

Appendix C: WCM2014 IRIS raw data

Water Column Monitoring 2014



Project title:	Water Column Monitoring 2014
IRIS Project Leader:	Daniela Pampanin
Client(s):	Statoil on behalf of Norwegian Oil and Gas WCM coordination group
Distribution restriction:	Open

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Table C1. PAH metabolites (Fixed wavelength fluorescence)

Fish no	location	fish	PFE290/334	PFE341/383	PFE380/430
101	Njord A	tusk	334,75	73,96	18,49
107	Njord A	tusk	653,94	127,48	92,45
110	Njord A	tusk	332,81	16,54	2,92
114	Njord A	tusk	466,12	165,43	60,33
118	Njord A	tusk	324,05	133,32	49,63
133	Njord A	tusk	301,67	124,56	45,74
134	Njord A	tusk	320,16	133,32	32,11
135	Njord A	tusk	214,09	106,07	68,12
141	Njord A	tusk	255,93	237,44	55,47
142	Njord A	tusk	926,41	316,26	189,76
143	Njord A	tusk	756,11	95,37	58,39
145	Njord A	tusk	350,32	97,31	107,04
146	Njord A	tusk	160,56	93,42	14,60
149	Njord A	tusk	80,77	144,99	49,63
151	Njord A	tusk	463,21	224,79	34,06
154	Njord A	tusk	127,48	140,13	21,41
158	Njord A	tusk	673,40	200,46	68,12
172	Njord A	tusk	665,61	143,05	14,60
173	Njord A	tusk	138,18	102,18	0,10
222	Ref	tusk	510,89	166,40	197,54
223	Ref	tusk	109,96	140,13	78,82
224	Ref	tusk	200,46	123,59	106,07
227	Ref	tusk	168,35	160,56	213,11
242	Ref	tusk	60,33	48,66	78,82
243	Ref	tusk	282,20	99,26	72,98
254	Ref	tusk	105,10	66,17	41,84
255	Ref	tusk	552,73	163,48	55,47
256	Ref	tusk	356,16	169,32	191,70
257	Ref	tusk	202,41	125,53	25,30
270	Ref	tusk	184,89	101,20	1,95
271	Ref	tusk	208,25	88,55	96,34
272	Ref	tusk	149,86	126,51	71,04
273	Ref	tusk	146,94	64,23	85,63
274	Ref	tusk	236,47	99,26	21,41
102	Njord A	ling	458,34	146,94	161,54
103	Njord A	ling	663,67	197,54	177,11
104	Njord A	ling	332,81	99,26	0,49
111	Njord A	ling	97,31	179,05	34,06
112	Njord A	ling	543,00	71,04	48,66
119	Njord A	ling	59,36	15,57	6,81
122	Njord A	ling	1599,81	133,32	15,57
130	Njord A	ling	399,95	62,28	45,74
136	Njord A	ling	30,17	29,19	6,81
137	Njord A	ling	848,56	136,24	13,62
144	Njord A	ling	803,80	87,58	30,17
147	Njord A	ling	55,47	99,26	9,73
148	Njord A	ling	320,16	168,35	61,31
150	Njord A	ling	108,99	102,18	54,49
152	Njord A	ling	888,46	6,81	19,46
153	Njord A	ling	784,33	100,23	56,44
155	Njord A	ling	11,68	132,34	0,10
156	Njord A	ling	309,45	41,84	31,14
157	Njord A	ling	461,26	76,88	45,74
159	Njord A	ling	312,37	96,34	61,31
201	Ref	ling	523,54	103,15	20,44
202	Ref	ling	593,60	174,19	54,49
240	Ref	ling	199,49	148,89	25,30
244	Ref	ling	286,10	42,82	11,68
R388	Ref 2013	Ling	24,03	1,28	1,22
R392	Ref 2013	Ling	4,14	2,37	0,30
R393	Ref 2013	Ling	8,88	0,62	0,02
R399	Ref 2013	Ling	5,23	2,02	0,90
R400	Ref 2013	Ling	4,18	0,70	0,42
R401	Ref 2013	Ling	6,64	2,27	1,52
R402	Ref 2013	Ling	7,02	1,68	0,86

