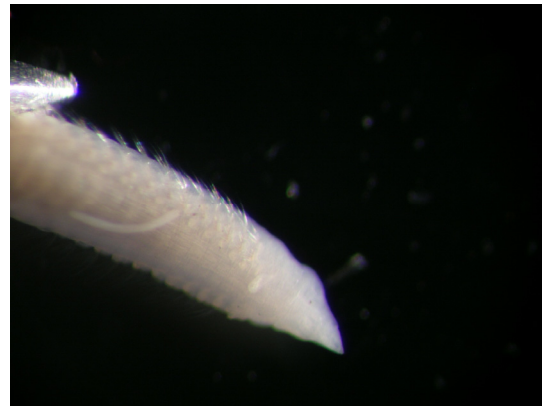


Fig. 1c. *Chaetozone setosa* (RT3001) - ADL

RT3002 – *Chaetozone vivipara* (Figures 2a-c)

Substratum: Mud. Salinity: Reduced. Depth: Infralittoral. Geography: E. England. Condition: Fair, Medium; Complete specimen.



Fig. 2a. *Chaetozone vivipara* (RT3002) - L

Two generic and three specific differences: Labs 02 and 16 identified as *Tharyx acutus* (Type A) or *Tharyx A* (Figures 15a-e & 18a-d) (which has a more flattened, expanded tail and knob-tipped acicular chaetae in posterior chaetigers); Lab 12 identified as *Chaetozone setosa* (Figures 1a-c & 22a-e) (which has a concertina-shaped tail, with clearly acicular chaetae in both rami).

Lab 06 recorded the synonym *Tharyx vivipara*; Lab 19 recorded the synonym *Aphelochaeta vivipara*.



Fig. 2b. *Chaetozone vivipara* (RT3002) - AL



Fig. 2c. *Chaetozone vivipara* (RT3002) - PD

RT3003 – *Aphelochaeta marioni* (Figures 3a-c)

Substratum: Mud. Salinity: High. Depth: Infralittoral. Geography: E. England. Condition: Good, Large, ¾ anterior specimen.



Fig. 3a. *Aphelochaeta marioni* (RT3003) - L



Fig. 3b. *Aphelochaeta marioni* (RT3003) - ADL

Three specific differences: Labs 03, 04 and 07 identified as *Aphelochaeta* A (Figures 3d-e) (which is a fully marine species with more closely spaced palps situated in line with or behind the first chaetiger).



Fig. 3c. *Aphelochaeta marioni* (RT3003) - AD



Fig. 3d. *Aphelochaeta* A (LR37951) - L

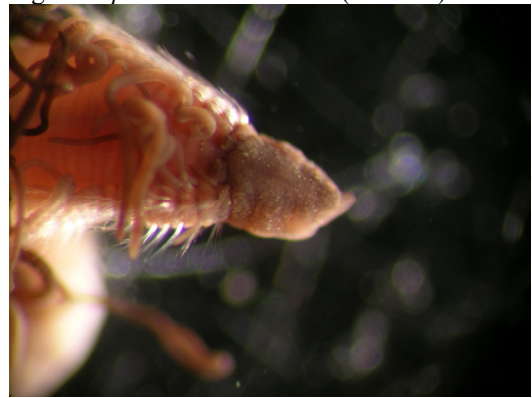


Fig. 3e. *Aphelochaeta* A (LR37951) - AD

RT3004 – *Monticellina* sp. (Figures 4a-b)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. Ireland. Condition: Good, Medium, 1/2 - 3/4 anterior specimen.



Fig. 4a. *Monticellina* sp. (RT3004) - L



Fig. 4a. *Monticellina* sp. (RT3004) - AL

One generic and one specific difference: Lab 16 identified as *Aphelochaeta* A (Figures 3d-e) (which lacks serrated chaetae and has a shorter, more conical, prostomium).

Labs 03, 12 and 19 recorded *Monticellina dorsobranchialis*; Labs 02, 05, 08, 09 and 18 recorded *M. heterochaeta*; Lab 06 recorded *M. dorsobranchialis/heterochaeta*; Labs 04 and 07 recorded *Monticellina* sp. All of the above names are possibilities for the British species and have been marked correct in this instance. Until their taxonomy is resolved, it will be best to use generic level identification for *Monticellina*.

RT3005 – *Caulleriella alata* (Figures 5a-b)

Substratum: Gravel. Salinity: Full. Depth: Circalittoral. Geography: English Channel. Condition: Fair, Medium, Anterior only. Note: Faded eyes.



Fig. 5a. *Caulleriella alata* (RT3005) - L

No differences recorded.

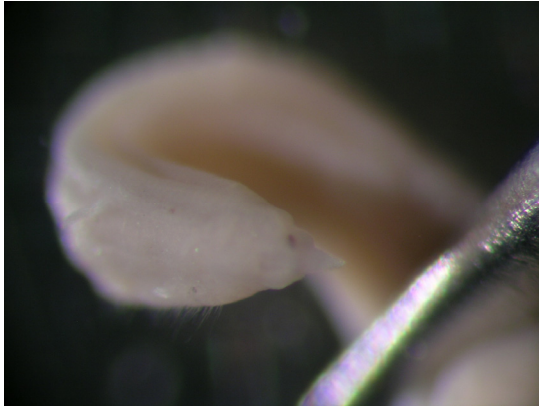


Fig. 5b. *Caulleriella alata* (RT3005) - ADL

RT3006 – *Cirratulus cirratus* (Figures 6a-e)

Substratum: Mixed. Salinity: High. Depth: Infralittoral. Geography: N. Ireland. Condition: Fair, Medium, Complete specimen.



