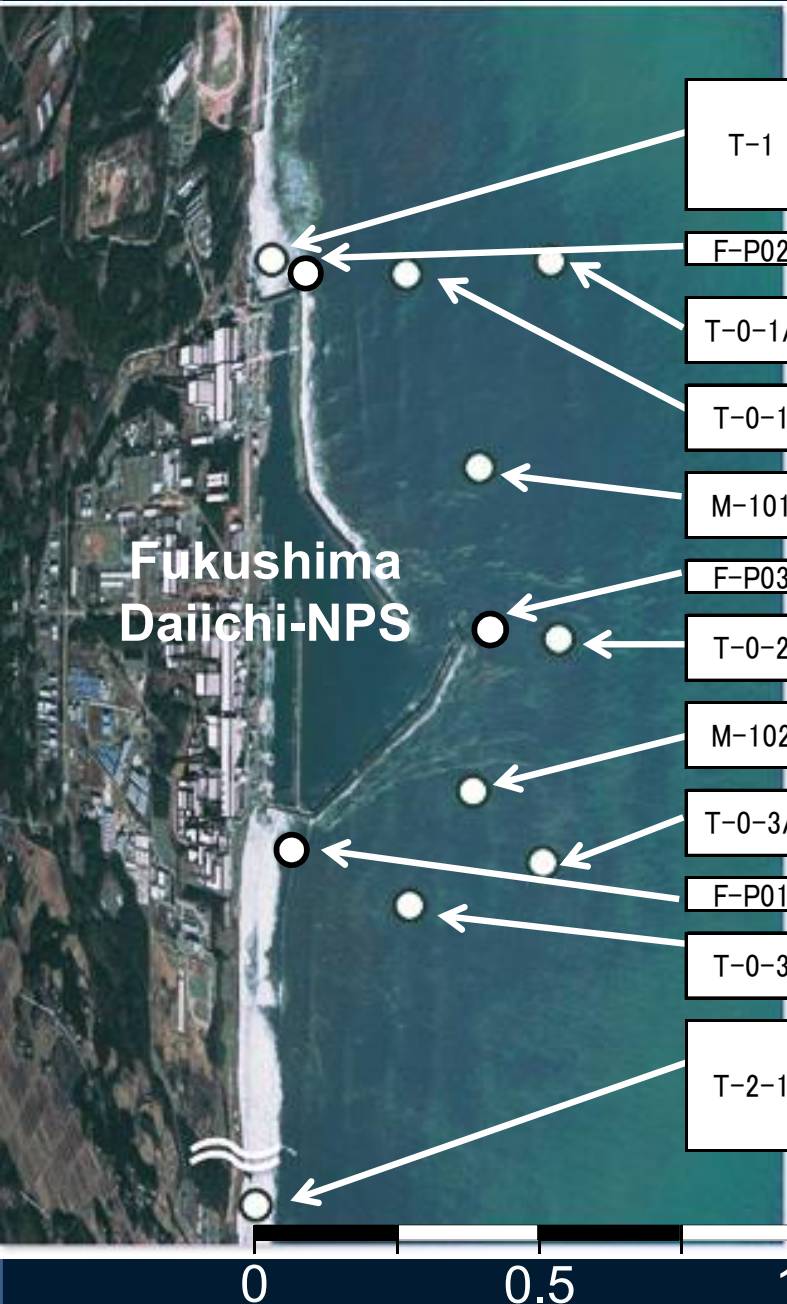


Sea Area Monitoring

March 17, 2015

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	2015/3/3	ND(0.55)	ND(0.54)	11 ^{*1}	1.7				
	2015/2/25	ND(0.59)	ND(0.60)	12 ^{*1}	ND(1.6)				
	2015/1/5	ND(0.74)	ND(0.53)	9.9 ^{*1}	ND(1.5)	0.032	ND(1.6)		
	2014/10/21	ND(0.69)	ND(0.83)					ND(5.1×10^{-6})	(9.4 ± 2.2) $\times 10^{-6}$
F-P02	2015/1/14	ND(0.070)	0.069	0.05 ^{*2}	ND(0.44)	0.047		ND(7×10^{-6})	7×10^{-6}
T-0-1A	2015/3/3	ND(0.80)	ND(0.64)	ND(15) ^{*1}	In progress				
	2015/2/23	ND(0.79)	ND(0.60)	ND(16) ^{*1}	ND(1.5)				
T-0-1	2015/3/3	ND(0.65)	ND(0.60)	ND(15) ^{*1}	In progress				
	2015/2/23	ND(0.73)	ND(0.59)	ND(16) ^{*1}	ND(1.5)				
M-101	2015/1/8	0.039	0.14		0.46	In progress			
