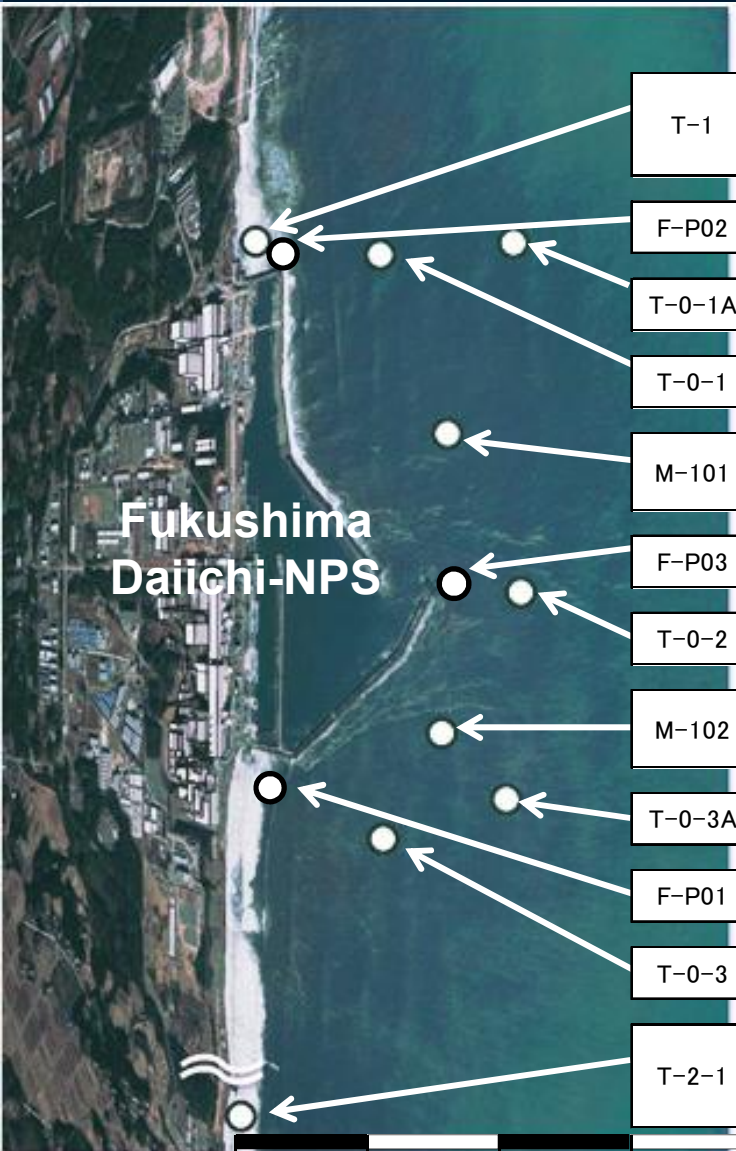


Sea Area Monitoring

November 11, 2014

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS



Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+Pu-240
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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-1	2014/10/27	ND(0.52)	ND(0.63)	16 ^{*1}	In progress				
	2014/10/20	ND(0.66)	ND(0.62)	13 ^{*1}	ND(1.5)				
	2014/9/8	ND(0.66)	ND(0.69)	11 ^{*1}	3.7	0.23	ND(2.0)		
	2014/4/10	ND(0.85)	ND(0.82)					ND(5.6×10^{-6})	(9.4 ± 2.2) $\times 10^{-6}$
F-P02	2014/7/7	ND(0.062)	0.17	0.09 ^{*2}	0.44	0.083		In progress	In progress
	2014/6/16	ND(0.066)	ND(0.050)	0.03 ^{*2}	ND(0.41)	0.002		ND(7×10^{-6})	ND(7×10^{-6})
T-0-1A	2014/10/28	ND(0.60)	ND(0.59)	ND(17) ^{*1}	In progress				
	2014/10/24	ND(0.67)	ND(0.71)	ND(17) ^{*1}	ND(1.7)				
T-0-1	2014/10/28	ND(0.59)	ND(0.58)	ND(17) ^{*1}	In progress				
	2014/10/24	ND(0.67)	ND(0.63)	ND(17) ^{*1}	ND(1.7)				
M-101	2014/9/13	0.040	0.12		In progress	In progress			
	2014/8/19	0.0028	0.0093		0.11	In progress			
	2014/7/18	0.010	0.032		0.17	0.0026			
