

APPENDIX 2

Sampling of fish in ecosystem survey 2012

Species are divided into **boreal**, **arctic** and **arctic-boreal**.

Length measurements present samples from bottom and pelagic trawl catches

Family	Latin name/ English name	Norwegian vessels	Russian vessels	Total	Length, cm mean (min-max)
Agonidae	Leptagonus decagonus/ Atlantic poacher				12 (2-22)
	No of stations with samples	144	122	266	
	Nos. length measured	921	1511	2433	
	Nos. aged	-	44	44	
Agonidae	Ulcina olrikii/ Arctic alligatorfish				6.5 (3-9)
	No of stations with samples	-	40	40	
	Nos. length measured	-	218	218	
	Nos. aged	-	-	-	
Ammodytidae	Ammodytes marinus/ Lesser sandeel				5.8 (2-22)
	No of stations with samples	54	45	99	
	Nos. length measured	224	927	1151	
	Nos. aged	-	-	-	
Anarhichadidae	Anarhichas sp./ Wolffish				7.7 (5-10.5)
	No of stations with samples	1	8	9	
	Nos. length measured	1	10	11	
	Nos. aged	-	-	-	
Anarhichadidae	Anarhichas denticulatus/ Northern wolffish				67.7 (7-135)
	No of stations with samples	49	13	62	
	Nos. length measured	74	18	84	
	Nos. aged	-	-	-	
Anarhichadidae	Anarhichas lupus/ Atlantic wolffish				23.5 (5-118)
	No of stations with samples	68	20	88	
	Nos. length measured	273	48	321	
	Nos. aged	-	1	1	
Anarhichadidae	Anarhichas minor/ Spotted wolffish				65.8 (4-121)
	No of stations with samples	51	28	79	
	Nos. length measured	91	51	142	
	Nos. aged	-	1	-	
Argentinidae	Argentina silus/ Greater argentine				22.8 (8-51)
	No of stations with samples	14	1	15	
	Nos. length measured	546	1	547	
	Nos. aged	-	-	-	
Clupeidae	Clupea harengus harengus/ Atlantic herring				6.7 (3-29.5)
	No of stations with samples	92	27	119	
	Nos. length measured	4123	870	4993	
	Nos. aged	272	51	323	
Clupeidae	Clupea harengus suworowi/ Kanin herring				17.3 (4.5-27.5)
	No of stations with samples	-	22	22	
	Nos. length measured	-	2220	2220	
	Nos. aged	-	250	250	
Clupeidae	Clupea harengus/Herring				5.3 (4-7)
	No of stations with samples	-	14	14	
	Nos. length measured	-	111	111	
	Nos. aged	-	-	-	
Cottidae	Artediellus atlanticus/ Atlantic hookear sculpin				7.6 (1-18)
	No of stations with samples	179	142	321	
	Nos. length measured	1924	3485	5409	
	Nos. aged	-	16	16	
Cottidae	Cottidae g.sp./ Bullheads and Sculpins				3.7 (3.5-3.5)
	No of stations with samples	1	22	23	
	Nos. length measured	1	64	65	
	Nos. aged	-	-	-	
Cottidae	Gymnocanthus tricuspis/ Arctic staghorn sculpin				13.3 (5-20)
	No of stations with samples	11	20	31	
	Nos. length measured	107	109	316	
	Nos. aged	-	24	24	
Cottidae	Icelus bicornis/ Twohorn sculpin				6.6 (3-12)
	No of stations with samples	15	-	15	
	Nos. length measured	62	-	62	
	Nos. aged	-	-	-	
Cottidae	Icelus spatula/ Spatulate sculpin				6.4 (3-13)
	No of stations with samples	3	51	54	
	Nos. length measured	5	376	381	

