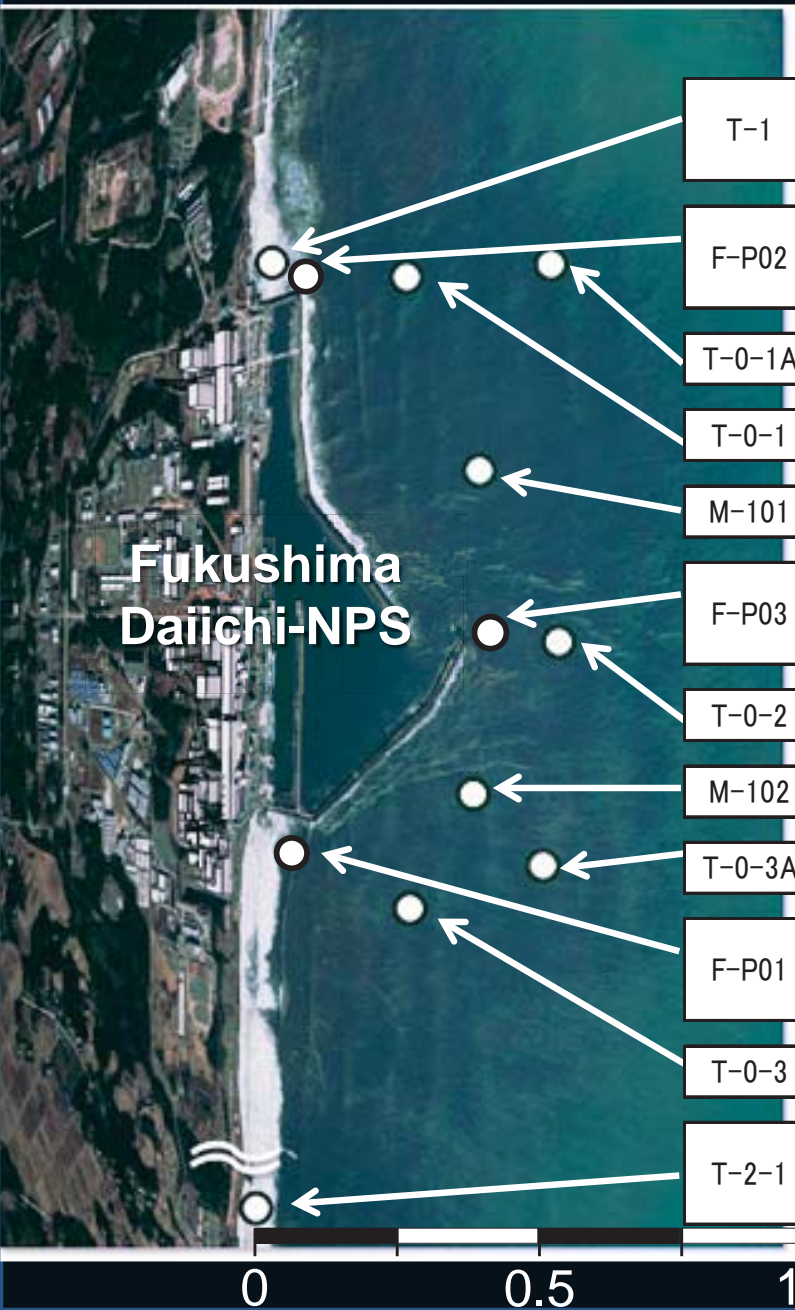


Sea Area Monitoring

November 18, 2014

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS



**Fukushima
Daiichi-NPS**

Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+Pu-240
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	2014/11/3	ND(0.53)	ND(0.70)	1.4 ^{*1}	1.6				
	2014/10/27	ND(0.52)	ND(0.63)	1.6 ^{*1}	2.8				
	2014/9/8	ND(0.66)	ND(0.69)	1.1 ^{*1}	3.7	0.23	ND(2.0)	ND(5.6 × 10 ⁻⁶)	(9.4 ± 2.2) × 10 ⁻⁶
	2014/4/10	ND(0.85)	ND(0.82)						
F-P02	2014/9/16	0.13	0.35	0.14 ^{*2}	0.84	In progress		In progress	In progress
	2014/8/20	0.13	0.40	0.31 ^{*2}	2.5	In progress		In progress	In progress
	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	2014/11/4	ND(0.65)	ND(0.63)	ND(15) ^{*1}	In progress				
	2014/10/28	ND(0.60)	ND(0.59)	ND(17) ^{*1}	ND(1.5)				
T-0-1	2014/11/4	ND(0.69)	ND(0.58)	ND(15) ^{*1}	In progress				
	2014/10/28	ND(0.59)	ND(0.58)	ND(17) ^{*1}	1.9				
M-101	2014/9/13	0.040	0.12		0.17	0.019			
	2014/8/19	0.0028	0.0093		0.11	0.0011			
