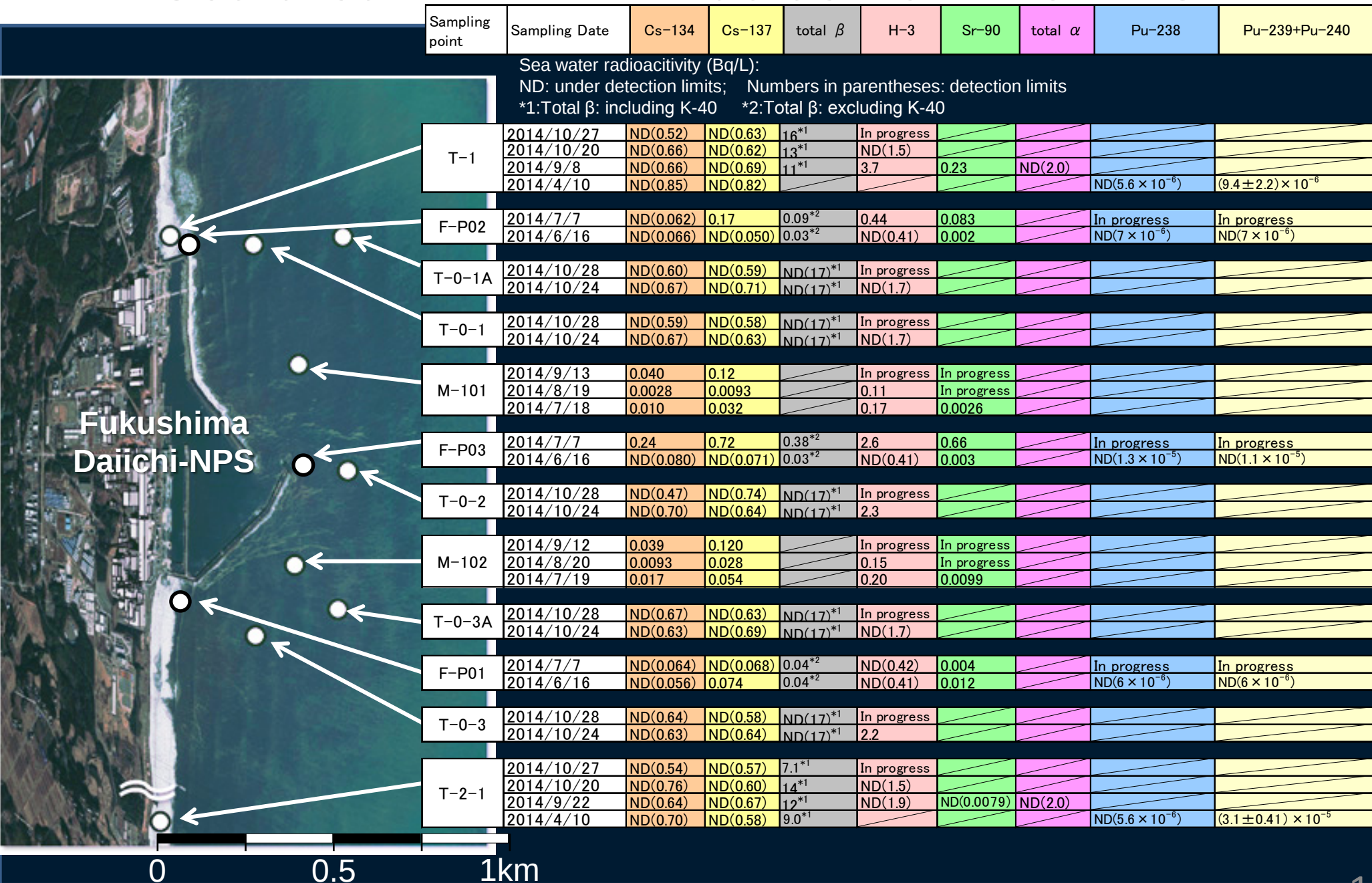


Sea Area Monitoring

November 11, 2014

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS



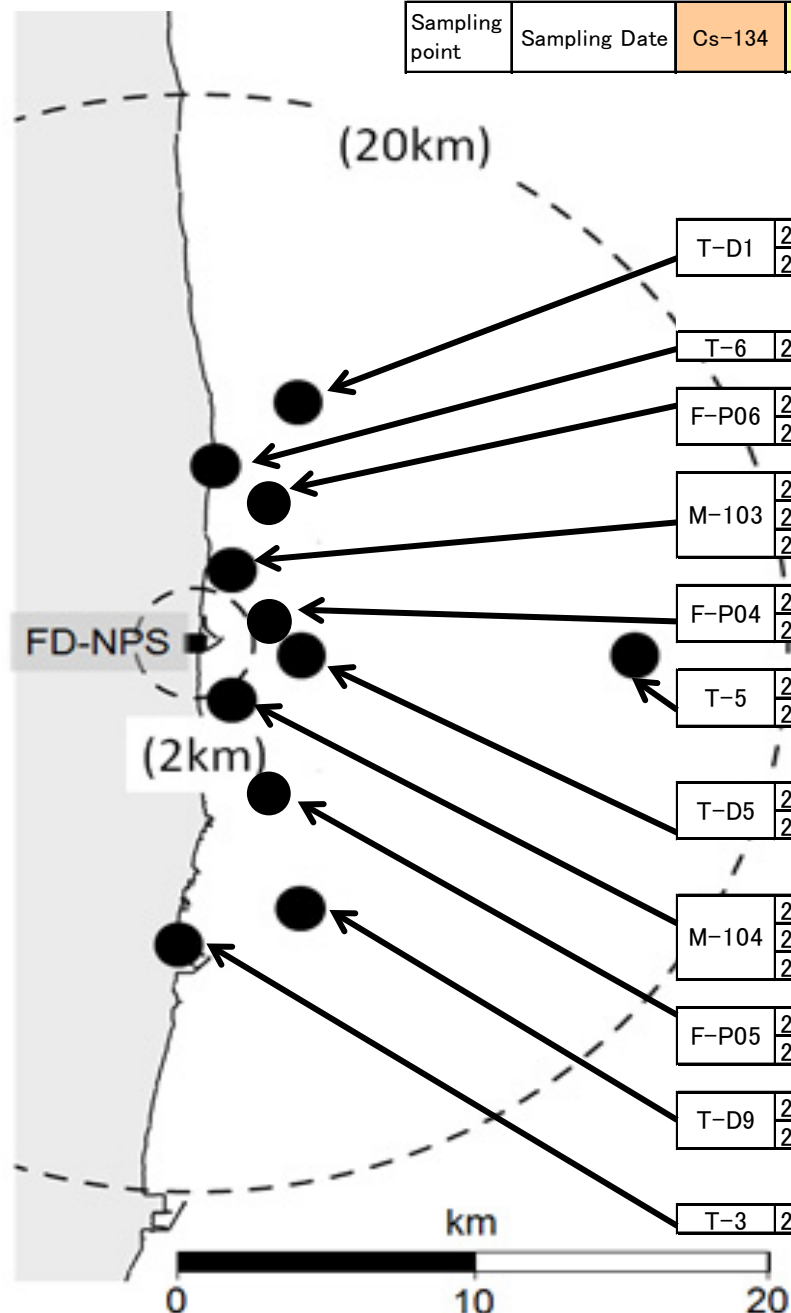
Sea area between 2-20km radius from the NPS (1)

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	2014/9/1	0.0031	0.0099	ND(16)* ¹	0.56	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) × 10 ⁻⁶	S

T-6	2014/9/2	0.020	0.055	ND(17)* ¹	ND(0.31)					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	2014/9/13	0.016	0.052		In progress	In progress				0.5m
	2014/8/19	0.0025	0.0090		0.11	In progress				0.5m
	2014/7/18	0.0038	0.012		0.12	0.00087				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	2014/9/2	ND(0.0012)	0.0018	ND(16)* ¹	ND(0.34)	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) × 10 ⁻⁶	S

