

## APPENDIX 2

### Sampling of fish in ecosystem survey 2013

Prepared by P. Krivosheya

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 vessel	Total	Length, cm mean (min-max)
Agonidae	<b>Leptagonus decagonus/ Atlantic poacher</b>				12.8 (2-22)
	No of stations with samples	104	133	237	
	Nos. length measured	565	1464	2029	
	Nos. aged	-	59	59	
Agonidae	<b>Ulcina olrikii/ Arctic alligatorfish</b>				6.5 (4-10)
	No of stations with samples	1	34	35	
	Nos. length measured	2	570	572	
	Nos. aged	-	-	-	
Agonidae	<b>Agonus cataphractus/ Hooknose</b>				7.5 (7-8)
	No of stations with samples	-	2	2	
	Nos. length measured	-	2	2	
	Nos. aged	-	-	-	
Ammodytidae	<b>Ammodytes marinus/ Lesser sandeel</b>				8.7 (3-23)
	No of stations with samples	49	28	77	
	Nos. length measured	438	639	1077	
	Nos. aged	-	-	-	
Anarhichadidae	<b>Anarhichas sp./ Wolffish</b>				5.5 (5-6)
	No of stations with samples	2	-	2	
	Nos. length measured	2	-	2	
	Nos. aged	-	-	-	
Anarhichadidae	<b>Anarhichas denticulatus/ Northern wolffish</b>				71.5 (4-119)
	No of stations with samples	50	16	66	
	Nos. length measured	85	19	104	
	Nos. aged	-	11	11	
Anarhichadidae	<b>Anarhichas lupus/ Atlantic wolffish</b>				22.4 (3-86)
	No of stations with samples	79	17	96	
	Nos. length measured	495	89	584	
	Nos. aged	-	4	4	
Anarhichadidae	<b>Anarhichas minor/ Spotted wolffish</b>				33.1 (1-122)
	No of stations with samples	70	20	90	
	Nos. length measured	297	33	330	
	Nos. aged	-	9	9	
Argentinidae	<b>Argentina silus/ Greater argentine</b>				18.7(6-44)
	No of stations with samples	35	1	36	
	Nos. length measured	374	1	375	
	Nos. aged	5	-	5	
Centrolophidae	<b>Centrolophus niger/ Blackfish</b>				46.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Clupeidae	<b>Clupea harengus harengus/ Atlantic herring</b>				9.1 (4-37)
	No of stations with samples	74	30	104	
	Nos. length measured	3559	655	4214	
	Nos. aged	485	102	587	
Clupeidae	<b>Clupea harengus suworowi/ Kanin herring</b>				16.1 (4-29)
	No of stations with samples	-	13	13	
	Nos. length measured	-	991	991	
	Nos. aged	-	152	152	
Clupeidae	<b>Clupea harengus/ Herring</b>				6.8 (4-10)
	No of stations with samples	25	-	25	
	Nos. length measured	593	-	593	
	Nos. aged	-	-	-	

Cottidae	<b>Artediellus atlanticus/ Atlantic hookear sculpin</b>				7.6 (3-16)
	No of stations with samples	169	148	317	
	Nos. length measured	1975	2247	4222	
	Nos. aged	-	33	33	
Cottidae	<b>Gymnocanthus tricuspis/ Arctic staghorn sculpin</b>				11.8 (5-21)
	No of stations with samples	6	36	42	
	Nos. length measured	13	489	502	
	Nos. aged	-	115	115	
Cottidae	<b>Icelus bicornis/ Twohorn sculpin</b>				6.0 (2-14)
	No of stations with samples	29	68	97	
	Nos. length measured	455	171	626	
	Nos. aged	-	33	33	
Cottidae	<b>Icelus spatula/ Spatulate sculpin</b>				8.0 (4-14)
	No of stations with samples	5	16	21	
	Nos. length measured	9	110	119	