F-P03	2014/9/16	0.35	0.94	0.23 ^{*2}	2.5	In progress		In progress	In progress
	2014/8/20	0.12	0.25	0.19 ^{*2}	1.1	In progress		In progress	In progress
	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	2014/11/4	ND(0.67)	ND(0.76)	ND(15) ^{*1}	In progress				
	2014/10/28	ND(0.47)	ND(0.74)	ND(17) ^{*1}	ND(1.5)				
M-102	2014/9/12	0.039	0.12		0.13	0.010			
	2014/8/20	0.0093	0.028		0.15	0.0019			
T-0-3A	2014/11/4	ND(0.81)	ND(0.76)	ND(15) ^{*1}	In progress				
	2014/10/28	ND(0.67)	ND(0.63)	ND(17) ^{*1}	ND(1.5)				
F-P01	2014/9/16	0.060	0.14	0.04 ^{*2}	0.51	In progress		In progress	In progress
	2014/8/20	ND(0.060)	ND(0.053)	0.03 ^{*2}	ND(0.41)	In progress		In progress	In progress
	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	2014/11/4	ND(0.90)	ND(0.73)	ND(15) ^{*1}	In progress				
	2014/10/28	ND(0.64)	ND(0.58)	ND(17) ^{*1}	ND(1.5)				
T-2-1	2014/11/3	ND(0.68)	1.3	7.4 ^{*1}	1.9				
	2014/10/27	ND(0.54)	ND(0.57)	7.1 ^{*1}	2.6				
	2014/9/22	ND(0.64)	ND(0.67)	1.2 ^{*1}	ND(1.9)	ND(0.0079)	ND(2.0)	ND(5.6 × 10 ⁻⁶)	(3.1 ± 0.41) × 10 ⁻⁵
	2014/4/10	ND(0.70)	ND(0.58)	9.0 ^{*1}					

