



# NMBQQC

NE Atlantic Marine Biological Analytical Quality Control Scheme

The NE Atlantic Marine Biological  
Analytical Quality Control Scheme

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## Fish Reverse Ring Test Bulletin

### F-RRT07

2015/2016

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Appendix 1. References

Table 1. Summary of data and specimens received from participating laboratories for the seventh reverse ring test - FRRT\_07.

Species Submitted	Number of Specimens	Size Range (Min - Max; mm)	Number of Taxonomic Errors	Number of Taxonomic Discrepancies	Thomson Unicmarine References
<i>Lampetra fluviatilis</i> ; River Lamprey	1	135 - 150	0	0	Maitland & Herdson 2009
<i>Raja clavata</i> ; Thornback Ray	3	100 - 270	0	0	Wheeler 1969
<i>Conger conger</i> ; Conger Eel	1	370	0	0	Maitland & Herdson 2009
<i>Alosa fallax</i> ; Twaite Shad	2	51 - 237	0	1	Wheeler 1969
<i>Clupea harengus</i> ; Herring	13	38 - 205	1	0	Maitland & Herdson 2009
<i>Sardina pilchardus</i> ; Pilchard	4	55 - 85	0	0	Maitland & Herdson 2009
<i>Sprattus sprattus</i> ; Sprat	13	46 - 122	1	0	Maitland & Herdson 2009
<i>Abramis brama</i> ; Common Bream	1	80	0	0	Maitland & Herdson 2009
<i>Barbus barbus</i> ; Barbel	1	29	0	0	Maitland 2004
<i>Leuciscus leuciscus</i> ; Dace	3	50 - 162	0	0	Maitland & Herdson 2009
<i>Phoxinus phoxinus</i> ; Minnow	2	16 - 25	0	0	Maitland & Herdson 2009
<i>Rutilus rutilus</i> ; Roach	2	40 - 60	0	0	Maitland & Herdson 2009
<i>Barbatula barbatula</i> ; Stone Loach	1	17	0	0	Maitland & Herdson 2009
<i>Osmerus eperlanus</i> ; Smelt	11	88 - 210	0	0	Wheeler 1969
<i>Salmo salar</i> ; Atlantic Salmon	1	120	0	0	Maitland & Herdson 2009
<i>Salmo trutta</i> ; Brown Trout	1	110	0	0	Maitland & Herdson 2009
<i>Esox lucius</i> ; Pike	1	268	0	0	Maitland & Herdson 2009

Table 1. Summary of data and specimens received from participating laboratories for the seventh reverse ring test - FRRT\_07.

Species Submitted	Number of Specimens	Size Range (Min - Max; mm)	Number of Taxonomic Errors	Number of Taxonomic Discrepancies	Thomson Unicomarine References
<i>Merluccius merluccius</i> ; Hake	1	238	0	0	Maitland & Herdson 2009
<i>Ciliata mustela</i> ; Five-bearded Rockling	3	149 - 180	0	0	Maitland & Herdson 2009
Unidentified Rockling	1	35	1	0	Wheeler 1969
<i>Gadus morhua</i> ; Cod	5	42 - 155	0	0	Wheeler 1969
<i>Merlangius merlangus</i> ; Whiting	8	94 - 165	0	0	Wheeler 1969
<i>Micromesistius poutassou</i> ; Blue Whiting	1	160	0	0	Maitland & Herdson 2009
<i>Pollachius pollachius</i> ; Pollack	2	98 - 111	0	0	Wheeler 1969
<i>Pollachius virens</i> ; Saithe / Coalfish	3	43 - 168	0	0	Maitland & Herdson 2009
<i>Trisopterus esmarkii</i> ; Norway Pout	2	93	1	0	Maitland & Herdson 2009
<i>Trisopterus luscus</i> ; Bib / Pouting	6	80 - 200	1	0	Wheeler 1969
<i>Trisopterus minutus</i> ; Poor Cod	3	94 - 134	0	0	Wheeler 1969
<i>Trisopterus capelanus</i> ; Mediterranean Poor Cod	1	195	0	1	Louisy 2015
<i>Lophius piscatorius</i> ; Anglerfish	1	400	0	0	Wheeler 1969
<i>Chelon labrosus</i> ; Thick-lipped Grey Mullet	2	25 - 80	0	0	Wheeler 1969
<i>Liza ramada</i> ; Thin-lipped Grey Mullet	1	89 - 204	0	0	Wheeler 1969

Table 1. Summary of data and specimens received from participating laboratories for the seventh reverse ring test - FRRT\_07.

Species Submitted	Number of Specimens	Size Range (Min - Max; mm)	Number of Taxonomic Errors	Number of Taxonomic Discrepancies	Thomson Unicomarine References
<i>Liza ramada</i> ; Thin-lipped Grey Mullet or <i>Liza aurata</i> ; Golden Grey Mullet	1	23	1	0	Wheeler 1969
Unidentified Grey Mullet	2	17 - 20	2	0	Wheeler 1969
<i>Belone belone</i> ; Garfish	1	170	0	0	Maitland & Herdson 2009
<i>Atherina presbyter</i> ; Sand Smelt	10	60 - 120	0	0	Maitland & Herdson 2009
<i>Zeus faber</i> ; John Dory	1	97	0	0	Maitland & Herdson 2009
<i>Gasterosteus aculeatus</i> ; Three-spined Stickleback	3	29 - 54	0	0	Maitland & Herdson 2009
<i>Pungitius pungitius</i> ; Nine-spined Stickleback	1	43	0	0	Maitland & Herdson 2009
<i>Spinachia spinachia</i> ; Fifteen-spined Stickleback	2	111 - 135	0	0	Maitland & Herdson 2009
<i>Syngnathus rostellatus</i> ; Lesser Pipefish	10	70 - 123	0	0	Wheeler 1969
<i>Syngnathus acus</i> ; Greater Pipefish	2	156 - 207	0	0	Wheeler 1969
<i>Trigloporus lastoviza</i> ; Streaked Gurnard	1	200	0	0	Maitland & Herdson 2009
<i>Chelidonichthys lucernus</i> ; Tub Gurnard	2	54 - 230	0	0	Wheeler 1969
<i>Eutrigla gurnardus</i> ; Grey Gurnard	6	36 - 164	0	0	Maitland & Herdson 2009
<i>Trigla lyra</i> ; Piper Gurnard	1	230	0	0	Maitland & Herdson 2009
<i>Cottus perifretum</i> ; Cottus perifretum	2	22 - 55	0	2	Freyfof, 2005

Table 1. Summary of data and specimens received from participating laboratories for the seventh reverse ring test - FRRT\_07.

Species Submitted	Number of Specimens	Size Range (Min - Max; mm)	Number of Taxonomic Errors	Number of Taxonomic Discrepancies	Thomson Unicomarine References
<i>Myoxocephalus scorpius</i> ; Bull Rout	2	90 - 145	0	0	Maitland & Herdson 2009
<i>Taurulus bubalis</i> ; Long-spined Sea Scorpion	4	42 - 86	1	0	Maitland & Herdson 2009
<i>Agonus cataphractus</i> ; Pogge	6	43 - 112	0	0	Maitland & Herdson 2009
<i>Liparis liparis</i> ; Common Sea Snail	7	33 - 93	0	0	Maitland & Herdson 2009
<i>Dicentrarchus labrax</i> ; Bass	4	81 - 140	0	0	Maitland & Herdson 2009
<i>Gymnocephalus cernus</i> ; Ruffe	1	24	0	0	Maitland & Herdson 2009
<i>Perca fluviatilis</i> ; Perch	3	20 - 60	0	0	Maitland & Herdson 2009
<i>Helicolenus dactylopterus</i> ; Blackbelly rosefish	1	180	0	0	Louisy 2015
<i>Trachurus trachurus</i> ; Scad / Atlantic Horse Mackerel	5	72 - 200	0	0	Maitland & Herdson 2009
<i>Boops boops</i> ; Bogue	1	210	0	0	Maitland & Herdson 2009
<i>Pagellus erythrinus</i> ; Pandora	1	170	0	0	Maitland & Herdson 2009
<i>Spondyllosoma cantharus</i> ; Black Bream	4	54 - 179	0	0	Maitland & Herdson 2009
<i>Pagellus acarne</i> ; Axillary Sea Bream	1	206	0	0	Louisy 2015
<i>Mullus barbatus</i> ; Plain Red Mullet	1	161	0	0	Maitland & Herdson 2009
<i>Mullus surmuletus</i> ; Striped Red mullet	4	56 - 175	0	0	Wheeler 1969

Table 1. Summary of data and specimens received from participating laboratories for the seventh reverse ring test - FRRT\_07.