Fig. 6a. *Cirratulus cirratus* (RT3006) - L

One generic and four specific differences: Lab 12 identified as *Cirratulus* A (Figures 6f-i) (which has a dorso-ventrally flattened head and a more elongate mouth); Lab 19 identified as *Aphelochaeta* A (Figures 3d-e) (which lacks eyes); Labs 05 and 16 identified as *Cirratulus* sp. juv. (ring test specimens should be identified at species level with appropriate confidence level notes).



Fig. 6b. *Cirratulus cirratus* (RT3006) - ADL



Fig. 6c. *Cirratulus cirratus* (RT3006) - AL

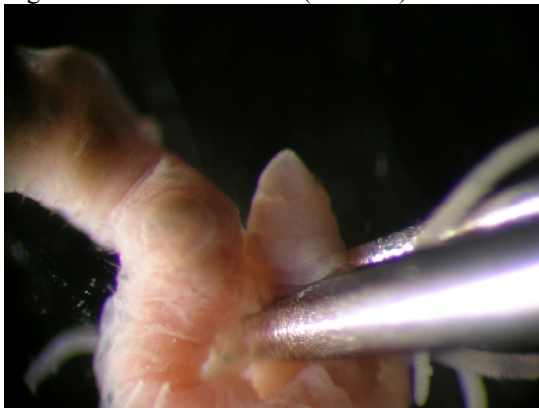


Fig. 6d. *Cirratulus cirratus* (RT3006) - AV

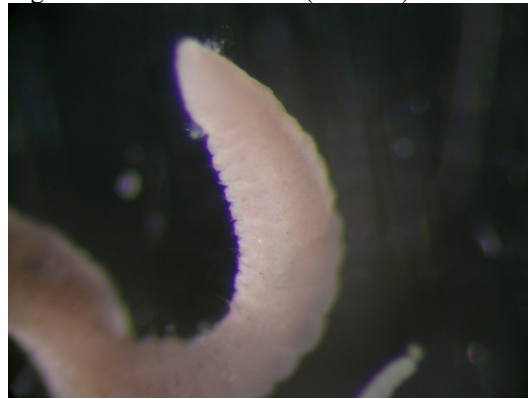


Fig. 6e. *Cirratulus cirratus* (RT3006) - PDL



Fig. 6f. *Cirratulus* A (LR9584) - L



Fig. 6g. *Cirratulus* A (LR9584) - AL



Fig. 6h. *Cirratulus* A (LR9584) - AV

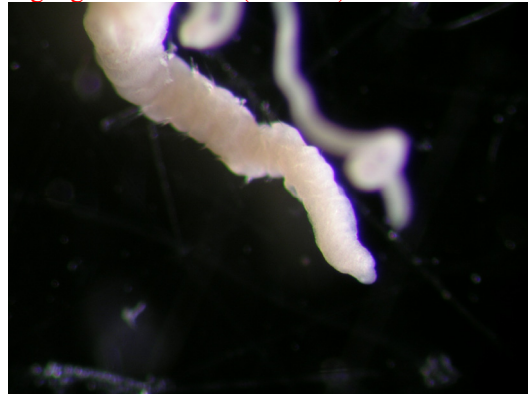


Fig. 6i. *Cirratulus* A (LR9584) - PDL

RT3007 – *Chaetozone zetlandica* (Figures 7a-c)

Substratum: Mixed. Salinity: High. Depth: Infralittoral. Geography: East Anglia. Condition: Fair, Medium, ½ anterior specimen.



Fig. 7a. *Chaetozone zetlandica* (RT3007) - L

Two specific differences: Lab 12 identified as *Chaetozone gibber* (Figures 9a-b & 24a-e) (which has shorter, irregularly directed thoracic chaetae); Lab 16 identified as *Chaetozone* sp. (ring test specimens should be identified at species level with appropriate confidence level notes).

Labs 03, 06 and 19 recorded the synonym *Caulleriella zetlandica*.

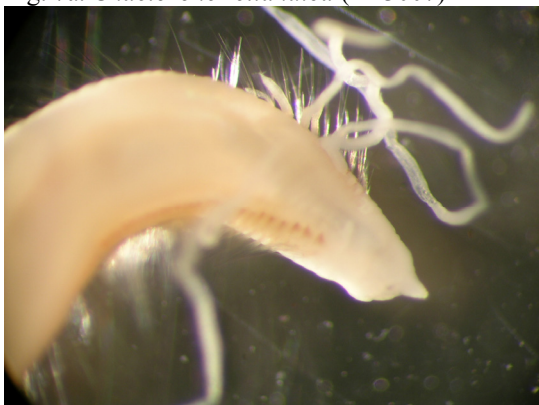


Fig. 7b. *Chaetozone zetlandica* (RT3007) - ADL

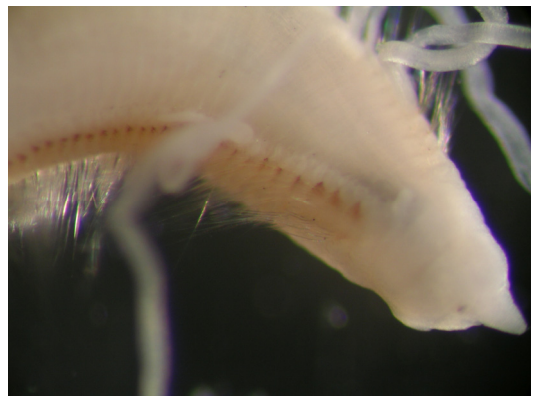


Fig. 7c. *Chaetozone zetlandica* (RT3007) - ADL

RT3008 – *Chaetozone christiei* (Figures 8a-c)

Substratum: Sand. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Fair, Medium, ½ anterior specimen.