	2014/11/6	0.021	0.070		0.18	0.0087			
F-P03	2015/1/14	ND(0.070)	0.082	0.12 ^{*2}	ND(0.44)	0.052		ND(6×10^{-6})	ND(7×10^{-6})
T-0-2	2015/3/3	ND(0.63)	ND(0.59)	ND(15) ^{*1}	In progress				
	2015/2/23	ND(0.77)	ND(0.50)	ND(16) ^{*1}	ND(1.5)				
M-102	2015/1/9	0.033	0.11		0.52	In progress			
	2014/11/5	0.015	0.047		0.11	0.0036			
T-0-3A	2015/3/3	ND(0.70)	ND(0.73)	ND(15) ^{*1}	In progress				
	2015/2/23	ND(0.63)	ND(0.53)	ND(16) ^{*1}	ND(1.5)				
F-P01	2015/1/14	ND(0.059)	ND(0.051)	0.04 ^{*2}	ND(0.43)	0.008		ND(8×10^{-6})	ND(6×10^{-6})
T-0-3	2015/3/3	ND(0.54)	ND(0.67)	ND(15) ^{*1}	In progress				
	2015/2/23	ND(0.63)	ND(0.62)	ND(16) ^{*1}	ND(1.5)				
T-2-1	2015/3/3	ND(0.70)	2.4	8.3 ^{*1}	ND(1.6)				
	2015/2/25	ND(0.61)	ND(0.55)	14 ^{*1}	ND(1.6)				