Species Submitted	Number of Specimens	Size Range (Min - Max; mm)	Number of Taxonomic Errors	Number of Taxonomic Discrepancies	Thomson Unicmarine References
<i>Crenilabrus bailloni</i> ; Baillon's Wrasse	2	70 - 145	0	0	Maitland & Herdson 2009
<i>Symphodus melops</i> ; Corkwing Wrasse	4	66 - 145	0	0	Lythgoe & Lythgoe 1992
<i>Labrus bergylta</i> ; Ballan Wrasse	1	66	0	0	Lythgoe & Lythgoe 1991
<i>Ammodytes tobianus</i> ; Lesser Sandeel	6	58 - 100	0	0	Henderson 2014
<i>Hyperoplus lanceolatus</i> ; Greater Sandeel	1	97	1	0	Henderson 2014
<i>Echiichthys vipera</i> ; Lesser Weever	2	55 - 158	0	0	Maitland & Herdson 2009
<i>Trachinus draco</i> ; Greater Weever	1	280	0	0	Maitland & Herdson 2009
<i>Lipophrys pholis</i> ; Shanny	1	136	0	0	Maitland & Herdson 2009
<i>Diplecogaster bimaculata</i> ; Two-spotted Clingfish	1	32	0	0	Maitland & Herdson 2009
<i>Callionymus lyra</i> ; Common Dragonet	7	65 - 160	0	0	Maitland & Herdson 2009
<i>Callionymus maculatus</i> ; Spotted Dragonet	2	102 - 112	0	0	Maitland & Herdson 2009
<i>Aphia minuta</i> ; Transparent Goby	1	28	0	0	Lythgoe & Lythgoe 1991
<i>Gobius niger</i> ; Black Goby	1	111	0	0	Lythgoe & Lythgoe 1991
<i>Gobius paganellus</i> ; Rock Goby	2	55 - 70	0	0	Lythgoe & Lythgoe 1991
<i>Gobiusculus flavescens</i> ; Two-spotted Goby	6	32 - 51	0	0	Lythgoe & Lythgoe 1991
<i>Lesuerigobius friesii</i> ; Fries's Goby	1	70	0	0	Lythgoe & Lythgoe 1991

Table 1. Summary of data and specimens received from participating laboratories for the seventh reverse ring test - FRRT\_07.

Species Submitted	Number of Specimens	Size Range (Min - Max; mm)	Number of Taxonomic Errors	Number of Taxonomic Discrepancies	Thomson Unicomarine References
<i>Pomatoschistus microps</i> ; Common Goby	7	30 - 50	3	0	Lythgoe & Lythgoe 1991
<i>Pomatoschistus minutus</i> ; Sand Goby	24	29 - 79	1	4	Lythgoe & Lythgoe 1991
<i>Pomatoschistus pictus</i> ; Painted Goby	3	32 - 55	0	0	Lythgoe & Lythgoe 1991
<i>Scomber scombrus</i> ; Atlantic Mackerel	1	180	0	0	Maitland & Herdson 2009
<i>Zeugopterus punctatus</i> ; Topknot	1	140	0	0	Maitland & Herdson 2009
<i>Limanda limanda</i> ; Dab	7	33 - 170	0	0	Maitland & Herdson 2009
<i>Microstomus kitt</i> ; Lemon Sole	1	240	0	0	Maitland & Herdson 2009
<i>Platichthys flesus</i> ; Flounder	11	35 - 320	0	0	Wheeler 1969
<i>Pleuronectes platessa</i> ; Plaice	8	51 - 215	0	0	Wheeler 1969
<i>Arnoglossus laterna</i> ; Scaldfish	3	42 - 109	0	0	Wheeler 1969
<i>Buglossidium luteum</i> ; Solenette	3	65 - 106	0	0	Maitland & Herdson 2009
<i>Solea solea</i> ; Common Sole / Dover Sole	6	68 - 130	0	0	Maitland & Herdson 2009
<i>Citharus linguatula</i> ; Spotted Flounder	1	195	0	0	Louisy 2015
Unidentified	1	45	1	0	Freyhof, 2005
Unknown	1	55	1	0	Maitland & Herdson 2009



Table 2. Summary of taxonomic errors / discrepancies by participating laboratories for the seventh fish reverse ring test; FRRT\_07, sorted by taxonomic group.

Total Number of Entries - 308

Total Number of Taxonomic differences - 24

LabCode	Laboratory Identification	Thomson Unicmarine Identification	Reason for Taxonomic Error (TE) / Taxonomic Discrepancy (TD)
2227	<i>Alosa fallax</i> ; Twaite shad	<i>Alosa fallax</i> ; Twaite shad	TD - Gill raker analysed for confirmation. Gill raker count (40 - 60) and coarse structure.
2204	<i>Clupea harengus</i> ; Herring	<i>Sprattus sprattus</i> ; Sprat	TE - Specimen very damaged. Origin of pectoral fin is in front of the dorsal fin.
2214	Unknown	<i>Sardina pilchardus</i> ; Pilchard	TE - Specimen damaged. Body shape herring like. Radiating ridges on the gill cover. Last anal rays are elongate.
2204	<i>Sprattus sprattus</i> ; Sprat	<i>Merlangius merlangus</i> ; Whiting	TE - Body and head profile. No keels on the underside of the body. Three dorsal fins rather than one. Upper jaw just longer than lower jaw. Tiny chin barbel.
2204	Unidentified Rockling	<i>Ciliata mustela</i> ; Five-bearded Rockling	TE - Five barbels; one chin barbel, one pair on the front of the upper lip and one pair on the anterior nostrils.
2220	<i>Trisopterus esmarkii</i> ; Pout	<i>Trisopterus luscus</i> ; Bib / Pouting	TD - Common name Norway Pout. TE - Body is deeper. Lower jaw not longer than top jaw. Longer chin barbel. Three dorsal fin bases overlap rather than have a gap between each fin.
2203	<i>Trisopterus luscus</i> ; Bib / Pouting	<i>Trisopterus minutus</i> ; Poor cod	TE - Body not as deep. Origin of first anal fin is positioned beneath the first space between the first and second dorsal fins.
2223	<i>Trisopterus capelanus</i> ; Capelan	<i>Trisopterus capelanus</i> ; Mediterranean Poor Cod	TD - Common name.
2215	<i>Liza ramada</i> ; Thin-lipped Mullet or <i>Liza aurata</i> ; Golden Grey Mullet	<i>Liza ramada</i> ; Thin-lipped Grey Mullet	TE - No gold spot on cheek. Ventral head pigmentation; heaviest pattern along the gular.
2212	Unidentified Mullet	<i>Liza ramada</i> ; Thin-lipped Grey Mullet	TE - Ventral head pigmentation pattern; heaviest pattern along the gular.
2231	Unidentified Mullet	<i>Chelon labrosus</i> ; Thick-lipped Grey Mullet	TE - Ventral head pigmentation pattern; heaviest pattern in mandibular, ventro-opercular and jugular.
2227	<i>Cottus perifretum</i> ; Cottus perifretum	<i>Cottus perifretum</i> ; Cottus perifretum	TD - Prickling distribution aligns with identification but DNA analysis would be required to confirm.
2227	<i>Cottus perifretum</i> ; Cottus perifretum	<i>Cottus perifretum</i> ; Cottus perifretum	TD - Prickling distribution aligns with identification but DNA analysis would be required to confirm.
2227	Unidentified	<i>Cottus perifretum</i> ; Cottus perifretum	TE, TD - Reduced prickling in males. DNA analysis would be required to confirm.

Table 2. Summary of taxonomic errors / discrepancies by participating laboratories for the seventh fish reverse ring test; FRRT\_07, sorted by taxonomic group.