F-P03	2014/7/7	0.24	0.72	0.38 ^{*2}	2.6	0.66		In progress	In progress
	2014/6/16	ND(0.080)	ND(0.071)	0.03 ^{*2}	ND(0.41)	0.003		ND(1.3×10^{-5})	ND(1.1×10^{-5})
T-0-2	2014/10/28	ND(0.47)	ND(0.74)	ND(17) ^{*1}	In progress				
	2014/10/24	ND(0.70)	ND(0.64)	ND(17) ^{*1}	2.3				
M-102	2014/9/12	0.039	0.120		In progress	In progress			
	2014/8/20	0.0093	0.028		0.15	In progress			
	2014/7/19	0.017	0.054		0.20	0.0099			
T-0-3A	2014/10/28	ND(0.67)	ND(0.63)	ND(17) ^{*1}	In progress				
	2014/10/24	ND(0.63)	ND(0.69)	ND(17) ^{*1}	ND(1.7)				
F-P01	2014/7/7	ND(0.064)	ND(0.068)	0.04 ^{*2}	ND(0.42)	0.004		In progress	In progress
	2014/6/16	ND(0.056)	0.074	0.04 ^{*2}	ND(0.41)	0.012		ND(6×10^{-6})	ND(6×10^{-6})
T-0-3	2014/10/28	ND(0.64)	ND(0.58)	ND(17) ^{*1}	In progress				
	2014/10/24	ND(0.63)	ND(0.64)	ND(17) ^{*1}	2.2				
T-2-1	2014/10/27	ND(0.54)	ND(0.57)	7.1 ^{*1}	In progress				
	2014/10/20	ND(0.76)	ND(0.60)	14 ^{*1}	ND(1.5)				
	2014/9/22	ND(0.64)	ND(0.67)	12 ^{*1}	ND(1.9)	ND(0.0079)	ND(2.0)		
	2014/4/10	ND(0.70)	ND(0.58)	9.0 ^{*1}				ND(5.6×10^{-6})	(3.1 ± 0.41) $\times 10^{-5}$