	Nos. aged	-	-	-	
Cottidae	Myoxocephalus scorpius/ Shorthorn sculpin				6.2 (2.5-19)
	No of stations with samples	47	11	58	
	Nos. length measured	441	113	554	
	Nos. aged	-	30	30	
Cottidae	Triglops murrayi/ Moustache sculpin				8.6 (3-17)
	No of stations with samples	55	28	83	
	Nos. length measured	391	124	515	
	Nos. aged	-	13	13	
Cottidae	Triglops nybelini/ Bigeye sculpin				8.7 (3.5-14)
	No of stations with samples	44	63	107	
	Nos. length measured	780	2238	3018	
	Nos. aged	-	56	56	
Cottidae	Triglops pingelii/ Ribbed sculpin				11.3 (3-19)
	No of stations with samples	32	15	47	
	Nos. length measured	382	126	508	
	Nos. aged	-	1	1	
Cottidae	Triglops sp./				3.7 (2-7)
	No of stations with samples	12	-	12	
	Nos. length measured	46	-	46	
	Nos. aged	-	-	-	
Cyclopteridae	Cyclopterus lumpus/ Lump sucker				23.6 (3-48)
	No of stations with samples	128	63	191	
	Nos. length measured	466	114	580	
	Nos. aged	-	-	-	
Cyclopteridae	Eumicrotremus derjugini/ Leatherfin lump sucker				6 (4-9)
	No of stations with samples	3	4	7	
	Nos. length measured	3	15	18	
	Nos. aged	-	-	-	
Cyclopteridae	Eumicrotremus spinosus/ Atlantic spiny lump sucker				6.7 (3-12)
	No of stations with samples	23	2	25	
	Nos. length measured	49	30	79	
	Nos. aged	-	-	-	
Gadidae	Arctogadus glacialis/ Arctic cod				15.2 (9-32)
	No of stations with samples	6	8	14	
	Nos. length measured	27	10	37	
	Nos. aged	-	9	9	
Gadidae	Boreogadus saida/ Polar cod				9.6 (2.5-27)
	No of stations with samples	186	163	349	
	Nos. length measured	7305	8181	15486	
	Nos. aged	1466	226	1692	
Gadidae	Eleginus nawaga/ Atlantic navaga				15.3 (5.5-27)
	No of stations with samples	-	15	15	
	Nos. length measured	-	2293	2293	
	Nos. aged	-	107	107	
Gadidae	Enchelyopus cimbrius/ Fourbeard rockling				18.4 (2-32)
	No of stations with samples	4	4	8	
	Nos. length measured	6	4	10	
	Nos. aged	-	1	1	
Gadidae	Gadiculus argenteus/ Silvery pout				12.5 (8-18)
	No of stations with samples	12	1	13	
	Nos. length measured	59	-	59	
	Nos. aged	-	-	-	
Gadidae	Gaidropsarus argentatus/ Arctic threebearded rockling				26.6 (12-37)
	No of stations with samples	11	3	14	
	Nos. length measured	29	3	32	
	Nos. aged	-	1	-	
Gadidae	Gaidropsarus vulgaris/ Three-bearded rockling				16 (16-16)
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Gadidae	Gadus morhua/ Atlantic cod				9.3 (2.5-130)
	No of stations with samples	403	291	694	
	Nos. length measured	20241	23460	43701	
	Nos. aged	1401	1782	3183	
Gadidae	Melanogrammus aeglefinus/ Haddock				28.8 (1-86)
	No of stations with samples	272	145	417	
	Nos. length measured	6093	7130	13223	
	Nos. aged	485	527	1012	
Gadidae	Merlangius merlangus/ Whiting				10.7 (7-43)
	No of stations with samples	8	-	8	

