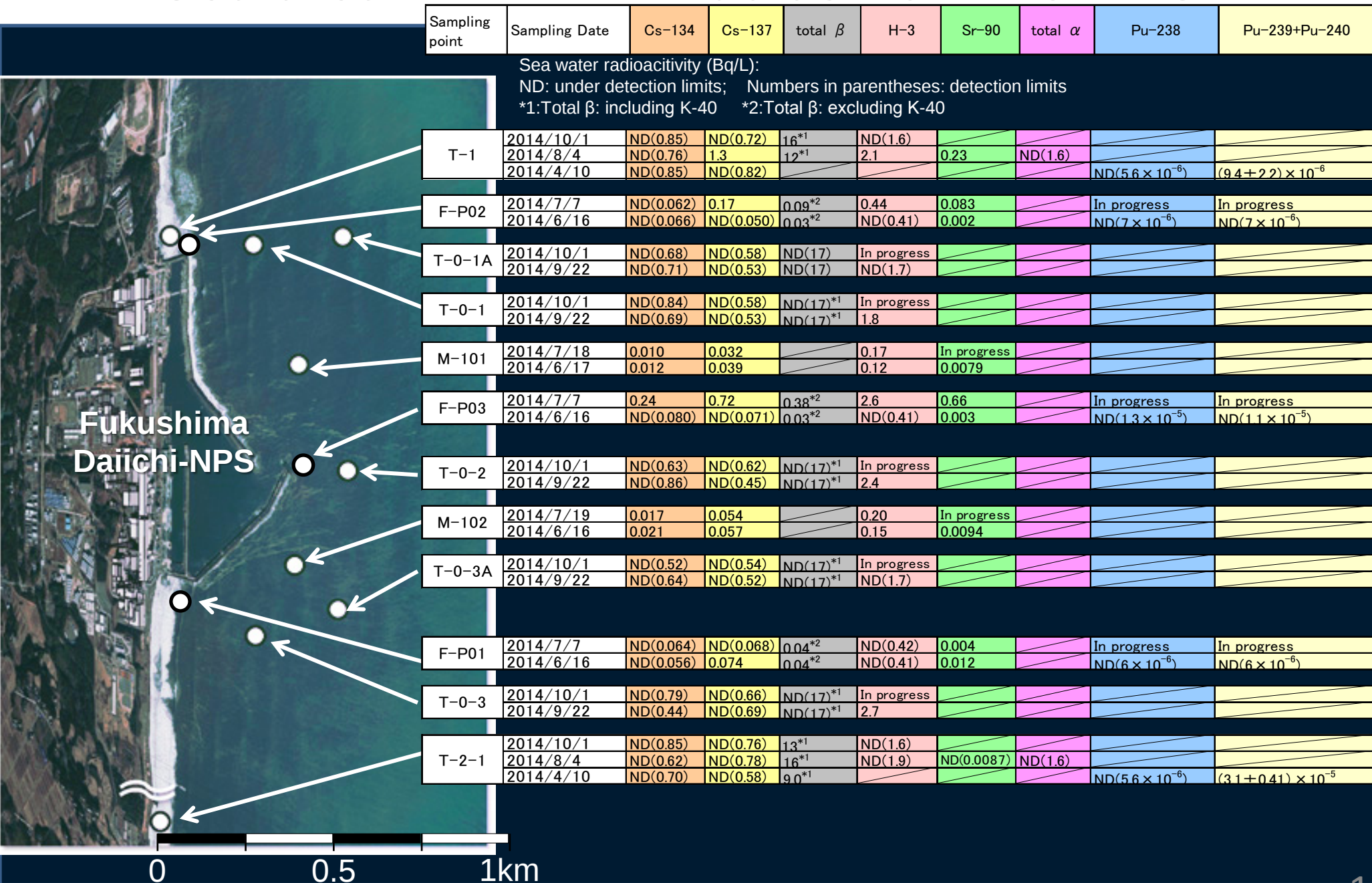


Sea Area Monitoring

October 14, 2014

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS



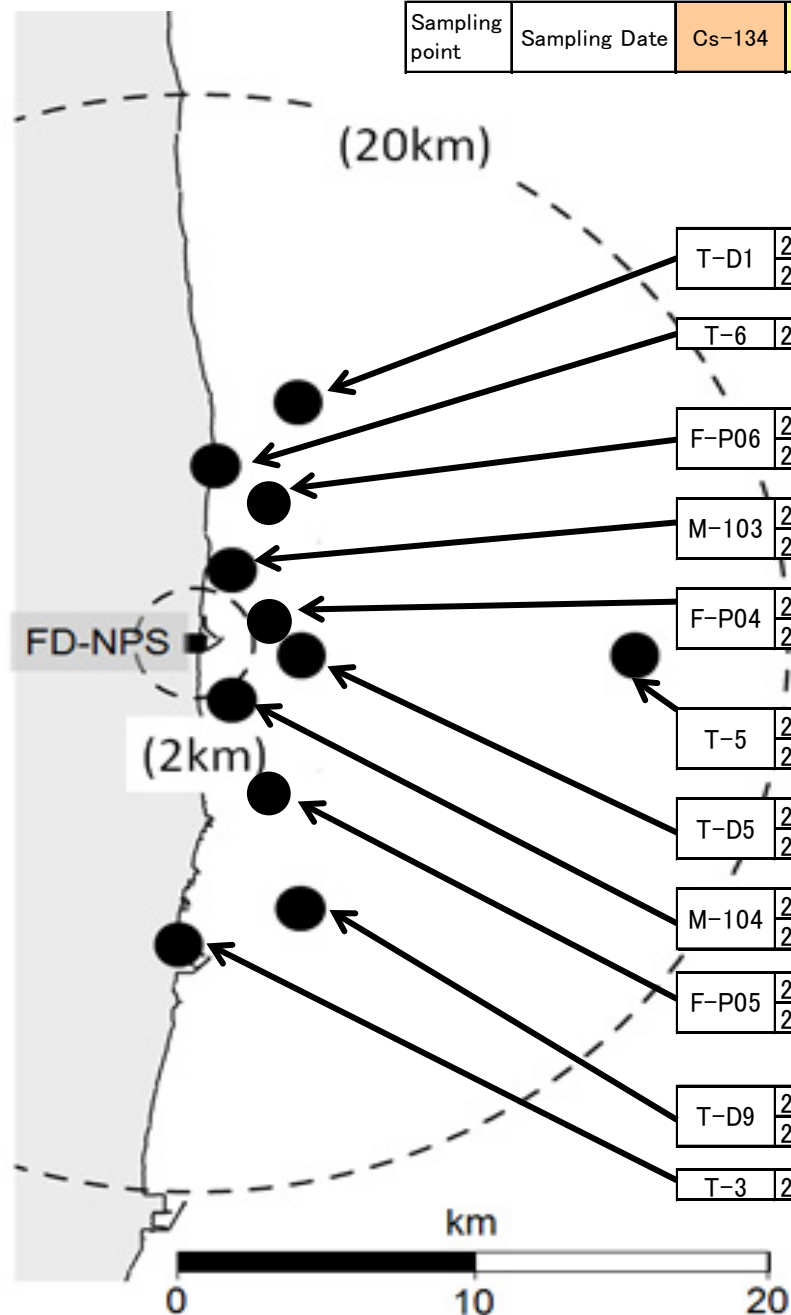
Sea area between 2-20km radius from the NPS (1)

Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+Pu-240	S	S:2m below sea level
										Depth(m) from sea level	

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

*1: Total β : including K-40 *2: Total β : excluding K-40



T-D1	2014/8/4	ND(0.0015)	0.0059	ND(17)* ¹	ND(0.32)	ND(0.01)	ND(2.0)			S
	2014/4/1	0.0027	0.0086	ND(17)* ¹	ND(0.30)	ND(0.009)	ND(1.9)	ND(5.3×10^{-6})	(5.7 ± 1.7) $\times 10^{-6}$	S

T-6	2014/8/19	0.0095	0.033	ND(17)* ¹	ND(0.32)					S
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F-P06	2014/7/7	ND(0.056)	ND(0.051)	0.02* ²	ND(0.42)	0.003		In progress	In progress	S