0 0.5 1km

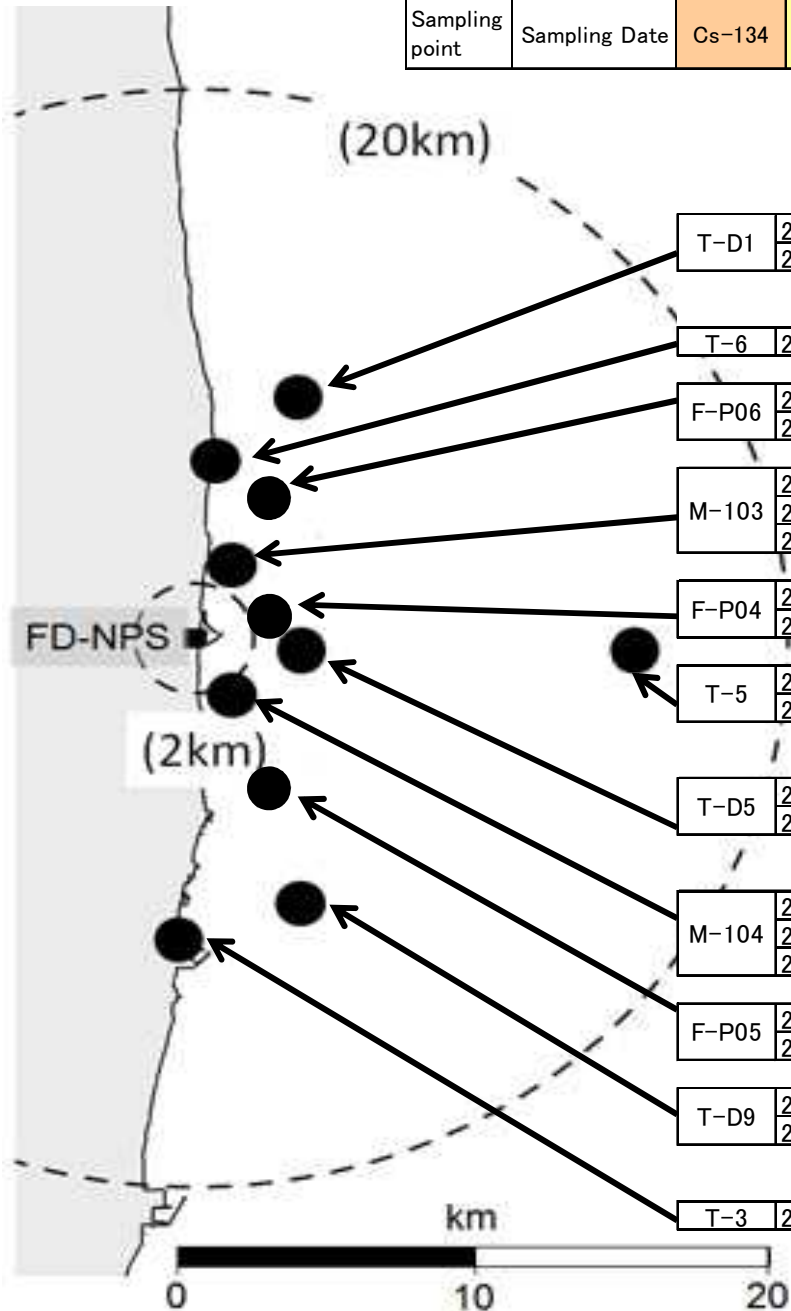
Sea area between 2-20km radius from the NPS (1)

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
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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