	Nos. length measured	18	-	18	
	Nos. aged	-	-	-	
Gadidae	Micromesistius poutassou/ Blue whiting				21.6 (15-40)
	No of stations with samples	86	1	87	
	Nos. length measured	4103	1	4104	
	Nos. aged	475	1	476	
Gadidae	Molva molva/ Ling				69.8 (62-78)
	No of stations with samples	3	-	3	
	Nos. length measured	5	-	5	
	Nos. aged	-	-	-	
Gadidae	Pollachius pollachius/ Pollack				10 (10-10)
	No of stations with samples	1			
	Nos. length measured	1			
	Nos. aged	-			
Gadidae	Pollachius virens/ Saithe				16.2 (4-93)
	No of stations with samples	37	33	70	
	Nos. length measured	154	145	299	
	Nos. aged	-	5	5	
Gadidae	Trisopterus esmarkii/ Norway pout				17 (4-23)
	No of stations with samples	80	26	106	
	Nos. length measured	2261	427	2688	
	Nos. aged	-	10	10	
Gadidae	Phycis blennoides/ Greater forkbeard				33.7 (33-34)
	No of stations with samples	2			
	Nos. length measured	2			
	Nos. aged	-			
Gasterosteidae	Gasterosteus aculeatus/ Three-spined stickleback				6.1 (4-8)
	No of stations with samples	7	23	30	
	Nos. length measured	132	332	464	
	Nos. aged	-	-	-	
Liparidae	Careproctus sp./ Snailfish				7.5 (1.5-21)
	No of stations with samples	64	-	64	
	Nos. length measured	134	-	134	
	Nos. aged	-	-	-	
Liparidae	Careproctus micropus/				7.6 (6-11)
	No of stations with samples	-	11	11	
	Nos. length measured	-	18	18	
	Nos. aged	-	-	-	
Liparidae	Careproctus ranula/ Scotian snailfish				8.4 (6-10)
	No of stations with samples	-	1	1	
	Nos. length measured	-	5	5	
	Nos. aged	-	-	-	
Liparidae	Careproctus reinhardti/ Sea tadpole				11.4 (5-24)
	No of stations with samples	-	74	74	
	Nos. length measured	-	237	237	
	Nos. aged	-	26	26	
Liparidae	Liparis fabricii/ Gelatinous snailfish				7.1 (1.5-29)
	No of stations with samples	70	51	121	
	Nos. length measured	1180	798	1978	
	Nos. aged	-	20	20	
Liparidae	Liparis gibbus/ Variegated snailfish				4.4 (1.5-20)
	No of stations with samples	25	18	43	
	Nos. length measured	186	46	232	
	Nos. aged	-	8	8	
Liparidae	Liparis liparis/ Striped seasnail				3.7 (3.5-3.5)
	No of stations with samples	1			
	Nos. length measured	1			
	Nos. aged	-			
Liparidae	Liparis sp./ Sea snail				3.8 (2-21)
	No of stations with samples	5	2	7	
	Nos. length measured	60	10	70	
	Nos. aged	-	-	-	
Liparidae	Liparis tunicatus/ Kelp snailfish				13.7 (12-14)
	No of stations with samples	-	2	2	
	Nos. length measured	-	2	2	
	Nos. aged	-	-	-	
Liparidae	Paraliparis bathybius/ Black seasnail				19.6 (3-25)
	No of stations with samples	10			
	Nos. length measured	40			
	Nos. aged	-			
Liparidae	Rhodichthys regina/ Threadfin seasnail				14.8 (6-26)
	No of stations with samples	1	2	3	
	Nos. length measured	9	2	11	
	Nos. aged	-	-	-	

Lophiidae	Lophius piscatorius/ Anglerfish				93 (93-93)
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Lotidae	Brosme brosme/ Cusk				28.5 (2.5-64)
	No of stations with samples	25	2	27	
	Nos. length measured	76	3	79	
	Nos. aged	-	-	-	
Macrouridae	Macrourus berglax/ Roughhead grenadier				35.2 (34-36)
	No of stations with samples	7	1	8	
	Nos. length measured	10	2	12	
	Nos. aged	-	-	-	
Myctophidae	Benthoosema glaciale / Glacier lanternfish				5.1 (2.5-8)
	No of stations with samples	17	16	33	
	Nos. length measured	134	29	163	
	Nos. aged	-	-	-	
Myctophidae	Lampanyctus sp./				17 (17-17)
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Myctophidae	Notoscopelus sp./				5.7 (2.5-7)
	No of stations with samples	9	-	9	
	Nos. length measured	36	-	36	
	Nos. aged	-	-	-	
Osmeridae	Mallotus villosus/ Capelin				8 (1-20)
	No of stations with samples	296	244	540	
	Nos. length measured	20053	14170	34223	
	Nos. aged	3310	954	4264	
Osmeridae	Osmerus eperlanus/ Smelt				16.8 (11.5-26)
	No of stations with samples	-	12	12	
	Nos. length measured	-	584	584	
	Nos. aged	-	100	100	
Paralepididae	Arctozenus risso/ White barracudina				24.2 (6-29)
	No of stations with samples	43	4	47	
	Nos. length measured	87	4	91	
	Nos. aged	-	-	-	
Petromyzontidae	Petromyzon marinus/ Sea lamprey				36 (36-36)
	No of stations with samples	1			
	Nos. length measured	1			
	Nos. aged	-			
Petromyzontidae	Lethenteron camtschaticum/ Arctic lamprey				27.5 (23-33)
	No of stations with samples	-	3	3	
	Nos. length measured	-	3	3	
	Nos. aged	-	-	-	
Pleuronectidae	Glyptocephalus cynoglossus/ Witch flounder				47.2 (44-50)
	No of stations with samples	2	-	2	
	Nos. length measured	2	-	2	
	Nos. aged	-	-	-	
Pleuronectidae	Hippoglossoides platessoides/ Long rough dab				18.9 (2-54)
	No of stations with samples	243	214	457	
	Nos. length measured	5686	15810	21496	
	Nos. aged	6	103	109	
Pleuronectidae	Limanda limanda/ Dab				12.4 (5-25)
	No of stations with samples	-	12	12	
	Nos. length measured	-	172	172	
	Nos. aged	-	85	85	
Pleuronectidae	Microstomus kitt/ Lemon sole				27.9 (14-42)
	No of stations with samples	6	-	6	
	Nos. length measured	43	-	43	
	Nos. aged	-	-	-	
Pleuronectidae	Phrynorhombus norvegicus/ Norwegian topknot				8 (8-8)
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Pleuronectidae	Pleuronectes glacialis/ Arctic flounder				14.5 (10-28)
	No of stations with samples	-	11	11	
	Nos. length measured	-	603	603	
	Nos. aged	-	100	100	
Pleuronectidae	Pleuronectes platessa/ European plaice				29.2 (14-54)
	No of stations with samples	1	23	24	
	Nos. length measured	2	248	250	
	Nos. aged	-	89	89	
Pleuronectidae	Reinhardtius hippoglossoides/ Greenland halibut				27.3 (4.5-87)