	2014/6/16	ND(0.055)	ND(0.055)	0.03* ²	ND(0.40)	0.001		ND(1.4×10^{-5})	ND(1.3×10^{-5})	S

M-103	2014/7/18	0.0038	0.012		0.12	In progress				0.5m
	2014/6/17	0.010	0.033		0.13	0.0019				0.5m

F-P04	2014/7/7	ND(0.065)	ND(0.065)	0.04* ²	ND(0.42)	0.004		In progress	In progress	S
	2014/6/16	ND(0.074)	ND(0.053)	0.03* ²	ND(0.41)	0.004		ND(6×10^{-6})	6×10^{-6}	S

T-5	2014/8/5	ND(0.0017)	0.0037	ND(17)* ¹	ND(0.32)	ND(0.01)	ND(2.0)			S
	2014/4/2	ND(0.0014)	0.0044	ND(17)* ¹	ND(0.30)	ND(0.009)	ND(1.9)	ND(5.5×10^{-6})	(8.3 ± 2.1) $\times 10^{-6}$	S

T-D5	2014/8/4	0.0019	0.0079	ND(17)* ¹	ND(0.32)	ND(0.01)	ND(2.0)			S
	2014/4/1	0.0058	0.012	ND(17)* ¹	ND(0.30)	ND(0.009)	ND(1.9)	ND(5.2×10^{-6})	ND(4.5×10^{-6})	S

M-104	2014/7/19	0.0048	0.017		0.18	In progress				0.5m
	2014/6/16	0.029	0.081		0.19	0.030				0.5m