T-D5	2014/9/1	0.010	0.030	ND(16)* ¹	0.38	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	2014/9/12	0.030	0.094		In progress	In progress				0.5m
	2014/8/20	0.0059	0.019		0.13	In progress				0.5m
	2014/7/19	0.0048	0.017		0.18	0.0011				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	2014/9/2	0.0017	0.0059	ND(16)* ¹	ND(0.34)	ND(0.009)	ND(1.9)			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	2014/9/2	0.027	0.11	ND(17)* ¹	ND(0.31)					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

T-S1	2014/8/21	0.0039	0.014	S
		0.0018	0.0065	B

T-14	2014/9/22	0.0017	0.0066	S
		0.0027	0.0096	B
	2014/9/16	ND(0.0014)	0.0063	S
		0.0035	0.012	B
	2014/9/9	0.0020	0.0070	S
		0.0039	0.016	B

T-S2	2014/8/21	0.0020	0.0066	S
		ND(0.0013)	0.0067	B

T-D1	2014/9/22	0.0024	0.0060	S
		0.0022	0.0073	B
	2014/9/16	0.0042	0.013	S
		0.0040	0.010	B

T-6	2014/9/24	0.023	0.067	S
	2014/9/16	0.017	0.049	B

T-S8	2014/9/21	0.0055	0.019	S
		0.0028	0.014	B

T-3	2014/9/24	0.029	0.084	S
	2014/9/16	0.043	0.12	B

T-S7	2014/9/4	0.018	0.059	S
		0.014	0.043	B

T-S5	2014/9/4	0.021	0.058	S
		0.0058	0.018	B

T-S3	2014/8/7	0.014	0.038	S
		0.0028	0.011	B

T-S4	2014/8/7	0.0073	0.021	S
		0.0016	0.0069	B

T-D5	2014/9/26	ND(0.0017)	0.0087	S
		0.0031	0.0091	B
	2014/9/16	0.0031	0.012	S
		0.0038	0.012	B

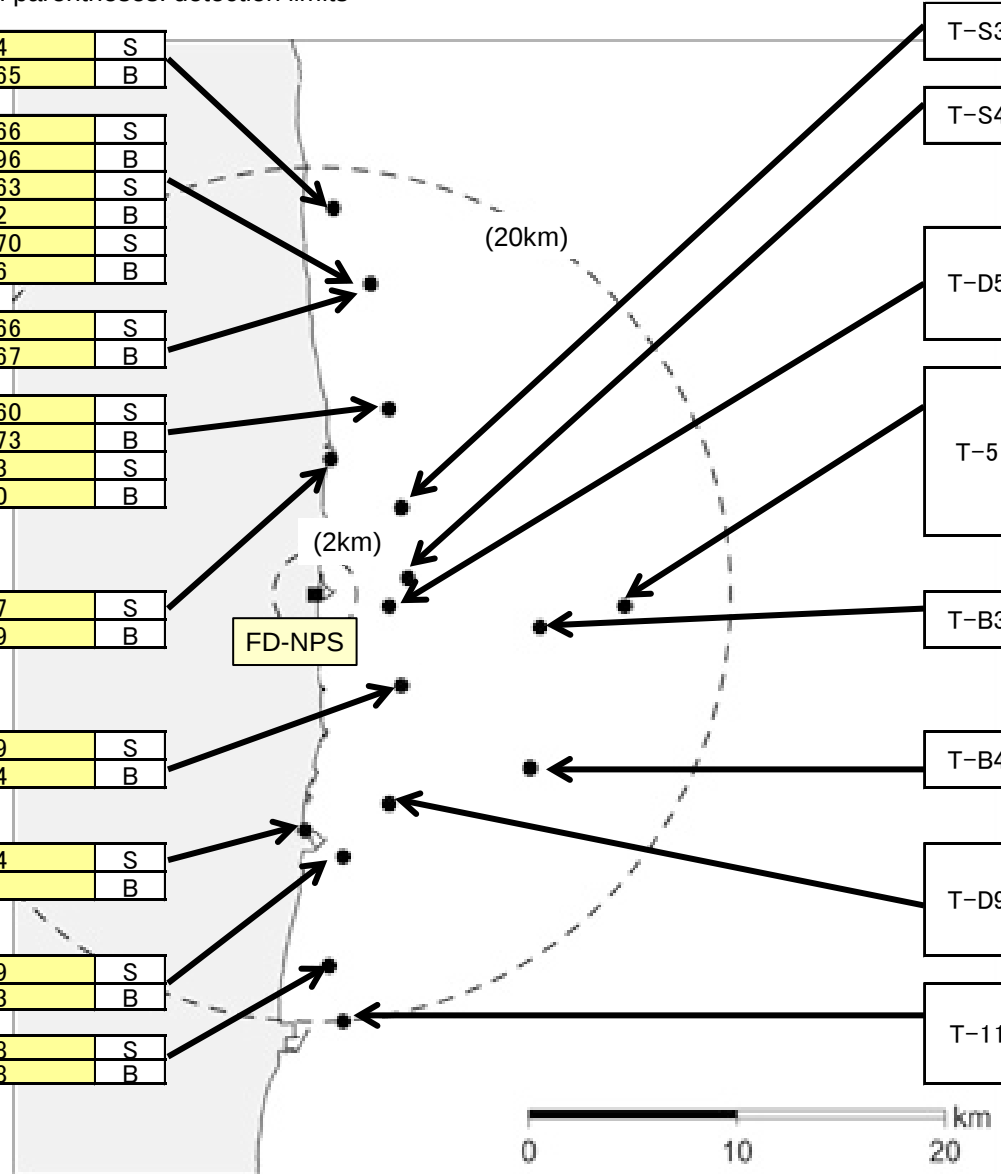
T-5	2014/9/22	ND(0.0017)	0.0025	S
		0.0024	0.012	B
	2014/9/16	ND(0.0017)	0.0022	S
		ND(0.0017)	0.0043	B
	2014/9/12	ND(0.0017)	0.0038	S
		ND(0.0017)	0.0066	B