R403	Ref 2013	Ling	32,03	1,31	0,51
105	Njord A	redfish	20,44	41,84	41,84
108	Njord A	redfish	43,79	2,92	53,52
109	Njord A	redfish	1,95	108,99	0,19
113	Njord A	redfish	1,95	59,36	16,54
115	Njord A	redfish	8,76	91,47	12,65
116	Njord A	redfish	0,10	65,20	0,58
117	Njord A	redfish	134,29	114,83	38,92
120	Njord A	redfish	144,99	98,29	5,84
121	Njord A	redfish	128,45	150,83	59,36
123	Njord A	redfish	117,75	195,60	90,50
124	Njord A	redfish	24,33	148,89	67,15
125	Njord A	redfish	69,09	55,47	0,10
126	Njord A	redfish	18,49	78,82	21,41
127	Njord A	redfish	64,23	152,78	73,96
128	Njord A	redfish	112,88	171,27	107,04
129	Njord A	redfish	155,70	132,34	0,19
131	Njord A	redfish	166,40	118,72	83,69
138	Njord A	redfish	11,68	62,28	0,29
139	Njord A	redfish	81,74	87,58	29,19
140	Njord A	redfish	58,39	37,95	50,60
229	Ref	redfish	96,34	2,92	4,87
230	Ref	redfish	119,69	130,40	12,65
231	Ref	redfish	118,72	35,03	49,63
232	Ref	redfish	40,87	122,61	28,22
233	Ref	redfish	168,35	115,80	44,76
234	Ref	redfish	190,73	188,79	12,65
235	Ref	redfish	0,19	0,10	0,10
236	Ref	redfish	245,23	167,38	0,19
237	Ref	redfish	47,68	43,79	72,01
238	Ref	redfish	55,47	55,47	10,70
245	Ref	redfish	151,81	57,41	62,28
246	Ref	redfish	97,31	64,23	22,38
247	Ref	redfish	0,10	65,20	1,95
248	Ref	redfish	25,30	123,59	5,84
249	Ref	redfish	54,49	68,12	36,98
250	Ref	redfish	133,32	61,31	44,76
251	Ref	redfish	96,34	77,85	57,41
252	Ref	redfish	33,09	103,15	0,10
253	Ref	redfish	192,68	152,78	56,44
160	Njord A	saithe	52,55	210,19	9,73
161	Njord A	saithe	157,65	64,23	29,19
162	Njord A	saithe	377,57	290,96	45,74
163	Njord A	saithe	70,06	69,09	22,38
164	Njord A	saithe	173,22	141,10	123,59
165	Njord A	saithe	33,09	132,34	11,68
166	Njord A	saithe	87,58	29,19	118,72
167	Njord A	saithe	160,56	94,39	4,87
168	Njord A	saithe	178,08	1,95	54,49
169	Njord A	saithe	0,10	66,17	1,95
203	Ref	saithe	1313,71	100,23	44,76
204	Ref	saithe	274,42	78,82	43,79
205	Ref	saithe	147,91	99,26	40,87
206	Ref	saithe	101,20	133,32	0,10
207	Ref	saithe	238,41	168,35	172,24
208	Ref	saithe	171,27	109,96	119,69
209	Ref	saithe	13,62	120,67	64,23
210	Ref	saithe	1142,44	159,59	121,64
212	Ref	saithe	1469,41	39,90	13,62
213	Ref	saithe	1157,04	55,47	32,11
215	Ref	saithe	914,73	113,86	129,42
216	Ref	saithe	181,00	116,77	31,14
217	Ref	saithe	622,80	17,52	48,66
219	Ref	saithe	1726,31	110,94	59,36
220	Ref	saithe	158,62	174,19	42,82
221	Ref	saithe	181,97	179,05	35,03

Table C2.PAH metabolites (GC-MS) (ng/g)