0 0.5 1km

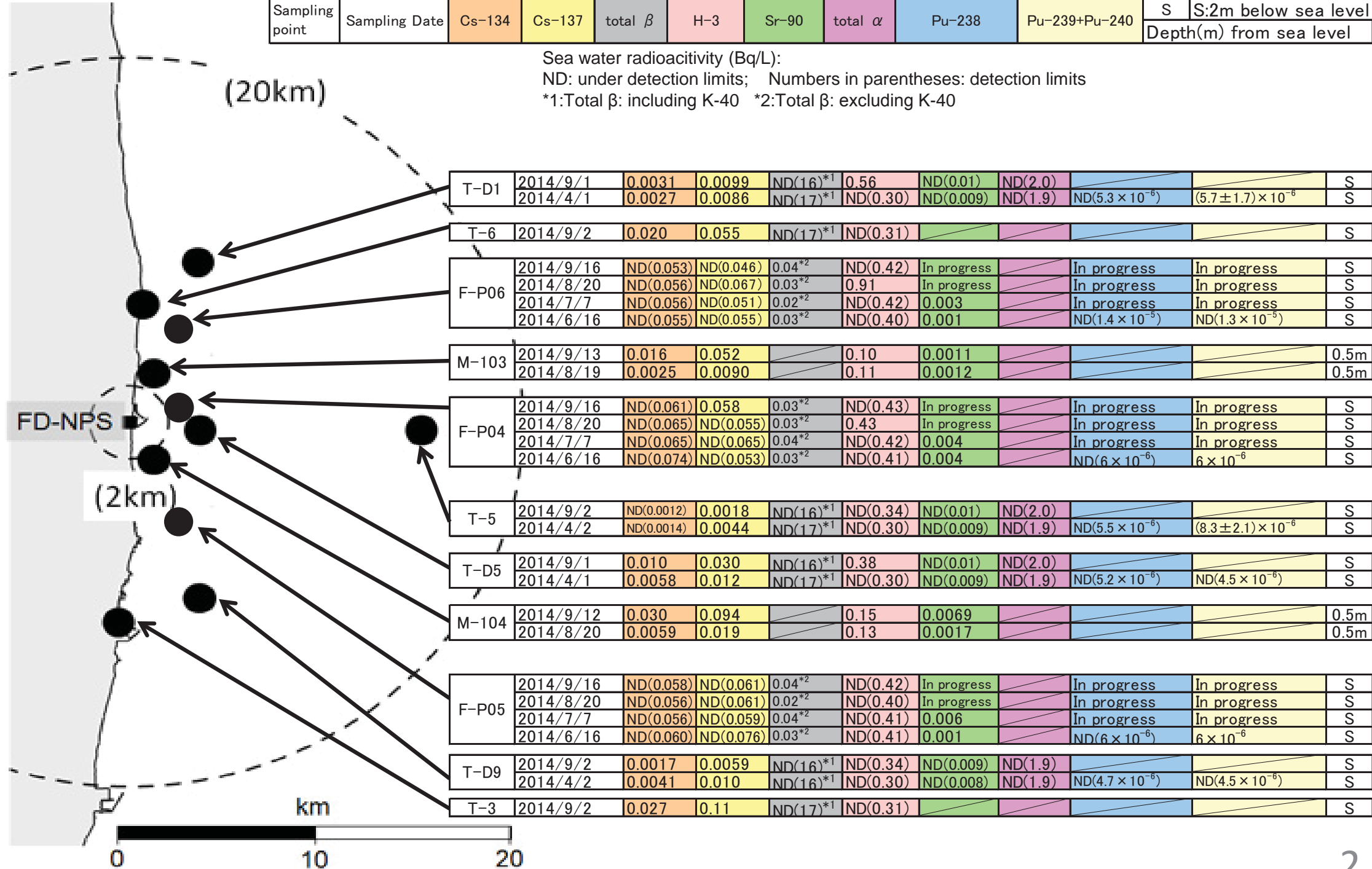
Sea area between 2-20km radius from the NPS (1)