	2015/1/5	ND(0.83)	ND(0.59)	11 ^{*1}	ND(1.5)	0.013	ND(1.6)		
	2014/10/21	ND(0.81)	1.1	11 ^{*1}				ND(5.3×10^{-6})	(1.2 ± 0.25) $\times 10^{-5}$

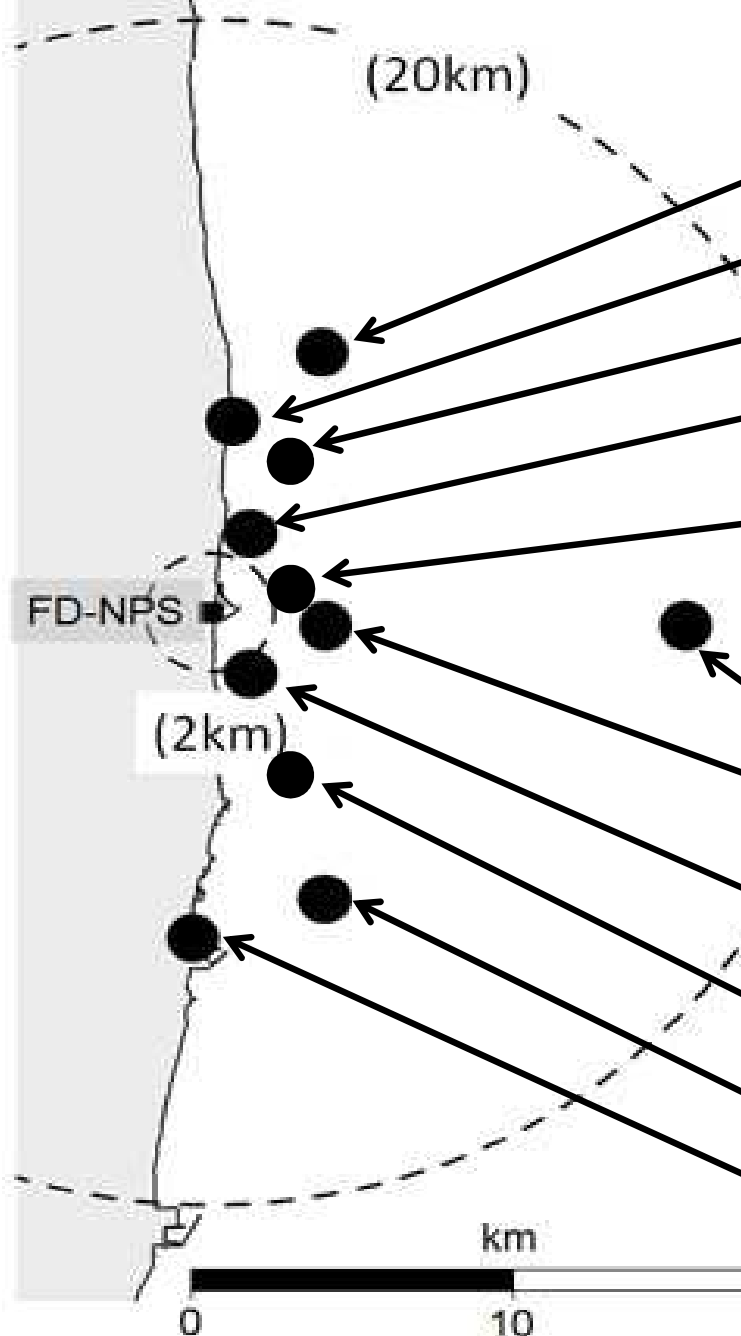
Sea area between 2-20km radius from the NPS (1)

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



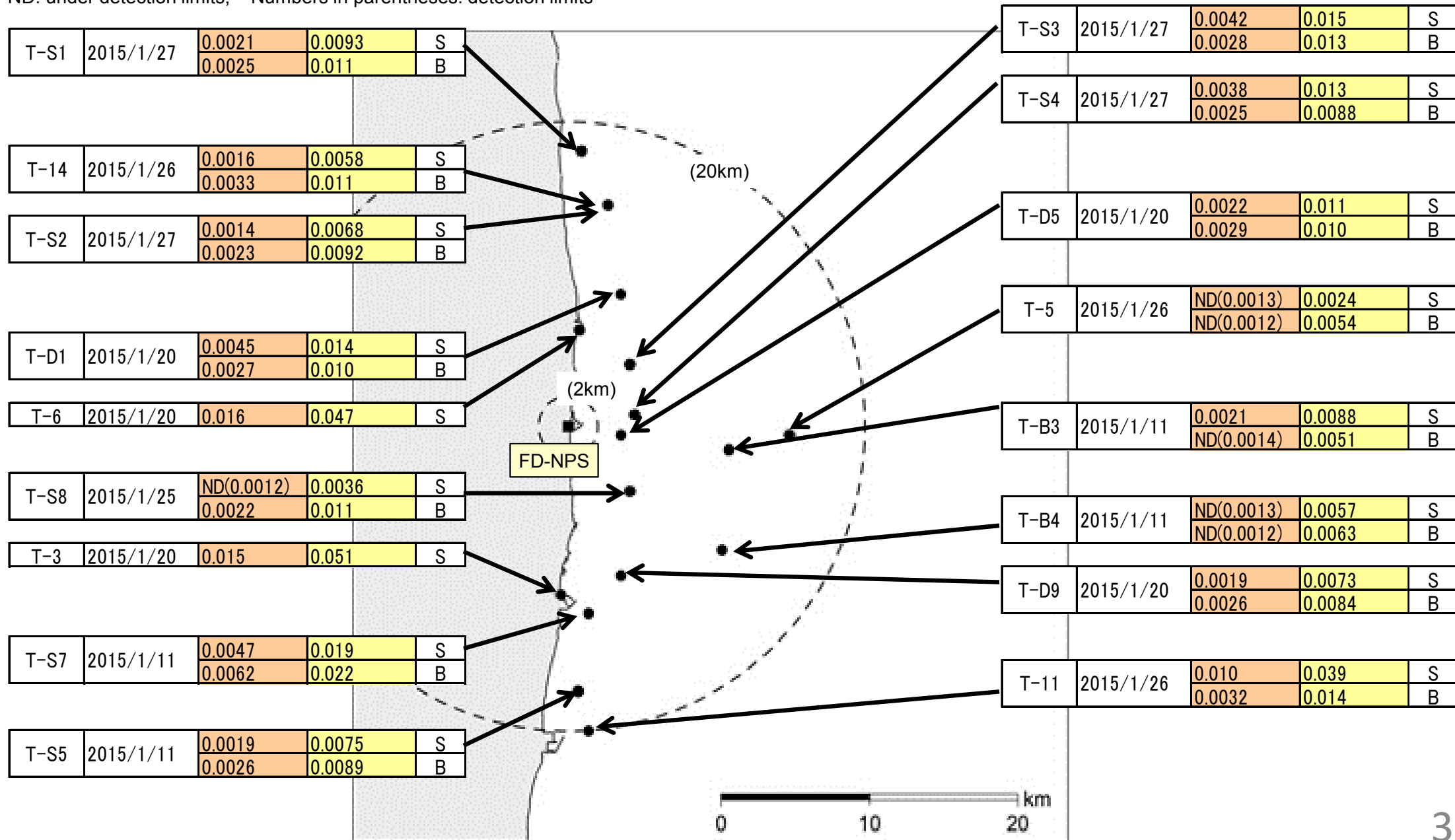
T-D1	2015/1/20	0.0045	0.014	ND(17) ^{*1}	ND(0.35)						S
	2015/1/6	0.0028	0.0088	ND(16) ^{*1}	ND(0.34)	ND(0.0095)	ND(1.9)				S
	2014/10/8	0.022	0.070						ND(6.2 × 10 ⁻⁶)	(5.5 ± 1.7) × 10 ⁻⁶	S
T-6	2015/1/20	0.016	0.047	ND(17) ^{*1}	0.68						S
F-P06	2015/1/14	ND(0.058)	ND(0.049)	0.03 ^{*2}	ND(0.44)	0.004			ND(9 × 10 ⁻⁶)	ND(7 × 10 ⁻⁶)	S
M-103	2015/1/8	0.0044	0.015		0.083	In progress					0.5m