	Nos. aged	-	29	29	
Cottidae	<b>Myoxocephalus scorpius/ Shorthorn sculpin</b>				4.6 (2-17)
	No of stations with samples	16	5	21	
	Nos. length measured	78	11	89	
	Nos. aged	-	4	4	
Cottidae	<b>Triglops murrayi/ Moustache sculpin</b>				10.0 (3-17)
	No of stations with samples	74	26	100	
	Nos. length measured	490	131	621	
	Nos. aged	-	-	-	
Cottidae	<b>Triglops nybelini/ Bigeye sculpin</b>				9.0 (3-14)
	No of stations with samples	39	103	142	
	Nos. length measured	433	3439	3872	
	Nos. aged	-	25	25	
Cottidae	<b>Triglops pingelii/ Ribbed sculpin</b>				11.6 (2-19)
	No of stations with samples	21	36	57	
	Nos. length measured	154	453	607	
	Nos. aged	-	32	32	
Cottidae	<b>Triglops sp./</b>				3.9 (3-5)
	No of stations with samples	5	2	7	
	Nos. length measured	30	2	32	
	Nos. aged	-	-	-	
Cyclopteridae	<b>Cyclopterus lumpus/ Lump sucker</b>				21.8 (3-50)
	No of stations with samples	119	36	155	
	Nos. length measured	426	97	523	
	Nos. aged	-	-	-	
Cyclopteridae	<b>Eumicrotremus derjugini/ Leatherfin lump sucker</b>				5.2 (2-11)
	No of stations with samples	5	7	12	
	Nos. length measured	24	19	43	
	Nos. aged	-	-	-	
Cyclopteridae	<b>Eumicrotremus spinosus/ Atlantic spiny lump sucker</b>				6.1 (2-10)
	No of stations with samples	20	9	29	
	Nos. length measured	77	49	126	
	Nos. aged	-	10	10	
Gadidae	<b>Arctogadus glacialis/ Arctic cod</b>				16.0 (6-24)
	No of stations with samples	6	14	20	
	Nos. length measured	13	19	32	
	Nos. aged	-	18	18	
Gadidae	<b>Boreogadus saida/ Polar cod</b>				11.9 (2-29)
	No of stations with samples	144	202	346	
	Nos. length measured	5131	15124	20255	
	Nos. aged	945	620	1565	
Gadidae	<b>Eleginus nawaga/ Atlantic navaga</b>				17.3 (6-31)
	No of stations with samples	-	13	13	
	Nos. length measured	-	1795	1795	
	Nos. aged	-	199	199	

Gadidae	<b>Enchelyopus cimbricus/ Fourbeard rockling</b>				9.3 (2-27)
	No of stations with samples	6	-	6	
	Nos. length measured	6	-	6	
	Nos. aged	-	-	-	
Gadidae	<b>Gadiculus argenteus/ Silvery pout</b>				11.9 (5-18)
	No of stations with samples	12	2	14	
	Nos. length measured	87	3	90	
	Nos. aged	-	-	-	
Gadidae	<b>Gaidropsarus argentatus/ Arctic threebearded rockling</b>				24.4 (13-38)
	No of stations with samples	2	2	4	
	Nos. length measured	3	2	5	
	Nos. aged	-	2	2	
Gadidae	<b>Gaidropsarus ensis / Threadfin rockling</b>				33.0
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	1	1	
Gadidae	<b>Gadus morhua/ Atlantic cod</b>				16.1 (3-130)
	No of stations with samples	425	336	761	
	Nos. length measured	54521	20798	75319	
	Nos. aged	1676	2638	4314	
Gadidae	<b>Melanogrammus aeglefinus/ Haddock</b>				27.2 (1-76)
	No of stations with samples	305	125	430	
	Nos. length measured	8328	6787	15115	
	Nos. aged	386	922	1308	
Gadidae	<b>Merlangius merlangus/ Whiting</b>				8.3 (4-47)
	No of stations with samples	16	-	16	
	Nos. length measured	138	-	138	