fish	Location	Sample nr.	1-OH-Naphthalene	2-OH-Naphthalene	C1-OH-Naphthalene	C2-OH-Naphthalene	C3-OH-Naphthalene	1-OH-Phenanthrene	C1-OH-Phenanthrene	C2-OH-Phenanthrene	1-OH-Pyrene
tusk	Ref	222	4,08	2,53	184,43	92,75	258,48	6,62	286,58	241,54	10,42
tusk	Ref	223	2,08	3,35	302,44	76,08	336,46	12,62	204,67	325,84	4,52
tusk	Ref	224	2,77	3,79	247,97	51,26	453,42	8,59	306,97	424,17	5,14
tusk	Ref	227	3,48	3,90	214,79	68,27	314,45	8,73	253,58	219,78	3,46
tusk	Ref	242	3,06	2,84	253,56	89,57	262,89	8,12	105,02	168,54	3,42
tusk	Ref	243	4,28	1,35	200,44	53,19	183,76	11,32	190,81	192,14	6,46
tusk	Ref	254	2,15	132,39	396,03	102,36	251,17	8,70	249,24	357,21	5,31
tusk	Ref	255	3,51	1,28	273,33	34,99	328,27	3,48	170,56	114,33	3,40
tusk	Ref	256	2,76	2,51	249,49	46,69	263,08	11,25	200,81	284,49	4,44
tusk	Ref	257	2,70	5,25	273,58	38,21	161,44	10,61	207,07	139,41	3,43
tusk	Ref	270	2,89	2,34	284,44	54,78	257,85	9,98	179,65	212,73	6,09
tusk	Ref	271	6,71	2,50	313,84	95,43	200,83	8,86	193,18	245,21	4,01
tusk	Ref	272	8,57	133,81	408,26	65,01	209,36	10,14	400,69	437,75	5,30
tusk	Ref	273	2,94	1,27	401,87	106,74	350,19	3,91	241,95	322,39	4,44
tusk	Ref	274	2,94	6,21	199,54	40,87	230,83	18,78	397,61	234,21	2,69
tusk	Njord	101	8,76	11,92	557,77	191,21	302,43	23,49	226,11	259,41	20,13
tusk	Njord	107	6,80	6,25	241,67	90,25	202,43	12,71	243,10	266,53	6,25
tusk	Njord	110	3,31	7,15	174,94	46,48	133,32	9,36	153,01	187,46	22,34
tusk	Njord	114	3,64	4,32	192,17	62,58	181,64	203,96	208,71	348,14	40,14
tusk	Njord	118	1,34	4,54	202,04	64,56	189,83	59,82	179,60	163,06	4,37
tusk	Njord	133	3,83	6,97	369,47	109,28	203,83	18,82	186,81	389,52	6,17
tusk	Njord	134	1,53	1,83	264,68	61,04	264,68	8,58	236,15	233,69	4,98
tusk	Njord	135	2,21	3,21	197,64	63,80	250,98	3,40	738,37	272,10	1,68
tusk	Njord	141	1,62	2,12	222,06	85,63	203,46	3,00	238,56	178,66	24,54
tusk	Njord	142	6,16	1,65	337,43	116,82	315,11	9,28	336,77	454,67	24,03
tusk	Njord	143	3,78	3,67	393,95	132,17	325,32	6,94	225,30	301,85	9,61
tusk	Njord	145	3,44	3,24	231,61	60,58	181,56	7,10	188,82	270,52	2,47
tusk	Njord	146	1,55	2,65	217,20	69,15	330,98	3,60	213,57	298,98	2,53
tusk	Njord	149	1,26	4,45	256,22	89,08	592,26	4,22	441,48	503,51	1,11
tusk	Njord	151	3,03	4,98	193,16	65,93	189,14	9,23	189,50	156,21	8,27
ling	Ref	201	8,15	6,14	214,23	223,79	271,28	12,61	250,44	160,98	16,92
ling	Ref	202	2,72	4,56	231,70	47,48	289,13	9,61	292,70	298,33	7,72
ling	Ref	240	5,17	1,54	231,77	45,12	203,26	9,69	171,53	289,81	4,09
ling	Ref	244	1,08	2,46	205,87	50,77	235,42	4,26	211,82	242,38	2,47
Ling	Ref2013	R392						35,73	207,87		
Ling	Ref2013	R399						112,39			
Ling	Ref2013	R400						43,96	241,54		
Ling	Ref2013	R401						54,91	200,76		
Ling	Ref2013	R402						57,50	272,62	314,74	
Ling	Ref2013	R403						46,31	304,49	235,22	
ling	Njord	102	4,11	1,75	278,55	107,23	297,85	1,29	205,55	228,68	2,08
ling	Njord	103	1,09	2,43	246,27	64,89	300,52	3,43	148,95	156,57	4,18
ling	Njord	104	1,16	2,61	228,33	69,41	292,03	3,47	198,99	233,67	2,07
ling	Njord	111	2,23	1,84	234,66	88,99	241,01	6,09	275,25	90,68	0,87
ling	Njord	112	2,31	3,76	179,09	34,70	215,57	1,96	152,07	162,63	4,93
ling	Njord	119	1,50	1,79	253,53	80,88	325,95	3,08	237,77	287,60	5,09
ling	Njord	122	2,17	2,23	257,46	80,08	296,82	3,56	160,04	161,91	1,74
ling	Njord	130	2,63	4,86	248,01	56,68	237,59	9,13	198,29	251,57	1,50
ling	Njord	136	1,49	3,71	226,43	61,15	287,43	5,94	171,76	297,10	2,99
ling	Njord	137	4,05	4,42	252,09	113,23	304,39	4,83	281,27	391,09	5,81
ling	Njord	144	3,23	3,39	243,41	64,15	299,80	6,92	255,74	294,97	2,43
ling	Njord	147	2,97	1,74	212,85	43,19	209,06	3,39	186,79	208,39	4,15
ling	Njord	148	3,60	4,36	248,59	71,36	222,73	5,54	204,51	213,86	2,49
ling	Njord	150	3,03	3,23	200,54	51,93	230,14	3,41	199,29	141,46	0,42
ling	Njord	152	3,38	7,94	272,31	65,38	272,22	3,96	230,80	208,15	1,56
ling	Njord	153	1,06	4,17	250,48	49,87	184,65	5,13	131,48	284,83	1,74
ling	Njord	155	1,18	2,39	274,20	50,06	223,06	5,84	258,73	209,50	1,63
ling	Njord	156	2,42	3,92	231,94	85,25	281,86	3,31	238,80	199,70	6,14