	No of stations with samples	168	77	245	
	Nos. length measured	1166	1579	2745	
	Nos. aged	322	707	1029	
Psychrolutidae	Cottunculus microps/ Polar sculpin				12.7 (3-28)
	No of stations with samples	22	34	56	
	Nos. length measured	26	254	280	
	Nos. aged	-	7	-	
Psychrolutidae	Cottunculus sadko/ Sadko sculpin				13.8 (4-23)
	No of stations with samples	-	22	22	
	Nos. length measured	-	289	289	
	Nos. aged	-	4	4	
Rajidae	Amblyraja hyperborea/ Arctic skate				38.3 (14-99)
	No of stations with samples	20	36	56	
	Nos. length measured	152	76	228	
	Nos. aged	-	-	-	
Rajidae	Amblyraja radiata/ Thorny skate				32.6 (8-64)
	No of stations with samples	99	77	176	
	Nos. length measured	198	665	863	
	Nos. aged	-	-	-	
Rajidae	Bathyraja spinicauda/ Spinetail ray				132.4 (93-158)
	No of stations with samples	5	-	5	
	Nos. length measured	6	-	6	
	Nos. aged	-	-	-	
Rajidae	Rajella fyllae/ Round ray				28.8 (10-52)
	No of stations with samples	15	1	16	
	Nos. length measured	19	1	20	
	Nos. aged	-	-	-	
Salmonidae	Salmo salar/ Atlantic salmon				31.8 (27-35)
	No of stations with samples	2	1	3	
	Nos. length measured	10	4	14	
	Nos. aged	-	4	4	
Scombridae	Scomber scombrus/ Mackerel				27.5 (23-43)
	No of stations with samples	7	-	7	
	Nos. length measured	103	-	103	
	Nos. aged	-	-	-	
Scorpaenidae	Sebastes norvegicus/ Golden redfish				20.8 (5-64)
	No of stations with samples	39	30	69	
	Nos. length measured	146	168	314	
	Nos. aged	108	-	108	
Scorpaenidae	Sebastes mentella/ Deepwater redfish				15.8 (1-44)
	No of stations with samples	165	84	249	
	Nos. length measured	7942	1472	9414	
	Nos. aged	489	104	593	
Scorpaenidae	Sebastes sp./ Redfish				4.3 (1-20)
	No of stations with samples	142	2	144	
	Nos. length measured	4679	2	4681	
	Nos. aged	-	-	-	
Scorpaenidae	Sebastes viviparus / Norway redfish				19.3 (4-32)
	No of stations with samples	20	-	20	
	Nos. length measured	490	-	490	
	Nos. aged	-	-	-	
Squalidae	Somniosus microcephalus/ Greenland shark				319.5 (278-380)
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Sternoptychidae	Maurolicus muelleri/ Pearlside				3.4 (3-5)
	No of stations with samples	14	-	14	
	Nos. length measured	183	-	183	
	Nos. aged	-	-	-	
Stichaeidae	Anisarchus medius/ Stout eelblenny				6 (4-22)
	No of stations with samples	23	10	33	
	Nos. length measured	307	58	365	
	Nos. aged	-	-	-	
Stichaeidae	Lumpenus fabricii/ Slender eelblenny				21.4 (12-29)
	No of stations with samples	-	13	13	
	Nos. length measured	-	174	174	
	Nos. aged	-	25	25	
Stichaeidae	Leptoclinus sp., Lumpenus sp./				5.6 (4.5-7)
	No of stations with samples	1	-	1	
	Nos. length measured	30	-	30	
	Nos. aged	-	-	-	
Stichaeidae	Leptoclinus maculates/ Daubed shanny				6.7 (1-32)
	No of stations with samples	155	167	322	
	Nos. length measured	1875	1228	3103	
	Nos. aged	-	-	-	

