

## APPENDIX 2

## Sampling of fish in ecosystem survey 2014

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Species are divided into **boreal (includes widely distributed, south boreal, boreal and mainly boreal zoogeographic groups)**, **arctic (includes arctic and mainly arctic zoogeographic groups)** and **arctic-boreal**. Black genus name (Genus sp.) means that fish was identified only to the genus level and species of this genus belong to different zoogeographic groups.

Length measurements present samples from bottom and pelagic trawl catches, order of families and species alphabetical.

Family	Latin name/ English name	Norwegian vessels	Russian vessel	Total	Length, cm mean (min-max)
Agonidae	<i>Aspidophoroides olrikii</i> / <b>Arctic alligatorfish</b>				6.7 (5-8)
	No of stations with samples	-	33	33	
	Nos. length measured	-	393	393	
	Nos. aged	-	-	-	
Agonidae	<i>Leptagonus decagonus</i> / <b>Atlantic poacher</b>				11.9 (2-20)
	No of stations with samples	65	73	138	
	Nos. length measured	306	989	1295	
	Nos. aged	-	-	-	
Ammodytidae	<i>Ammodytes marinus</i> / <b>Lesser sandeel</b>				6.0 (3-20)
	No of stations with samples	22	33	55	
	Nos. length measured	156	433	589	
	Nos. aged	-	-	-	
Ammodytidae	<i>Ammodytes sp.</i> / <b>Sandeel</b>				7.7 (7-8)
	No of stations with samples	25	-	25	
	Nos. length measured	257	-	257	
	Nos. aged	-	-	-	
Anarhichadidae	<i>Anarhichas denticulatus</i> / <b>Northern wolffish</b>				69.0 (5-117)
	No of stations with samples	33	13	46	
	Nos. length measured	60	18	78	
	Nos. aged	-	-	-	
Anarhichadidae	<i>Anarhichas lupus</i> / <b>Atlantic wolffish</b>				23.7 (3-115)
	No of stations with samples	52	13	65	
	Nos. length measured	247	30	277	
	Nos. aged	-	-	-	
Anarhichadidae	<i>Anarhichas minor</i> / <b>Spotted wolffish</b>				37.3 (5-114)
	No of stations with samples	46	21	67	
	Nos. length measured	112	24	136	
	Nos. aged	-	-	-	
Argentinidae	<i>Argentina silus</i> / <b>Greater argentine</b>				23.5(9-50)
	No of stations with samples	28	-	28	
	Nos. length measured	459	-	459	
	Nos. aged	-	-	-	
Arhynchobatidae	<i>Bathyraja spinicauda</i> / <b>Spinetail ray</b>				123.8 (80-153)
	No of stations with samples	4	-	4	
	Nos. length measured	5	-	5	
	Nos. aged	-	-	-	
Chimaeridae	<i>Chimaera monstrosa</i> / <b>Rabbit fish</b>				42.3 (20-60)
	No of stations with samples	2	-	2	
	Nos. length measured	4	-	4	
	Nos. aged	-	-	-	
Clupeidae	<i>Clupea harengus harengus</i> / <b>Atlantic herring</b>				6.8 (2-37)
	No of stations with samples	110	28	138	
	Nos. length measured	1940	304	2244	
	Nos. aged	203	37	240	
Clupeidae	<i>Clupea pallasii suworowi</i> / <b>Kanin herring</b>				21.5 (15-27)
	No of stations with samples	-	7	7	
	Nos. length measured	-	38	38	
	Nos. aged	-	32	32	
Cottidae	<i>Arctiellus atlanticus</i> / <b>Atlantic hookear sculpin</b>				7.3 (3-13)
	No of stations with samples	102	72	174	
	Nos. length measured	763	1290	2053	
	Nos. aged	-	-	-	