	2014/11/6	0.0094	0.035		0.12	0.0025					0.5m
F-P04	2015/1/14	ND(0.074)	ND(0.065)	0.04 ^{*2}	ND(0.44)	0.005			ND(7 × 10 ⁻⁶)	9 × 10 ⁻⁶	S
T-5	2015/1/20	ND(0.0013)	0.0047	ND(17) ^{*1}	ND(0.35)						S
	2015/1/5	ND(0.0014)	0.0047	ND(16) ^{*1}	ND(0.34)	ND(0.0087)	ND(1.6)				S
	2014/10/18	ND(0.0013)	0.0026						ND(5.4 × 10 ⁻⁶)	(6.6 ± 1.8) × 10 ⁻⁶	S
T-D5	2015/1/20	0.0022	0.011	ND(17) ^{*1}	ND(0.35)						S
	2015/1/6	0.0027	0.0094	ND(16) ^{*1}	ND(0.34)	ND(0.0097)	ND(1.9)				S
	2014/10/8	0.024	0.067						ND(6.1 × 10 ⁻⁶)	(8.4 ± 2.2) × 10 ⁻⁶	S
M-104	2015/1/9	0.019	0.070		0.24	In progress					0.5m
	2014/11/5	0.0096	0.035		0.12	0.0039					0.5m
F-P05	2015/1/14	ND(0.061)	ND(0.060)	0.04 ^{*2}	ND(0.44)	0.004			ND(8 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)	S
