

Table S2-1. Concentrations of radionuclides in the sediments collected in the waters off Miyagi, Fukushima, and Ibaraki Prefectures in Japan

Stn.	Sampling Date	Cs-134 (Bq/kg)	Cs-137 (Bq/kg)	Stn.	Sampling Date	Cs-134 (Bq/kg)	Cs-137 (Bq/kg)
A1	2011/5/11	5.7 ± 0.27	7.1 ± 0.32	G1	2011/5/9	25 ± 0.35	27 ± 0.27
	2011/5/26	8.3 ± 0.3	8.6 ± 0.27		2011/5/23	53 ± 0.77	60 ± 0.6
	2011/6/10	7.9 ± 0.3	9 ± 0.28		2011/6/6	39 ± 0.71	41 ± 0.56
	2011/6/23	11 ± 0.18	11 ± 0.21		2011/6/20	79 ± 0.61	89 ± 0.7
	2011/7/8	4.4 ± 0.19	5 ± 0.24		2011/7/5	36 ± 0.67	42 ± 0.53
	2011/7/31	6.7 ± 0.21	8.1 ± 0.27		2011/7/28	36 ± 0.34	41 ± 0.39
	2011/9/15	6.8 ± 0.16	8.4 ± 0.22		2011/9/10	43 ± 0.44	52 ± 0.61
	2011/10/17	3.7 ± 0.37	4.7 ± 0.27		2011/10/23	83 ± 0.61	98 ± 0.62
	2011/12/15	4.9 ± 0.29	7.5 ± 0.25		2011/12/9	76 ± 0.54	92 ± 0.56
	2012/2/19	5.8 ± 0.15	8.7 ± 0.2		2012/2/12	59 ± 0.47	74 ± 0.52
a1	2011/9/15	9.5 ± 0.17	12 ± 0.22	G3	2011/9/10	31 ± 0.29	38 ± 0.35
	2011/10/17	13 ± 0.2	16 ± 0.25		2011/10/24	22 ± 0.26	28 ± 0.33
	2011/12/16	9.2 ± 0.16	12 ± 0.21		2011/12/8	27 ± 0.24	36 ± 0.28
	2012/2/20	11 ± 0.17	15 ± 0.24		2012/2/10	32 ± 0.29	44 ± 0.35
A3	2011/9/15	7.3 ± 0.18	9.1 ± 0.19	G4	2011/9/10	20 ± 0.31	25 ± 0.37
	2011/10/17	5.7 ± 0.16	7.4 ± 0.22		2011/10/24	31 ± 0.32	38 ± 0.36
	2011/12/15	20 ± 0.25	27 ± 0.32		2011/12/8	21 ± 0.29	27 ± 0.35
	2012/2/19	3.4 ± 0.11	5.1 ± 0.16		2012/2/10	30 ± 0.34	43 ± 0.39
B1	2011/5/11	110 ± 0.59	110 ± 0.66	H1	2011/5/13	21 ± 0.35	24 ± 0.41
	2011/5/25	72 ± 0.47	78 ± 0.53		2011/5/27	53 ± 0.75	56 ± 0.58
	2011/6/9	15 ± 0.23	18 ± 0.27		2011/6/10	46 ± 0.74	51 ± 0.58
	2011/6/22	25 ± 0.29	29 ± 0.34		2011/6/25	36 ± 0.56	45 ± 0.44
	2011/7/7	24 ± 0.28	26 ± 0.33		2011/7/5	37 ± 0.4	42 ± 0.47
	2011/7/31	29 ± 0.3	34 ± 0.35		2011/7/25	44 ± 0.39	49 ± 0.53
	2011/9/14	24 ± 0.22	29 ± 0.27		2011/9/9	59 ± 0.47	72 ± 0.49
	2011/10/18	35 ± 0.26	44 ± 0.32		2011/10/23	70 ± 0.44	86 ± 0.55