F-P05	2014/7/7	ND(0.056)	ND(0.059)	0.04* ²	ND(0.41)	0.006		In progress	In progress	S
	2014/6/16	ND(0.060)	ND(0.076)	0.03* ²	ND(0.41)	0.001		ND(6×10^{-6})	6×10^{-6}	S

T-D9	2014/8/5	0.0021	0.0075	ND(17)* ¹	ND(0.31)	ND(0.01)	ND(2.0)			S
	2014/4/2	0.0041	0.010	ND(16)* ¹	ND(0.30)	ND(0.008)	ND(1.9)	ND(4.7×10^{-6})	ND(4.5×10^{-6})	S

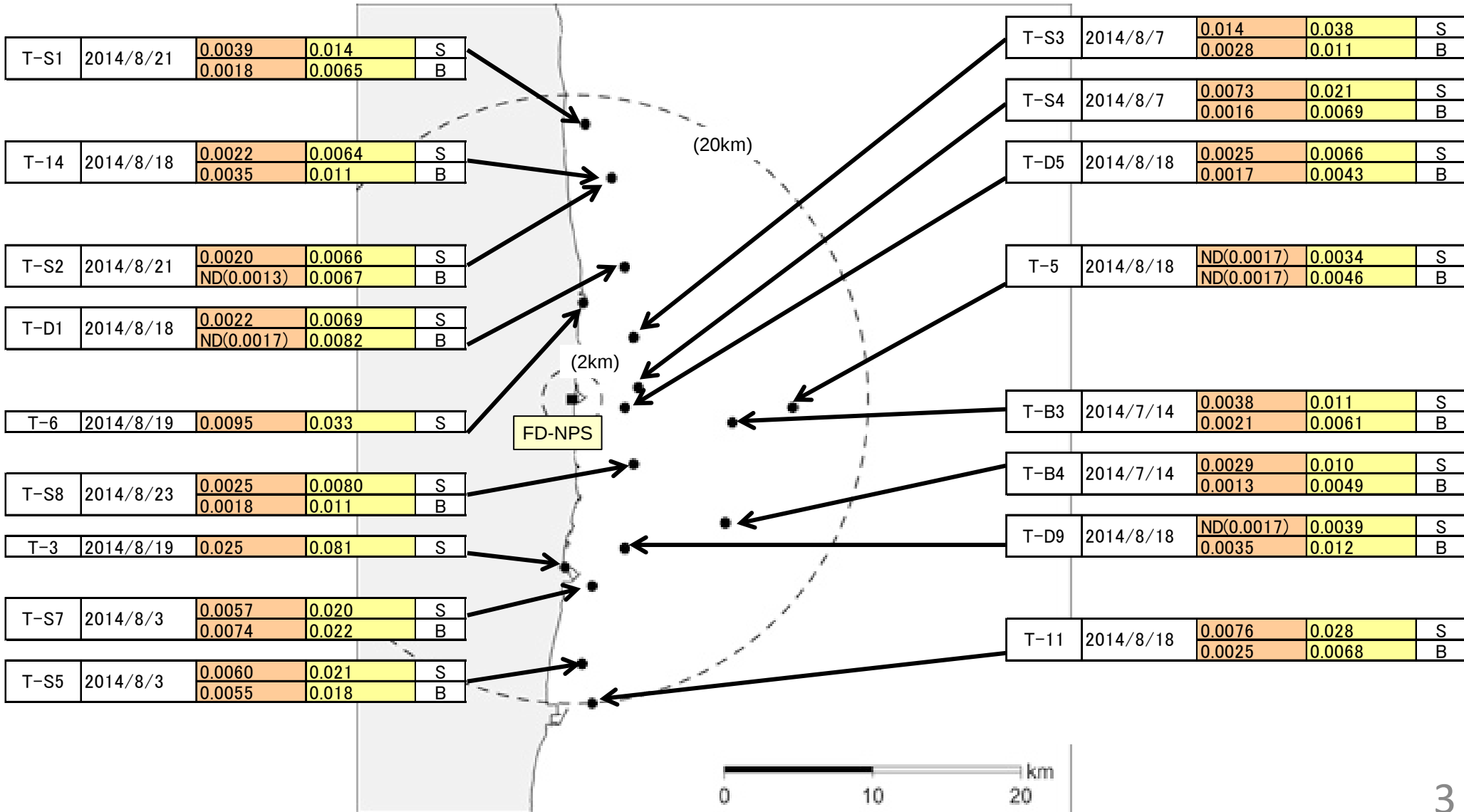
T-3	2014/8/19	0.025	0.081	ND(17)* ¹	0.40					S
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Sea area between 2-20km radius from the NPS (2)

Sampling point	Sampling Date	Cs-134	Cs-137	S/B	S:2m below sea level B:2-3m above sea bottom
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Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