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

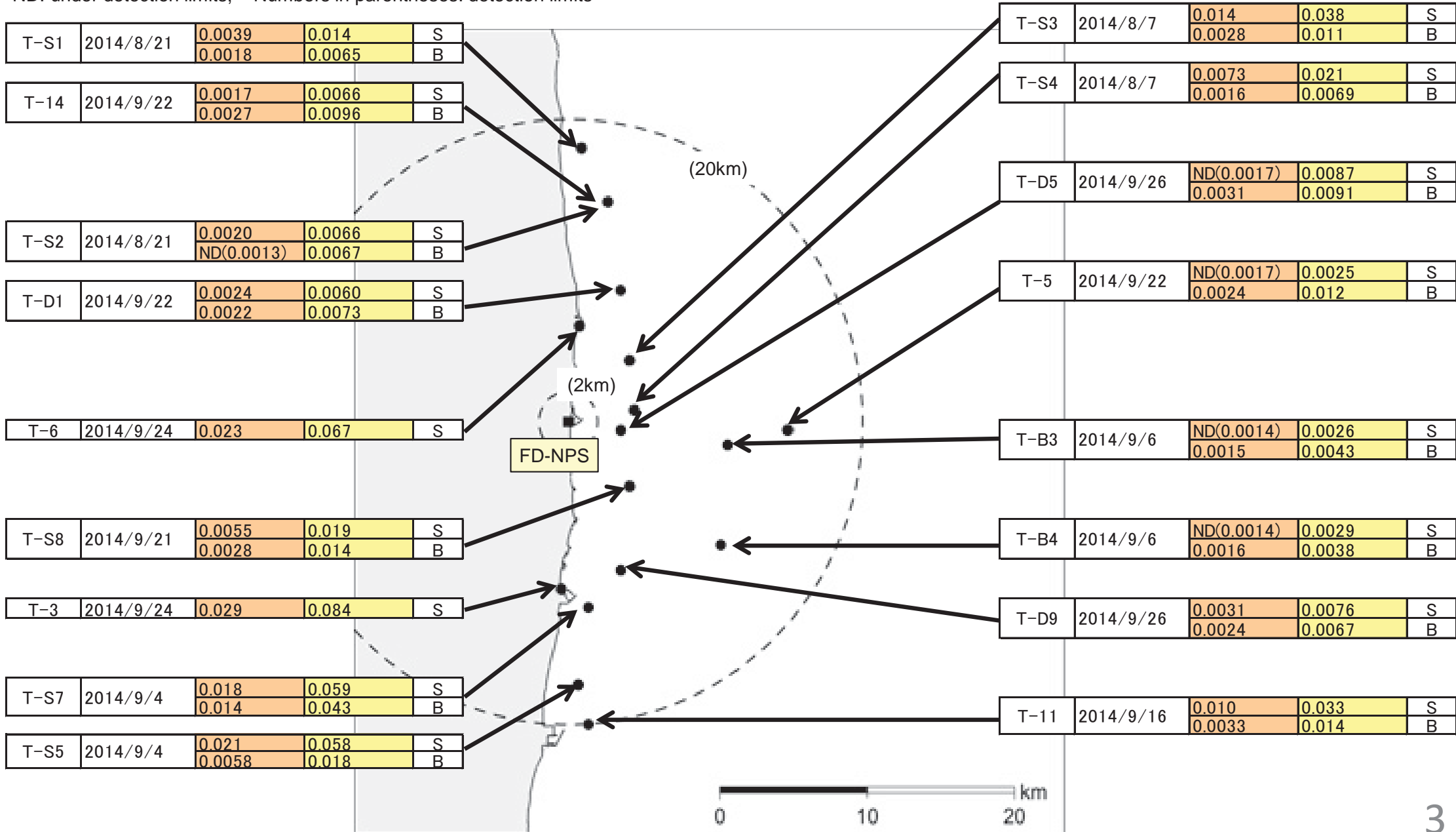


Sea area between 2-20km radius from the NPS (2)