	2011/12/16	8.8 ± 0.2	13 ± 0.14		2011/12/7	49 ± 0.34	65 ± 0.46
	2012/2/17	9.9 ± 0.15	14 ± 0.19		2012/2/9	63 ± 0.44	87 ± 0.52
B3	2011/9/14	420 ± 0.89	490 ± 0.96	H3	2011/9/9	39 ± 0.44	47 ± 0.4
	2011/10/18	320 ± 1.2	380 ± 1.4		2011/10/24	30 ± 0.3	37 ± 0.37
	2011/12/14	280 ± 1.1	360 ± 1.1		2011/12/7	57 ± 0.4	75 ± 0.45
	2012/2/17	290 ± 0.92	390 ± 1.1		2012/2/10	40 ± 0.32	56 ± 0.39
C1	2011/5/11	88 ± 0.42	94 ± 0.45	I0	2011/9/9	210 ± 0.76	240 ± 0.87
	2011/5/25	54 ± 0.32	58 ± 0.35		2011/10/25	200 ± 0.8	240 ± 0.96
	2011/6/9	42 ± 0.33	46 ± 0.45		2011/12/7	220 ± 0.89	270 ± 1.1
	2011/6/22	19 ± 0.24	20 ± 0.29		2012/2/9	190 ± 0.77	260 ± 1
	2011/7/7	23 ± 0.26	26 ± 0.32	I1	2011/5/13	10 ± 0.23	12 ± 0.27
	2011/7/30	43 ± 0.29	49 ± 0.32		2011/5/27	57 ± 0.44	62 ± 0.39
	2011/9/14	18 ± 0.31	21 ± 0.27		2011/6/9	30 ± 0.41	33 ± 0.32
	2011/10/19	23 ± 0.22	28 ± 0.27		2011/6/23	19 ± 0.34	22 ± 0.42
	2011/12/13	14 ± 0.11	19 ± 0.13		2011/7/6	45 ± 0.48	49 ± 0.55
	2012/2/17	11 ± 0.13	15 ± 0.16		2011/7/28	64 ± 0.6	72 ± 0.44
					2011/9/9	110 ± 0.57	130 ± 0.65
					2011/10/25	110 ± 0.92	140 ± 0.71
					2011/12/7	250 ± 1	310 ± 1.3
					2012/2/9	210 ± 0.85	280 ± 1.1
C3	2011/9/14	140 ± 0.6	180 ± 0.47	I3	2011/9/9	16 ± 0.19	20 ± 0.22
	2011/10/18	68 ± 0.43	83 ± 0.52		2011/10/25	20 ± 0.27	26 ± 0.31
	2011/12/13	66 ± 0.39	87 ± 0.48		2011/12/7	20 ± 0.22	27 ± 0.27
	2012/2/20	63 ± 0.37	85 ± 0.44		2012/2/9	17 ± 0.22	23 ± 0.25
D1	2011/5/10	300 ± 1.6	320 ± 1.2	J1	2011/5/13	49 ± 0.71	50 ± 0.54
	2011/5/24	180 ± 0.9	210 ± 1		2011/5/25	26 ± 0.44	28 ± 0.37
	2011/6/7	140 ± 1.2	160 ± 0.93		2011/6/8	230 ± 0.91	250 ± 0.68
	2011/6/21	160 ± 0.65	170 ± 0.71		2011/6/22	120 ± 0.6	130 ± 0.67
	2011/7/6	100 ± 0.55	110 ± 0.61	J1	2011/7/6	180 ± 0.64	200 ± 0.7
	2011/7/30	140 ± 1.1	150 ± 0.84				
	2011/9/13	130 ± 0.61	170 ± 0.74				
	2011/9/13	280 ± 0.71	330 ± 0.78				
	2011/9/13	160 ± 1	190 ± 0.76				