Fig. 8a. *Chaetozone christiei* (RT3008) - L

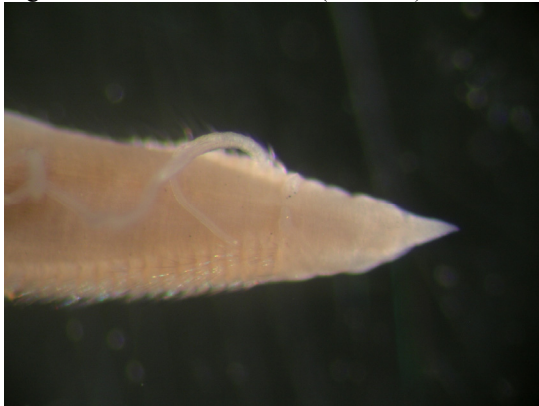


Fig. 8b. *Chaetozone christiei* (RT3008) - ADL

Two specific differences: Lab 12 identified as *Caulleriella zetlandica* a synonym of *Chaetozone zetlandica* (Figures 7a-c) (which has eyes and longer thoracic chaetae); Lab 16 identified as *Chaetozone setosa* agg. Type C (Figures 8d-g) (which has palps situated on the 1st chaetiger alongside the 1st pair of gills).

Lab 19 recorded the equivalent *Chaetozone setosa* Type B; Lab 02 recorded *Chaetozone christiei* (Type C), which has been marked correct in this instance.

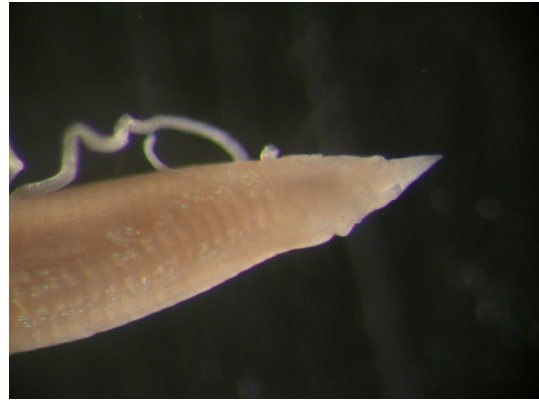


Fig. 8c. *Chaetozone christiei* (RT3008) - AL



Fig. 8d. *Chaetozone C* (LR24830) - LD



Fig. 8e. *Chaetozone C* (LR24830) - ADL

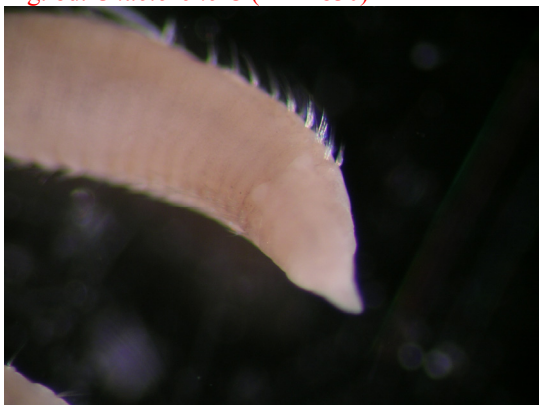


Fig. 8f. *Chaetozone C* (LR24830) - AD



Fig. 8g. *Chaetozone C* (LR24830) - AL

RT3009 – *Chaetozone gibber* (Figures 9a-b)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Fair, Large-Medium, ½ anterior specimen.

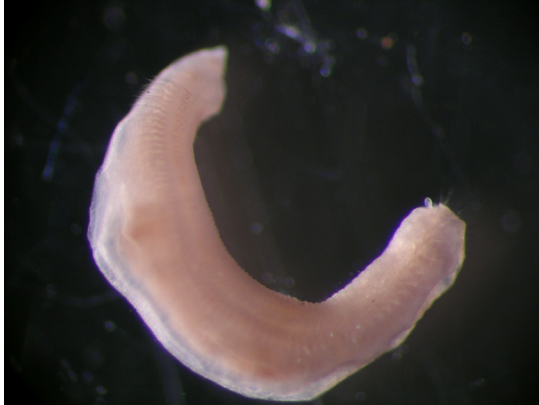


Fig. 9a. *Chaetozone gibber* (RT3009) - L

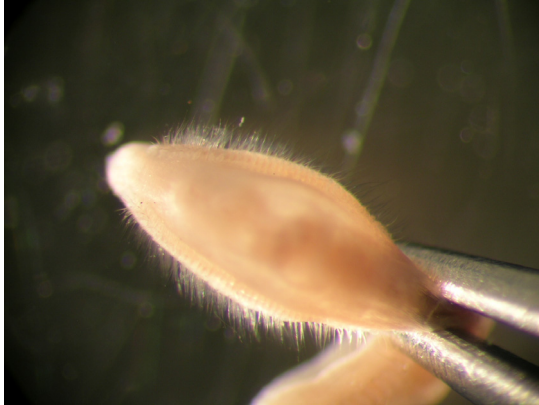


Fig. 9b. *Chaetozone gibber* (RT3009) - AD

No differences recorded.

RT3010 – *Cirriformia tentaculata* (Figures 10a-d)

Substratum: Mixed. Salinity: High. Depth: Circalittoral. Geography: N. Ireland. Condition: Good, Medium, Complete specimen.



Fig. 10a. *Cirriformia tentaculata* (RT3010) - DL



Fig. 10b. *Cirriformia tentaculata* (RT3010) - AL

No differences recorded.



Fig. 10c. *Cirriformia tentaculata* (RT3010) - AD



Fig. 10d. *Cirriformia tentaculata* (RT3010) - PV

RT3011 – *Protocirrinieris chrysoderma* (Figures 11a-c)

Substratum: Mud. Salinity: High. Depth: Infralittoral. Geography: English Channel. Condition: Fair, Medium, ½ anterior specimen.



Fig. 11a. *Protocirrinieris chrysoderma* (RT3011) - L

Two generic and two specific differences: Lab 16 identified as *Aphelochaeta* A (Figures 3d-e); Lab 19 identified as *Aphelochaeta marioni* (Figures 3a-c & 14a-c) (both of which have two palps on the achaetous segment).