LabCode	Laboratory Identification	Thomson Unicornarine Identification	Reason for Taxonomic Error (TE) / Taxonomic Discrepancy (TD)
2227	<i>Taurulus bubalis</i> ; Sea Scorpion	<i>Myoxocephalus scorpius</i> ; Bull Rout	TD - Common name. TE - Chin barbel absent. Longest pre-opercular spine not significantly longer than eye diameter. Second dorsal fin ray count 14. Anal fin ray count 11. Gill membrane forms a flap under the throat.
2208	<i>Hyperoplus lanceolatus</i> ; Greater Sandeel	<i>Hyperoplus immaculatus</i> ; Corbin's Sandeel	TE - Absence of dark patch on snout. Bifid tooth structure present in roof of mouth.
2204	<i>Pomatoschistus microps</i> ; Common Goby	<i>Pomatoschistus minutus</i> ; Sand Goby	TE - Pigmentation under lower jaw in horizontal rows, villi present on pelvic disc anterior membrane
2212	<i>Pomatoschistus microps</i> ; Common Goby	<i>Pomatoschistus pictus</i> ; Painted Goby	TE - Pigmentation under lower jaw is 'heavy dark'. Anterior membrane of the pelvic disc is smooth edged. Black spots along the dorsal fin membranes.
2221	<i>Pomatoschistus microps</i> ; Common Goby	<i>Pomatoschistus minutus</i> ; Sand Goby	TE - Pigmentation under lower jaw in horizontal rows, villi present on pelvic disc anterior membrane
2215	<i>Pomatoschistus minutus</i> ; Common Goby	<i>Pomatoschistus minutus</i> ; Sand Goby	TD - Incorrect common name
2215	<i>Pomatoschistus minutus</i> ; Common Goby	<i>Pomatoschistus minutus</i> ; Sand Goby	TD - Incorrect common name
2215	<i>Pomatoschistus minutus</i> ; Common Goby	<i>Pomatoschistus minutus</i> ; Sand Goby	TD - Incorrect common name
2215	<i>Pomatoschistus minutus</i> ; Common Goby	<i>Pomatoschistus minutus</i> ; Sand Goby	TD - Incorrect common name
2123	<i>Pomatoschistus microps</i> ; Common Goby	<i>Pomatoschistus minutus</i> ; Sand Goby	TE - Pigmentation under lower jaw in horizontal rows, villi present on pelvic disc anterior membrane

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 26/11/2016

Specimens Received - 01/12/2015

Number of Subscribing Laboratories - 24

Laboratory Code - 2202

Key to codes:

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

sy - Synonym

mx - Mixture of species

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Osmerus eperlanus</i> ; Smelt; 96	<i>Osmerus eperlanus</i> ; Smelt; 96	-
2	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 110	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 110	-
3	<i>Merlangius merlangus</i> ; Whiting; 140	<i>Merlangius merlangus</i> ; Whiting; 140	-
4	<i>Pomatoschistus minutus</i> ; Sand Goby; 71	<i>Pomatoschistus minutus</i> ; Sand Goby; 71	-
5	<i>Clupea harengus</i> ; Herring; 106	<i>Clupea harengus</i> ; Herring; 106	-
6	<i>Sprattus sprattus</i> ; Sprat; 97	<i>Sprattus sprattus</i> ; Sprat; 97	-
7	<i>Sprattus sprattus</i> ; Sprat; 84	<i>Sprattus sprattus</i> ; Sprat; 84	-
8	<i>Clupea harengus</i> ; Herring; 105	<i>Clupea harengus</i> ; Herring; 105	-
9	<i>Platichthys flesus</i> ; Flounder; 74	<i>Platichthys flesus</i> ; Flounder; 74	-
10	<i>Platichthys flesus</i> ; Flounder; 70	<i>Platichthys flesus</i> ; Flounder; 70	-
11	<i>Pomatoschistus minutus</i> ; Sand Goby; 66	<i>Pomatoschistus minutus</i> ; Sand Goby; 66	-
12	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 88	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 88	-
13	<i>Merlangius merlangus</i> ; Whiting; 96	<i>Merlangius merlangus</i> ; Whiting; 96	-
14	-	-	No specimen submitted
15	-	-	No specimen submitted

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 07/12/15

Specimens Received - 07/12/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2203

Key to codes:

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

sy - Synonym

mx - Mixture of species

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 120	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 120	-
2	<i>Liparis liparis</i> ; Common Sea Snail; 60	<i>Liparis liparis</i> ; Common Sea Snail; 60	-
3	<i>Pomatoschistus minutus</i> ; Sand goby; 45	<i>Pomatoschistus minutus</i> ; Sand goby; 45	-
4	<i>Trisopterus luscus</i> ; Bib / Pouting; 80	<i>Trisopterus minutus</i> ; Poor Cod; 80	TE - Body not as deep. Origin of first anal fin is beneath the first space between the first and second dorsal fins.
5	<i>Clupea harengus</i> ; Herring; 97,205; Herring	<i>Clupea harengus</i> ; Herring; 97,205; Herring	-
6	<i>Syngnathus acus</i> ; Greater Pipefish; 207	<i>Syngnathus acus</i> ; Greater Pipefish; 207	-
7	<i>Esox lucius</i> ; Pike; 268	<i>Esox lucius</i> ; Pike; 268	-
8	<i>Myoxocephalus scorpius</i> ; Bull Rout; 145	<i>Myoxocephalus scorpius</i> ; Bull Rout; 145	-
9	<i>Osmerus eperlanus</i> ; Smelt; 165	<i>Osmerus eperlanus</i> ; Smelt; 165	-
10	<i>Pomatoschistus microps</i> ; Common goby; 30	<i>Pomatoschistus microps</i> ; Common goby; 30	-
11	<i>Callionmus lyra</i> ; Common Dragonet; 145	<i>Callionmus lyra</i> ; Common Dragonet; 145	-
12	<i>Agonus cataphractus</i> ; Hooknosed Pogge; 60	<i>Agonus cataphractus</i> ; Hooknose / Pogge; 60	-
13	<i>Raja clavata</i> ; Thornback Ray; 160	<i>Raja clavata</i> ; Thornback Ray; 160	-
14	<i>Belone belone</i> ; Garfish; 170	<i>Belone belone</i> ; Garfish; 170	-
15	<i>Chelidonichthys lucernus</i> ; Tub Gurnard; 230	<i>Chelidonichthys lucernus</i> ; Tub Gurnard; 230	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 18/12/15

Specimens Received - 18/12/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2204

**Key to codes:**

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

sy - Synonym

mx - Mixture of species

\* - Problem taxa indicated

TUM - Thomson Unicmarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicmarine Identification	Code / Comments
1	<i>Sprattus sprattus</i> ; Sprat; 55	<i>Merlangius merlangus</i> ; Whiting; 55	TE - Body and head profile. No keels on the underside of the body. Three dorsal fins rather than one. Upper jaw just longer than lower jaw. Tiny chin barbel.
2	<i>Limanda limanda</i> ; Dab; 64	<i>Limanda limanda</i> ; Dab; 64	-
3	<i>Pleuronectes platessa</i> ; Plaice; 65	<i>Pleuronectes platessa</i> ; Plaice; 65	-
4	<i>Clupea harengus</i> ; Herring; 38	<i>Sprattus sprattus</i> ; Sprat; 38	TE - Dorsal fin alignment. Origin of pectoral fin is in front of the dorsal fin. Specimen is very damaged.
5	<i>Trisopterus luscus</i> ; Bib; 200	<i>Trisopterus luscus</i> ; Bib / Pouting; 200	-
6	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 110	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 110	-
7	<i>Trachurus trachurus</i> ; Atlantic Horse Mackerel; 95	<i>Trachurus trachurus</i> ; Atlantic Horse Mackerel; 95	-
8	<i>Pomatoschistus minutus</i> ; Sand goby; 41	<i>Pomatoschistus microps</i> ; Common goby; 41	TE - Ventral chin pigmentation.
9	<i>Pomatoschistus microps</i> ; Common goby; 38	<i>Pomatoschistus minutus</i> ; Sand goby; 38	TE - Pigmentation under lower jaw in horizontal rows, villi present on pelvic disc anterior membrane.
10	<i>Osmerus eperlanus</i> ; European Smelt; 88	<i>Osmerus eperlanus</i> ; European Smelt; 88	-
11	<i>Agonus cataphratus</i> ; Hooknose / Pogge; 43	<i>Agonus cataphratus</i> ; Hooknose / Pogge; 43	-
12	<i>Liparis liparis</i> ; Common Sea Snail; 93	<i>Liparis liparis</i> ; Common Sea Snail; 93	-
13	<i>Callionymus lyra</i> ; Common dragonet; 139	<i>Callionymus lyra</i> ; Common dragonet; 139	-
14	<i>Solea solea</i> ; Common Sole / Dover Sole; 68	<i>Solea solea</i> ; Common Sole / Dover Sole; 68	-
15	Rockling?; 35	<i>Ciliata mustela</i> ; 5-bearded Rockling; 35	TE - Five barbels; one chin barbel, one pair on the front of the upper lip and one pair on the anterior nostrils.