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Cottidae	<b>Cottidae spp./ Sculpins</b>				4.0
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Cottidae	<b><i>Gymnocephalus tricuspis/ Arctic staghorn sculpin</i></b>				12.5 (6-20)
	No of stations with samples	-	15	15	
	Nos. length measured	-	124	124	
	Nos. aged	-	-	-	
Cottidae	<b><i>Icelus bicornis/ Twohorn sculpin</i></b>				6.3 (4-9)
	No of stations with samples	12	7	19	
	Nos. length measured	61	12	73	
	Nos. aged	-	-	-	
Cottidae	<b><i>Icelus spatula/ Spatulate sculpin</i></b>				8.4 (5-12)
	No of stations with samples	-	16	16	
	Nos. length measured	-	69	69	
	Nos. aged	-	-	-	
Cottidae	<b><i>Myoxocephalus scorpius/ Shorthorn sculpin</i></b>				5.6 (2-27)
	No of stations with samples	10	5	15	
	Nos. length measured	46	17	63	
	Nos. aged	-	-	-	
Cottidae	<b><i>Triglops murrayi/ Moustache sculpin</i></b>				9.5 (4-15)
	No of stations with samples	32	27	59	
	Nos. length measured	223	149	372	
	Nos. aged	-	-	-	
Cottidae	<b><i>Triglops nybelini/ Bigeye sculpin</i></b>				10.5 (5-13)
	No of stations with samples	2	13	15	
	Nos. length measured	11	226	237	
	Nos. aged	-	-	-	
Cottidae	<b><i>Triglops pingelii/ Ribbed sculpin</i></b>				13.0 (2-18)
	No of stations with samples	3	25	28	
	Nos. length measured	6	351	357	
	Nos. aged	-	-	-	
Cottidae	<b><i>Triglops sp./</i></b>				3.5 (3-4)
	No of stations with samples	1	2	3	
	Nos. length measured	1	17	18	
	Nos. aged	-	-	-	
Cyclopteridae	<b><i>Cyclopterus lumpus/ Lump sucker</i></b>				24.9 (2-49)
	No of stations with samples	116	35	141	
	Nos. length measured	415	48	463	
	Nos. aged	-	-	-	
Cyclopteridae	<b><i>Eumicrotremus derjugini/ Leatherfin lump sucker</i></b>				4.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Cyclopteridae	<b><i>Eumicrotremus spinosus/ Atlantic spiny lump sucker</i></b>				5.7 (3-9)
	No of stations with samples	4	1	5	
	Nos. length measured	14	6	20	
	Nos. aged	-	-	-	
Gadidae	<b><i>Arctogadus glacialis/ Arctic cod</i></b>				9.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Gadidae	<b><i>Boreogadus saida/ Polar cod</i></b>				11.5 (2-26.5)
	No of stations with samples	78	112	190	
	Nos. length measured	1276	5909	7185	
	Nos. aged	430	175	605	
Gadidae	<b><i>Eleginus nawaga/ Atlantic navaga</i></b>				17.1 (12-26)
	No of stations with samples	-	7	7	
	Nos. length measured	-	1663	1663	
	Nos. aged	-	225	225	

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Gadidae	<b><i>Enchelyopus cimbrius/ Fourbeard rockling</i></b>				14.5 (2-27)
	No of stations with samples	2	-	2	
	Nos. length measured	2	-	2	
	Nos. aged	-	-	-	
Gadidae	<b><i>Gadiculus argenteus/ Silvery pout</i></b>				11.4 (7-17)
	No of stations with samples	12	7	19	
	Nos. length measured	105	50	155	
	Nos. aged	-	-	-	
Gadidae	<b><i>Gaidropsarus argentatus/ Arctic threebearded rockling</i></b>				26.3 (10-36)
	No of stations with samples	6	-	6	
	Nos. length measured	23	-	23	
	Nos. aged	-	-	-	
Gadidae	<b><i>Gadus morhua/ Atlantic cod</i></b>				7.5 (1-132)
	No of stations with samples	333	238	571	
	Nos. length measured	11701	9833	21534	
	Nos. aged	1017	1211	2228	
Gadidae	<b><i>Melanogrammus aeglefinus/ Haddock</i></b>				18.2 (3-72)
	No of stations with samples	217	94	311	
	Nos. length measured	4547	5089	9636	
	Nos. aged	307	473	780	
Gadidae	<b><i>Merlangius merlangus/ Whiting</i></b>				11.3 (4-53)
	No of stations with samples	4	-	4	
	Nos. length measured	9	-	9	
	Nos. aged	-	-	-	
Gadidae	<b><i>Micromesistius poutassou/ Blue whiting</i></b>				22.3 (15-40)
	No of stations with samples	57	-	57	
	Nos. length measured	1822	-	1822	
	Nos. aged	230	-	230	
Gadidae	<b><i>Molva molva/ Ling</i></b>				111.0 (111)
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Gadidae	<b><i>Phycis blennoides/ Greater forkbeard</i></b>				28.1 (20-52)
	No of stations with samples	2	-	2	
	Nos. length measured	18	-	18	
	Nos. aged	-	-	-	
Gadidae	<b><i>Pollachius virens/ Saithe</i></b>				56.7 (5-90)
	No of stations with samples	16	-	16	
	Nos. length measured	67	-	67	
	Nos. aged	-	-	-	
Gadidae	<b><i>Trisopterus esmarkii/ Norway pout</i></b>				16.2 (1-23)
	No of stations with samples	33	10	43	
	Nos. length measured	772	265	1037	
	Nos. aged	-	21	21	
Gasterosteidae	<b><i>Gasterosteus aculeatus/ Threespine stickleback</i></b>				6.6 (5-8)
	No of stations with samples	3	13	16	
	Nos. length measured	3	144	147	
	Nos. aged	-	-	-	
Liparidae	<b><i>Careproctus sp./ Snailfish</i></b>				9.8 (4-19)
	No of stations with samples	13	-	13	
	Nos. length measured	26	-	26	
	Nos. aged	-	-	-	
Liparidae	<b><i>Careproctus micropus/</i></b>				7.3 (7-8)
	No of stations with samples	-	3	3	
	Nos. length measured	-	4	4	
	Nos. aged	-	-	-	
Liparidae	<b><i>Careproctus ranula/ Scotian snailfish</i></b>				8.1 (6-10)
	No of stations with samples	-	7	7	
	Nos. length measured	-	9	9	
	Nos. aged	-	-	-	
Liparidae	<b><i>Careproctus cf. reinhardtii/ Sea tadpole</i></b>				9.8 (6-22)
	No of stations with samples	9	24	33	