ling	Njord	157	2,92	2,27	221,33	55,90	238,66	5,50	188,80	276,17	2,90
ling	Njord	159	2,51	5,24	294,20	71,99	312,53	8,54	237,13	368,79	2,24
redfish	Ref	229	2,65	4,18	283,32	169,56	254,11	10,20	97,07	372,18	2,67
redfish	Ref	230	5,40	2,43	213,64	126,43	276,60	17,73	205,08	183,48	7,09
redfish	Ref	231	7,70	4,30	393,29	67,21	271,05	9,92	205,05	294,90	10,40
redfish	Ref	232	6,79	7,99	236,30	156,80	296,75	30,64	283,82	356,94	10,54
redfish	Ref	233	3,75	5,67	265,13	100,75	164,43	41,73	302,44	206,29	3,03
redfish	Ref	234	2,16	7,37	249,61	92,80	212,02	13,11	205,04	55,54	26,38
redfish	Ref	235	6,18	1,03	250,67	53,04	185,59	20,86	149,76	335,84	4,55
redfish	Ref	236	4,13	8,08	278,64	64,85	336,00	13,49	285,52	498,01	28,88
redfish	Ref	237	11,02	2,02	318,85	82,26	207,52	11,14	293,41	245,90	2,06
redfish	Ref	238	0,92	4,62	315,32	323,76	252,95	16,38	231,21	398,18	7,21
redfish	Ref	245	4,36	4,12	370,99	67,00	244,85	18,35	252,89	386,74	6,35
redfish	Ref	246	3,14	4,16	274,53	97,69	198,46	17,71	239,66	221,69	3,23
redfish	Ref	247	6,87	6,39	324,38	81,99	245,85	25,38	217,41	279,16	5,73
redfish	Ref	248	4,93	6,38	284,36	89,21	249,93	5,08	306,60	216,93	4,03
redfish	Ref	249	7,87	9,36	277,87	107,75	264,87	13,54	312,06	385,43	18,51
redfish	Ref	250	8,84	8,30	326,32	103,26	375,50	12,77	136,34	484,88	8,77
redfish	Ref	251	1,62	5,01	279,47	91,48	218,24	12,01	231,82	325,52	3,20
redfish	Ref	252	4,22	6,21	303,47	96,28	285,70	12,86	200,02	252,85	5,13
redfish	Ref	253	7,39	5,57	674,31	185,55	268,43	16,96	129,17	273,79	4,44
redfish	Njord	105	2,15	3,67	266,72	76,77	280,89	7,99	138,96	188,19	4,15
redfish	Njord	108	4,71	3,40	297,75	57,80	232,98	9,48	248,14	251,99	5,12
redfish	Njord	109	3,54	2,60	228,20	57,40	209,89	6,89	187,37	253,97	2,90
redfish	Njord	113	2,96	2,39	233,80	65,18	256,16	12,00	227,84	396,37	5,92
redfish	Njord	115	6,89	7,02	241,94	80,31	262,82	15,02	139,25	258,99	7,64
redfish	Njord	116	4,11	3,82	230,44	80,45	282,19	8,11	252,84	322,98	5,16
redfish	Njord	117	3,40	3,94	179,46	61,19	260,15	10,20	243,78	470,88	2,11
redfish	Njord	120	2,99	3,19	239,44	67,07	262,99	18,11	241,62	214,78	11,65
redfish	Njord	121	2,62	4,03	261,67	63,85	233,43	17,78	282,00	329,74	4,24
redfish	Njord	123	3,02	4,96	269,33	55,97	277,53	10,74	93,17	138,73	7,23
redfish	Njord	124	4,96	1,84	219,91	77,64	218,86	10,33	318,01	456,87	4,60
redfish	Njord	125	7,14	4,50	208,56	53,43	233,01	11,70	193,47	183,89	5,52
redfish	Njord	126	5,06	7,71	224,89	57,27	238,94	12,65	361,50	252,25	4,33
redfish	Njord	127	1,98	3,41	226,58	66,58	315,18	9,29	199,36	289,96	6,62
redfish	Njord	128	6,15	4,02	256,11	63,22	316,95	8,27	181,75	170,95	8,97
redfish	Njord	129	6,98	4,56	254,97	80,14	232,47	17,88	231,68	160,72	6,21
redfish	Njord	131	2,78	5,59	260,77	82,55	341,26	13,03	308,96	281,57	11,47
redfish	Njord	138	6,32	4,32	221,22	40,26	269,66	16,82	252,57	197,07	1,34
redfish	Njord	139	6,86	8,93	239,31	49,48	212,85	7,63	276,32	281,90	8,99
redfish	Njord	140	6,22	6,79	283,78	61,52	203,31	16,93	151,17	192,24	1,20
saithe	Ref	203	13,71	11,80	181,61	35,59	254,16	2,63	76,16	23,24	1,16
saithe	Ref	204	8,78	2,18	326,71	271,89	357,41	12,18	122,34	146,26	4,71
saithe	Ref	205	2,86	4,55	130,20	352,34	225,57	4,74	46,87	20,30	1,92
saithe	Ref	206	9,15	4,55	269,04	90,36	124,37	1,75	42,22	61,52	2,84
saithe	Ref	207	7,28	9,46	142,10	55,39	257,91	3,38	41,10	58,46	2,62
saithe	Ref	208	5,19	4,58	184,13	97,24	180,68	7,83	64,54	32,18	5,21
saithe	Ref	209	5,69	3,60	141,58	176,72	294,54	1,48	45,13	23,79	3,03
saithe	Ref	210	5,99	5,95	181,74	117,42	219,13	5,62	141,55	123,31	2,83
saithe	Ref	212	7,60	3,77	173,09	117,13	363,25	3,31	33,71	16,15	1,73
saithe	Ref	213	2,20	4,91	165,58	69,08	301,01	5,26	35,53	24,36	3,91
saithe	Ref	215	4,71	10,69	240,46	53,73	218,97	7,41	55,73	49,26	2,07
saithe	Ref	216	3,40	7,87	136,18	104,53	162,73	7,13	104,38	2,29	4,79
saithe	Ref	217	7,95	8,69	134,95	53,19	280,22	3,75	41,23	70,14	3,66
saithe	Ref	219	4,35	7,78	204,19	84,28	326,71	11,50	82,25	42,26	3,65
saithe	Ref	220	4,56	6,79	259,41	69,78	222,24	3,45	13,80	9,45	1,49
saithe	Ref	221	5,70	7,93	97,91	150,28	351,22	6,00	31,12	99,44	2,06
saithe	Njord	160	2,10	4,21	204,08	55,38	113,45	5,35	193,48	213,74	4,12
saithe	Njord	161	2,01	1,06	238,86	47,71	220,35	9,73	120,36	241,39	6,42
saithe	Njord	162	1,72	2,61	196,02	60,70	182,42	3,90	141,99	398,64	1,01
saithe	Njord	163	2,27	2,71	219,98	43,34	184,62	7,82	160,82	288,41	3,78
saithe	Njord	164	2,48	1,49	186,82	67,65	214,80	10,35	218,63	347,35	6,94
saithe	Njord	165	4,59	7,38	250,53	63,41	202,06	4,98	163,40	173,01	6,53
saithe	Njord	166	4,22	2,44	280,49	63,33	168,98	3,36	131,24	278,67	21,96
saithe	Njord	167	2,73	3,27	198,60	46,67	213,44	7,27	135,09	203,10	2,43
saithe	Njord	168	1,73	4,64	248,78	56,15	168,67	8,62	172,31	276,19	1,86
saithe	Njord	169	1,39	2,02	196,00	51,99	169,25	8,18	212,45	325,82	14,74