T-D9	2015/1/20	0.0019	0.0073	ND(17) ^{*1}	ND(0.35)						S
	2015/1/5	0.0027	0.0087	ND(16) ^{*1}	ND(0.34)	ND(0.0093)	ND(1.6)				S
	2014/10/18	0.012	0.036						ND(4.8 × 10 ⁻⁶)	(5.0 ± 1.6) × 10 ⁻⁶	S
T-3	2015/1/20	0.015	0.051	ND(16) ^{*1}	ND(0.31)						S

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	2015/1/14	0.0016 0.0025	0.0068 0.0076		S B
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T-13-1	2015/1/14	0.0020 0.0032	0.0088 0.012		S B
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T-7	2015/1/6	ND(0.0013) ND(0.0012)	0.0035 0.0032		S B
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T-4	2015/1/20	0.021	0.083		S
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T-12	2015/1/17	0.0030 0.0033	0.011 0.014		S B
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T-17-1	2015/1/17	0.0032 0.0031	0.0099 0.013		S B
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M-C1	2014/11/3	0.0011 ND(0.00071)	0.0044 0.0032	0.0011 	1m 44m
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T-B1	2015/1/30	ND(0.0012) 0.0014	0.0033 0.0036		S B
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M-D1	2014/11/9	ND(0.00058) 0.00085	0.0019 0.0029	0.00085 	1m 50m 113m
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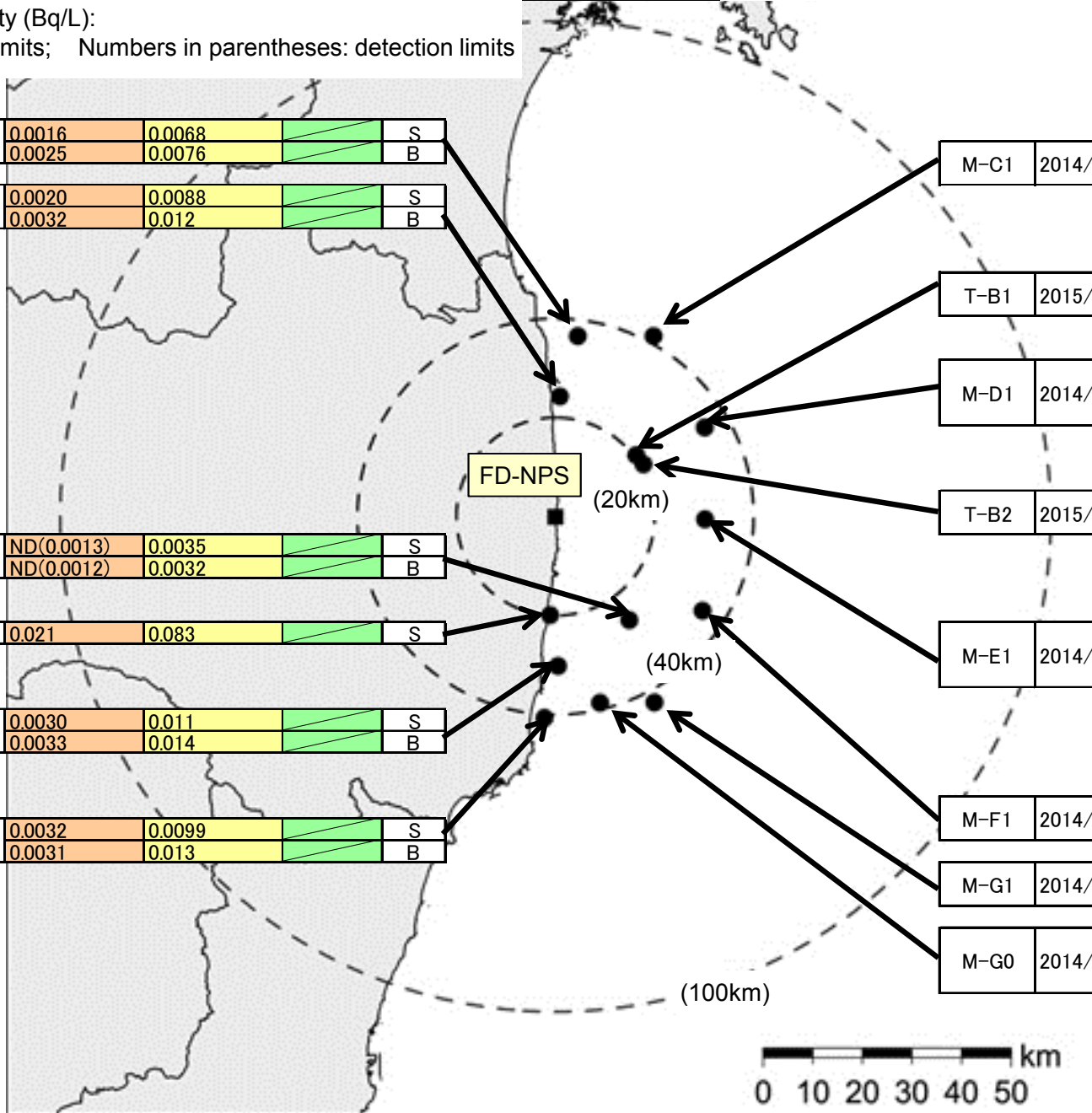
T-B2	2015/1/30	ND(0.0012) ND(0.0014)	0.0037 0.0040		S B
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M-E1	2014/11/17	ND(0.00057) ND(0.00063) ND(0.00062)	0.0021 0.0022 0.0025	0.0010 	1m 50m 124m