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	Nos. length measured	27	51	78	
	Nos. aged	-	-	-	
Liparidae	<i>Liparis bathyartcticus/ Variegated snailfish</i>				10.5 (1-23)
	No of stations with samples	1	15	16	
	Nos. length measured	7	45	52	
	Nos. aged	-	-	-	
Liparidae	<i>Liparis fabricii/ Gelatinous snailfish</i>				5.3 (1-18)
	No of stations with samples	13	9	22	
	Nos. length measured	112	115	227	
	Nos. aged	-	-	-	
Liparidae	<i>Liparis sp./ Sea snail</i>				2.0
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Liparidae	<i>Paraliparis bathybius/ Black seasnail</i>				20.3 (15-26)
	No of stations with samples	4	-	4	
	Nos. length measured	13	-	13	
	Nos. aged	-	-	-	
Liparidae	<i>Rhodichthys regina/ Threadfin seasnail</i>				9.0
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Lotidae	<i>Brosme brosme/ Cusk</i>				39.7 (4-68)
	No of stations with samples	18	1	19	
	Nos. length measured	40	2	42	
	Nos. aged	-	-	-	
Macrouridae	<i>Macrourus berglax/ Rough rat-tail</i>				13.3 (6-27)
	No of stations with samples	4	-	4	
	Nos. length measured	15	-	15	
	Nos. aged	-	-	-	
Myctophidae	<i>Benthoosema glaciale / Glacier lanternfish</i>				4.2 (2-7)
	No of stations with samples	22	2	24	
	Nos. length measured	163	3	166	
	Nos. aged	-	-	-	
Myctophidae	<i>Notoscopelus sp./</i>				7.0 (6-8)
	No of stations with samples	2	-	2	
	Nos. length measured	2	-	2	
	Nos. aged	-	-	-	
Osmeridae	<i>Mallotus villosus/ Capelin</i>				11.4 (2-19)
	No of stations with samples	226	214	440	
	Nos. length measured	10921	17694	28615	
	Nos. aged	2408	1050	2458	
Osmeridae	<i>Osmerus mordax dentex/ Rainbow smelt</i>				16.8 (9-23)
	No of stations with samples	-	4	4	
	Nos. length measured	-	49	49	
	Nos. aged	-	-	-	
Paralepididae	<i>Arctozenus risso/ White barracudina</i>				19.0 (19)
	No of stations with samples	14	1	15	
	Nos. length measured	31	1	32	
	Nos. aged	-	-	-	
Petromyzontidae	<i>Lethenteron camtschaticum/ Arctic lamprey</i>				36.8 (34-41)
	No of stations with samples	2	2	4	
	Nos. length measured	2	2	4	
	Nos. aged	-	-	-	
Pleuronectidae	<i>Glyptocephalus cynoglossus/ Witch flounder</i>				3.5 (3-5)
	No of stations with samples	2	-	2	
	Nos. length measured	11	-	11	
	Nos. aged	-	-	-	
Pleuronectidae	<i>Hippoglossoides platessoides/ Long rough dab</i>				19.4 (1-55)
	No of stations with samples	180	178	358	
	Nos. length measured	3619	16146	19765	
	Nos. aged	-	225	225	
Pleuronectidae	<i>Limanda limanda/ Dab</i>				23.4 (11-39)
	No of stations with samples	-	9	9	
	Nos. length measured	-	197	197	