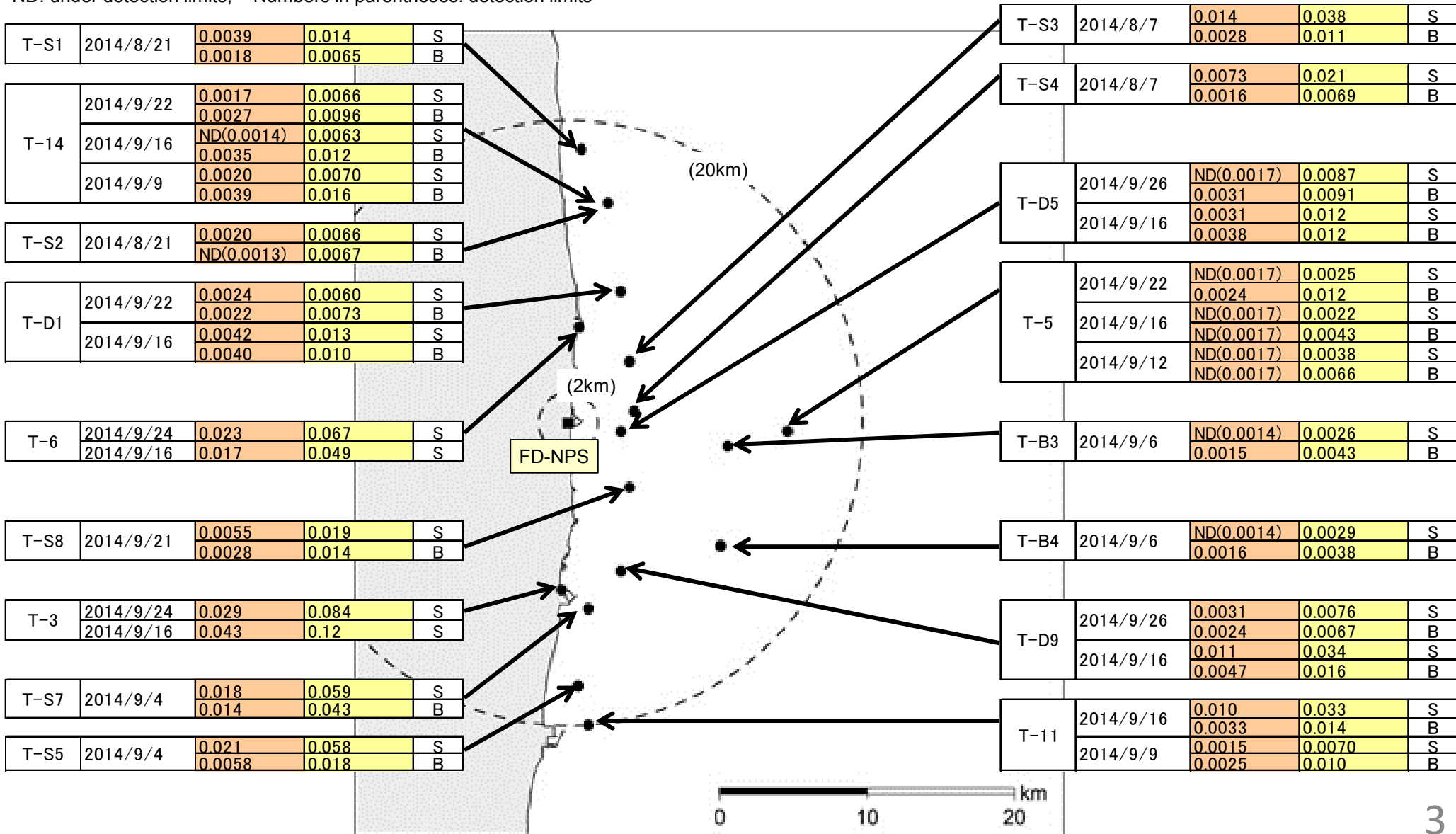
T-3	2014/9/2	0.027	0.11	ND(17) ^{*1}	ND(0.31)					S
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Sea area between 2-20km radius from the NPS (2)