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

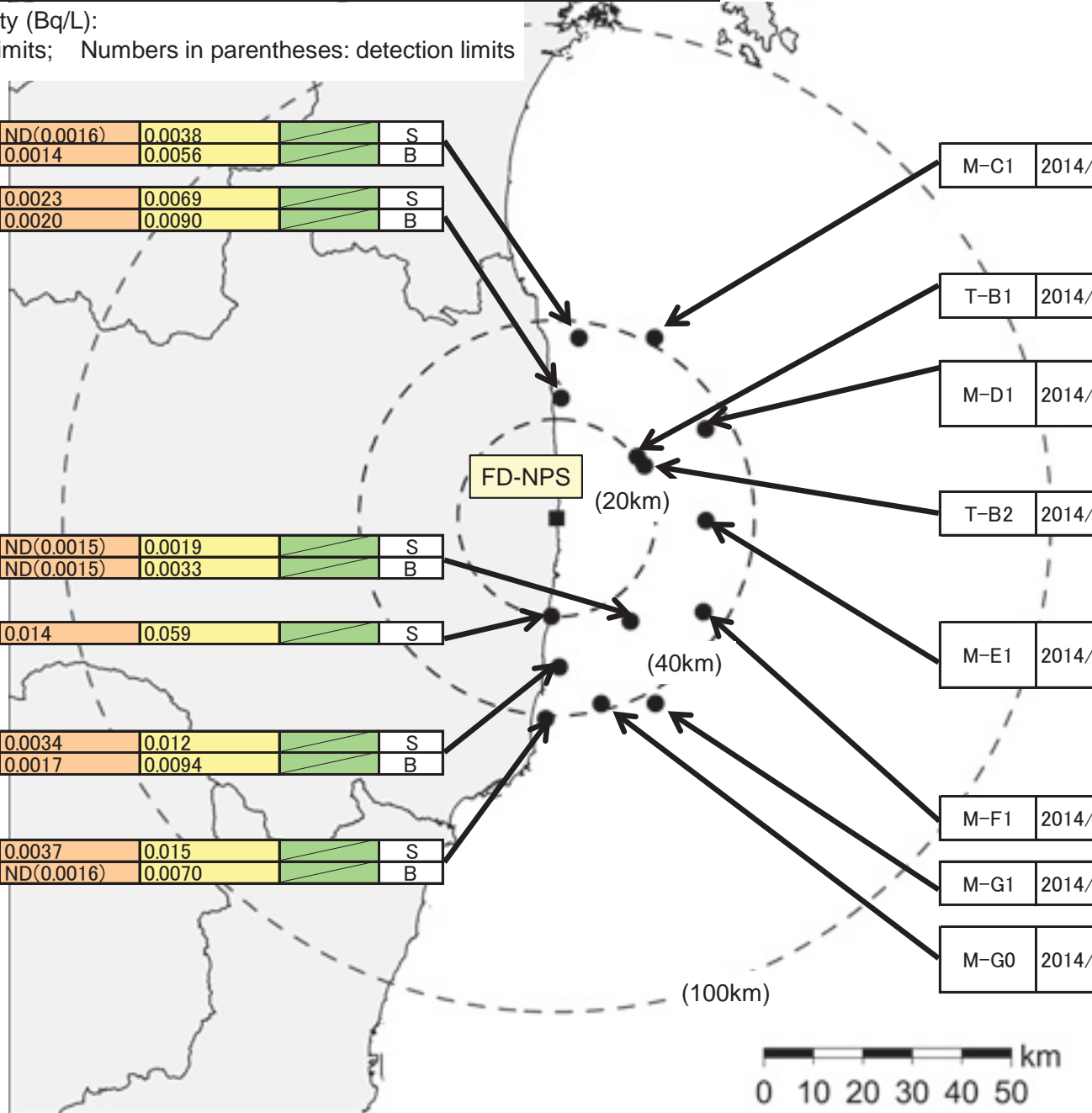


Sea area between 20-100km radius from the NPS(1)