Fig. 11b. *Protocirrinieris chrysoderma* (RT3011) - AD



Fig. 11c. *Protocirrinieris chrysoderma* (RT3011) - AD

RT3012 – *Tharyx killariensis* (Figures 12a-c)

Substratum: Mixed. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Good, Medium, ¾ anterior specimen.



Fig. 12a. *Tharyx killariensis* (RT3012) - L



Fig. 12b. *Tharyx killariensis* (RT3012) - AL

Three generic and five specific differences: Labs 02 and 12 identified as *Tharyx* A (Figures 15a-e & 18a-d) (which has a shorter, more flattened body and lacks wispy thoracic chaetae); Labs 03 and 16 identified as *Aphelochaeta marioni* (Figures 3a-c & 14a-c) and *Aphelochaeta marioni* Type B, respectively (both of which lack knob-tipped acicular chaetae in posterior chaetigers).



Fig. 12c. *Tharyx killariensis* (RT3012) – AL

RT3013 – *Chaetozone christiei* (Figures 13a-e)

Substratum: Sand. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Good, Medium, Complete specimen.



Fig. 13a. *Chaetozone christiei* (RT3013) - L

Two specific differences: Lab 12 identified as *Chaetozone setosa* (Figures 1a-c & 22a-e) (which has palps situated anteriorly to the 1st pair of gills on the achaetous segment and a rounded posterior x-section); Lab 19 identified as *Chaetozone setosa* Type C (Figures 8d-g) (which has palps situated on the 1st chaetiger alongside the 1st pair of gills).

Lab 16 recorded the equivalent *Chaetozone setosa* agg. Type B; Lab 02 recorded *Chaetozone christiei* (Type C), which has been marked correct in this instance.

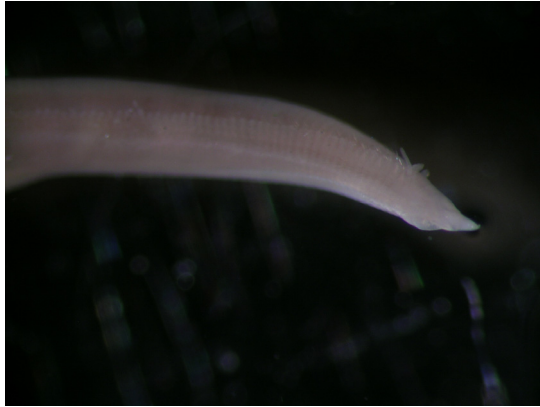


Fig. 13b. *Chaetozone christiei* (RT3013) - AL

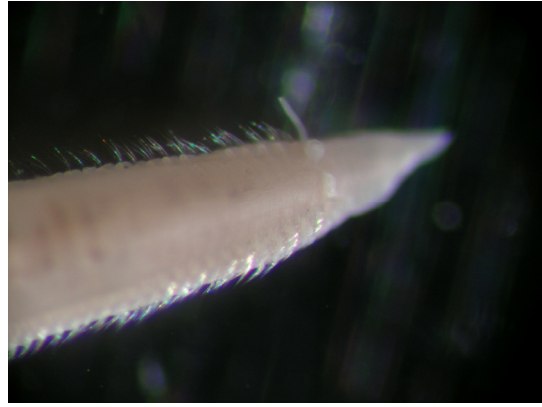


Fig. 13c. *Chaetozone christiei* (RT3013) - AD

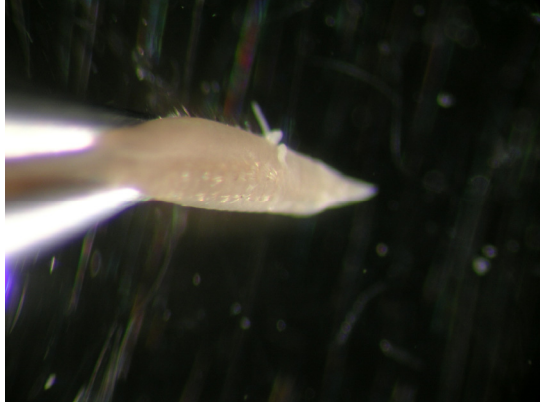


Fig. 13d. *Chaetozone christiei* (RT3013) - ADL



Fig. 13e. *Chaetozone christiei* (RT3013) - PDL

RT3014 – *Aphelochaeta marioni* (Figures 14a-c)

Substratum: Mud. Salinity: High. Depth: Intertidal. Geography: S. E. England. Condition: Fair, Small (juvenile), Complete specimen.