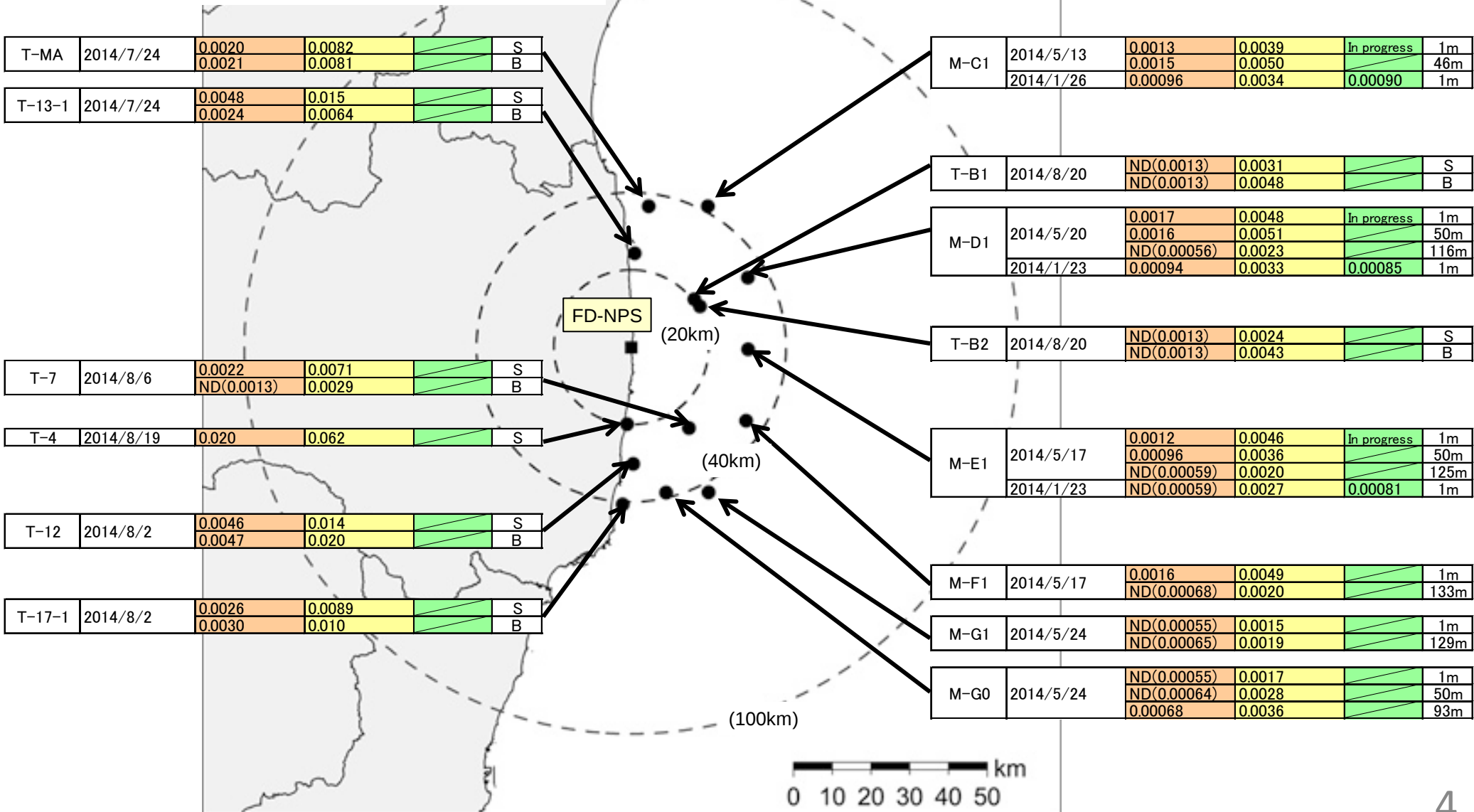


Sea area between 20-100km radius from the NPS(1)

Sampling point	Sampling Date	Cs-134	Cs-137	Sr-90	S/B	S:2m below sea level	B:2-3m above sea bottom
					Depth(m) from sea level		

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits



Sea area between 20-100km radius from the NPS(2)

Sampling point	Sampling Date	Cs-134	Cs-137	Total β *	H-3	Sr-90	S/B
							S:2m below sea level B:2-3m above sea bottom
Depth(m) from sea level							

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

*Total β : excluding K-40

M-C3	2014/8/16	In progress	In progress	0.021	In progress	In progress	1m
		0.0017	0.0063	0.024	0.11	In progress	1m
	2014/5/13	0.00071	0.0023				50m
		ND(0.00061)	0.0015				124m
	2014/1/19	0.00086	0.0024	0.021	0.045	0.0011	1m