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



T-MA	2014/9/17	ND(0.0016) 0.0014	0.0038 0.0056		S B
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T-13-1	2014/9/17	0.0023 0.0020	0.0069 0.0090		S B
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T-7	2014/9/12	ND(0.0015) ND(0.0015)	0.0019 0.0033		S B
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T-4	2014/9/24	0.014	0.059		S
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T-12	2014/9/20	0.0034 0.0017	0.012 0.0094		S B
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T-17-1	2014/9/20	0.0037 ND(0.0016)	0.015 0.0070		S B
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M-C1	2014/8/16	ND(0.00093) ND(0.00059)	0.0022 0.0020	0.0011 	1m 47m
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T-B1	2014/9/18	ND(0.0014) ND(0.0014)	0.0028 0.0024		S B
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M-D1	2014/8/23	ND(0.00069) ND(0.00067) ND(0.00070)	0.0020 0.0023 0.0024	0.0011 	1m 50m 113m
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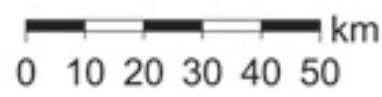
T-B2	2014/9/18	ND(0.0014) ND(0.0014)	0.0030 0.0037		S B
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M-E1	2014/8/22	ND(0.00072) ND(0.00063) ND(0.00060)	0.0020 0.0019 0.0028	0.00088 	1m 50m 124m
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M-F1	2014/8/28	ND(0.00060) ND(0.00054)	0.0020 0.0017		1m 135m
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M-G1	2014/8/27	ND(0.00068) ND(0.00062)	0.0016 0.0027		1m 131m
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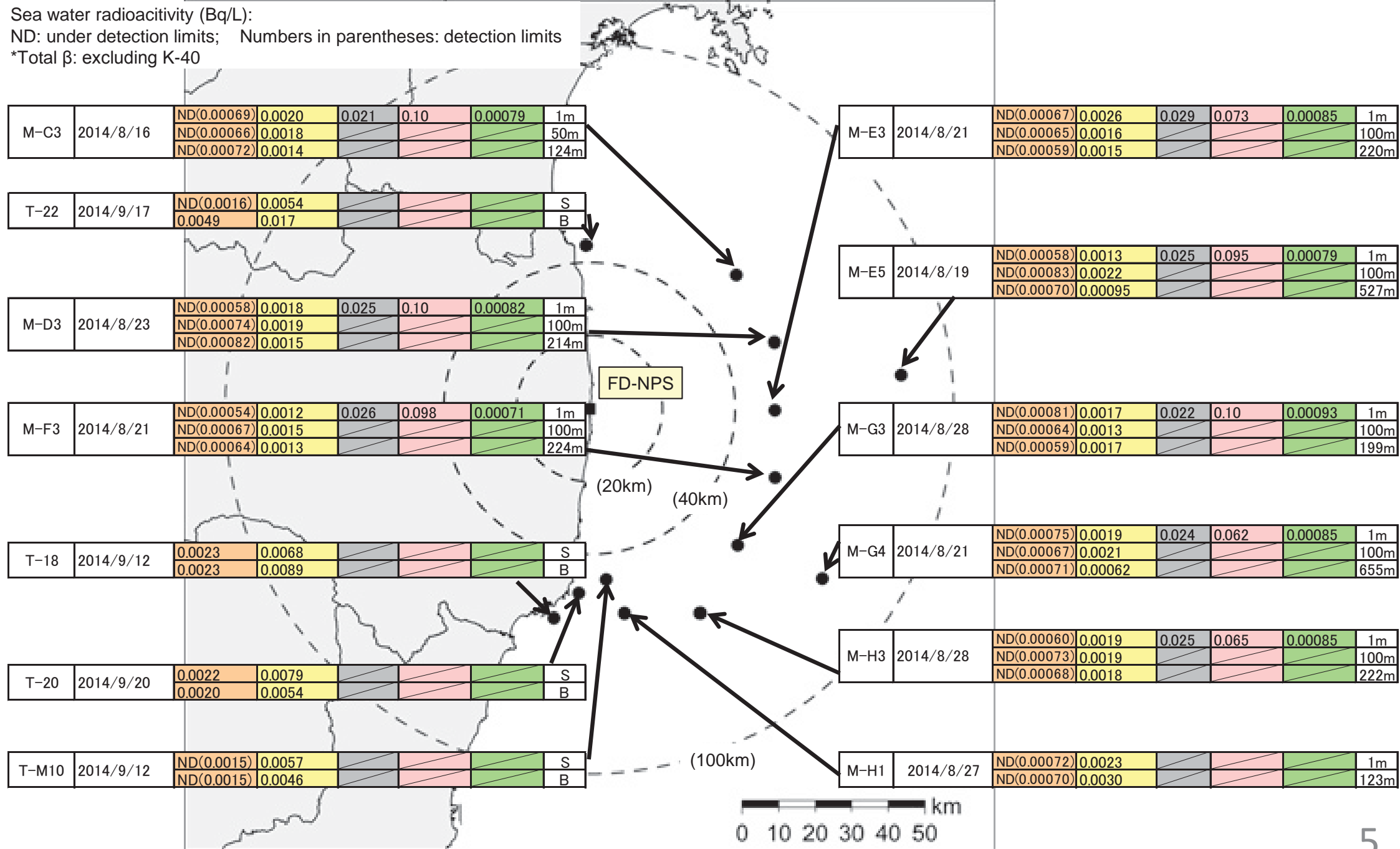
M-G0	2014/8/31	ND(0.00051) ND(0.00056) ND(0.00061)	0.0019 0.0021 0.0020		1m 50m 99m
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Sea area between 20-100km radius from the NPS(2)