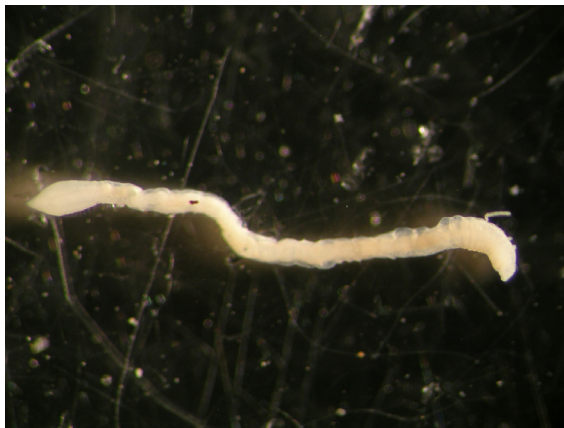


Fig. 14a. *Aphelochaeta marioni* (RT3014) - L



Fig. 14b. *Aphelochaeta marioni* (RT3014) - AL

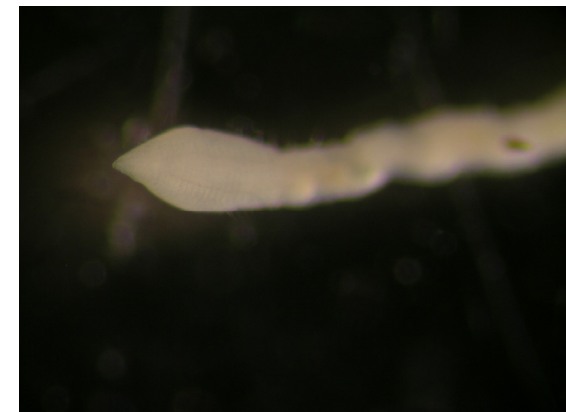


Fig. 14c. *Aphelochaeta marioni* (RT3014) - PVL

One generic and four specific differences: Lab 05 identified as *Aphelochaeta* A (Figure 3d-e) (which is a fully marine species with closely spaced palps situated in line with or behind the first chaetiger); Lab 19 identified as *Tharyx killariensis* (Figures 12a-c & 25a-d) (which is a subtidal species that has wispy thoracic chaetae and knob-tipped chaetae in posterior chaetigers).

Lab 02 identified as *Aphelochaeta monilaris*, which is a possible identity for the species; Lab 12 identified as *Aphelochaeta* B, which is probably equivalent. These identifications have been marked as correct in this instance; we suggest that the name *A. marioni* continue to be used for such forms, until the taxonomic issues are resolved.

RT3015 – *Tharyx* A (Figures 15a-e)

Substratum: Mud. Salinity: Reduced. Depth: Intertidal. Geography: S. E. England. Condition: Fair, Medium, Complete specimen.



Fig. 15a. *Tharyx* A (RT3015) - L



Fig. 15b. *Tharyx* A (RT3015) - AL



Fig. 15d. *Tharyx* A (RT3015) - AD

Four generic and four specific differences: Labs 03 and 19 identified as *Aphelochaeta* A (Figures 3d-e) (which is subtidal species that lacks knob-tipped chaetae posteriorly); Lab 05 identified as *Chaetozone* C (Figure 8d-g); Lab 09 identified as *Chaetozone christei*(sic.) (Figures 8a-c & 13a-e) (both of which have clearly acicular chaetae in both rami, posteriorly and occur in fully marine gravels or sands).

Lab 18 recorded the equivalent *Tharyx* A (cf. *acutus*).

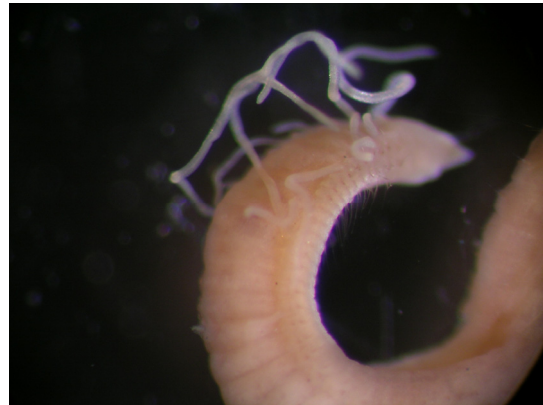


Fig. 15c. *Tharyx* A (RT3015) - AL

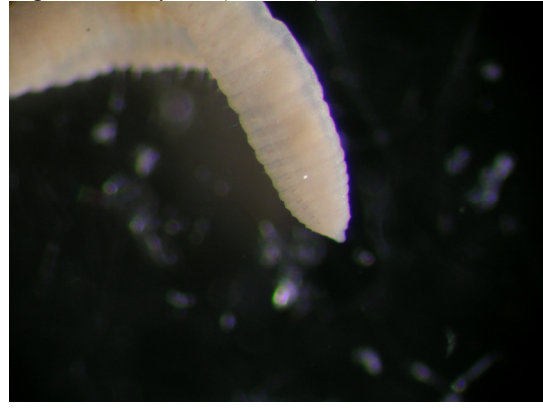


Fig. 15e. *Tharyx* A (RT3015) - PDL

RT3016 – *Chaetozone vivipara* (Figures 16a-d)

Substratum: Mud. Salinity: Reduced. Depth: Infralittoral. Geography: N. Ireland. Condition: Good, Medium, Complete specimen.



Fig. 16a. *Chaetozone vivipara* (RT3016) - LD



Fig. 16b. *Chaetozone vivipara* (RT3016) - AL



Fig. 16d. *Chaetozone vivipara* (RT3016) - PD

Two specific differences: Lab 05 identified as *Chaetozone christiei* (Figures 8a-c & 13a-e) (which has a longer body, acicular chaetae in both rami posteriorly, and inhabits fully marine sands); Lab 19 identified as *Chaetozone* sp. and stated that the specimen did not have an anterior (all specimens are rigorously checked prior to dispatch, however replacement specimens can be requested if specimens are damaged or lost).

Labs 06 and 12 recorded the synonym *Tharyx vivipara*.



Fig. 16c. *Chaetozone vivipara* (RT3016) - AD

RT3017 – *Cirratulus caudatus* (Figures 17a-e)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: W. Scotland. Condition: Fair, Medium, Anterior only.



Fig. 17a. *Cirratulus caudatus* (RT3017) - D



Fig. 17b. *Cirratulus caudatus* (RT3017) - AD

No differences recorded.



Fig. 17c. *Cirratulus caudatus* (RT3017) - AL



Fig. 17d. *Cirratulus caudatus* (RT3017) - AV



Fig. 17e. *Cirratulus caudatus* (RT3017) - PDL

RT3018 – *Tharyx* A (Figures 18a-d)

Substratum: Mud. Salinity: Reduced. Depth: Infralittoral. Geography: S. E. England. Condition: Good, Medium, Complete specimen.