	Nos. aged	-	-	-	
Gadidae	<b>Micromesistius poutassou/ Blue whiting</b>				26.7 (6-41)
	No of stations with samples	79	3	82	
	Nos. length measured	2739	3	2742	
	Nos. aged	2035	1	2036	
Gadidae	<b>Molva molva/ Ling</b>				105.0
	No of stations with samples	1	-	-	
	Nos. length measured	1	-	-	
	Nos. aged	-	-	-	
Gadidae	<b>Pollachius virens/ Saithe</b>				53.0 (4-105)
	No of stations with samples	22	4	26	
	Nos. length measured	163	4	167	
	Nos. aged	-	-	-	
Gadidae	<b>Trisopterus esmarkii/ Norway pout</b>				16.6 (3-24)
	No of stations with samples	43	21	64	
	Nos. length measured	1314	720	2034	
	Nos. aged	-	-	-	
Gasterosteidae	<b>Gasterosteus aculeatus/ Threespine stickleback</b>				6.7 (5-9)
	No of stations with samples	1	37	38	
	Nos. length measured	2	352	354	
	Nos. aged	-	-	-	
Gasterosteidae	<b>Pungitius pungitius/ Ninespine stickleback</b>				6.2 (5-12)
	No of stations with samples	-	5	5	
	Nos. length measured	-	19	19	
	Nos. aged	-	-	-	
Liparidae	<b>Careproctus sp./ Snailfish</b>				8.9 (3-19)
	No of stations with samples	43	12	55	
	Nos. length measured	72	42	114	
	Nos. aged	-	-	-	
Liparidae	<b>Careproctus micropus/</b>				9.0 (5-18)
	No of stations with samples	-	21	21	
	Nos. length measured	-	77	77	
	Nos. aged	-	2	2	
Liparidae	<b>Careproctus ranula/ Scotian snailfish</b>				9.1 (5-13)
	No of stations with samples	-	20	20	
	Nos. length measured	-	48	48	
	Nos. aged	-	3	3	

Liparidae	<b>Careproctus reinhardti/ Sea tadpole</b>				11.2 (1-25)
	No of stations with samples	-	66	66	
	Nos. length measured	-	225	225	
	Nos. aged	-	22	22	
Liparidae	<b>Liparis fabricii/ Gelatinous snailfish</b>				8.9 (2-18)
	No of stations with samples	43	86	129	
	Nos. length measured	290	1544	1834	
	Nos. aged	-	128	128	
Liparidae	<b>Liparis gibbus/ Variegated snailfish</b>				11.0 (1-29)
	No of stations with samples	12	38	50	
	Nos. length measured	32	79	111	
	Nos. aged	-	6	6	
Liparidae	<b>Liparis liparis/ Striped seasnail</b>				10.0 (7-14)
	No of stations with samples	1	2	3	
	Nos. length measured	1	3	4	
	Nos. aged	-	-	-	
Liparidae	<b>Liparis sp./ Sea snail</b>				2.5 (2-3)
	No of stations with samples	1	-	1	
	Nos. length measured	2	-	2	
	Nos. aged	-	-	-	
Liparidae	<b>Liparis tunicatus/ Kelp snailfish</b>				13.5 (13-14)
	No of stations with samples	-	2	2	
	Nos. length measured	-	2	2	
	Nos. aged	-	-	-	
Liparidae	<b>Paraliparis bathybius/ Black seasnail</b>				19.7 (16-26)
	No of stations with samples	2	8	10	
	Nos. length measured	5	33	38	
	Nos. aged	-	6	6	
Liparidae	<b>Rhodichthys regina/ Threadfin seasnail</b>				22.0 (21-23)
	No of stations with samples	-	2	2	
	Nos. length measured	-	3	3	
	Nos. aged	-	2	2	
Lophiidae	<b>Lophius piscatorius/ Anglerfish</b>				-
	No of stations with samples	1	-	-	
	Nos. length measured	-	-	-	
	Nos. aged	-	-	-	
Lotidae	<b>Brosme brosme/ Cusk</b>				36.7 (6-70)
	No of stations with samples	20	1	21	