Sampling point	Sampling Date	Cs-134	Cs-137	S/B
S:2m below sea level				
B:2-3m above sea bottom				

Sea water radioactivity (Bq/L):

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

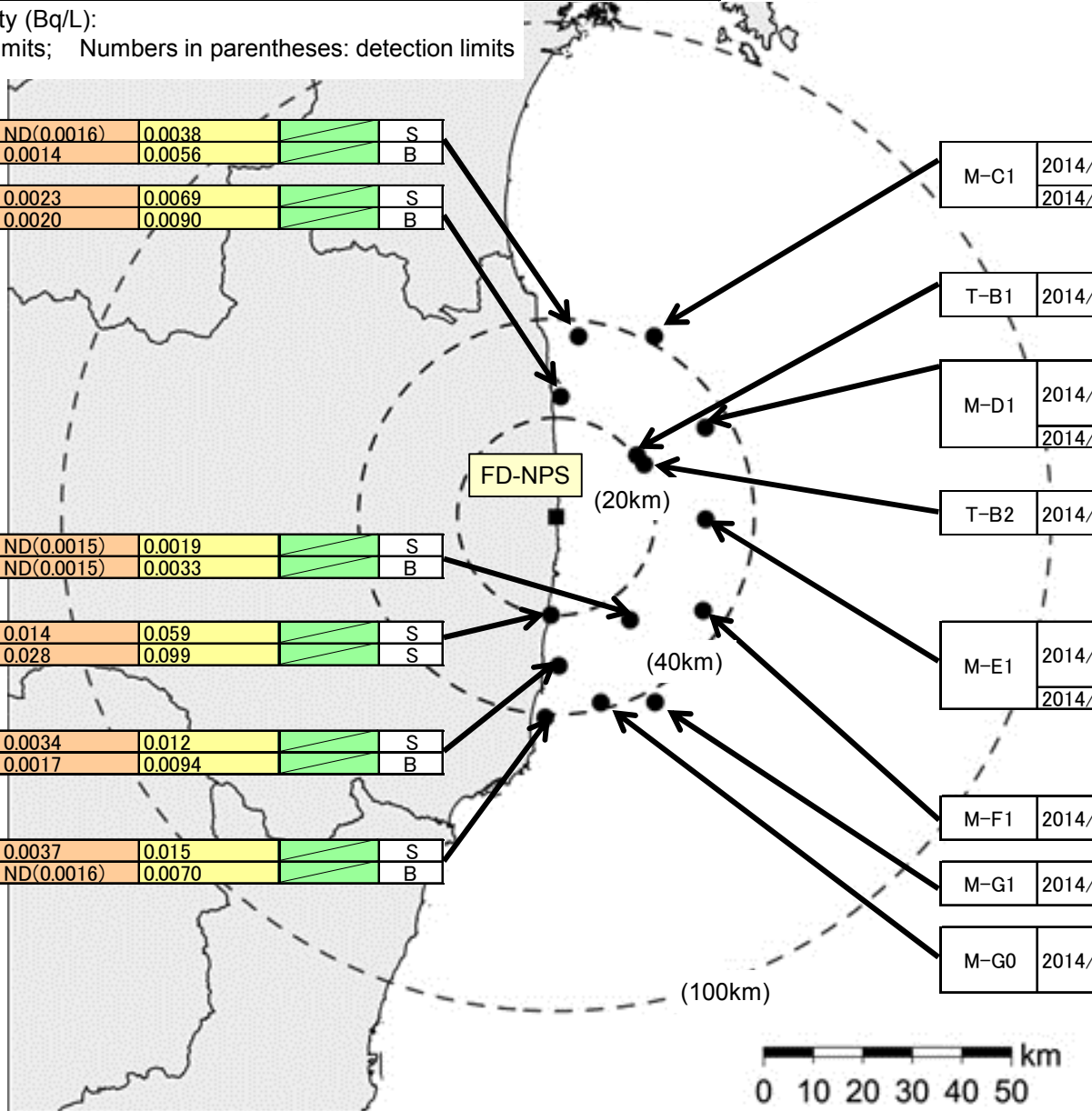


Sea area between 20-100km radius from the NPS(1)

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



T-MA	2014/9/17	ND(0.0016)	0.0038		S
		0.0014	0.0056		B

T-13-1	2014/9/17	0.0023	0.0069		S
		0.0020	0.0090		B

M-C1	2014/8/16	ND(0.00093)	0.0022		In progress	1m
		ND(0.00059)	0.0020		47m	
	2014/5/13	0.0013	0.0039		0.00081	1m

T-B1	2014/9/18	ND(0.0014)	0.0028		S
		ND(0.0014)	0.0024		B

M-D1	2014/8/23	ND(0.00069)	0.0020		In progress	1m
		ND(0.00067)	0.0023		50m	
		ND(0.00070)	0.0024		113m	
	2014/5/20	0.0017	0.0048		0.00092	1m

T-B2	2014/9/18	ND(0.0014)	0.0030		S
		ND(0.0014)	0.0037		B

T-7	2014/9/12	ND(0.0015)	0.0019		S
		ND(0.0015)	0.0033		B

M-E1	2014/8/22	ND(0.00072)	0.0020		In progress	1m
		ND(0.00063)	0.0019		50m	
		ND(0.00060)	0.0028		124m	
	2014/5/17	0.0012	0.0046		0.00091	1m

T-4	2014/9/24	0.014	0.059		S
		0.028	0.099		S

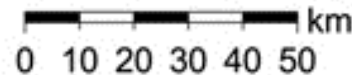
T-12	2014/9/20	0.0034	0.012		S
		0.0017	0.0094		B

M-F1	2014/8/28	ND(0.00060)	0.0020		1m
		ND(0.00054)	0.0017		135m

T-17-1	2014/9/20	0.0037	0.015		S
		ND(0.0016)	0.0070		B

M-G1	2014/8/27	ND(0.00068)	0.0016		1m
		ND(0.00062)	0.0027		131m

M-G0	2014/8/31	ND(0.00051)	0.0019		1m
		ND(0.00056)	0.0021		50m
		ND(0.00061)	0.0020		99m