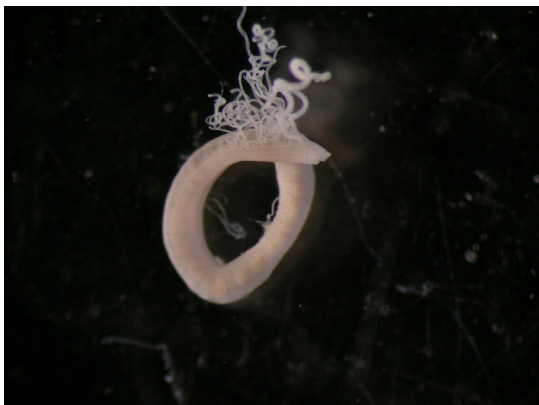


Fig. 18a. *Tharyx* A (RT3018) - L

Three generic and three specific differences: Labs 02 & 03 identified as *Aphelochaeta* A (Figure 3d-e) and *Aphelochaeta* A?, respectively (which lacks knob-tipped chaetae in posterior chaetigers and has a bluntly conical prostomium); Lab 09 identified as *Chaetozone christei*(sic.) (Figures 8a-c & 13a-e) (which has acicular chaetae in both rami of posterior chaetigers).

Lab 18 recorded the equivalent *Tharyx* A (cf. *acutus*).



Fig. 18b. *Tharyx* A (RT3018) - AL

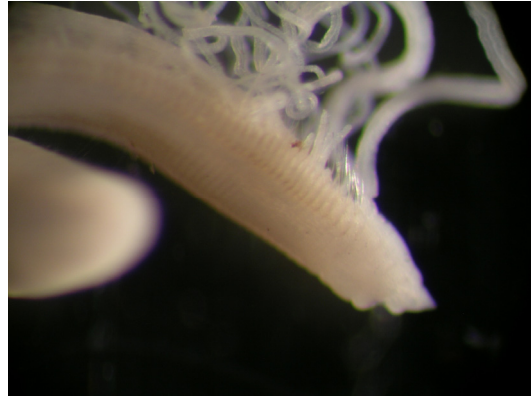


Fig. 18c. *Tharyx* A (RT3018) - AL



Fig. 18d. *Tharyx* A (RT3018) - PDL

RT3019 – *Protocirrinieris chrysoderma* (Figures 19a-c)

Substratum: Mud. Salinity: High. Depth: Infralittoral. Geography: English Channel. Condition: Fair, Medium, Complete specimen.

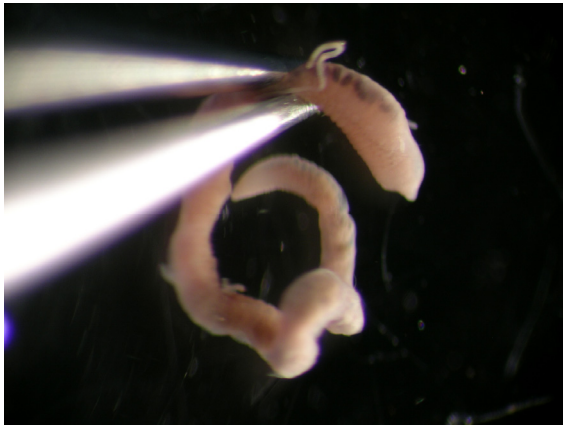


Fig. 19a. *Protocirrinieris chrysoderma* (RT3019) - L

Two generic and two specific differences: Lab 16 identified as *Cirriiformia tentaculata* (Figures 10a-d & 20a-c) (which has acicular chaetae and lacks long slightly forward facing chaetae in the first chaetigers); Lab 19 identified as *Aphelochaeta* B (probably equivalent to *A. marioni*) (which is bi-palpate).



Fig. 19a. *Protocirrinieris chrysoderma* (RT3019) - AL



Fig. 19a. *Protocirrinieris chrysoderma* (RT3019) - AD

RT3020 – *Cirriformia tentaculata* (Figures 20a-c)

Substratum: Mixed. Salinity: High. Depth: Circalittoral. Geography: N. Ireland. Condition: Good, Medium, Complete specimen.



Fig. 20a. *Cirriformia tentaculata* (RT3020) - LD



Fig. 20b. *Cirriformia tentaculata* (RT3020) - AL

No differences recorded.

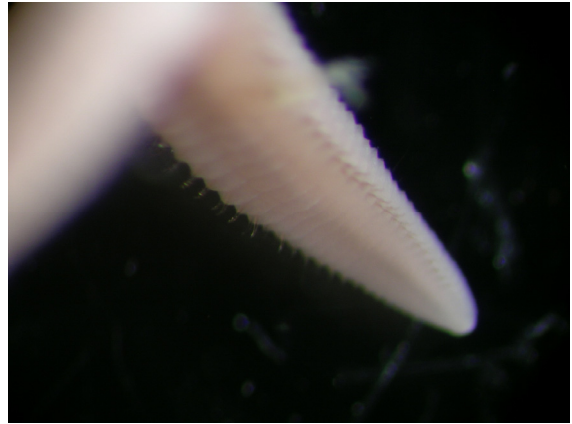


Fig. 20c. *Cirriformia tentaculata* (RT3020) - PD

RT3021 – *Monticellina* sp. (Figures 21a-c)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: S. W. England. Condition: Good, Medium, ¾ anterior specimen.



Fig. 21a. *Monticellina* sp. (RT3021) - L

One generic and one specific difference: Lab 03 identified as *Aphelochaeta marioni* (Figures 3a-c & 14a-c) (which lacks serrated chaetae and has a shorter, more conical, prostomium).

Labs 12, 16 and 19 recorded *Monticellina dorsobranchialis*; Labs 05, 08, 09 and 18 recorded *M. heterochaeta*; Lab 06 recorded *M. dorsobranchialis/heterochaeta*; Labs 04 and 07 recorded *Monticellina* sp.; Lab 02 recorded *M. annulosa*. All of the above names are possibilities for the British species and have been marked correct in this instance. Until their taxonomy is resolved, it will be best to use generic level identification.