T-22	2014/7/24	0.0025	0.0079				S
		0.0023	0.0086				B

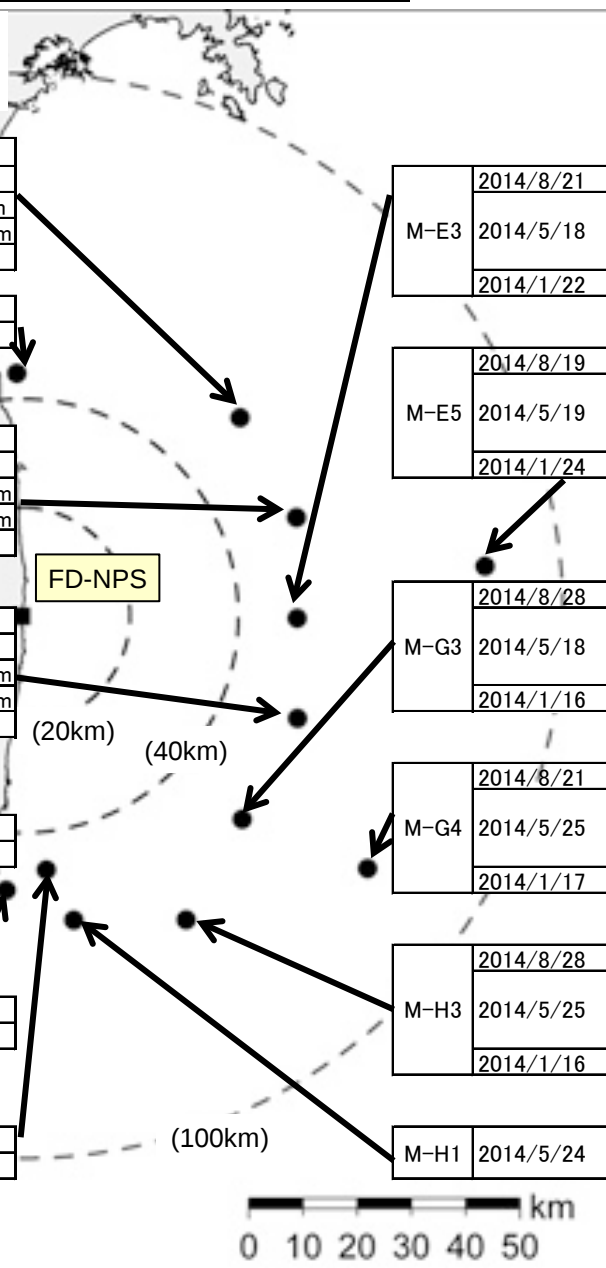
M-D3	2014/8/23	In progress	In progress	0.025	In progress	In progress	1m
		0.0017	0.0061	0.018	0.080	In progress	1m
	2014/5/16	ND(0.00061)	0.0020				100m
		ND(0.00061)	0.0014				210m
	2014/1/22	ND(0.00064)	0.0025	0.021	0.073	0.00099	1m

M-F3	2014/8/21	In progress	In progress	0.026	In progress	In progress	1m
		0.0016	0.0048	0.027	0.089	In progress	1m
	2014/5/18	ND(0.00057)	0.0015				100m
		ND(0.00066)	0.0015				222m
	2014/1/22	ND(0.00058)	0.0020	0.027	0.066	0.0011	1m

T-18	2014/8/6	0.0027	0.0074				S
		0.0026	0.0073				B

T-20	2014/8/2	0.0015	0.0068				S
		0.0019	0.0077				B

T-M10	2014/8/6	ND(0.0013)	0.0023				S
		ND(0.0013)	0.0038				B



M-E3	2014/8/21	In progress	In progress	0.029	In progress	In progress	1m
		0.0015	0.0038	0.024	0.10	In progress	1m
	2014/5/18	ND(0.00064)	0.0019				100m
		ND(0.00064)	0.0014				218m
	2014/1/22	ND(0.00055)	0.0018	0.030	0.056	0.00099	1m

M-E5	2014/8/19	In progress	In progress	0.025	In progress	In progress	1m
		ND(0.00059)	0.0015	0.021	0.076	In progress	1m
	2014/5/19	ND(0.00056)	0.0018				100m
		ND(0.00075)	0.00062				522m
	2014/1/24	ND(0.00071)	0.0024	0.031	0.055	0.0011	1m

M-G3	2014/8/28	In progress	In progress	0.022	In progress	In progress	1m
		0.0011	0.0029	0.027	0.076	In progress	1m
	2014/5/18	ND(0.00056)	0.0016				100m
		ND(0.00064)	0.0016				196m
	2014/1/16	ND(0.00071)	0.0017	0.021	0.097	0.0011	1m

M-G4	2014/8/21	In progress	In progress	0.024	In progress	In progress	1m
		ND(0.00063)	0.0028	0.024	0.059	In progress	1m
	2014/5/25	ND(0.00059)	0.0016				100m
		ND(0.00080)	0.00057				645m
	2014/1/17	ND(0.00063)	0.0019	0.023	0.063	0.0010	1m