	Nos. length measured	57	6	63	
	Nos. aged	-	3	3	
Macrouridae	<b>Macrourus berglax/ Rough rat-tail</b>				16.9 (3-25)
	No of stations with samples	5	-	5	
	Nos. length measured	13	-	13	
	Nos. aged	-	-	-	
Myctophidae	<b>Bentosema glaciale / Glacier lanternfish</b>				5.5 (3-8)
	No of stations with samples	5	29	34	
	Nos. length measured	17	77	94	
	Nos. aged	-	-	-	
Myctophidae	<b>Notoscopelus sp./</b>				2.9 (1-8)
	No of stations with samples	4	-	4	
	Nos. length measured	30	-	30	
	Nos. aged	-	-	-	
Osmeridae	<b>Mallotus villosus/ Capelin</b>				9.6 (1-20)
	No of stations with samples	314	278	592	
	Nos. length measured	17674	14720	32394	
	Nos. aged	3513	1007	4520	
Osmeridae	<b>Osmerus eperlanus/ Smelt</b>				16.4 (7-25)
	No of stations with samples	-	12	12	
	Nos. length measured	-	549	549	
	Nos. aged	-	89	89	
Paralepididae	<b>Arctozenus risso/ White barracudina</b>				25.1 (17-39)
	No of stations with samples	24	14	38	
	Nos. length measured	119	26	145	
	Nos. aged	-	5	5	

Petromyzontidae	<b>Lethenteron japonicum/ Arctic lamprey</b>				32.5 (31-36)
	No of stations with samples	-	3	3	
	Nos. length measured	-	4	4	
	Nos. aged	-	-	-	
Pleuronectidae	<b>Glyptocephalus cynoglossus/ Witch flounder</b>				40.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Pleuronectidae	<b>Hippoglossoides platessoides/ Long rough dab</b>				19.4 (2-56)
	No of stations with samples	216	216	432	
	Nos. length measured	5966	20050	26016	
	Nos. aged	-	312	312	
Pleuronectidae	<b>Limanda limanda/ Dab</b>				22.4 (6-39)
	No of stations with samples	-	8	8	
	Nos. length measured	-	205	205	
	Nos. aged	-	62	62	
Pleuronectidae	<b>Microstomus kitt/ Lemon sole</b>				31.3 (28-34)
	No of stations with samples	3	-	3	
	Nos. length measured	12	-	12	
	Nos. aged	-	-	-	
Pleuronectidae	<b>Pleuronectes glacialis/ Arctic flounder</b>				16.6 (12-22)
	No of stations with samples	-	5	5	
	Nos. length measured	-	63	63	
	Nos. aged	-	45	45	
Pleuronectidae	<b>Pleuronectes platessa/ European plaice</b>				39.6 (19-61)
	No of stations with samples	-	20	20	
	Nos. length measured	-	260	260	
	Nos. aged	-	22	22	
Pleuronectidae	<b>Reinhardtius hippoglossoides/ Greenland halibut</b>				29.4 (3-86)
	No of stations with samples	136	113	249	
	Nos. length measured	1076	1551	2627	
	Nos. aged	212	1036	1248	
Psychrolutidae	<b>Cottunculus microps/ Polar sculpin</b>				12.6 (4-23)
	No of stations with samples	14	48	62	
	Nos. length measured	15	304	319	
	Nos. aged	-	48	48	
Psychrolutidae	<b>Cottunculus sadko/ Sadko sculpin</b>				11.0 (10-13)
	No of stations with samples	-	2	2	
	Nos. length measured	-	6	6	
	Nos. aged	-	2	2	
Rajidae	<b>Amblyraja hyperborea/ Arctic skate</b>				44.4 (16-82)
	No of stations with samples	6	30	36	
	Nos. length measured	9	41	50	
	Nos. aged	-	-	-	
Rajidae	<b>Amblyraja radiata/ Thorny skate</b>				39.5 (6-65)