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 11/12/15  
 Specimens Received - 11/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2205

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 sy - Synonym  
 mx - Mixture of species  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Limanda limanda</i> ; Dab; 170	<i>Limanda limanda</i> ; Dab; 170	-
2	<i>Agonus cataphractus</i> ; Pogge; 112	<i>Agonus cataphractus</i> ; Pogge; 112	-
3	<i>Platichthys flesus</i> ; Flounder; 320	<i>Platichthys flesus</i> ; Flounder; 320	-
4	<i>Solea solea</i> ; Common Sole; 110	<i>Solea solea</i> ; Common Sole; 110	-
5	<i>Buglossidium luteum</i> ; Solenette; 105	<i>Buglossidium luteum</i> ; Solenette; 105	-
6	<i>Raja clavata</i> ; Thornback Ray; 270	<i>Raja clavata</i> ; Thornback Ray; 270	-
7	<i>Pleuronectes platessa</i> ; Plaice; 120	<i>Pleuronectes platessa</i> ; Plaice; 120	-
8	<i>Merlangius merlangus</i> ; Whiting; 165	<i>Merlangius merlangus</i> ; Whiting; 165	-
9	<i>Gadus morhua</i> ; Cod; 155	<i>Gadus morhua</i> ; Cod; 155	-
10	<i>Trisopterus minutus</i> ; Poor Cod; 94	<i>Trisopterus minutus</i> ; Poor Cod; 94	-
11	<i>Liparis liparis</i> ; Sea Snail; 77	<i>Liparis liparis</i> ; Common Sea Snail; 77	-
12	<i>Pomatoschistus minutus</i> ; Sand Goby; 72	<i>Pomatoschistus minutus</i> ; Sand Goby; 72	-
13	<i>Sprattus sprattus</i> ; Sprat; 80	<i>Sprattus sprattus</i> ; Sprat; 80	-
14	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 95	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 95	-
15	<i>Ciliata mustela</i> ; 5 Bearded Rockling; 180	<i>Ciliata mustela</i> ; 5 Bearded Rockling; 180	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 17/11/15

Specimens Received - 17/11/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2206

Key to codes:

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Arnoglossus laterna</i> ; Scaldfish; 105,109	<i>Arnoglossus laterna</i> ; Scaldfish; 105,109	-
2	<i>Spondyllosoma cantharus</i> ; Black Bream; 54	<i>Spondyllosoma cantharus</i> ; Black Bream; 54	-
3	<i>Diplecogaster bimaculata</i> ; Two-spotted clingfish; 32	<i>Diplecogaster bimaculata</i> ; Two-spotted Clingfish; 32	-
4	<i>Echiichthys vipera</i> ; Lesser weaver; 55	<i>Echiichthys vipera</i> ; Lesser Weever; 55	sp - Common name
5	<i>Buglossidium luteum</i> ; Solenette; 65	<i>Buglossidium luteum</i> ; Solenette; 65	-
7	<i>Limanda limanda</i> ; Dab; 83	<i>Limanda limanda</i> ; Dab; 83	-
8	<i>Syngnathus rostellatus</i> ; Lesser pipefish; 123	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 123	-
9	<i>Eutrigla gurnardus</i> ; Grey gurnard; 115	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 115	-
10	<i>Mullus surmuletus</i> ; Striped red mullet; 110	<i>Mullus surmuletus</i> ; Striped Red Mullet; 110	-
11	<i>Callionymus lyra</i> ; Common dragonet; 83	<i>Callionymus lyra</i> ; Common dragonet; 83	-
12	<i>Atherina presbyter</i> ; Sand-smelt; 115	<i>Atherina presbyter</i> ; Sand-smelt; 115	-
13	<i>Trisopterus luscus</i> ; Bib; 126	<i>Trisopterus luscus</i> ; Bib / Pouting; 126	-
14	<i>Symphodus bailloni</i> ; Baillion's wrasse; 70	<i>Symphodus bailloni</i> ; Baillion's Wrasse; 70	-
15	<i>Gobius niger</i> ; Black goby; 111	<i>Gobius niger</i> ; Black Goby; 111	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received -09/12/15

Specimens Received - 08/12/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2208

**Key to codes:**

TE - Taxonomic error

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicmarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicmarine Identification	Code / Comments
1	<i>Chelidonichthys lucernus</i> ; Tub gurnard; 54	<i>Chelidonichthys lucernus</i> ; Tub Gurnard; 54	-
2	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 43	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 43	-
3	<i>Mullus surmuletus</i> ; Red mullet; 56	<i>Mullus surmuletus</i> ; Red Striped Mullet; 56	-
4	<i>Liparis liparis</i> ; Common sea snail; 33	<i>Liparis liparis</i> ; Common Sea Snail; 33	-
5	<i>Labrus bergylta</i> ; Ballan Wrasse; 66	<i>Labrus bergylta</i> ; Ballan Wrasse; 66	-
6	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 40	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 40	-
7	<i>Trisopterus minutus</i> ; Poor cod; 115	<i>Trisopterus minutus</i> ; Poor Cod; 115	-
8	<i>Aphia minuta</i> ; Transparent goby; 28	<i>Aphia minuta</i> ; Transparent Goby; 28	-
9	<i>Arnoglossus laterna</i> ; Scaldfish; 42	<i>Arnoglossus laterna</i> ; Scaldfish; 42	-
10	<i>Syngnathus rostellatus</i> ; Lesser pipefish; 110	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 110	-
11	<i>Sardina pilchardus</i> ; Pilchard; 55	<i>Sardina pilchardus</i> ; Pilchard; 55	-
12	<i>Hyperoplus lanceolatus</i> ; Greater sandeel; 97	<i>Hyperoplus immaculatus</i> ; Corbin's Sandeel; 97	TE - Lack of black spot on snout. Bifid tooth structure present on roof of mouth.
13	<i>Ammodytes tobianus</i> ; Lesser sandeel; 118	<i>Ammodytes tobianus</i> ; Lesser Sandeel; 118	-
14	<i>Pomatoschistus minutus</i> ; Sandy goby; 32	<i>Pomatoschistus minutus</i> ; Sandy Goby; 32	-
15	<i>Pomatoschistus pictus</i> ; Painted goby; 32	<i>Pomatoschistus pictus</i> ; Painted Goby; 32	-



**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2014

Data Received - 04/12/15

Specimens Received - 04/12/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2210

Key to codes:

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Dicentrarchus labrax</i> ; Bass; 81	<i>Dicentrarchus labrax</i> ; Bass; 81	-
2	<i>Trisopterus luscus</i> ; Pout; 112	<i>Trisopterus luscus</i> ; Pouting / Bib; 112	-
3	<i>Ciliata mustela</i> ; 5-Bearded Rockling; 149	<i>Ciliata mustela</i> ; Five-bearded Rockling; 149	-
4	<i>Spinachia spinachia</i> ; 15 - Spined Stickleback; 135	<i>Spinachia spinachia</i> ; 15 - spined Stickleback; 135	-
5	<i>Platichthys flesus</i> ; Flounder; 122	<i>Platichthys flesus</i> ; Flounder; 122	-
6	<i>Clupea harengus</i> ; Herring; 140	<i>Clupea harengus</i> ; Herring; 140	-
7	<i>Merlangius merlangus</i> ; Whiting; 155	<i>Merlangius merlangus</i> ; Whiting; 155	-
8	<i>Buglossidium luteum</i> ; Solenette; 106	<i>Buglossidium luteum</i> ; Solenette; 106	-
9	<i>Crenilabrus bailloni</i> ; Baillons Wrasse; 145	<i>Symphodus bailloni</i> ; Baillon's Wrasse; 145	sy
10	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 164	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 164	-
11	<i>Callionymus lyra</i> ; Common Dragonet; 65	<i>Callionymus lyra</i> ; Common Dragonet; 65	-
12	<i>Spondyliosoma cantharus</i> ; Black Bream; 54	<i>Spondyliosoma cantharus</i> ; Black Bream; 54	-
13	<i>Crenilabrus melops</i> ; Corkwing Wrasse; 145	<i>Symphodus melops</i> ; Corkwing Wrasse; 145	sy
14	<i>Atherina presbyter</i> ; Sand Smelt; 69	<i>Atherina presbyter</i> ; Sand Smelt; 69	-
15	<i>Gobiusculus flavescens</i> ; 2-Spot Goby; 32	<i>Gobiusculus flavescens</i> ; Two-Spotted Goby; 32	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 30/11/15  
 Specimens Received - 02/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2111