Stichaeidae	Lumpenus lampretaeformis/ Snake blenny				15.9 (4-35)
	No of stations with samples	94	53	147	
	Nos. length measured	897	352	1249	
	Nos. aged	-	-	-	
Triglidae	Eutrigla gurnardus/ Grey gurnard				36.5 (34-38)
	No of stations with samples	3	-	3	
	Nos. length measured	3	-	3	
	Nos. aged	-	-	-	
Zoarcidae	Gymnelus retrodorsalis/ Aurora unernak				12.2 (9-19)
	No of stations with samples	5	13	18	
	Nos. length measured	6	19	25	
	Nos. aged	-	-	-	
Zoarcidae	Gymnelus sp./				11 (11-11)
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Zoarcidae	Gymnelus viridis/ Fish doctor				12.5 (11-13)
	No of stations with samples	-	3	3	
	Nos. length measured	-	3	3	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes adolfi/ Adolf's eelpout				12.3 (5-25)
	No of stations with samples	4	-	4	
	Nos. length measured	31	-	31	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes esmarkii/ Esmark's eelpout				25.6 (6-60)
	No of stations with samples	25	6	31	
	Nos. length measured	99	22	121	
	Nos. aged	-	9	9	
Zoarcidae	Lycodes eudipleurostictus/ Double line eelpout				19.8 (6-34)
	No of stations with samples	19	4	23	
	Nos. length measured	180	168	348	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes gracilis/ Vahl's eelpout				17.6 (7-31)
	No of stations with samples	68	19	87	
	Nos. length measured	321	36	357	
	Nos. aged	-	19	19	
Zoarcidae	Lycodes luetkenii/ Lutken's eelpout				36.2 (35-37)
	No of stations with samples	1	-	1	
	Nos. length measured	2	-	2	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes paamiuti/ Paamiut eelpout				14.8 (8-21)
	No of stations with samples	6	-	6	
	Nos. length measured	31	-	31	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes pallidus/ Pale eelpout				13.1 (6-29)
	No of stations with samples	33	68	101	
	Nos. length measured	267	683	950	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes polaris/ Canadian eelpout				17.7 (9-31)
	No of stations with samples	-	5	5	
	Nos. length measured	-	17	17	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes reticulatus/ Arctic eelpout				22.8 (7-57)
	No of stations with samples	13	26	39	
	Nos. length measured	29	98	127	
	Nos. aged	-	25	25	
Zoarcidae	Lycodes rossi/ Threespot eelpout				13.8 (1-32)
	No of stations with samples	39	55	94	
	Nos. length measured	140	377	517	
	Nos. aged	-	5	5	
Zoarcidae	Lycodes seminudus/ Halfnaked eelpout				17.8 (7-41)
	No of stations with samples	14	46	60	
	Nos. length measured	30	303	333	
	Nos. aged	-	10	10	
Zoarcidae	Lycodes squamiventer/ Scalebelly eelpout				19 (8-34)
	No of stations with samples	11	8	19	
	Nos. length measured	126	202	328	
	Nos. aged	-	-	-	
Zoarcidae	Lycodes sp./ Eelpout				16.9 (15-19)
	No of stations with samples	-	1	1	
	Nos. length measured	-	3	3	
	Nos. aged	-	-	-	
Zoarcidae	Lycodonus flagellicauda/				19.1 (10-27)
	No of stations with samples	14	-	14	
	Nos. length measured	98	-	98	

	Nos. aged	-	-	-	
Zoarcidae	Lycenchelys kolthoffi/ Checkered wolf eel				17.7 (12-22)
	No of stations with samples	5	6	11	
	Nos. length measured	7	11	18	
	Nos. aged	-	-	-	
Zoarcidae	Lycenchelys muraena/ Moray wolf eel				16.2 (14-19)
	No of stations with samples	-	5	5	
	Nos. length measured	-	23	23	
	Nos. aged	-	-	-	
Zoarcidae	Lycenchelys sarsii/ Sars' wolf eel				15.5 (10-18)
	No of stations with samples	3			
	Nos. length measured	4			
	Nos. aged	-			