T-B3	2014/9/6	ND(0.0014)	0.0026	S
		0.0015	0.0043	B

T-B4	2014/9/6	ND(0.0014)	0.0029	S
		0.0016	0.0038	B

T-D9	2014/9/26	0.0031	0.0076	S
		0.0024	0.0067	B
	2014/9/16	0.011	0.034	S
		0.0047	0.016	B

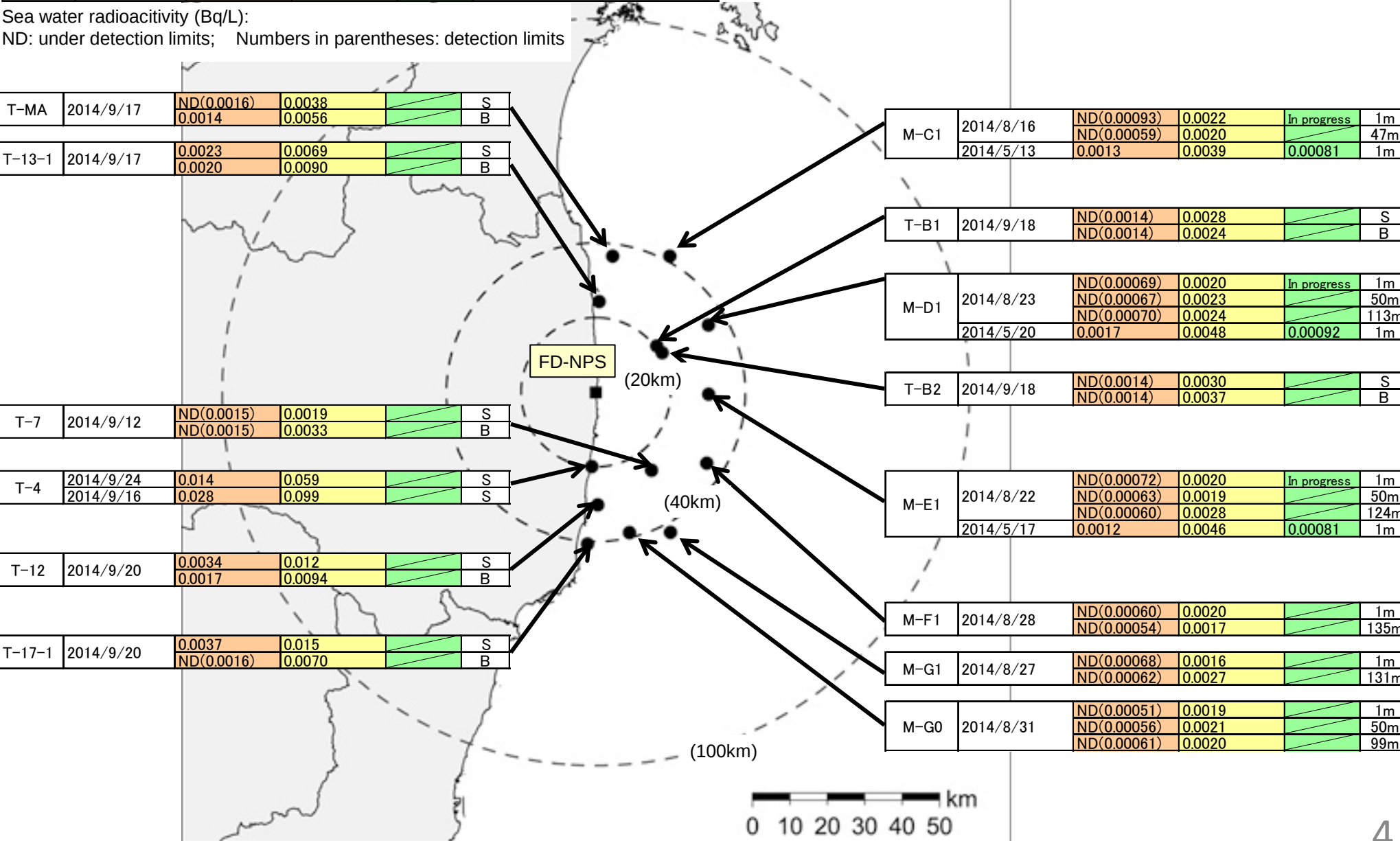
T-11	2014/9/16	0.010	0.033	S
		0.0033	0.014	B
	2014/9/9	0.0015	0.0070	S
		0.0025	0.010	B