Table C3. Lysosomal membrane stability in fish livers

code	fish	location	LMS (min)		code	fish	location	LMS (min)
110	tusk	platform	20		124	redfish	platform	20
101	tusk	platform	15		125	redfish	platform	30
107	tusk	platform	15		126	redfish	platform	20
114	tusk	platform	30		127	redfish	platform	15
118	tusk	platform	20		128	redfish	platform	15
132	tusk	platform	40					
133	tusk	platform	30		201	ling	ref	20
134	tusk	platform	20		202	ling	ref	30
135	tusk	platform	15		240	ling	ref	20
141	tusk	platform	15		244	ling	ref	40
142	tusk	platform	30		228	redfish	ref	20
143	tusk	platform	20		229	redfish	ref	20
154	tusk	platform	20		230	redfish	ref	20
172	tusk	platform	15		231	redfish	ref	30
173	tusk	platform	20		232	redfish	ref	30
102	ling	platform	30		233	redfish	ref	30
103	ling	platform	15		234	redfish	ref	30
104	ling	platform	20		235	redfish	ref	30
111	ling	platform	30		236	redfish	ref	30
112	ling	platform	30		237	redfish	ref	30
119	ling	platform	30		238	redfish	ref	20
122	ling	platform	30		245	redfish	ref	40
130	ling	platform	30		246	redfish	ref	40
136	ling	platform	30		247	redfish	ref	40
137	ling	platform	20		248	redfish	ref	20
144	ling	platform	15		203	saithe	ref	40
147	ling	platform	15		204	saithe	ref	40
148	ling	platform	20		205	saithe	ref	40
150	ling	platform	20		206	saithe	ref	20
153	ling	platform	15		207	saithe	ref	20
160	saithe	platform	20		208	saithe	ref	40
161	saithe	platform	15		209	saithe	ref	20
162	saithe	platform	15		210	saithe	ref	30
163	saithe	platform	20		211	saithe	ref	30
164	saithe	platform	20		212	saithe	ref	40
165	saithe	platform	20		220	saithe	ref	30
166	saithe	platform	30		221	saithe	ref	40
167	saithe	platform	30		222	tusk	ref	20
168	saithe	platform	20		223	tusk	ref	40
169	saithe	platform	20		224	tusk	ref	30
170	saithe	platform	20		225	tusk	ref	20
171	saithe	platform	20		226	tusk	ref	30
105	redfish	platform	30		227	tusk	ref	30
108	redfish	platform	30		242	tusk	ref	30
109	redfish	platform	20		243	tusk	ref	30
113	redfish	platform	40		256	tusk	ref	30
115	redfish	platform	20		257	tusk	ref	40
116	redfish	platform	20		270	tusk	ref	30
117	redfish	platform	20		271	tusk	ref	40
120	redfish	platform	20		272	tusk	ref	20
121	redfish	platform	40		273	tusk	ref	30
123	redfish	platform	20		274	tusk	ref	30