M-H3	2014/8/28	In progress	In progress	0.025	In progress	In progress	1m
		ND(0.00060)	0.0021	0.020	0.084	In progress	1m
	2014/5/25	ND(0.00056)	0.0017				100m
		ND(0.00053)	0.0017				214m
	2014/1/16	ND(0.00087)	0.0018	0.025	0.077	0.0010	1m

M-H1	2014/5/24	0.0016	0.0049				1m
		ND(0.00059)	0.0020				121m

Sea area along and off the coast of Miyagi Prefecture

Sampling point	Sampling Date	Cs-134	Cs-137	Sr-90	S/M/B
					Depth(m) from sea level

S:2m below sea level

M:between 2m below sea level and 2-3m above sea bottom

B:2-3m above sea bottom

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

T-MG1	2014/8/18	ND(0.0021)	0.0056		S
		ND(0.0021)	0.0039		M
		ND(0.0021)	0.0033		B

T-MG4	2014/8/18	0.0014	0.0059		S
		ND(0.0024)	0.0040		M
		0.0019	0.0058		B

T-MG5	2014/8/18	ND(0.0024)	0.0058		S
		ND(0.0024)	0.0023		M
		ND(0.0024)	0.0058		B
	2014/7/1	ND(0.0016)	0.0044	ND(0.009)	S

T-MG6	2014/8/18	0.0022	0.0069		S
		ND(0.0024)	0.0039		M
		ND(0.0024)	0.0043		B

M-B1	2014/5/13	0.0023	0.0083		1m
		0.0021	0.0067		36m

M-B3	2014/5/14	0.0014	0.0060	In progress	1m
		0.0017	0.0054		50m
		0.0030	0.0094		105m
	2014/1/24	ND(0.00099)	0.0021	0.0012	1m

T-MG0	2014/8/18	ND(0.0021)	0.0018		S
		ND(0.0021)	0.0021		M
		ND(0.0021)	0.0020		B

M-A1	2014/5/15	ND(0.00066)	0.0017		1m
		ND(0.00068)	0.0017		100m
		ND(0.00059)	0.0019		194m

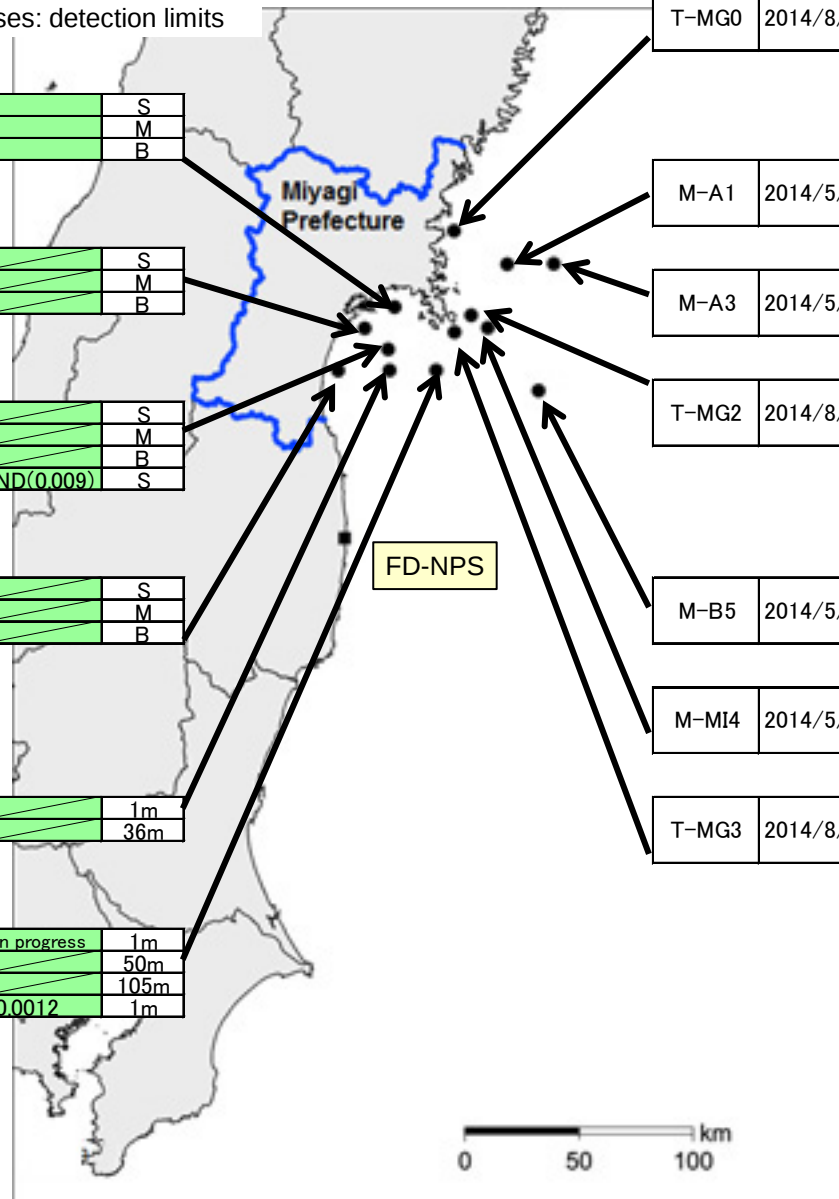
M-A3	2014/5/15	ND(0.00073)	0.0019		1m
		ND(0.00061)	0.0013		100m
		ND(0.00059)	0.00086		476m