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



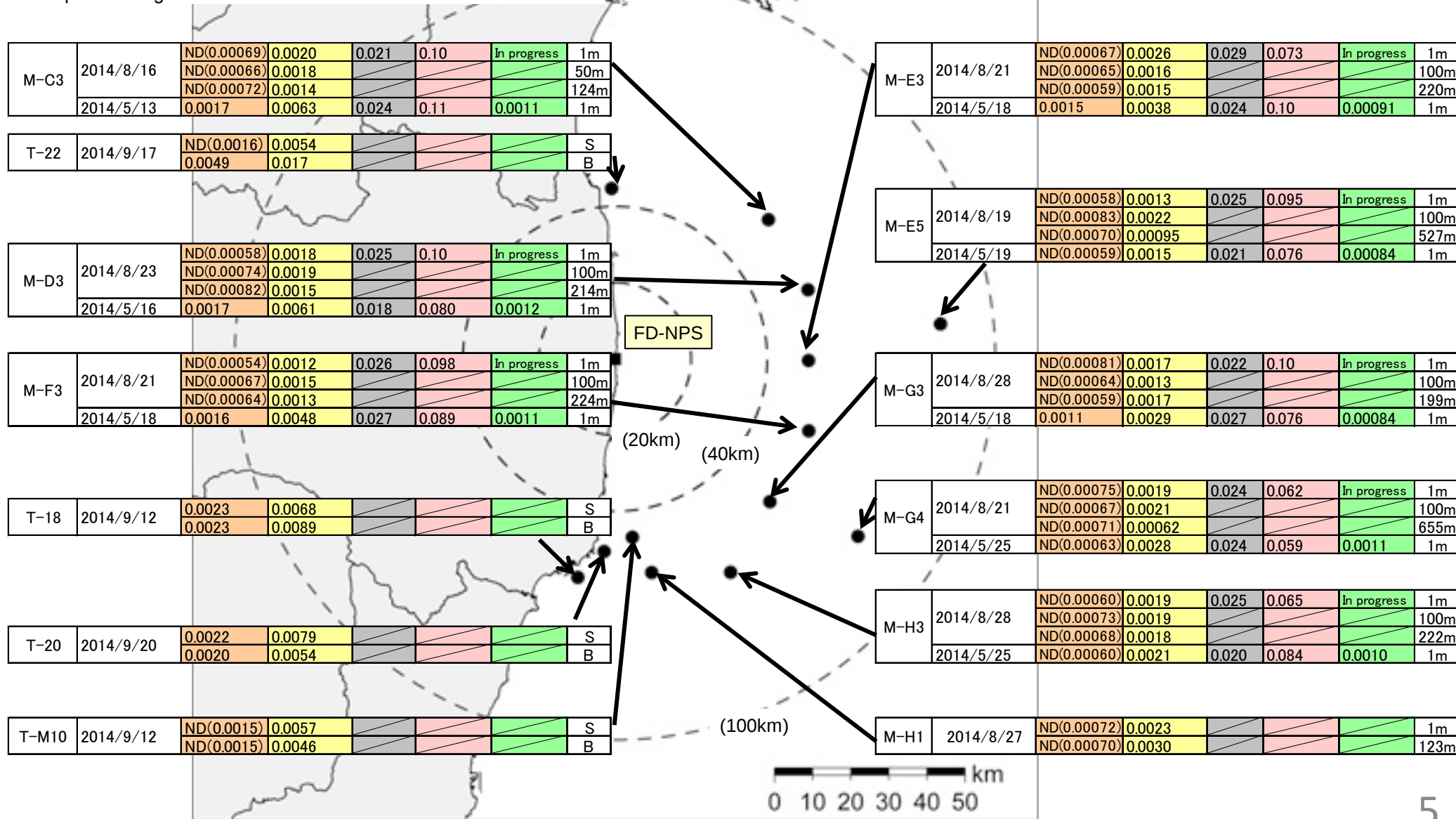
Sea area between 20-100km radius from the NPS(2)

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



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	2014/9/17	ND(0.0022)	0.0062		S
		ND(0.0022)	0.0034		M
		ND(0.0022)	0.0028		B

T-MG4	2014/9/17	ND(0.0019)	0.0044		S
		ND(0.0019)	0.0042		M
		ND(0.0019)	0.0030		B

T-MG5	2014/9/17	ND(0.0019)	0.0050		S
		ND(0.0019)	0.0034		M
		ND(0.0019)	0.0038		B
	2014/9/2	ND(0.0016)	0.0037	ND(0.01)	S

T-MG6	2014/9/17	0.0021	0.0071		S
		ND(0.0019)	0.0041		M
		0.0048	0.018		B

M-B1	2014/8/16	0.00092	0.0035		1m
		ND(0.00055)	0.0024		37m

M-B3	2014/8/17	ND(0.00061)	0.0017	In progress	1m
		ND(0.00059)	0.0017		50m
		ND(0.00065)	0.0019		109m
	2014/5/14	0.0014	0.0060	0.0011	1m

T-MG0	2014/9/17	ND(0.0022)	0.0023		S
		ND(0.0022)	0.0025		M
		ND(0.0022)	0.0031		B

M-A1	2014/8/18	ND(0.00051)	0.0018		1m
		ND(0.00057)	0.0016		100m
		ND(0.00052)	0.0015		195m