	No of stations with samples	97	70	167	
	Nos. length measured	201	214	415	
	Nos. aged	-	-	-	
Rajidae	<b>Bathyraja spinicauda/ Spinetail ray</b>				110.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Rajidae	<b>Rajella fyllae/ Round ray</b>				29.2 (9-51)
	No of stations with samples	17	-	17	
	Nos. length measured	25	-	25	
	Nos. aged	-	-	-	
Salmonidae	<b>Salmo salar/ Atlantic salmon</b>				29.2 (25-35)
	No of stations with samples	2	3	5	
	Nos. length measured	2	3	5	
	Nos. aged	-	3	3	
Scombridae	<b>Scomber scombrus/ Mackerel</b>				8.2 (2-41)
	No of stations with samples	8	7	15	
	Nos. length measured	45	22	67	
	Nos. aged	-	-	-	

Scorpaenidae	<b>Sebastes norvegicus/ Golden redfish</b>				22.9 (6-64)
	No of stations with samples	37	22	59	
	Nos. length measured	256	321	577	
	Nos. aged	177	62	239	
Scorpaenidae	<b>Sebastes mentella/ Deepwater redfish</b>				17.9 (5-48)
	No of stations with samples	165	114	279	
	Nos. length measured	6772	2078	8850	
	Nos. aged	532	232	764	
Scorpaenidae	<b>Sebastes sp./ Redfish</b>				5.8 (1-20)
	No of stations with samples	129	2	131	
	Nos. length measured	2242	34	2276	
	Nos. aged	-	-	-	
Scorpaenidae	<b>Sebastes viviparus / Norway redfish</b>				16.8 (5-31)
	No of stations with samples	23	3	26	
	Nos. length measured	708	3	711	
	Nos. aged	-	2	2	
Squalidae	<b>Somniosus microcephalus/ Greenland shark</b>				275.7 (219-326)
	No of stations with samples	-	3	3	
	Nos. length measured	-	3	3	
	Nos. aged	-	-	-	
Sternoptychidae	<b>Maurolicus muelleri/ Pearlside</b>				3.8 (1-7)
	No of stations with samples	21	7	29	
	Nos. length measured	178	30	208	
	Nos. aged	-	-	-	
Stichaeidae	<b>Anisarchus medius/ Stout eelblenny</b>				14.4 (4-27)
	No of stations with samples	18	14	32	
	Nos. length measured	121	93	214	
	Nos. aged	-	-	-	
Stichaeidae	<b>Lumpenus fabricii/ Slender eelblenny</b>				22.2 (13-30)
	No of stations with samples	-	10	10	
	Nos. length measured	-	184	184	
	Nos. aged	-	21	21	
Stichaeidae	<b>Leptoclinus sp., Lumpenus sp./</b>				14.0
	No of stations with samples	-	1	1	
	Nos. length measured	-	1	1	
	Nos. aged	-	-	-	
Stichaeidae	<b>Leptoclinus maculates/ Daubed shanny</b>				10.9 (2-20)
	No of stations with samples	157	134	291	
	Nos. length measured	2838	622	3460	
	Nos. aged	-	-	-	
Stichaeidae	<b>Lumpenus lampretaeformis/ Snake blenny</b>				19.8 (4-38)
	No of stations with samples	94	48	142	
	Nos. length measured	193	731	924	
	Nos. aged	-	21	21	
Zoarcidae	<b>Gymnelus retrodorsalis/ Aurora unernak</b>				11.8 (9-16)
	No of stations with samples	10	10	20	
	Nos. length measured	16	23	39	
	Nos. aged	-	-	-	
Zoarcidae	<b>Gymnelus viridis/ Fish doctor</b>				11.0 (9-13)
	No of stations with samples	1	1	2	
	Nos. length measured	1	1	2	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycodes adolfi/ Adolf's eelpout</b>				15.7 (9-29)
	No of stations with samples	1	6	7	
	Nos. length measured	5	149	154	