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
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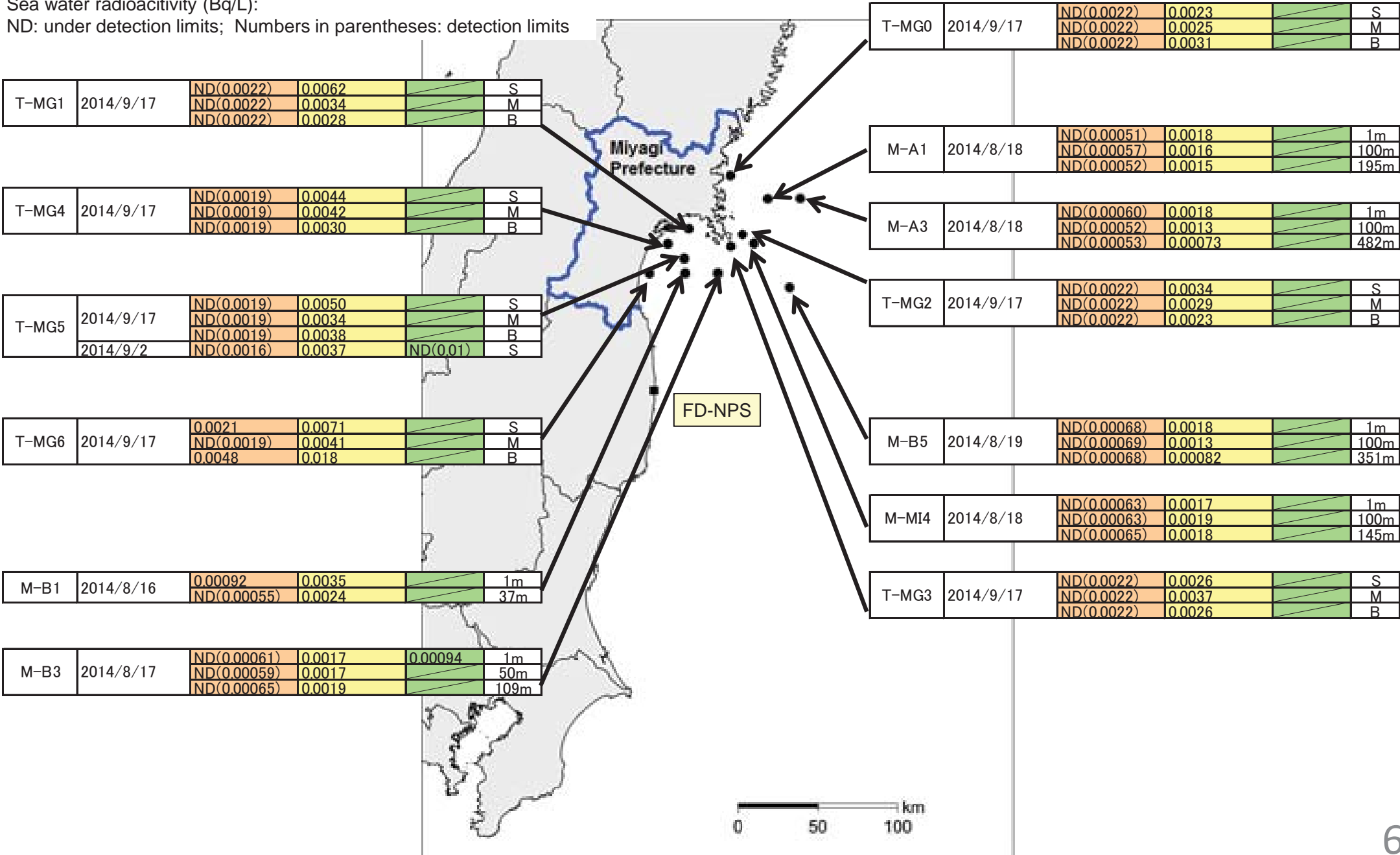
S:2m below sea level