Table C4. VTG data

Species	location	Nr.	Sex	Value	VTg
tusk	platform	133	M	-0.00733	0
tusk	platform	134	M	-0.01167	0
tusk	platform	142	M	-0.01367	0
tusk	platform	143	M	-0.01	0
tusk	platform	154	M	0.017	0.017
tusk	platform		M	-0.052	0
tusk	platform	173	M	-0.02233	0
tusk	ref	222	M	0.017667	0.017667
tusk	ref	272	M	0.008	0.008
tusk	ref	274	M	0.002333	0.002333
ling	platform	153	M	-0.01	0
ling	ref	202	M	0.558667	0.558667
redfish	ref	237	M	0.37	0.37
redfish	ref	238	M	0.455333	0.455333
redfish	ref	246	M	0.314667	0.314667
redfish	ref	230	M	0.357207	0.357207
redfish	ref	231	M	0.140874	0.140874
redfish	ref	232	M	0.052207	0.052207
redfish	ref	233	M	-0.02646	0
saithe	platform	161	M	-0.01946	0
saithe	platform	162	M	0.010541	0.010541
saithe	platform	164	M	0.001207	0.001207
saithe	platform	167	M	-0.01013	0
saithe	platform	168	M	0.083541	0.083541
saithe	platform	169	M	-0.00646	0
saithe	platform	170	M	-0.01279	0
saithe	ref	210	M	0.082541	0.082541
saithe	ref	211	M	-0.00879	0
saithe	ref	212	M	-0.01246	0
saithe	ref	220	M	-0.03513	0
saithe	ref	221	M	-0.02146	0
WCM 2014 - ELISA antibody female test					
Antibodies: PO-2 for Redfish, CS-1 for Gadiformes					
Species	location	Nr.	Sex	Value	
Tusk	platform	151	F	0.700843	
Ling	platform	147	F	0.007343	
Saithe	platform	165	F	-0.00432	
Redfish	platform	138	F	0.013676	
Tusk	ref	225	F	0.646176	
Ling	ref	244	F	0.004343	
Saithe	ref	214	F	-0.00199	
Redfish	ref	228	F	0.004843	

Table C5. Liver histopathology data

Steatosis (normal cyclical, non-pathological status of the liver)	0-3	0-absent
		1-area affected
		2-some areas affected
		3-distributed through the hole sampled tissue
Circulatory disturbances	0-2	0-absent
		1-sporadic/small area affected
		2-some areas affected
Other pathological changes	0-2	0-absent
		1-sporadic
		2-multiple/widespread
Inflammatory changes	0-2	0-absent
		1-sporadic
		2-multiple/widespread
Melanomacrophage aggregates	0-3	0-absent
		1-area affected (1-2 cases)
		2-some areas affected/more than 2 in a sample
		3-distributed through the hole sampled tissue
Parasites	0-1	0-absent
		1-present

Species	Station	Sample #	Steatosis	Circulatory disturbances	Other pathological changes	Inflammatory changes	Melano-macrophage aggregates	Parasites
Tusk	Platform	110	2	0	0	0	2	0
Tusk	Platform	101	2	0	0	2	1	0
Tusk	Platform	107	2	0	0	1	1	0
Tusk	Platform	114	2	0	0	0	0	0
Tusk	Platform	118	2	0	0	1	0	0
Tusk	Platform	132	2	0	0	1	1	0
Tusk	Platform	133	2	1	0	1	0	0
Tusk	Platform	134	2	0	0	1	1	0
Tusk	Platform	135	2	0	0	2	0	0
Tusk	Platform	141	2	0	1	1	1	1
Tusk	Platform	142	2	0	0	1	0	0
Tusk	Platform	143	2	0	0	0	0	0
Tusk	Platform	154	2	0	0	1	0	0
Tusk	Platform	172	2	0	0	2	1	0
Tusk	Platform	173	2	0	0	1	0	0
Ling	Platform	102	2	0	0	1	1	0
Ling	Platform	103	2	0	1	1	0	0
Ling	Platform	104	2	0	1	0	0	0
Ling	Platform	111	2	0	0	0	0	0
Ling	Platform	112	2	0	0	0	0	0
Ling	Platform	119	2	0	0	0	0	0
Ling	Platform	122	2	1	0	0	0	0
Ling	Platform	130	2	1	0	1	1	0
Ling	Platform	136	2	1	0	1	0	0
Ling	Platform	137	2	0	0	0	1	0
Ling	Platform	144	2	0	0	1	1	0
Ling	Platform	147	2	0	0	0	0	0
Ling	Platform	148	2	1	0	0	0	0
Ling	Platform	150	2	1	0	0	0	0
Ling	Platform	153	2	1	0	0	0	0
Saithe	Platform	160	2	0	0	0	0	0
Saithe	Platform	161	2	0	1	0	0	0
Saithe	Platform	162	2	0	1	1	0	0
Saithe	Platform	163	2	1	0	0	0	0
Saithe	Platform	164	2	0	0	0	1	0
Saithe	Platform	165	1	0	0	0	0	0
Saithe	Platform	166	2	0	0	1	0	1
Saithe	Platform	167	2	0	0	0	0	1
Saithe	Platform	168	2	0	1	0	0	0