Fig. 21b. *Monticellina* sp. (RT3021) - AL

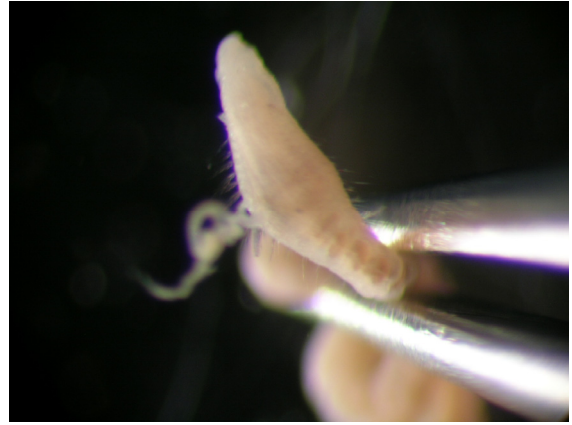


Fig. 21c. *Monticellina* sp. (RT3021) - AD

RT3022 – *Chaetozone setosa* (Figures 22a-e)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. E. England. Condition: Good, Medium, Complete specimen.



Fig. 22a. *Chaetozone setosa* (RT3022) - L

Two specific differences: Lab 16 and 19 identified as *Chaetozone christiei* or the synonym *Chaetozone setosa* Type B, respectively (Figures 8a-c & 13a-e) (which lacks palps situated anterior to the 1st pair of gills on the achaetous segment and has a more flattened posterior x-section).

Lab 02 recorded the equivalent *Chaetozone* Type A.; Lab 06 recorded *Chaetozone setosa* agg.; these laboratories have been marked correct in this instance, although the latter could cause confusion with e.g. *C. christiei* in data sets.



Fig. 22b. *Chaetozone setosa* (RT3022) - AL

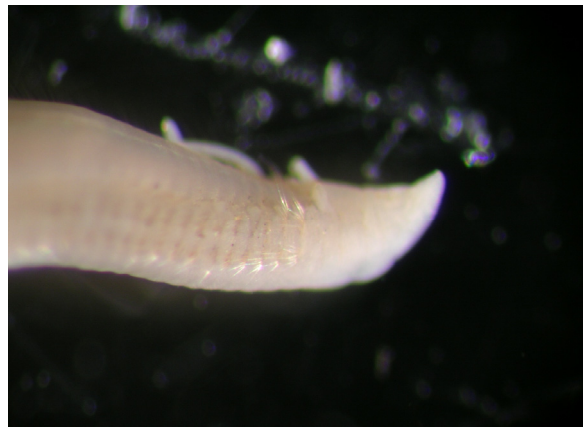


Fig. 22c. *Chaetozone setosa* (RT3022) - AL



Fig. 22d. *Chaetozone setosa* (RT3022) - PL

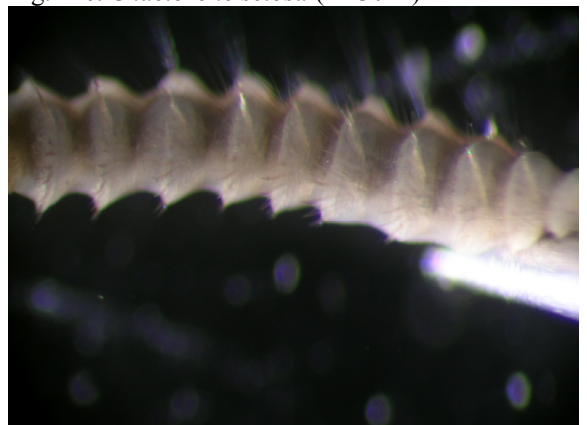


Fig. 22e. *Chaetozone setosa* (RT3022) - PL

RT3023 – *Caulleriella alata* (Figures 23a-c)

Substratum: Gravel. Salinity: Full. Depth: Circalittoral. Geography: English Channel. Condition: Fair-Good, Medium, ½ anterior specimen. Note: Faded eyes.



Fig. 23a. *Caulleriella alata* (RT3023) - L



Fig. 23b. *Caulleriella alata* (RT3023) - ALV

One generic and one specific difference: Lab 03 identified as *Chaetozone gibber*? (Figures 9a-b & 24a-e) (which has an anterior with fine irregularly directed capillaries in both rami).



Fig. 23c. *Caulleriella alata* (RT3023) - ALV

RT3024 – *Chaetozone gibber* (Figures 24a-e)

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



Fig. 24a. *Chaetozone gibber* (RT3024) - L

No differences recorded.



Fig. 24b. *Chaetozone gibber* (RT3024) - **AL**



Fig. 24c. *Chaetozone gibber* (RT3024) - **ADL**



Fig. 24d. *Chaetozone gibber* (RT3024) - **PVL**



Fig. 24e. *Chaetozone gibber* (RT3024) - **PD**

RT3025 – *Tharyx killariensis* (Figures 25a-d)

Substratum: Mud. Salinity: Full. Depth: Circalittoral. Geography: N. Ireland. Condition: Fair, Variable size, Complete specimen.



Fig. 25a. *Tharyx killariensis* (RT3025) - **D**

No differences recorded.