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	Nos. aged	-	-	-	
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Pleuronectidae	<i>Liopsetta glacialis/ Arctic flounder</i>				16.0 (16)
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Pleuronectidae	<i>Microstomus kitt/ Lemon sole</i>				36.8 (20-49)
	No of stations with samples	5	-	5	
	Nos. length measured	25	-	25	
	Nos. aged	-	-	-	
Pleuronectidae	<i>Pleuronectes platessa/ European plaice</i>				39.4 (23-60)
	No of stations with samples	1	21	22	
	Nos. length measured	6	465	471	
	Nos. aged	-	25	25	
Pleuronectidae	<b>Pleuronectidae spp./ Righteyed flounders</b>				4.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Pleuronectidae	<i>Reinhardtius hippoglossoides/ Greenland halibut</i>				38.9 (4-88)
	No of stations with samples	91	29	120	
	Nos. length measured	491	63	554	
	Nos. aged	157	62	219	
Psychrolutidae	<i>Cottunculus microps/ Polar sculpin</i>				9.6 (3-21)
	No of stations with samples	19	9	28	
	Nos. length measured	44	12	56	
	Nos. aged	-	-	-	
Rajidae	<i>Amblyraja hyperborea/ Arctic skate</i>				46.1 (14-78)
	No of stations with samples	2	17	19	
	Nos. length measured	44	20	64	
	Nos. aged	-	-	-	
Rajidae	<i>Amblyraja radiata/ Thorny skate</i>				39.4 (9-63)
	No of stations with samples	56	55	111	
	Nos. length measured	135	226	361	
	Nos. aged	-	3	3	
Rajidae	<i>Rajella fyllae/ Round ray</i>				24.6 (9-50)
	No of stations with samples	12	-	12	
	Nos. length measured	24	-	24	
	Nos. aged	-	-	-	
Salmonidae	<i>Salmo salar/ Atlantic salmon</i>				18.2 (17-20)
	No of stations with samples	-	2	2	
	Nos. length measured	-	5	5	
	Nos. aged	-	5	5	
Scombridae	<i>Scomber scombrus/ Atlantic mackerel</i>				11.7 (1-39)
	No of stations with samples	13	-	13	
	Nos. length measured	117	-	117	
	Nos. aged	2	-	2	
Scophthalmidae	<i>Lepidorhombus whiffiagonis/ Megrim</i>				
	No of stations with samples	2	-	2	44.3 (34-60)
	Nos. length measured	3	-	3	
	Nos. aged	-	-	-	
Sebastidae	<i>Sebastes norvegicus/ Golden redfish</i>				24.4 (5-61)
	No of stations with samples	29	21	50	
	Nos. length measured	148	328	476	
	Nos. aged	132	-	132	
Sebastidae	<i>Sebastes mentella/ Deepwater redfish</i>				22.7 (4-47)
	No of stations with samples	114	54	168	
	Nos. length measured	4167	569	4736	
	Nos. aged	350	68	418	
Sebastidae	<i>Sebastes sp./ Redfish</i>				4.5 (1-18)
	No of stations with samples	118	-	118	
	Nos. length measured	2540	-	2540	
	Nos. aged	-	-	-	
Sebastidae	<i>Sebastes viviparus / Norway redfish</i>				15.9 (5-36)
	No of stations with samples	19	-	19	
	Nos. length measured	316	-	316	