Saithe	Platform	169	3	0	0	0	0	0
Saithe	Platform	170	3	0	0	0	0	0
Saithe	Platform	171	3	1	0	0	0	0
Uer	Platform	105	2	1	0	0	1	0
Uer	Platform	108	1	0	0	0	1	0
Uer	Platform	109	1	0	0	0	1	0
Uer	Platform	113	2	0	0	0	0	0
Uer	Platform	115	3	0	0	0	1	0
Uer	Platform	116	3	0	0	0	0	0
Uer	Platform	117	1	0	0	0	1	0
Uer	Platform	120	1	1	0	0	1	0
Uer	Platform	121	1	0	0	1	1	0
Uer	Platform	123	1	0	0	0	1	0
Uer	Platform	124	1	0	0	1	1	0
Uer	Platform	125	1	0	0	0	0	0
Uer	Platform	126	0	1	0	0	0	0
Uer	Platform	127	1	1	1	1	0	0
Uer	Platform	128	1	1	1	0	1	0
Ling	Reference	201	1	0	0	1	0	0
Ling	Reference	202	1	0	0	0	1	0
Ling	Reference	240	0	1	0	0	0	0
Ling	Reference	244	2	0	0	0	0	0
Redfish	Reference	228	2	0	1	0	1	0
Redfish	Reference	229	2	0	1	1	0	0
Redfish	Reference	230	2	0	0	0	0	0
Redfish	Reference	231	2	0	0	0	1	1
Redfish	Reference	232	2	0	0	1	1	0
Redfish	Reference	233	2	1	1	1	1	0
Redfish	Reference	234	2	0	0	0	0	0
Redfish	Reference	235	2	0	0	0	0	0
Redfish	Reference	236	2	1	0	0	0	0
Redfish	Reference	237	2	1	0	0	1	0
Redfish	Reference	238	2	0	1	1	0	0
Redfish	Reference	245	2	0	0	0	0	0
Redfish	Reference	246	2	1	0	1	0	0
Redfish	Reference	247	3	0	0	0	0	0
Redfish	Reference	248	2	0	0	0	0	0
Saithe	Reference	203	2	0	0	0	0	0
Saithe	Reference	204	2	1	0	0	0	0
Saithe	Reference	205	2	0	0	1	0	0
Saithe	Reference	206	1	1	0	0	0	0
Saithe	Reference	207	1	0	0	0	0	1
Saithe	Reference	208	2	1	0	0	0	1
Saithe	Reference	209	2	1	0	0	0	0
Saithe	Reference	210	2	1	0	0	0	0
Saithe	Reference	211	2	0	0	0	0	0
Saithe	Reference	212	2	1	0	0	1	0
Saithe	Reference	220	1	1	0	0	0	0
Saithe	Reference	221	2	0	0	0	0	0
Tusk	Reference	222	2	0	0	0	0	0
Tusk	Reference	223	2	1	0	0	0	0
Tusk	Reference	224	1	1	0	0	0	0
Tusk	Reference	225	2	0	0	0	0	0
Tusk	Reference	226	1	0	0	0	0	0
Tusk	Reference	227	1	1	0	0	0	0
Tusk	Reference	242	2	0	0	0	0	0
Tusk	Reference	243	1	0	0	0	0	0
Tusk	Reference	256	2	0	0	0	0	0
Tusk	Reference	257	2	0	0	0	0	0
Tusk	Reference	270	2	1	0	1	0	0
Tusk	Reference	271	1	1	0	0	0	0
Tusk	Reference	272	2	0	0	0	1	0
Tusk	Reference	273	2	0	0	0	0	0
Tusk	Reference	274	2	0	0	0	0	0

Table C6. Gill histopathology data

Hypertrophy and hyperplasia of gill epithelium	0-3	0-absent
		1-area affected
		2-some areas affected
		3-distributed through the whole sampled tissue
Fusion and disorganisation of secondary gill lamellae	0-2	0-absent
		1-sporadic/small area affected
		2-some areas affected
Necrosis and cell degeneration	0-2	0-absent
		1-sporadic
		2-multiple/widespread
Inflammatory changes	0-2	0-absent
		1-sporadic
		2-multiple/widespread
Parasites	0-1	0-absent
		1-present