Fig. 25b. *Tharyx killariensis* (RT3025) - **AL**



Fig. 25c. *Tharyx killariensis* (RT3025) - **AD**

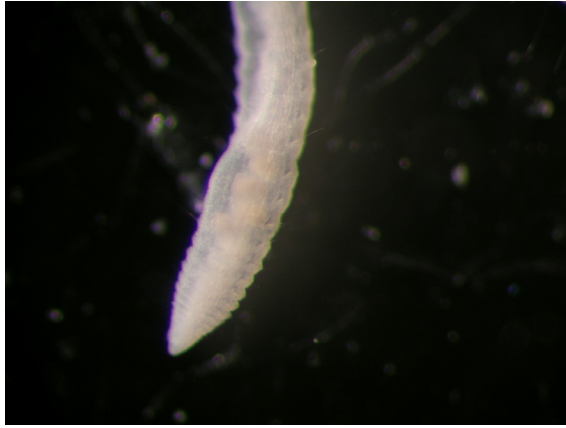


Fig. 25d. *Tharyx killariensis* (RT3025) - PD

Acknowledgements

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References

Blake, J.A., 1996. Family Cirratulidae Ryckholdt [sic, error for Ryckholt], 1851. Including a revision of the genera and species from the eastern north Pacific. In: (Ed. Blake, J.A., Hilbig, B. & Scott, P.H.): *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel*. Vol. 6 – The Annelida Part 3, Polychaeta: Orbiniidae to Cossuridae. Santa Barbara Museum of Natural History, Santa Barbara, California, 263-384.

Chambers, S.J., 2000. A redescription of *Chaetozone setosa* Malmgren, 1867 including a definition of the genus, and a description of a new species of *Chaetozone* (Polychaeta: Cirratulidae) from the northeast Atlantic. *Bulletin of Marine Science*, 67(1), 587-596.

Petersen, M.E., 1999. Reproduction and development in Cirratulidae (Annelida: Polychaeta). *Hydrobiologia*, 402, 107-128.

Worsfold, T.M., 2006. A provisional update to the identification of UK Cirratulidae. BEQUALM/NMBAQC Scheme Workshop, Dove Marine Lab., Cullercoats, 6-10 Nov. 2006.

Worsfold, T.M., 1996. A guide to the family Cirratulidae with a key to anterior portions. NMBAQC Scheme Workshop, University Marine Biological Station, Millport, 4-8 Nov. 1996.

Specimen Labels

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

<p>NMBAQC Scheme</p> <p><i>Chaetozone setosa</i> Location: N. E. England Gear: Grab FullCode #: RT30_01</p>	<p>NMBAQC Scheme</p> <p><i>Chaetozone vivipara</i> Location: E. England Gear: Grab FullCode #: RT30_02</p>	<p>NMBAQC Scheme</p> <p><i>Aphelochaeta marioni</i> Location: E. England Gear: Grab FullCode #: RT30_03</p>	<p>NMBAQC Scheme</p> <p><i>Monticellina sp.</i> Location: N. Ireland Gear: Grab FullCode #: RT30_04</p>
<p>NMBAQC Scheme</p> <p><i>Cauleriella alata</i> Location: English Channel Gear: Grab FullCode #: RT30_05</p>	<p>NMBAQC Scheme</p> <p><i>Cirratulus cirratus</i> Location: N. Ireland Gear: Grab FullCode #: RT30_06</p>	<p>NMBAQC Scheme</p> <p><i>Chaetozone zetlandica</i> Location: East Anglia Gear: Grab FullCode #: RT30_07</p>	<p>NMBAQC Scheme</p> <p><i>Chaetozone christiei</i> Location: S. W. England Gear: Grab FullCode #: RT30_08</p>
<p>NMBAQC Scheme</p> <p><i>Chaetozone gibber</i> Location: S. W. England Gear: Grab FullCode #: RT30_09</p>	<p>NMBAQC Scheme</p> <p><i>Cirriformia tentaculata</i> Location: N. Ireland Gear: Grab FullCode #: RT30_10</p>	<p>NMBAQC Scheme</p> <p><i>Protocirrinieris chrysoderma</i> Location: English Channel Gear: Grab FullCode #: RT30_11</p>	<p>NMBAQC Scheme</p> <p><i>Tharyx killariensis</i> Location: S. W. England Gear: Grab FullCode #: RT30_12</p>
<p>NMBAQC Scheme</p> <p><i>Chaetozone christiei</i> Location: S. W. England Gear: Grab FullCode #: RT30_13</p>	<p>NMBAQC Scheme</p> <p><i>Aphelochaeta marioni</i> Location: S. E. England Gear: Core FullCode #: RT30_14</p>	<p>NMBAQC Scheme</p> <p><i>Tharyx A</i> Location: S. E. England Gear: Core FullCode #: RT30_15</p>	<p>NMBAQC Scheme</p> <p><i>Chaetozone vivipara</i> Location: N. Ireland Gear: Grab FullCode #: RT30_16</p>
<p>NMBAQC Scheme</p> <p><i>Cirratulus caudatus</i> Location: W. Scotland Gear: Grab FullCode #: RT30_17</p>	<p>NMBAQC Scheme</p> <p><i>Tharyx A</i> Location: S. E. England Gear: Grab FullCode #: RT30_18</p>	<p>NMBAQC Scheme</p> <p><i>Protocirrinieris chrysoderma</i> Location: English Channel Gear: Grab FullCode #: RT30_19</p>	<p>NMBAQC Scheme</p> <p><i>Cirriformia tentaculata</i> Location: N. Ireland Gear: Grab FullCode #: RT30_20</p>
<p>NMBAQC Scheme</p> <p><i>Monticellina sp.</i> Location: S. W. England Gear: Grab FullCode #: RT30_21</p>	<p>NMBAQC Scheme</p> <p><i>Chaetozone setosa</i> Location: N. E. England Gear: Grab FullCode #: RT30_22</p>	<p>NMBAQC Scheme</p> <p><i>Cauleriella alata</i> Location: English Channel Gear: Grab FullCode #: RT30_24</p>	<p>NMBAQC Scheme</p> <p><i>Chaetozone gibber</i> Location: S. W. England Gear: Grab FullCode #: RT30_23</p>
<p>NMBAQC Scheme</p> <p><i>Tharyx killariensis</i> Location: N. Ireland Gear: Grab FullCode #: RT30_25</p>			