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Platichthys flesus</i> ; Flounder; 189	<i>Platichthys flesus</i> ; Flounder; 189	-
2	<i>Pleuronectes platessa</i> ; Plaice; 215	<i>Pleuronectes platessa</i> ; Plaice; 215	-
3	<i>Gasterosteus aculeatus</i> ; 3 spined stickleback; 54	<i>Gasterosteus aculeatus</i> ; Three-spined Stickleback; 54	-
4	<i>Gadus morhua</i> ; Cod; 42	<i>Gadus morhua</i> ; Cod; 42	-
5	<i>Osmerus eperlanus</i> ; European Smel; 210	<i>Osmerus eperlanus</i> ; Smelt; 210	sp - Common name
6	<i>Liza ramada</i> ; Thin lipped grey mullet; 89, 204	<i>Liza ramada</i> ; Thin-lipped Grey Mullet; 89, 204	-
7	<i>Pomatoschistus minutus</i> ; Sand Goby; 47, 75	<i>Pomatoschistus minutus</i> ; Sand Goby; 47, 75	-
8	<i>Syngnathus rostellatus</i> ; Lesser pipefish; 70	<i>Syngnathus rostellatus</i> ; Lesser pipefish; 70	-
9	<i>Ammodytes tobianus</i> ; Lesser sandeel; 78, 97	<i>Ammodytes tobianus</i> ; Lesser sandeel; 78, 97	-
10	<i>Clupea harengus</i> ; Herring; 50	<i>Clupea harengus</i> ; Herring; 50	-
11	<i>Sprattus sprattus</i> ; Sprat; 46	<i>Sprattus sprattus</i> ; Sprat; 46	-
12	-	-	No specimen submitted
13	-	-	No specimen submitted
14	-	-	No specimen submitted
15	-	-	No specimen submitted

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 10/12/15  
 Specimens Received - 11/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2212

**Key to codes:**

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicmarine

Specimen No.	Laboratory id. (Genus species; common name; length in mm)	Thomson Unicmarine identification	Code / Comments
1	<i>Platichthys flesus</i> ; Flounder; 35	<i>Platichthys flesus</i> ; Flounder; 35	-
2	<i>Gasterosteus aculeatus</i> ; Three spined stickleback; 29	<i>Gasterosteus aculeatus</i> ; Three-spined Stickleback; 29	-
3	<i>Phoxinus phoxinus</i> ; Minnow; 16	<i>Phoxinus phoxinus</i> ; Minnow; 16	-
4	Grey mullet (unidentified problem taxon); 17	<i>Liza ramada</i> ; Thin-lipped Grey Mullet; 17	* Ventral chin pigment pattern; pigment present along the gular.
5	<i>Leuciscus leuciscus</i> ; Dace; 50	<i>Leuciscus leuciscus</i> ; Dace; 50	-
6	<i>Rutilus rutilus</i> ; Roach; 50	<i>Rutilus rutilus</i> ; Roach; 50	-
7	<i>Atherina presbyter</i> ; Sand smelt; 59	<i>Atherina presbyter</i> ; Sand Smelt; 59	-
8	<i>Clupea harengus</i> ; Herring; 69	<i>Clupea harengus</i> ; Herring; 69	-
9	<i>Gobiusculus flavescens</i> ; Two spotted goby; 40	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 40	-
10	<i>Pomatoschistus minutus</i> ; Sand goby; 71	<i>Pomatoschistus minutus</i> ; Sand Goby; 71	-
11	<i>Pollachius virens</i> ; Coalfish; 43	<i>Pollachius virens</i> ; Saithe / Coalfish; 43	-
12	<i>Pomatoschistus minutus</i> ; Sand goby; 29	<i>Pomatoschistus minutus</i> ; Sand Goby; 29	-
13	<i>Pomatoschistus microps</i> ; Common goby, 40	<i>Pomatoschistus pictus</i> ; Painted Goby, 40	TE - Ventral chin pigmentation is dark. Anterior membrane of the pelvic disc is smooth edged. Black spots along the dorsal fin membranes.
14	-	-	No specimen submitted
15	-	-	No specimen submitted

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 16/11/15  
 Specimens Received - 17/11/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2213

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicmarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicmarine Identification	Code / Comments
1	<i>Limanda limanda</i> ; Dab; 70	<i>Limanda limanda</i> ; Dab; 70	-
2	<i>Solea solea</i> ; Dover Sole; 80	<i>Solea solea</i> ; Dover / Common Sole; 80	-
3	<i>Sprattus sprattus</i> ; Sprat; 65	<i>Sprattus sprattus</i> ; Sprat; 65	-
4	<i>Pomatoschistus minutus</i> ; Sandy goby; 70	<i>Pomatoschistus minutus</i> ; Sandy Goby; 70	-
5	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 45	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 45	-
6	<i>Pomatoschistus microps</i> ; Common Goby; 49	<i>Pomatoschistus microps</i> ; Common Goby; 49	-
7	<i>Atherina presbyter</i> ; Sand smelt; 110	<i>Atherina presbyter</i> ; Sand smelt; 110	-
8	<i>Sardina pilchardus</i> ; Pilchard; 85	<i>Sardina pilchardus</i> ; Pilchard; 85	-
9	<i>Trachurus trachurus</i> ; Scad; 72	<i>Trachurus trachurus</i> ; Scad; 72	-
10	<i>Arnoglossus laterna</i> ; Scaldfish; 58	<i>Arnoglossus laterna</i> ; Scaldfish; 58	-
11	<i>Callionymus lyra</i> ; Common dragonet; 75	<i>Callionymus lyra</i> ; Common Dragonet; 75	-
12	<i>Mullus surmuletus</i> ; Red striped mullet; 58	<i>Mullus surmuletus</i> ; Red Striped Mullet; 58	-
13	<i>Gobius paganellus</i> ; Rock Goby; 55	<i>Gobius paganellus</i> ; Rock Goby; 55	-
14	<i>Eutrigla gurnardus</i> ; Grey gurnard; 93	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 93	-
15	<i>Spondyliosoma cantharus</i> ; Black Seabream; 60	<i>Spondyliosoma cantharus</i> ; Black Sea Bream; 60	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 24/11/15  
 Data Received - 26/11/15  
 Specimens Received -25/11/2014  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2214

**Key to codes:**

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Solea solea</i> ; Sole; 103	<i>Solea solea</i> ; Sole; 103	-
2	<i>Pleuronectes platessa</i> ; Plaice; 86	<i>Pleuronectes platessa</i> ; Plaice; 86	-
3	<i>Clupea harengus</i> ; Herring; 115	<i>Clupea harengus</i> ; Herring; 115	-
4	<i>Merlangius merlangus</i> ; Whiting; 135	<i>Merlangius merlangus</i> ; Whiting; 135	-
5	<i>Sprattus sprattus</i> ; Sprat; 53	<i>Sprattus sprattus</i> ; Sprat; 53	-
6	<i>Pomatoschistus microps</i> ; Common goby; 41	<i>Pomatoschistus microps</i> ; Common Goby; 41	-
7	<i>Pomatoschistus minutus</i> ; Sand goby; 58	<i>Pomatoschistus minutus</i> ; Sand Goby; 58	-
8	<i>Atherina presbyter</i> ; Sand smelt; 53	<i>Atherina presbyter</i> ; Sand Smelt; 53	-
9	<i>Leuciscus leuciscus</i> ; Dace; 162	<i>Leuciscus leuciscus</i> ; Dace; 162	-
10	<i>Ammodytes tobianus</i> ; Sandeel; 89	<i>Ammodytes tobianus</i> ; Sandeel; 89	-
11	<i>Sardina pilchardus</i> ; Pilchard; 62	<i>Sardina pilchardus</i> ; Pilchard; 62	-
12	??, ?; 55	<i>Sardina pilchardus</i> ; Pilchard; 55	* - Body form herring-like. Radiating ridges on the gill cover. Last anal rays are elongate.
13	<i>Sprattus sprattus</i> ; Sprat; 122	<i>Sprattus sprattus</i> ; Sprat; 122	-
14	<i>Pomatoschistus minutus</i> ; Sand Goby; 63	<i>Pomatoschistus minutus</i> ; Sand Goby; 63	-
15	<i>Gobius paganellus</i> ; Rock Goby; 70	<i>Gobius paganellus</i> ; Rock Goby; 70	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received -30/11/15  
 Specimens Received - 01/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code -2215