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

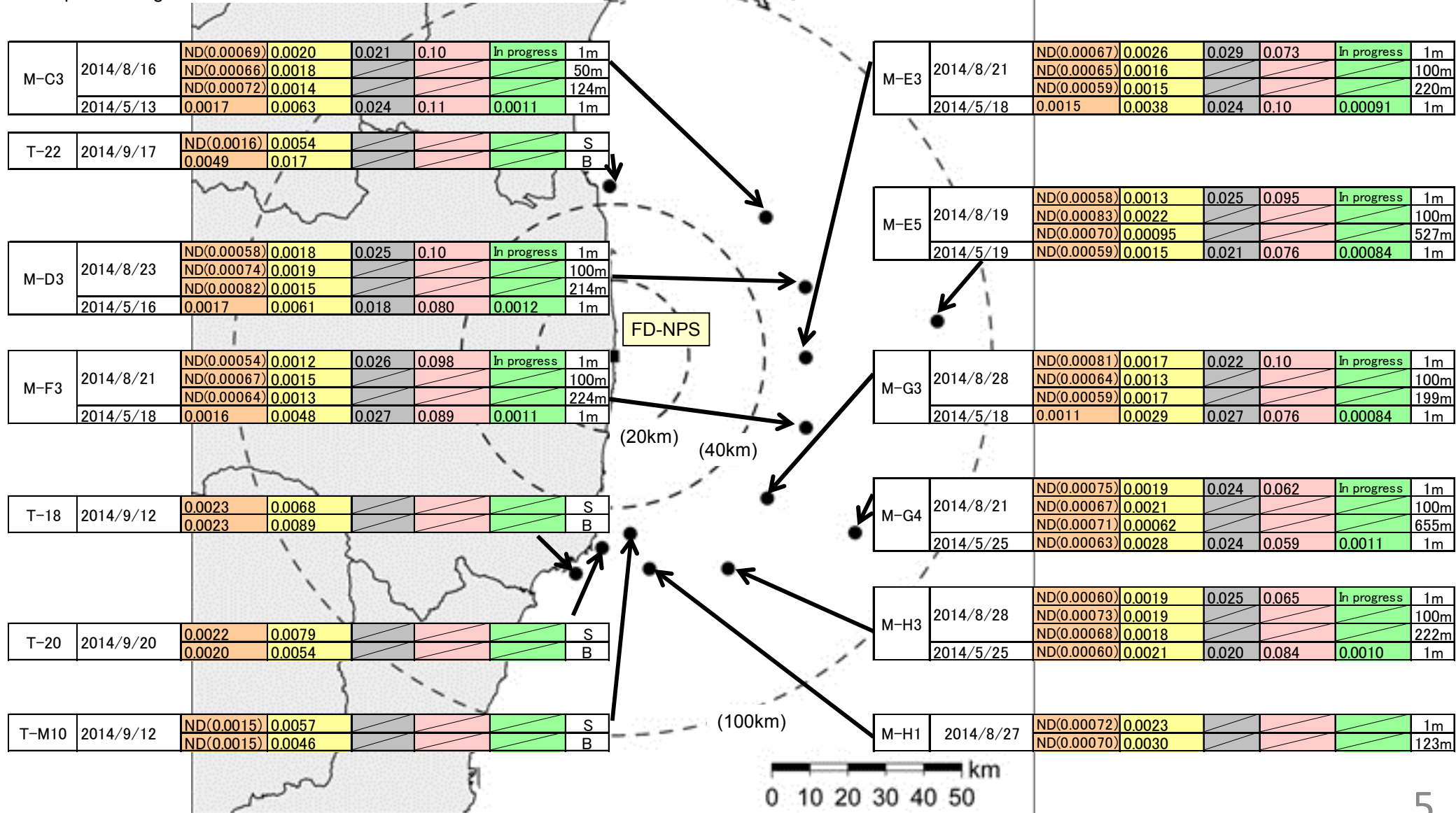
Sampling point	Sampling Date	Cs-134	Cs-137	Total β *	H-3	Sr-90	S/B
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S/B: S:2m below sea level B:2-3m above sea bottom
 Depth(m) from sea level