Species	Station	Sample #	Hypertrophy and hyperplasia of gill epithelium	Fusion and disorganisation of secondary gill lamellae	Necrosis and cell degeneration	Inflammatory changes	Parasites
tusk	Platform	110	0	0	0	0	0
tusk	Platform	101	1	1	0	1	0
tusk	Platform	107	0	1	0	0	0
tusk	Platform	114	1	1	0	0	0
tusk	Platform	118	1	1	0	1	0
tusk	Platform	132	1	0	0	1	0
tusk	Platform	133	1	0	1	1	0
tusk	Platform	134	1	0	0	1	0
tusk	Platform	135	1	0	0	0	0
tusk	Platform	141	1	1	0	1	0
tusk	Platform	142	0	0	0	0	0
tusk	Platform	143	0	0	0	0	0
tusk	Platform	154	0	1	1	1	0
tusk	Platform	172	0	0	0	0	0
tusk	Platform	173	0	1	0	1	0
ling	Platform	102	0	0	0	1	0
ling	Platform	103	1	1	0	1	0
ling	Platform	104	0	0	1	0	0
ling	Platform	111	0	0	0	0	0
ling	Platform	112	0	0	0	0	0
ling	Platform	119	1	0	0	0	0
ling	Platform	122	0	1	0	0	0
ling	Platform	130	1	1	0	1	0
ling	Platform	136	0	1	0	1	0
ling	Platform	137	0	0	1	0	0
ling	Platform	144	0	0	1	0	0
ling	Platform	147	0	0	0	0	0
ling	Platform	148	1	1	0	0	0
ling	Platform	150	0	1	0	0	0
ling	Platform	153	1	1	0	0	0
saithe	Platform	160	1	0	0	0	0
saithe	Platform	161	1	0	0	0	0
saithe	Platform	162	1	0	0	0	0
saithe	Platform	163	1	1	0	0	0
saithe	Platform	164	1	0	1	0	0
saithe	Platform	165	1	0	1	0	0
saithe	Platform	166	0	0	1	1	0
saithe	Platform	167	0	0	0	0	0
saithe	Platform	168	0	0	1	1	0
saithe	Platform	169	0	0	0	1	0
saithe	Platform	170	0	0	1	0	0
saithe	Platform	171	0	1	0	0	0
redfish	Platform	105	0	1	0	0	0

redfish	Platform	108	1	0	1	0	0
redfish	Platform	109	0	0	0	1	0
redfish	Platform	113	0	0	0	0	0
redfish	Platform	115	1	0	1	0	0
redfish	Platform	116	0	0	0	1	0
redfish	Platform	117	0	0	1	0	0
redfish	Platform	120	1	1	0	2	0
redfish	Platform	121	0	0	0	1	0
redfish	Platform	123	0	0	1	0	0
redfish	Platform	124	0	0	0	1	0
redfish	Platform	125	1	0	0	0	0
redfish	Platform	126	0	1	0	1	0
redfish	Platform	127	0	1	1	1	0
redfish	Platform	128	0	1	1	1	0
Ling	Reference	201	1	0	0	1	0
Ling	Reference	202	0	0	0	1	0
Ling	Reference	240	0	1	0	1	0
Ling	Reference	244	1	0	0	1	0
redfish	Reference	228	1	0	1	0	0
redfish	Reference	229	1	0	1	1	0
redfish	Reference	230	1	0	0	0	0
redfish	Reference	231	1	0	0	0	0
redfish	Reference	232	1	0	0	1	0
redfish	Reference	233	0	1	1	1	0
redfish	Reference	234	1	0	0	0	0
redfish	Reference	235	1	0	0	0	0
redfish	Reference	236	0	1	0	0	0
redfish	Reference	237	1	1	0	0	0
redfish	Reference	238	1	1	1	1	0
redfish	Reference	245	1	1	0	0	0
redfish	Reference	246	1	0	0	1	0
redfish	Reference	247	1	0	0	0	0
redfish	Reference	248	0	0	0	0	0
saithe	Reference	203	1	0	0	0	0
saithe	Reference	204	0	1	0	0	0
saithe	Reference	205	0	0	0	1	0
saithe	Reference	206	0	1	0	0	0
saithe	Reference	207	0	0	0	0	0
saithe	Reference	208	1	1	0	0	1
saithe	Reference	209	0	0	0	0	0
saithe	Reference	210	1	0	0	0	0
saithe	Reference	211	0	1	0	0	0
saithe	Reference	212	1	1	0	0	0
saithe	Reference	220	0	1	0	0	0
saithe	Reference	221	1	0	0	0	0
tusk	Reference	222	0	0	0	0	0
tusk	Reference	223	0	1	0	0	0
tusk	Reference	224	0	1	0	0	0
tusk	Reference	225	1	0	0	0	0
tusk	Reference	226	0	0	0	0	0
tusk	Reference	227	1	1	0	0	0
tusk	Reference	242	0	0	0	0	0
tusk	Reference	243	1	0	0	0	0
tusk	Reference	256	0	0	0	0	0
tusk	Reference	257	1	0	0	0	0
tusk	Reference	270	0	0	0	1	0
tusk	Reference	271	0	1	0	0	0
tusk	Reference	272	0	0	0	0	0
tusk	Reference	273	0	0	0	0	0
tusk	Reference	274	0	0	0	0	0