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Pomatoschistus minutus</i> ; Common Goby; 30	<i>Pomatoschistus minutus</i> ; Sand Goby; 30	TD- Incorrect common name
2	<i>Pomatoschistus minutus</i> ; Common Goby; 35	<i>Pomatoschistus minutus</i> ; Sand Goby; 35	TD - Incorrect common name
3	<i>Pomatoschistus minutus</i> ; Common Goby; 32	<i>Pomatoschistus minutus</i> ; Sand Goby; 32	TD - Incorrect common name
4	<i>Pomatoschistus minutus</i> ; Common Goby; 41	<i>Pomatoschistus minutus</i> ; Sand Goby; 41	TD - Incorrect common name
5	<i>Liza ramada</i> or <i>Liza aurata</i> ; Thin lipped Mullet or Golden Grey Mullet; 23	<i>Liza ramada</i> ; Thin-lipped Grey Mullet; 23	TE - Ventral chin pigmentation; along the gular.
6	<i>Atherina presbyter</i> ; Sand Smelt; 52	<i>Atherina presbyter</i> ; Sand Smelt; 52	-
7	-	-	No specimen submitted
8	-	-	No specimen submitted
9	-	-	No specimen submitted
10	-	-	No specimen submitted
11	-	-	No specimen submitted
12	-	-	No specimen submitted
13	-	-	No specimen submitted
14	-	-	No specimen submitted
15	-	-	No specimen submitted

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 02/12/15  
 Specimens Received - 02/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2216

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Lophius piscatorius</i> ; Monkfish; 400	<i>Lophius piscatorius</i> ; Angler / Monkfish; 400	-
2	<i>Lesuerigobius friesii</i> ; Fries gobey; 70	<i>Lesuerigobius friesii</i> ; Fries's Goby; 70	sp - common name
3	<i>Pleuronectes platessa</i> ; Plaice; 155	<i>Pleuronectes platessa</i> ; Plaice; 155	-
4	<i>Micromesistius poutassou</i> ; Blue Whiting; 160	<i>Micromesistius poutassou</i> ; Blue Whiting; 160	-
5	<i>Agonus cataphractus</i> ; Pogge; 98	<i>Agonus cataphractus</i> ; Pogge; 98	-
6	<i>Callionymus lyra</i> ; Common Dragonet; 160	<i>Callionymus lyra</i> ; Common Dragonet; 160	-
7	<i>Sprattus sprattus</i> ; Sprat; 108	<i>Sprattus sprattus</i> ; Sprat; 108	-
8	<i>Trisopterus esmarkii</i> ; Norway Pout; 93	<i>Trisopterus esmarkii</i> ; Norway Pout; 93	-
9	<i>Callionymus maculatus</i> ; Spotted dragonet; 112	<i>Callionymus maculatus</i> ; Spotted dragonet; 112	-
10	<i>Zeugopterus punctatus</i> ; Common topknot; 140	<i>Zeugopterus punctatus</i> ; Common topknot; 140	-
11	<i>Zeus faber</i> ; John Dory; 97	<i>Zeus faber</i> ; John Dory; 97	-
12	<i>Alosa fallax</i> ; Twaite shad; 237	<i>Alosa fallax</i> ; Twaite shad; 237	-
13	<i>Scomber scombrus</i> ; Mackerel; 180	<i>Scomber scombrus</i> ; Mackerel; 180	-
14	<i>Trachurus trachurus</i> ; Scad; 104	<i>Trachurus trachurus</i> ; Scad; 104	-
15	<i>Microstomus kitt</i> ; Lemon sole; 240	<i>Microstomus kitt</i> ; Lemon sole; 240	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 23/11/15  
 Specimens Received -24/11/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2217

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Liparis liparis</i> ; Sea-snail; 51	<i>Liparis liparis</i> ; Common Seasnail; 51	-
2	<i>Pomatoschistus minutus</i> ; Sand goby; 55	<i>Pomatoschistus minutus</i> ; Sand Goby; 55	-
3	-	-	No specimen submitted
4	-	-	No specimen submitted
5	-	-	No specimen submitted
6	-	-	No specimen submitted
7	-	-	No specimen submitted
8	-	-	No specimen submitted
9	-	-	No specimen submitted
10	-	-	No specimen submitted
11	-	-	No specimen submitted
12	-	-	No specimen submitted
13	-	-	No specimen submitted
14	-	-	No specimen submitted
15	-	-	No specimen submitted



**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 09/12/15

Data Received - 10/12/15

Specimens Received - 28/11/2014

Number of Subscribing Laboratories - 24

Laboratory Code - 2218

Key to codes:

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Osmerus eperlanus</i> ; European smelt; 177	<i>Osmerus eperlanus</i> ; Smelt; 177	-
2	<i>Pollachius virens</i> ; Saithe; 168	<i>Pollachius virens</i> ; Saithe; 168	-
3	<i>Agonus cataphractus</i> ; Pogge; 106	<i>Agonus cataphractus</i> ; Pogge; 106	-
4	<i>Ciliata mustela</i> ; 5 Bearded Rockling; 162	<i>Ciliata mustela</i> ; Five-bearded Rockling; 162	-
5	<i>Limanda limanda</i> ; Dab; 33	<i>Limanda limanda</i> ; Dab; 33	-
6	<i>Spinachia spinachia</i> ; 15 spined stickleback; 111	<i>Spinachia spinachia</i> ; 15-spined Stickleback; 111	-
7	<i>Osmerus eperlanus</i> ; European smelt; 175	<i>Osmerus eperlanus</i> ; Smelt; 175	-
8	<i>Merlangius merlangus</i> ; Whiting; 105	<i>Merlangius merlangus</i> ; Whiting; 105	-
9	<i>Gadus morhua</i> ; Cod; 155	<i>Gadus morhua</i> ; Cod; 155	-
10	<i>Platichthys flesus</i> ; Flounder; 53	<i>Platichthys flesus</i> ; Flounder; 53	-
11	<i>Pleuronectes platessa</i> ; Plaice; 51	<i>Pleuronectes platessa</i> ; Plaice; 51	-
12	<i>Pomatoschistus minutus</i> ; Sand goby; 52	<i>Pomatoschistus minutus</i> ; Sand goby; 52	-
13	<i>Osmerus eperlanus</i> ; European smelt; 181	<i>Osmerus eperlanus</i> ; European smelt; 181	-
14	<i>Sprattus sprattus</i> ; Sprat; 120	<i>Sprattus sprattus</i> ; Sprat; 120	-
15	<i>Clupea harengus</i> ; Herring; 80	<i>Clupea harengus</i> ; Herring; 80	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 09/11/15

Specimens Received - 11/11/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2220

**Key to codes:**

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicmarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicmarine Identification	Code / Comments
1	<i>Platichthys flesus</i> ; Flounder; 53	<i>Platichthys flesus</i> ; Flounder; 53	-
2	<i>Osmerus eperlanus</i> ; Smelt; 90	<i>Osmerus eperlanus</i> ; Smelt; 90	-
3	<i>Atherina presbyter</i> ; Sand Smelt; 120	<i>Atherina presbyter</i> ; Sand Smelt; 120	-
4	<i>Echiichthys vipera</i> ; Lesser Weever; 158	<i>Echiichthys vipera</i> ; Lesser Weever; 158	-
5	<i>Pomatoschistus minutus</i> ; Sand Goby; 71	<i>Pomatoschistus minutus</i> ; Sand Goby; 71	-
6	<i>Merlangius merlangus</i> ; Whiting; 94	<i>Merlangius merlangus</i> ; Whiting; 94	-
7	<i>Trisopterus esmarkii</i> ; Pout; 93	<i>Trisopterus luscus</i> ; Bib / Pouting; 93	TD, Common name Norway Pout. TE - Body is deeper. Lower jaw not longer than top jaw. Longer chin barbel. Three dorsal fins bases overlap rather than have a gap between each fin.
8	<i>Solea solea</i> ; Dover Sole; 95	<i>Solea solea</i> ; Dover Sole / Common Sole; 95	-
9	<i>Syngnathus acus</i> ; Greater Pipefish; 156	<i>Syngnathus acus</i> ; Greater Pipefish; 156	-
10	<i>Limanda limanda</i> ; Dab; 89	<i>Limanda limanda</i> ; Dab; 89	-
11	<i>Sprattus sprattus</i> ; Sprat; 105	<i>Sprattus sprattus</i> ; Sprat; 105	-
12	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 36	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 36	-
13	<i>Ammodytes tobianus</i> ; Lesser Sandeel; 94	<i>Ammodytes tobianus</i> ; Lesser Sandeel; 94	-
14	<i>Pleuronectes platessa</i> ; Plaice; 96	<i>Pleuronectes platessa</i> ; Plaice; 96	-
15	<i>Taurulus bubalis</i> ; long spined sea scorpion; 72	<i>Taurulus bubalis</i> ; Long-spined Sea Scorpion; 72	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 07/12/15  
 Specimens Received - 08/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2221