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
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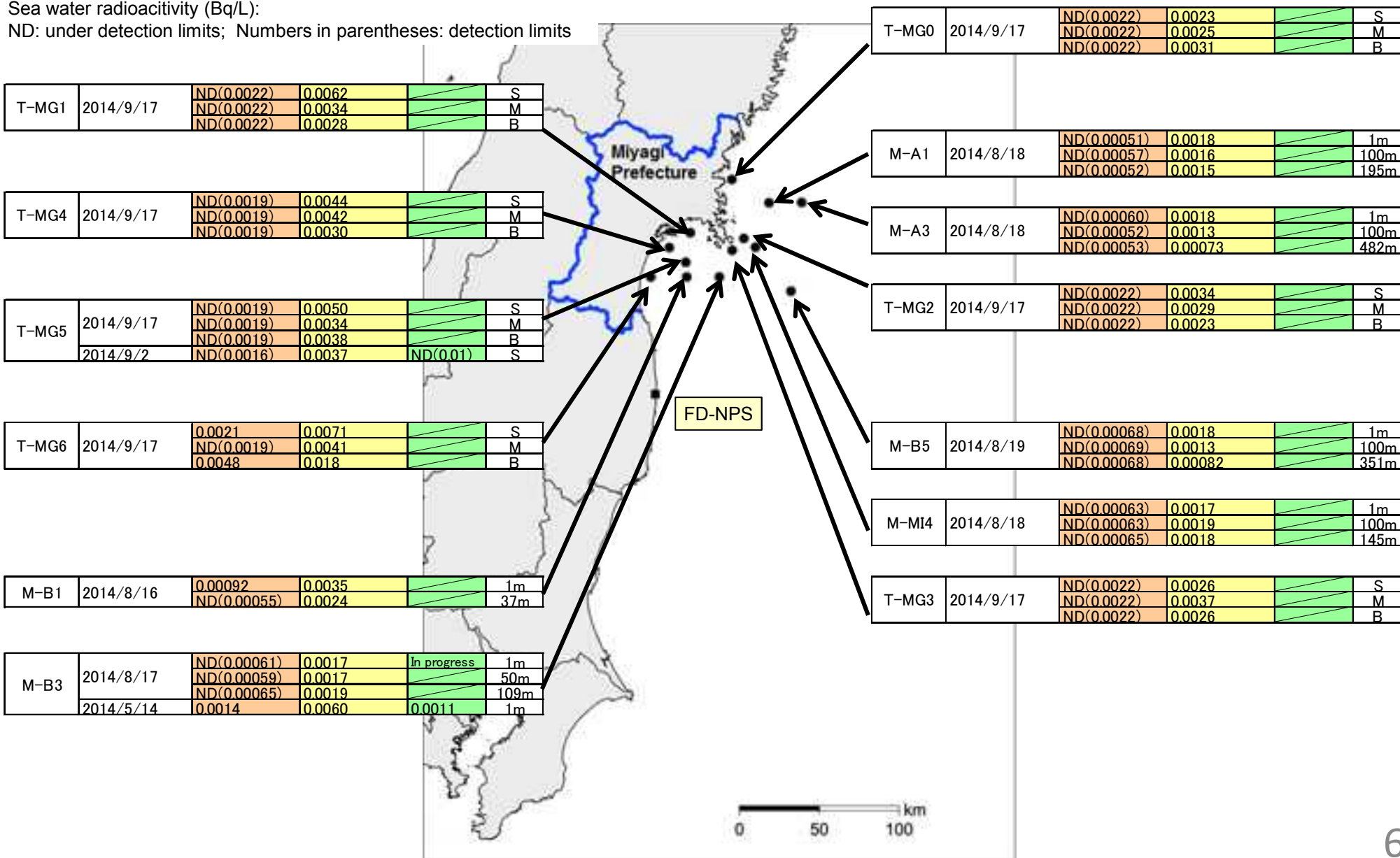
S:2m below sea level