T-MG2	2014/8/18	ND(0.0021)	0.0024		S
		ND(0.0021)	0.0018		M
		ND(0.0021)	0.0017		B

M-B5	2014/5/16	ND(0.00056)	0.0013		1m
		ND(0.00054)	0.0016		100m
		ND(0.00074)	0.0015		348m

M-MI4	2014/5/15	ND(0.00078)	0.0015		1m
		ND(0.00059)	0.0017		100m
		ND(0.00056)	0.0016		145m

T-MG3	2014/8/18	ND(0.0021)	0.0020		S
		ND(0.0021)	0.0020		M
		ND(0.0021)	0.0024		B



Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

Sampling point	Sampling Date	Cs-134	Cs-137	Sr-90	S/B	S:2m below sea level	B:2-3m above sea bottom
					Depth(m) from sea level		

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

T-Z	2014/8/19	ND(1.1)	ND(1.3)		S
		ND(1.1)	ND(1.3)		B

T-A	2014/8/19	ND(1.1)	ND(1.3)		S
		ND(1.1)	ND(1.3)		B

T-B	2014/8/20	ND(1.1)	ND(1.3)		S
		ND(1.1)	ND(1.3)		B

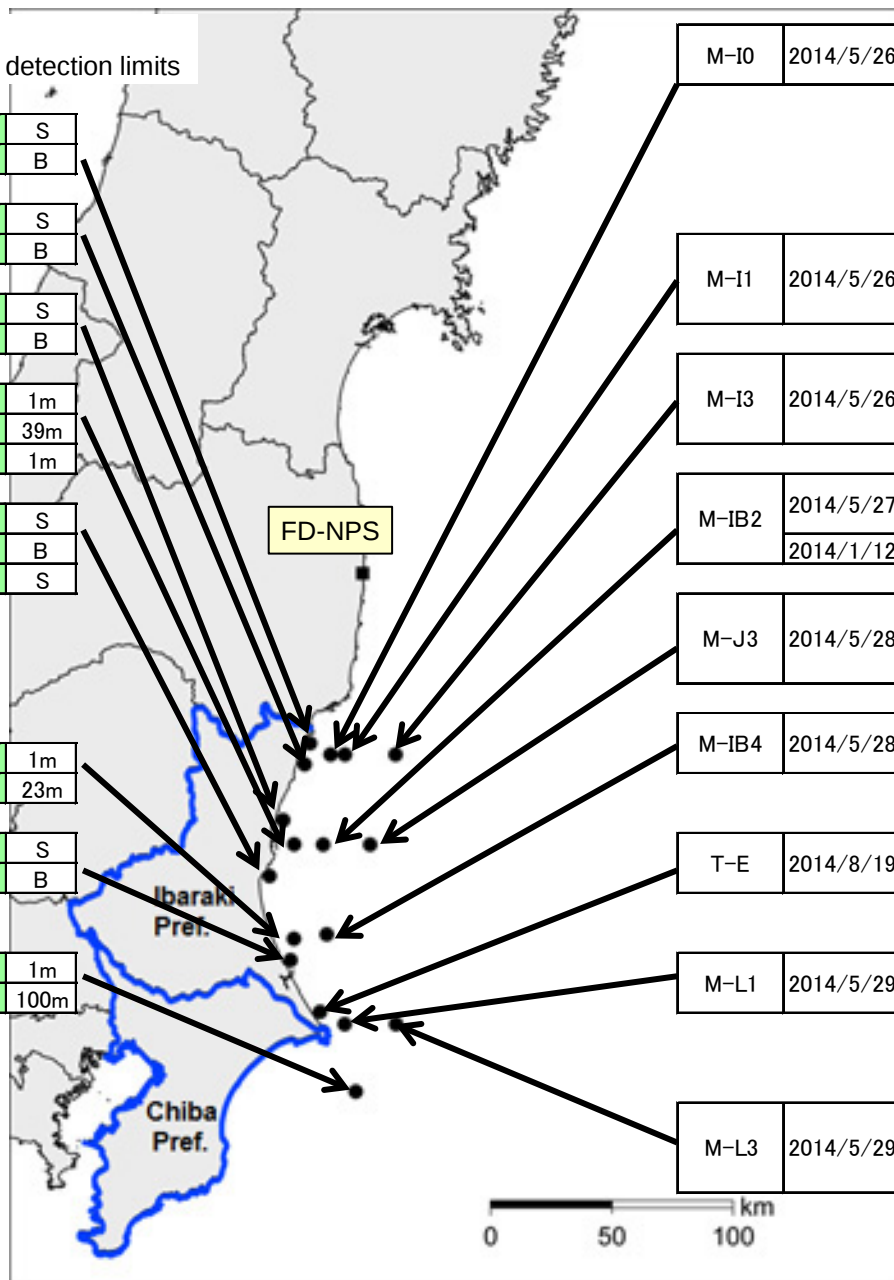
M-J1	2014/5/27	0.0015	0.0053	In progress	1m
		0.0015	0.0045		39m
	2014/1/13	0.0027	0.0076	0.00079	1m