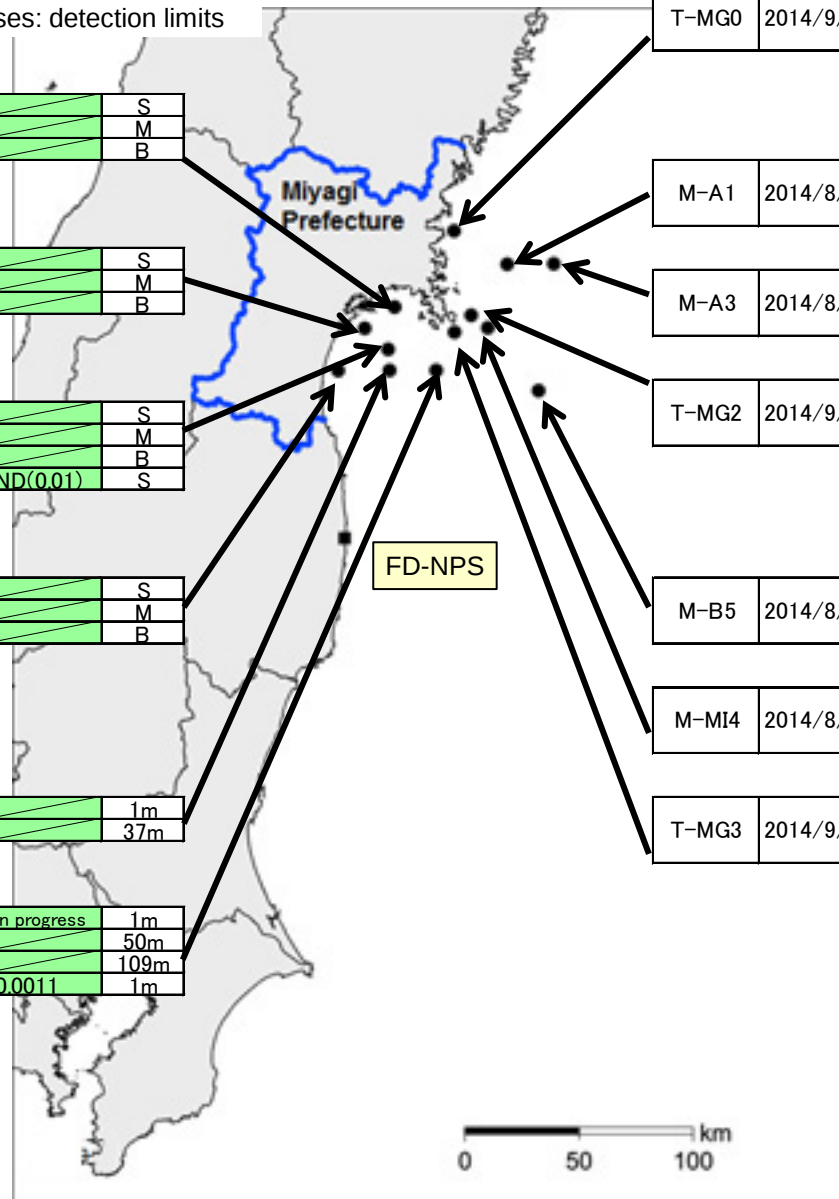
M-A3	2014/8/18	ND(0.00060)	0.0018		1m
		ND(0.00052)	0.0013		100m
		ND(0.00053)	0.00073		482m

T-MG2	2014/9/17	ND(0.0022)	0.0034		S
		ND(0.0022)	0.0029		M
		ND(0.0022)	0.0023		B

M-B5	2014/8/19	ND(0.00068)	0.0018		1m
		ND(0.00069)	0.0013		100m
		ND(0.00068)	0.00082		351m

M-MI4	2014/8/18	ND(0.00063)	0.0017		1m
		ND(0.00063)	0.0019		100m
		ND(0.00065)	0.0018		145m