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	Nos. aged	-	-	-	
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Squalidae	<i>Somniosus microcephalus/ Greenland shark</i>				295.0 (295)
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Sternoptychidae	<i>Maurolicus muelleri/ Pearlside</i>				3.3 (3-4)
	No of stations with samples	20	2	22	
	Nos. length measured	97	3	100	
	Nos. aged	-	-	-	
Stichaeidae	<i>Anisarchus medius/ Stout eelblenny</i>				13.7 (5-17)
	No of stations with samples	3	13	16	
	Nos. length measured	11	48	59	
	Nos. aged	-	-	-	
Stichaeidae	<i>Lumpenus fabricii/ Slender eelblenny</i>				20.4 (16-28)
	No of stations with samples	-	7	7	
	Nos. length measured	-	93	93	
	Nos. aged	-	-	-	
Stichaeidae	<i>Leptoclinus sp., Lumpenus sp./</i>				4.6 (3-6)
	No of stations with samples	-	41	41	
	Nos. length measured	-	385	385	
	Nos. aged	-	-	-	
Stichaeidae	<i>Leptoclinus maculates/ Daubed shanny</i>				9.3 (1-18)
	No of stations with samples	101	88	189	
	Nos. length measured	1108	450	1558	
	Nos. aged	-	-	-	
Stichaeidae	<i>Lumpenus lamprettaeformis/Snake blenny</i>				15.2 (3-38)
	No of stations with samples	52	40	92	
	Nos. length measured	345	215	560	
	Nos. aged	-	-	-	
Triglidae	<i>Eutrigla gurnardus/ Grey gurnard</i>				39.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Zoarcidae	<i>Gymnelus retrodorsalis/ Aurora unernak</i>				10.9 (7-13)
	No of stations with samples	5	4	9	
	Nos. length measured	11	4	15	
	Nos. aged	-	-	-	
Zoarcidae	<i>Gymnelus viridis/ Fish doctor</i>				15.0
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Zoarcidae	<i>Lycenchelys kolthoffi/ Checkered wolf eel</i>				14.4 (13-16)
	No of stations with samples	1	1	2	
	Nos. length measured	4	1	5	
	Nos. aged	-	-	-	
Zoarcidae	<i>Lycenchelys muraena/ Moray wolf eel</i>				14.6 (11-17)
	No of stations with samples	5	-	5	
	Nos. length measured	11	-	11	
	Nos. aged	-	-	-	
Zoarcidae	<i>Lycenchelys sarsii/ Sars' wolf eel</i>				11.0
	No of stations with samples	1	-	1	
	Nos. length measured	2	-	2	
	Nos. aged	-	-	-	
Zoarcidae	<i>Lycodes esmarkii/ Esmark's eelpout</i>				22.3 (8-59)
	No of stations with samples	13	-	13	
	Nos. length measured	72	-	72	
	Nos. aged	-	-	-	
Zoarcidae	<i>Lycodes eudipleurostictus/ Doubleline eelpout</i>				25.4 (14-35)
	No of stations with samples	12	-	12	
	Nos. length measured	119	-	119	
	Nos. aged	-	-	-	
Zoarcidae	<i>Lycodes gracilis/ Vahl's eelpout</i>				18.2 (7-64)
	No of stations with samples	46	19	65	
	Nos. length measured	264	156	420	
	Nos. aged	-	-	-	



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Zoarcidae	<b><i>Lycodes luetkenii/ Lutken's eelpout</i></b>				14.4 (11-18)
	No of stations with samples	2	-	2	
	Nos. length measured	5	-	5	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodes paamiuti/ Paamiut eelpout</i></b>				12.2 (9-22)
	No of stations with samples	4	-	4	
	Nos. length measured	35	-	35	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodes pallidus/ Pale eelpout</i></b>				14.3 (8-27)
	No of stations with samples	13	21	34	
	Nos. length measured	74	292	366	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodes polaris/ Canadian eelpout</i></b>				16.7 (11-25)
	No of stations with samples	-	9	9	
	Nos. length measured	-	32	32	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodes reticulatus/ Arctic eelpout</i></b>				18.9 (8-43)
	No of stations with samples	5	15	20	
	Nos. length measured	24	44	68	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodes rossi/ Threespot eelpout</i></b>				14.2 (6-22)
	No of stations with samples	15	16	31	
	Nos. length measured	36	41	77	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodes seminudus/ Halfnaked eelpout</i></b>				21.2 (10-45)
	No of stations with samples	2	10	12	
	Nos. length measured	3	35	38	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodes squamiventer/ Scalebelly eelpout</i></b>				16.3 (9-23)
	No of stations with samples	3	-	3	
	Nos. length measured	49	-	49	
	Nos. aged	-	-	-	
Zoarcidae	<b><i>Lycodonus flagellicauda/ Clue tail eelspout</i></b>				18.9 (14-22)
	No of stations with samples	5	-	5	
	Nos. length measured	48	-	48	
	Nos. aged	-	-	-	