	Nos. aged	-	51	51	
Zoarcidae	<b>Lycodes esmarkii/ Esmark's eelpout</b>				28.4 (8-61)
	No of stations with samples	15	2	17	
	Nos. length measured	29	4	33	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycodes eudipleurostictus/ Double line eelpout</b>				21.6 (7-34)
	No of stations with samples	10	19	29	
	Nos. length measured	14	253	267	
	Nos. aged	-	72	72	

Zoarcidae	<b>Lycodes frigidus/ Glacial eelpout</b>				21.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycodes gracilis/ Vahl's eelpout</b>				17.3 (3-32)
	No of stations with samples	65	18	83	
	Nos. length measured	398	125	523	
	Nos. aged	-	28	28	
Zoarcidae	<b>Lycodes luetkenii/ Lutken's eelpout</b>				18.3 (12-23)
	No of stations with samples	-	2	2	
	Nos. length measured	-	3	3	
	Nos. aged	-	2	2	
Zoarcidae	<b>Lycodes paamiuti/ Paamiut eelpout</b>				16.7 (14-21)
	No of stations with samples	1	-	1	
	Nos. length measured	3	-	3	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycodes pallidus/ Pale eelpout</b>				13.8 (4-29)
	No of stations with samples	26	90	116	
	Nos. length measured	61	900	961	
	Nos. aged	-	68	68	
Zoarcidae	<b>Lycodes polaris/ Canadian eelpout</b>				15.1 (9-27)
	No of stations with samples	-	16	16	
	Nos. length measured	-	153	153	
	Nos. aged	-	21	21	
Zoarcidae	<b>Lycodes reticulatus/ Arctic eelpout</b>				19.3 (7-65)
	No of stations with samples	10	44	54	
	Nos. length measured	15	263	278	
	Nos. aged	-	41	41	
Zoarcidae	<b>Lycodes rossi/ Threespot eelpout</b>				13.4 (6-35)
	No of stations with samples	30	63	93	
	Nos. length measured	91	421	512	
	Nos. aged	-	21	21	
Zoarcidae	<b>Lycodes seminudus/ Halfnaked eelpout</b>				18.3 (7-46)
	No of stations with samples	5	54	59	
	Nos. length measured	10	478	488	
	Nos. aged	-	100	100	
Zoarcidae	<b>Lycodes squamiventer/ Scalebelly eelpout</b>				18.6 (11-33)
	No of stations with samples	2	17	19	
	Nos. length measured	3	96	99	
	Nos. aged	-	20	20	
Zoarcidae	<b>Lycodes sp./ Eelpout</b>				5.0
	No of stations with samples	1	-	1	
	Nos. length measured	1	-	1	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycodonus flagellicauda/</b>				17.0 (16-18)
	No of stations with samples	1	-	1	
	Nos. length measured	3	-	3	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycenchelys kolthoffi/ Checkered wolf eel</b>				18.1 (13-32)
	No of stations with samples	3	7	10	
	Nos. length measured	3	14	17	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycenchelys muraena/ Moray wolf eel</b>				19.0 (14-25)
	No of stations with samples	-	5	5	
	Nos. length measured	-	11	11	
	Nos. aged	-	5	5	
Zoarcidae	<b>Lycenchelys sarsii/ Sars' wolf eel</b>				15.3 (12-19)
	No of stations with samples	3	-	3	
	Nos. length measured	4	-	4	
	Nos. aged	-	-	-	
Zoarcidae	<b>Lycenchelys sp. /</b>				22.0 (21-23)
	No of stations with samples	-	3	3	
	Nos. length measured	-	3	3	
	Nos. aged	-	2	2	