T-MG3	2014/9/17	ND(0.0022)	0.0026		S
		ND(0.0022)	0.0037		M
		ND(0.0022)	0.0026		B

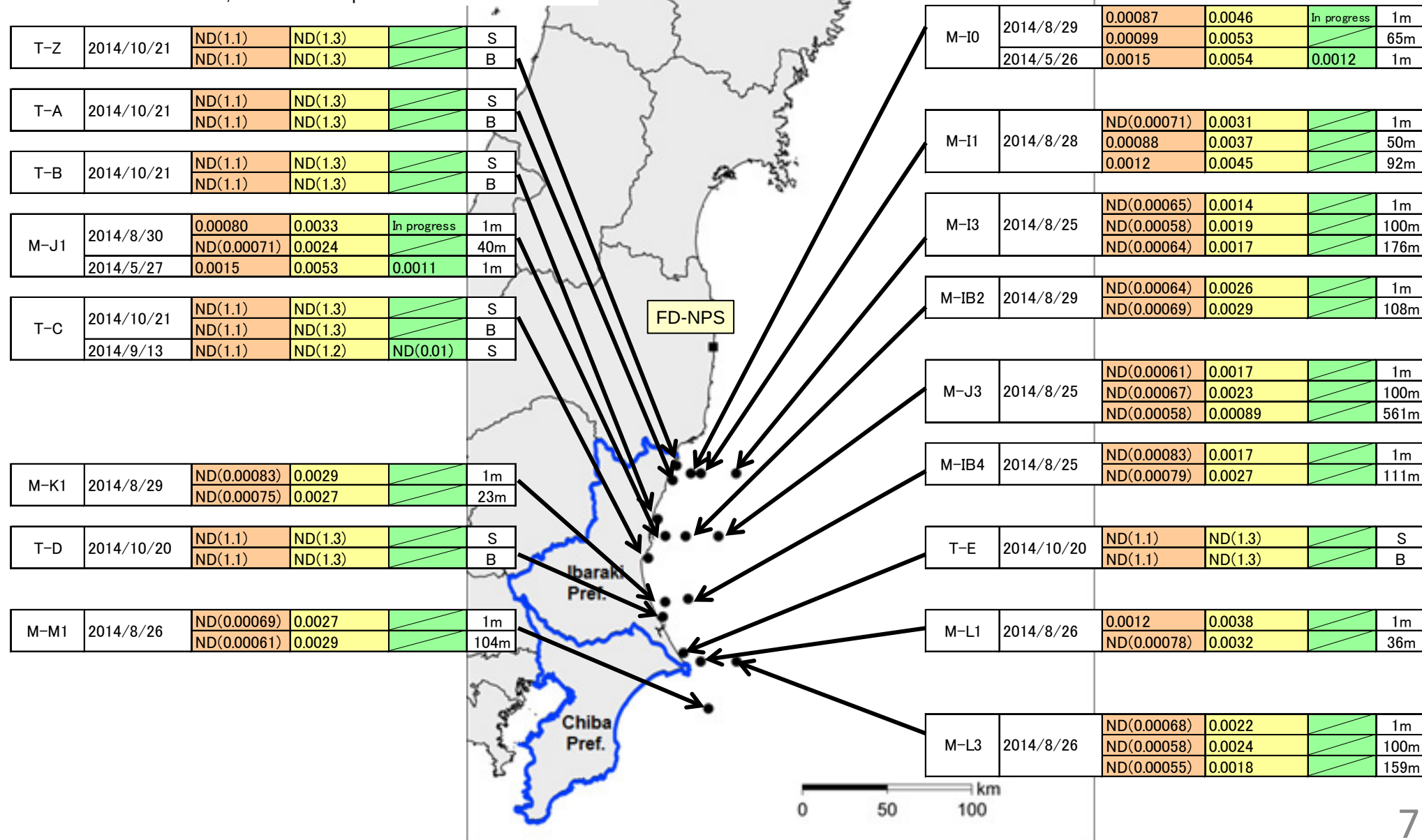


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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



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