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicmarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicmarine Identification	Code / Comments
1	<i>Clupea harengus</i> ; Herring; 72	<i>Clupea harengus</i> ; Herring; 72	-
2	<i>Limanda limanda</i> ; Dab; 55	<i>Limanda limanda</i> ; Dab; 55	-
3	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 50	<i>Eutrigla gurnardus</i> ; Grey Gurnard; 50	-
4	<i>Trisopterus luscus</i> ; Bib; 140	<i>Trisopterus luscus</i> ; Bib; 140	-
5	<i>Liparis liparis</i> ; Common Seasnail; 35	<i>Liparis liparis</i> ; Common Seasnail; 35	-
6	<i>Raja clavata</i> ; Thornback Ray; 100	<i>Raja clavata</i> ; Thornback Ray; 100	-
7	<i>Gadus morhua</i> ; Cod; 100	<i>Gadus morhua</i> ; Cod; 100	-
8	<i>Pomatoschistus microps</i> ; Common Goby; 50	<i>Pomatoschistus minutus</i> ; Sand Goby; 50	TE - Ventral chin pigment; two rows of horizontal lines. Spot on first dorsal fin. Anterior membrane of the pelvic disc is edged with villi.
9	<i>Pomatoschistus minutus</i> ; Sand Goby; 40	<i>Pomatoschistus minutus</i> ; Sand Goby; 40	-
10	<i>Atherina presbyter</i> ; Sand Smelt; 55	<i>Atherina presbyter</i> ; Sand Smelt; 55	-
11	<i>Platichthys flesus</i> ; Flounder; 45	<i>Platichthys flesus</i> ; Flounder; 45	-
12	<i>Dicentrarchus labrax</i> ; Bass; 140	<i>Dicentrarchus labrax</i> ; Bass; 140	-
13	<i>Merlangius merlangus</i> ; Whiting; 105	<i>Merlangius merlangus</i> ; Whiting; 105	-
14	<i>Sardina pilchardus</i> ; Pilchard; 55	<i>Sardina pilchardus</i> ; Pilchard; 55	-
15	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 105	<i>Syngnathus rostellatus</i> ; Lesser Pipefish; 105	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 02/12/15  
 Specimens Received - 03/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2223

**Key to codes:**

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Pagellus erythrinus</i> ; Common pandora; 170	<i>Pagellus erythrinus</i> ; Common Pandora; 170	-
2	<i>Trachurus trachurus</i> ; Horse mackerel; 200	<i>Trachurus trachurus</i> ; Horse Mackerel; 200	-
3	<i>Boops boops</i> ; Bogue; 210	<i>Boops boops</i> ; Bogue; 210	-
4	<i>Spondyliosoma cantharus</i> ; Black seabream; 179	<i>Spondyliosoma cantharus</i> ; Black Seabream; 179	-
5	<i>Conger conger</i> ; Conger eel; 370	<i>Conger conger</i> ; Conger Eel; 370	-
6	<i>Helicolenus dactylopterus</i> ; Blackbelly rosefish; 180	<i>Helicolenus dactylopterus</i> ; Blackbelly Rosefish; 180	-
7	<i>Pagellus acarne</i> ; Axillary seabream; 206	<i>Pagellus acarne</i> ; Axillary Seabream; 206	-
8	<i>Citharus linguatula</i> ; Spotted flounder; 195	<i>Citharus linguatula</i> ; Spotted Flounder; 195	-
9	<i>Mullus surmuletus</i> ; Striped red mullet; 175	<i>Mullus surmuletus</i> ; Striped Red Mullet; 175	-
10	<i>Merluccius merluccius</i> ; European Hake; 238	<i>Merluccius merluccius</i> ; European Hake; 238	-
11	<i>Mullus barbatus</i> ; Red mullet; 161	<i>Mullus barbatus</i> ; Plain Red Mullet; 161	-
12	<i>Trigloporus lastoviza</i> ; Streaked gurnard; 200	<i>Trigloporus lastoviza</i> ; Streaked Gurnard; 200	-
13	<i>Trigla lyra</i> ; Piper gurnard; 230	<i>Trigla lyra</i> ; Piper Gurnard; 230	-
14	<i>Trisopterus capelanus</i> ; Capelan; 195	<i>Trisopterus capelanus</i> ; Mediterranean Poor Cod; 195	TD - Common name
15	<i>Trachinus draco</i> ; Greater weaver; 280	<i>Trachinus draco</i> ; Greater Weever; 280	sp - Common name

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 09/12/15

Specimens Received - 11/12/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2225

Key to codes:

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine identification	Code / Comments
1	<i>Atherina presbyter</i> ; Sand Smelt; 10.7	<i>Atherina presbyter</i> ; Sand Smelt; 10.7	-
2	<i>Ammodytes tobianus</i> ; Lesser Sandeel; 10.1	<i>Ammodytes tobianus</i> ; Lesser Sandeel; 10.1	-
3	<i>Callionymus maculatus</i> ; Spotted Dragonet; 10.2	<i>Callionymus maculatus</i> ; Spotted Dragonet; 10.2	-
4	<i>Pollachius pollachius</i> ; Pollack; 9.8	<i>Pollachius pollachius</i> ; Pollack; 9.8	-
5	<i>Callionymus lyra</i> ; Common Dragonet; 9.3	<i>Callionymus lyra</i> ; Common Dragonet; 9.3	-
6	<i>Crenilabrus melops</i> ; Corkwing Wrasse; 13.7	<i>Crenilabrus melops</i> ; Corkwing Wrasse; 13.7	-
7	<i>Crenilabrus melops</i> ; Corkwing Wrasse; 13.3	<i>Crenilabrus melops</i> ; Corkwing Wrasse; 13.3	-
8	<i>Lipophrys pholis</i> ; Shanny; 13.6	<i>Lipophrys pholis</i> ; Shanny; 13.6	-
9	<i>Taurulus bubalis</i> ; Long-spined Sea Scorpion; 4.2	<i>Taurulus bubalis</i> ; Long-spined Sea Scorpion; 4.2	-
10	<i>Trisopterus minutus</i> ; Poor Cod; 13.4	<i>Trisopterus minutus</i> ; Poor Cod; 13.4	-
11	<i>Pomatoschistus minutus</i> ; Sand Goby; 7.6, 7.9	<i>Pomatoschistus minutus</i> ; Sand Goby; 7.6, 7.9	-
12	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 4.0,4.8,5.1	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 4.0,4.8,5.1	-
13	<i>Pomatoschistus pictus</i> ; Painted Goby; 4.8,5.4	<i>Pomatoschistus pictus</i> ; Painted Goby; 4.8,5.4	-
14	<i>Pomatoschistus microps</i> ; Common Goby; 4.5,4.6	<i>Pomatoschistus microps</i> ; Common Goby; 4.5,4.6	-
15	<i>Pollachius virens</i> , Saithe,11.4	<i>Pollachius virens</i> , Saithe,11.4	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 07/12/15

Specimens Received - 07/12/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2226

Key to codes:

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Salmo salar</i> ; Atlantic Salmon; 120	<i>Salmo salar</i> ; Atlantic Salmon; 120	-
2	<i>Salmo trutta</i> ; Brown Trout; 110	<i>Salmo trutta</i> ; Brown Trout; 110	-
3	<i>Gadus morhua</i> ; Cod; 95, 102	<i>Gadus morhua</i> ; Cod; 95, 102	-
4	<i>Taurulus bubalis</i> ; Long-spined Sea Scorpion; 80, 86	<i>Taurulus bubalis</i> ; Long-spined Sea Scorpion; 80, 86	-
5	<i>Myoxocephalus scorpius</i> ; Bull Rout; 90	<i>Myoxocephalus scorpius</i> ; Bull Rout; 90	-
6	<i>Lampetra fluviatilis</i> ; River Lamprey; 135, 150	<i>Lampetra fluviatilis</i> ; River Lamprey; 135, 150	-
7	<i>Osmerus eperlanus</i> ; Smelt; 82	<i>Osmerus eperlanus</i> ; Smelt; 82	-
8	<i>Liparis liparis</i> ; Common Seasnail; 40	<i>Liparis liparis</i> ; Common Seasnail; 40	-
9	<i>Pomatoschistus pictus</i> ; Painted Goby; 55	<i>Pomatoschistus pictus</i> ; Painted Goby; 55	-
10	<i>Pollachius pollachius</i> ; Pollack; 111	<i>Pollachius pollachius</i> ; Pollack; 111	-
11	<i>Sprattus sprattus</i> ; Sprat; 72	<i>Sprattus sprattus</i> ; Sprat; 72	-
12	<i>Clupea harengus</i> ; Herring; 89	<i>Clupea harengus</i> ; Herring; 89	-
13	<i>Chelon labrosus</i> ; Thick-lipped Grey Mullet; 71, 80	<i>Chelon labrosus</i> ; Thick-lipped Grey Mullet; 71, 80	-
14	<i>Trachurus trachurus</i> ; Scad; 84	<i>Trachurus trachurus</i> ; Scad; 84	-
15	<i>Syngnathus rostellatus</i> ; Lesser pipefish; 123	<i>Syngnathus rostellatus</i> ; Lesser pipefish; 123	-