T-C	2014/8/20	ND(1.1)	ND(1.3)		S
		ND(1.1)	ND(1.3)		B
	2014/7/8	ND(1.2)	ND(1.3)	ND(0.009)	S

M-K1	2014/5/27	0.00084	0.0035		1m
		0.0012	0.0040		23m

T-D	2014/8/19	ND(1.1)	ND(1.3)		S
		ND(1.1)	ND(1.3)		B

M-M1	2014/5/29	ND(0.00074)	0.0025		1m
		ND(0.00057)	0.0029		100m



M-I0	2014/5/26	0.0015	0.0054		1m
		0.0014	0.0046		63m

M-I1	2014/5/26	0.0015	0.0056		1m
		0.0027	0.0062		50m
		0.00070	0.0034		89m

M-I3	2014/5/26	ND(0.00079)	0.0022		1m
		ND(0.00059)	0.0017		100m
		ND(0.00074)	0.0019		170m

M-IB2	2014/5/27	0.0019	0.0076	In progress	1m
		ND(0.00075)	0.0025		104m
	2014/1/12	0.00092	0.0029	0.0011	1m

M-J3	2014/5/28	0.00084	0.0032		1m
		ND(0.00061)	0.0015		100m
		ND(0.00054)	0.00055		548m

M-IB4	2014/5/28	0.0017	0.0055		1m
		0.0012	0.0039		107m

T-E	2014/8/19	ND(1.1)	ND(1.3)		S
		ND(1.1)	ND(1.3)		B

M-L1	2014/5/29	ND(0.00062)	0.0030		1m
		0.00080	0.0032		34m

M-L3	2014/5/29	0.00062	0.0026		1m
		ND(0.00064)	0.0027		100m
		ND(0.00063)	0.0027		154m

Open sea off the coast of Eastern Japan

Sampling point	Sampling Date	Cs-134	Cs-137	Depth(m) from sea level
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Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

M-10	2014/6/18	ND(0.00054)	0.0020	1m
		ND(0.00073)	0.0017	100m
		ND(0.00052)	0.0013	200m
		ND(0.00058)	0.0011	300m
		ND(0.00051)	0.00059	500m

M-14	2014/6/19	ND(0.00056)	0.0022	1m
		ND(0.00057)	0.0018	100m
		ND(0.00053)	0.0016	200m
		ND(0.00058)	0.00093	300m
		ND(0.00059)	0.00054	500m

M-19	2014/6/20	0.00095	0.0033	1m
		ND(0.00057)	0.0020	100m
		ND(0.00063)	0.0014	200m
		ND(0.00053)	0.0012	300m
		ND(0.00057)	0.00086	500m

M-20	2014/6/21	0.00067	0.0026	1m
		ND(0.00059)	0.0028	100m
		ND(0.00073)	0.0024	200m
		ND(0.00057)	0.0015	300m
		ND(0.00055)	0.00070	500m

M-25	2014/6/24	ND(0.00057)	0.0016	1m
		ND(0.00055)	0.0019	100m
		0.00069	0.0033	200m
		0.00097	0.0043	300m
		ND(0.00060)	0.0023	500m

M-11	2014/6/18	0.00062	0.0030	1m
		0.00078	0.0028	100m
		ND(0.00052)	0.0020	200m
		ND(0.00054)	0.0014	300m
		ND(0.00059)	0.0012	500m

M-15	2014/6/19	ND(0.00056)	0.0025	1m
		ND(0.00055)	0.0021	100m
		ND(0.00060)	0.0017	200m
		ND(0.00052)	0.0012	300m
		ND(0.00061)	0.00080	500m

M-21	2014/6/21	ND(0.00057)	0.0020	1m
		ND(0.00056)	0.0029	100m
		0.00063	0.0032	200m
		ND(0.00065)	0.0021	300m
		ND(0.00053)	0.0015	500m

M-26	2014/6/23	ND(0.00056)	0.0022	1m
		ND(0.00069)	0.0031	100m
		0.00099	0.0038	200m
		0.0013	0.0047	300m
		0.00066	0.0032	500m

M-27	2014/6/22	ND(0.00057)	0.0028	1m
		ND(0.00070)	0.0027	100m
		0.0010	0.0033	200m
		ND(0.00056)	0.0035	300m
		0.0011	0.0051	500m