Stn.	Sampling Date	Cs-134 (Bq/kg)	Cs-137 (Bq/kg)	Stn.	Sampling Date	Cs-134 (Bq/kg)	Cs-137 (Bq/kg)
D1	2011/9/13	180 ± 0.69	210 ± 0.79	J1	2011/7/27	160 ± 0.71	180 ± 0.8
	2011/9/13	420 ± 1	500 ± 1		2011/9/8	440 ± 1.1	520 ± 1.3
	2011/9/13	500 ± 1.7	580 ± 1.3		2011/10/26	47 ± 0.26	57 ± 0.3
	2011/10/19	150 ± 0.77	190 ± 0.76		2011/12/6	27 ± 0.16	35 ± 0.19
	2011/12/13	140 ± 0.6	180 ± 0.72		2012/2/6	44 ± 0.21	60 ± 0.25
	2012/2/21	76 ± 0.36	100 ± 0.44				
D3	2011/9/13	30 ± 0.18	35 ± 0.2	J2	2011/9/8	24 ± 0.26	28 ± 0.3
	2011/10/19	39 ± 0.3	49 ± 0.36		2011/10/26	22 ± 0.47	28 ± 0.4
	2011/12/14	33 ± 0.23	41 ± 0.27		2011/12/6	31 ± 0.36	40 ± 0.34
	2012/2/21	25 ± 0.2	34 ± 0.2		2012/2/5	36 ± 0.26	48 ± 0.37
E1	2011/5/10	82 ± 0.47	85 ± 0.46	J3	2011/9/8	28 ± 0.31	34 ± 0.36
	2011/5/24	33 ± 0.4	37 ± 0.46		2011/10/25	27 ± 0.23	35 ± 0.37
	2011/6/7	80 ± 0.89	88 ± 0.7		2011/12/6	37 ± 0.3	48 ± 0.42
	2011/6/21	18 ± 0.21	20 ± 0.32		2012/2/5	24 ± 0.32	33 ± 0.41
	2011/7/6	200 ± 0.92	210 ± 1	K1	2011/5/14	7 ± 0.12	7.5 ± 0.11
	2011/7/29	87 ± 0.58	100 ± 0.44		2011/5/25	4.9 ± 0.17	5.8 ± 0.22
	2011/9/11	120 ± 0.62	150 ± 0.75		2011/6/7	51 ± 0.65	53 ± 0.5
	2011/10/22	160 ± 0.81	200 ± 0.79		2011/6/22	63 ± 0.37	68 ± 0.39
	2011/12/10	130 ± 0.67	170 ± 0.86		2011/7/7	53 ± 0.3	60 ± 0.33
	2012/2/13	110 ± 0.64	140 ± 0.72		2011/7/26	110 ± 0.49	120 ± 0.54
E3	2011/9/11	34 ± 0.4	43 ± 0.37		2011/9/7	28 ± 0.24	34 ± 0.28
	2011/10/22	49 ± 0.4	64 ± 0.44		2011/10/14	25 ± 0.21	30 ± 0.24
	2011/12/10	36 ± 0.33	47 ± 0.38		2011/12/5	14 ± 0.3	18 ± 0.26
	2012/2/13	23 ± 0.26	32 ± 0.32		2012/2/5	6.6 ± 0.26	9 ± 0.23
E5	2011/9/13	7.4 ± 0.33	9.6 ± 0.26	K2	2011/9/7	18 ± 0.22	21 ± 0.26
	2011/10/19	4.3 ± 0.17	5.8 ± 0.19		2011/10/13	19 ± 0.45	23 ± 0.41
	2011/12/14	9.9 ± 0.19	14 ± 0.22		2011/12/5	14 ± 0.17	18 ± 0.21
	2012/2/16	1.6 ± 0.12	2.7 ± 0.14		2012/2/4	13 ± 0.2	18 ± 0.19
F1	2011/5/9	48 ± 0.38	50 ± 0.42	L1	2011/5/14	1.6 ± 0.086	1.9 ± 0.09
	2011/5/23	63 ± 0.62	67 ± 0.47		2011/5/26	1.2 ± 0.1	1.7 ± 0.13
	2011/6/6	68 ± 0.45	73 ± 0.49		2011/6/6	23 ± 0.18	26 ± 0.28
	2011/6/20	68 ± 0.77	77 ± 0.62		2011/6/20	22 ± 0.36	25 ± 0.35
	2011/7/5	68 ± 0.53	79 ± 0.4		2011/7/9	19 ± 0.4	21 ± 0.32
	2011/7/29	65 ± 0.52	77 ± 0.6		2011/7/26	13 ± 0.21	15 ± 0.17
	2011/9/11	84 ± 0.52	97 ± 0.59		2011/9/7	7.5 ± 0.13	8.5 ± 0.14
	2011/10/23	61 ± 0.42	77 ± 0.52		2011/10/13	7.6 ± 0.091	9.4 ± 0.14
	2011/12/9	91 ± 0.54	120 ± 0.59		2011/12/5	5 ± 0.12	6.6 ± 0.15
	2012/2/12	59 ± 0.42	81 ± 0.57		2012/2/4	5.3 ± 0.13	7.2 ± 0.17
F3	2011/9/11	41 ± 0.34	50 ± 0.41	L3	2011/9/7	11 ± 0.2	14 ± 0.22
	2011/10/22	51 ± 0.41	65 ± 0.45		2011/10/13	18 ± 0.31	22 ± 0.32
	2011/12/9	45 ± 0.36	59 ± 0.41		2011/12/5	16 ± 0.23	21 ± 0.3
	2012/2/13	46 ± 0.32	64 ± 0.45		2012/2/4	9.1 ± 0.18	12 ± 0.25
G0	2011/9/10	170 ± 1.1	200 ± 0.84				
	2011/10/23	200 ± 0.8	230 ± 0.94				
	2011/12/9	160 ± 0.8	200 ± 1.2				
	2012/2/11	140 ± 0.71	190 ± 0.78				

Radioactivities listed above were corrected for decay for t_r

ND: not detected