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

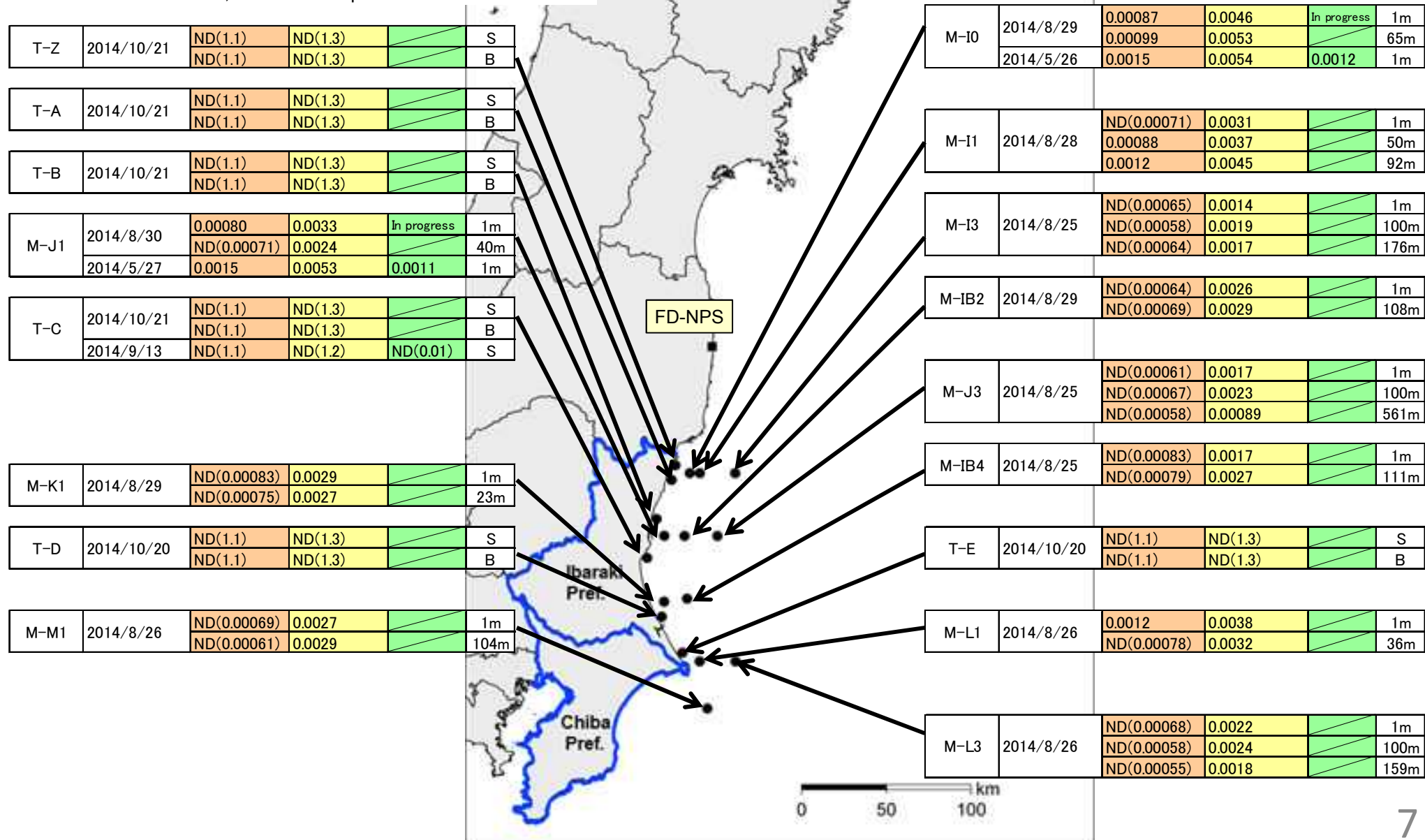


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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