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 10/12/15  
 Specimens Received - 10/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2227

**Key to codes:**

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 mx - Mixture of species  
 sy - Synonym  
 \* - Problem taxa indicated  
 TUM - Thomson Unicmarine

Specimen No.	Laboratory id. (Genus species; common name; length in mm)	Thomson Unicmarine Identification	Code / Comments
1	<i>Phoxinus phoxinus</i> ; Minnow; 25	<i>Phoxinus phoxinus</i> ; Minnow; 25	-
2	<i>Barbus barbus</i> ; Barbel; 29	<i>Barbus barbus</i> ; Barbel; 29	-
3	<i>Barbatula barbatula</i> ; Stone loach; 17	<i>Barbatula barbatula</i> ; Stone loach; 17	-
4	<i>Gymnocephalus cernua</i> ; Ruffe; 24	<i>Gymnocephalus cernua</i> ; Ruffe; 24	-
5	<i>Perca fluviatilis</i> ; Perch; 20	<i>Perca fluviatilis</i> ; Perch; 20	-
6	<i>Perca fluviatilis</i> ; Perch; 32	<i>Perca fluviatilis</i> ; Perch; 32	-
7	<i>Pungitius pungitius</i> ; Nine-spined Stickleback; 43	<i>Pungitius pungitius</i> ; Nine-spined Stickleback; 43	-
8	<i>Platichthys flesus</i> ; Flounder; 58	<i>Platichthys flesus</i> ; Flounder; 58	-
9	<i>Alosa fallax</i> ; Twaite Shad; 51	<i>Alosa fallax</i> ; Twaite Shad; 51	TUM - Confirmation by first gill raker count (40 - 60) and coarse structure.
10	<i>Pomatoschistus minutus</i> ; Sand Goby; 63	<i>Pomatoschistus minutus</i> ; Sand Goby; 63	-
11	<i>Ammodytes tobianus</i> ; Lesser Sand Eel; 58	<i>Ammodytes tobianus</i> ; Lesser Sandeel; 58	-
12	<i>Cottus perifretum</i> ; 55	<i>Cottus perifretum</i> ; <i>Cottus perifretum</i> ; 55	TUM - Prickling distribution aligns with identification but DNA analysis would be required to confirm.
13	<i>Taurulus bubalis</i> ; Sea Scorpion; 83	<i>Myoxocephalus scorpius</i> ; Bull Rout; 83	TE - No chin barbel. Longest preopercular spine not significantly longer than eye diameter. Second dorsal fin ray count 14. Anal fin ray count 11. Gill membrane forms a flap under the throat.
14	<i>Cottus perifretum</i> ; 25	<i>Cottus perifretum</i> ; <i>Cottus perifretum</i> ; 25	TUM - Prickling distribution aligns with identification but DNA analysis would be required to confirm.
15	Unidentified; 45	<i>Cottus perifretum</i> ; <i>Cottus perifretum</i> ; 45	TUM - Reduced prickling in males. DNA analysis would be required to confirm.

**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07

Return Deadline - 11/12/2015

Data Received - 09/12/15

Specimens Received -09/12/15

Number of Subscribing Laboratories - 24

Laboratory Code - 2130

**Key to codes:**

TE - Taxonomic error

TD - Taxonomic discrepancy

sp - Spelling error

nc - Name change

mx - Mixture of species

sy - Synonym

\* - Problem taxa indicated

TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Solea solea</i> ; Dover Sole; 72,80,81,82,89,105,130	<i>Solea solea</i> ; Common Sole / Dover Sole; 72,80,81,82,89,105,130	-
2	<i>Platichthys flesus</i> ; European Flounder; 58,67,68,74,78	<i>Platichthys flesus</i> ; Flounder; 58,67,68,74,78	-
3	<i>Osmerus eperlanus</i> ; European Smelt; 95,98,98,141, 146,154,155,159	<i>Osmerus eperlanus</i> ; European Smelt; 95,98,98,141, 146,154,155,159	-
4	<i>Trisopterus luscus</i> ; Pouting; 128	<i>Trisopterus luscus</i> ; Pouting; 128	-
5	<i>Dicentrarchus labrax</i> ; European seabass; 90	<i>Dicentrarchus labrax</i> ; Bass; 90	-
6	<i>Clupea harengus</i> ; Atlantic Herring; 64,84,91,96	<i>Clupea harengus</i> ; Herring; 64,84,91,96	-
7	<i>Leuciscus leuciscus</i> ; Common Dace; 80,90,110	<i>Leuciscus leuciscus</i> ; Dace; 80,90,110	-
8	<i>Gasterosteus aculeatus</i> ; Three-spined stickleback; 35,35,40	<i>Gasterosteus aculeatus</i> ; Three-spined stickleback; 35,35,40	-
9	<i>Chelon labrosus</i> ; Thicklip grey mullet; 25	<i>Chelon labrosus</i> ; Thick-lipped Grey Mullet; 25	-
10	<i>Rutilus rutilus</i> ; Common Roach; 40,50,60	<i>Rutilus rutilus</i> ; Roach; 40,50,60	-
11	<i>Pomatoschistus minutus</i> ; Sand goby; 51,53,54	<i>Pomatoschistus minutus</i> ; Sand Goby; 51,53,54	-
12	<i>Agonus cataphractus</i> ; Pogge; 95	<i>Agonus cataphractus</i> ; Pogge; 95	-
13	<i>Abramis brama</i> ; Common Bream; 80	<i>Abramis brama</i> ; Common Bream; 80	-
14	<i>Perca fluviatilis</i> ; European perch; 60	<i>Perca fluviatilis</i> ; Perch; 60	-
15	-	-	Specimen not submitted



**EXERCISE DETAILS**

Fish Reverse Ring Test - F\_RRT07  
 Return Deadline - 11/12/2015  
 Data Received - 03/11/15  
 Specimens Received - 04/12/15  
 Number of Subscribing Laboratories - 24  
 Laboratory Code - 2231

Key to codes:

TE - Taxonomic error  
 TD - Taxonomic discrepancy  
 sp - Spelling error  
 nc - Name change  
 sy - Synonym  
 mx - Mixture of species  
 \* - Problem taxa indicated  
 TUM - Thomson Unicomarine

Specimen No.	Laboratory Id. (Genus species; common name; length in mm)	Thomson Unicomarine Identification	Code / Comments
1	<i>Osmerus eperlanus</i> ; Smelt; 76	<i>Osmerus eperlanus</i> ; Smelt; 76	-
2	<i>Atherina presbyter</i> ; Sand smelt; 60	<i>Atherina presbyter</i> ; Sand smelt; 60	-
3	<i>Crenilabrus melops</i> ; Corkwing Wrasse; 66	<i>Symphodus melops</i> ; Corkwing Wrasse; 66	sy
4	<i>Dicentrarchus labrax</i> ; Bass; 84	<i>Dicentrarchus labrax</i> ; Bass; 84	-
5	<i>Clupea harengus</i> ; Herring; 65	<i>Clupea harengus</i> ; Herring; 65	-
6	<i>Sprattus sprattus</i> ; Sprat; 50	<i>Sprattus sprattus</i> ; Sprat; 50	-
7	<i>Pleuronectes platessa</i> ; Plaice; 79	<i>Pleuronectes platessa</i> ; Plaice; 79	-
8	Grey mullet sp; 20	<i>Chelon labrosus</i> ; Thick-lipped Grey Mullet; 20	*- Ventral head pigmentation pattern; heaviest pattern in mandibular, ventro-opercular and jugular.
9	<i>Pomatoschistus minutus</i> ; Sand goby; 65	<i>Pomatoschistus minutus</i> ; Sand goby; 65	-
10	<i>Gobiusculus flavescens</i> ; 2 spotted goby; 47	<i>Gobiusculus flavescens</i> ; Two-spotted Goby; 47	-
11	-	-	No specimen submitted
12	-	-	No specimen submitted
13	-	-	No specimen submitted
14	-	-	No specimen submitted
15	-	-	No specimen submitted

## Appendix 1

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