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

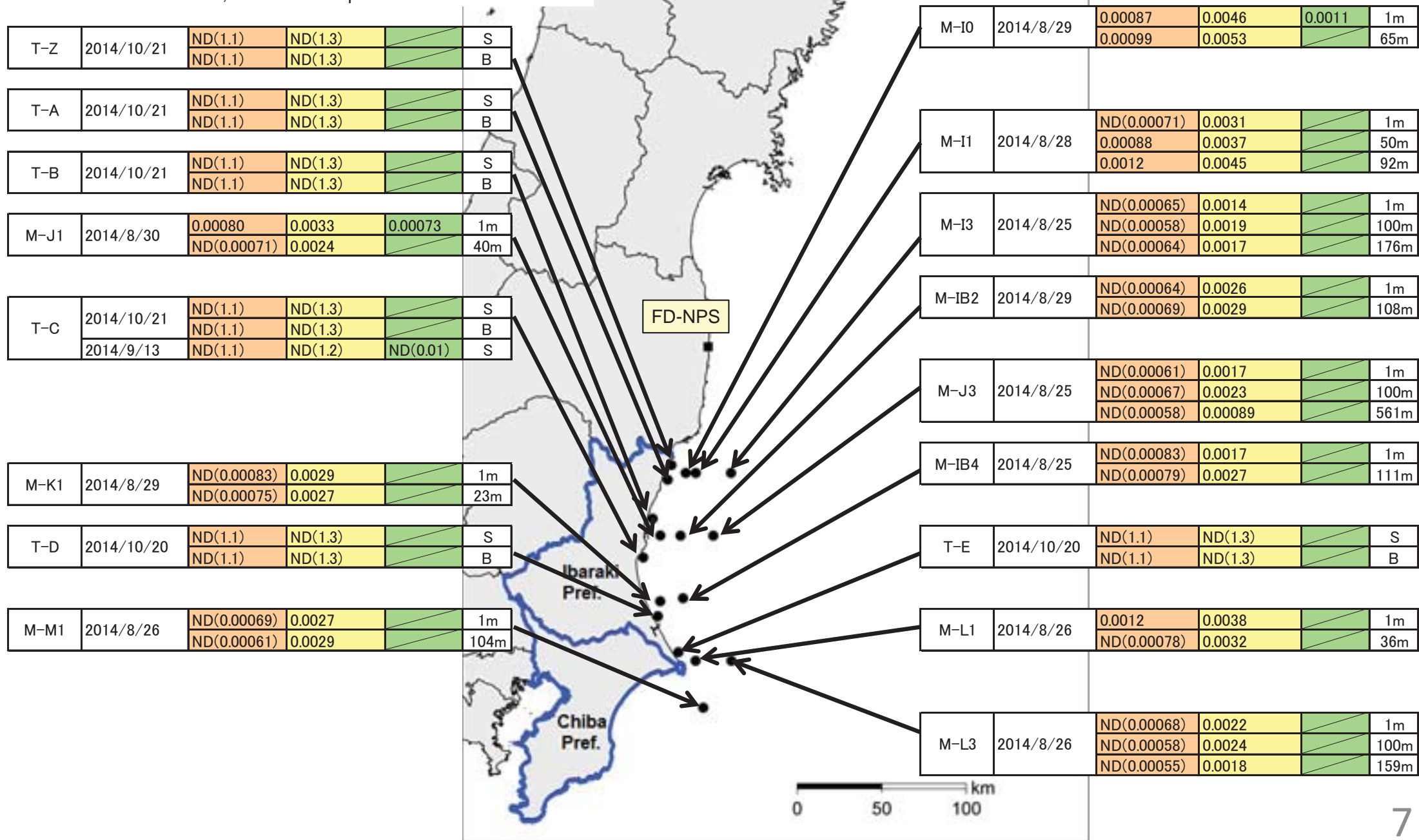


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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-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-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-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-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-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-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-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-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-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