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M-F1	2014/11/12	ND(0.00063) ND(0.00072)	0.0019 0.0033		1m 125m
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M-G1	2014/11/12	ND(0.00059) 0.00086	0.0022 0.0035		1m 130m
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M-G0	2014/11/18	ND(0.00060) ND(0.00064) ND(0.00074)	0.0022 0.0025 0.0038		1m 50m 96m
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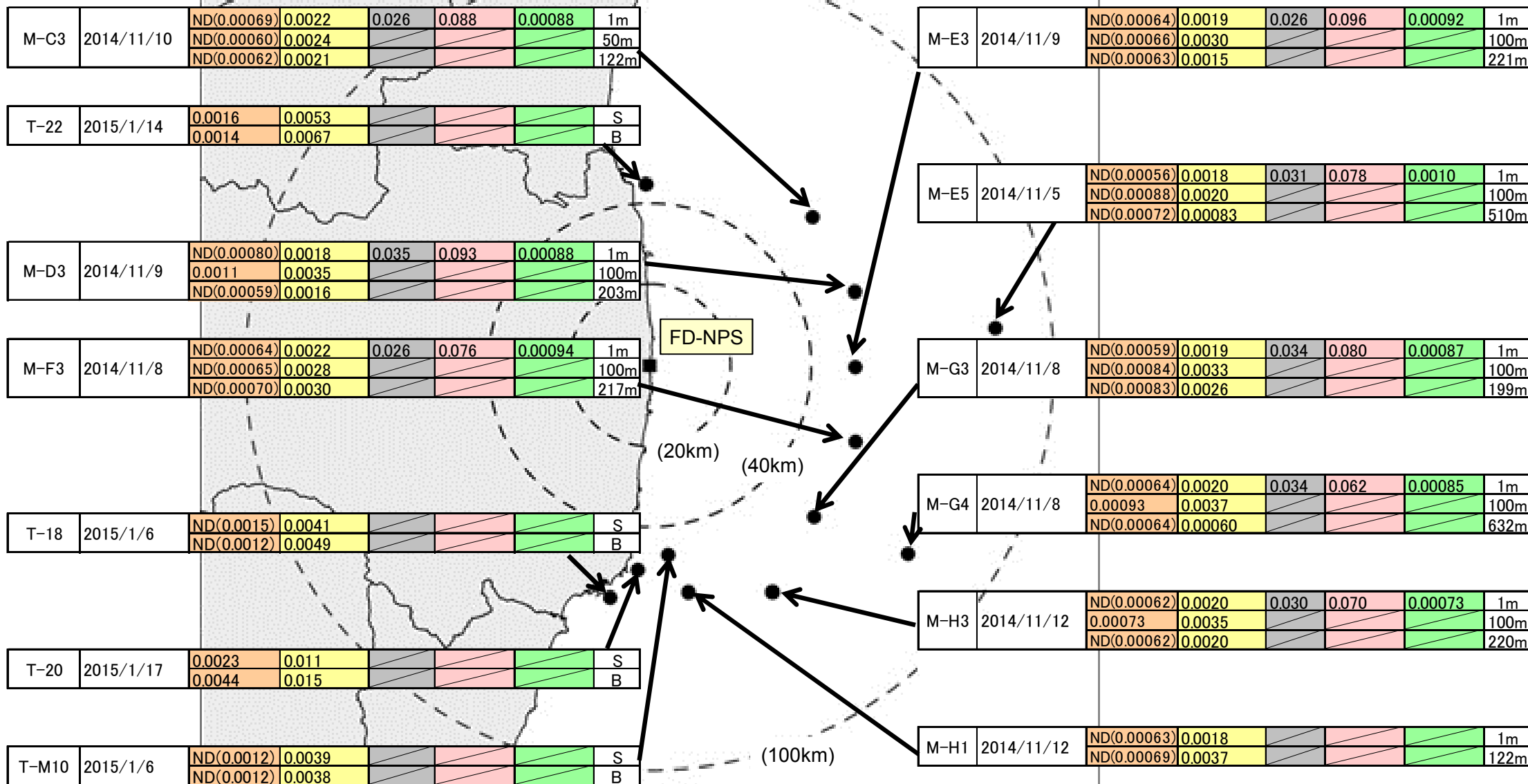
Sea area between 20-100km radius from the NPS(2)

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

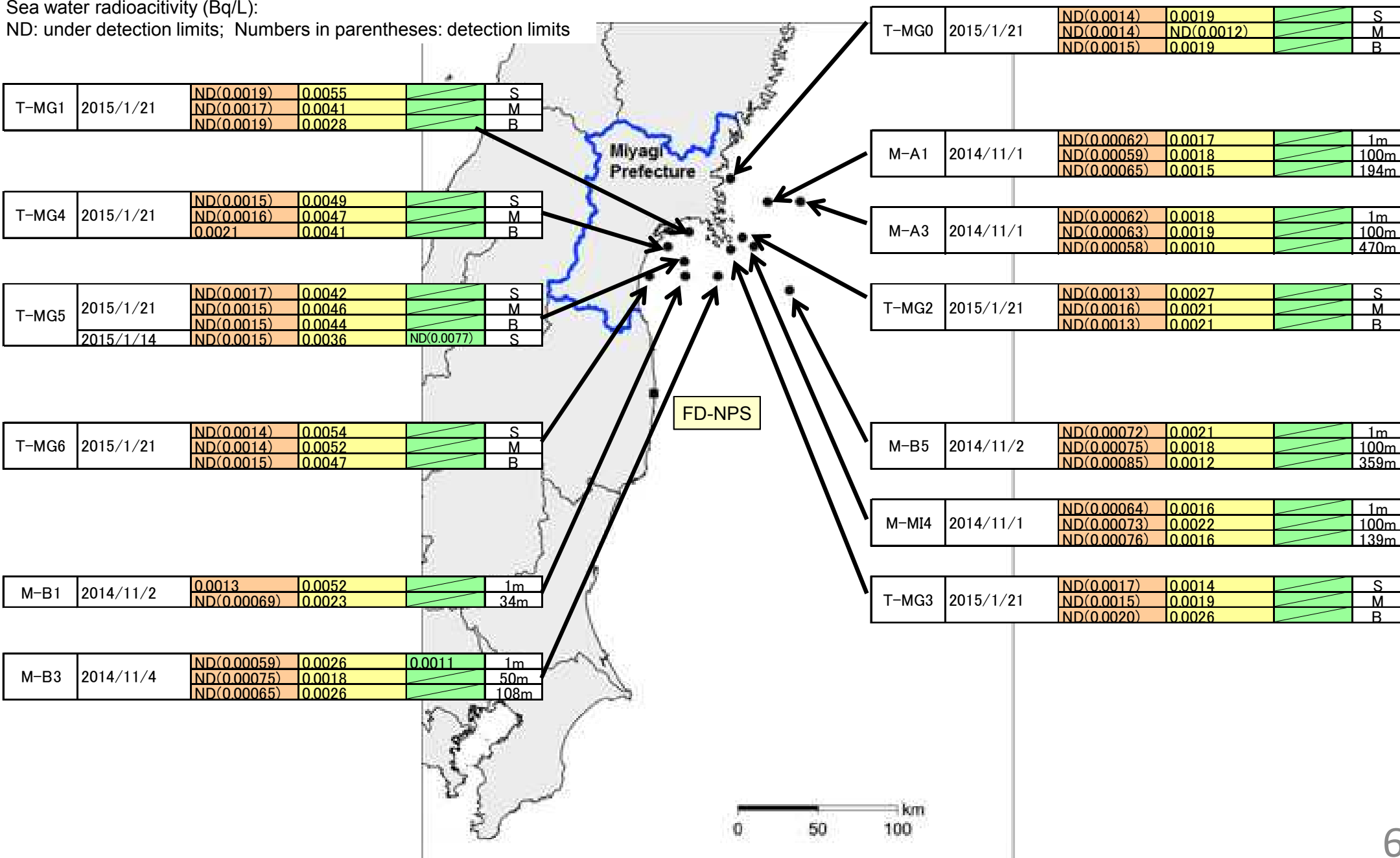


Sea area along and off the coast of Miyagi Prefecture

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

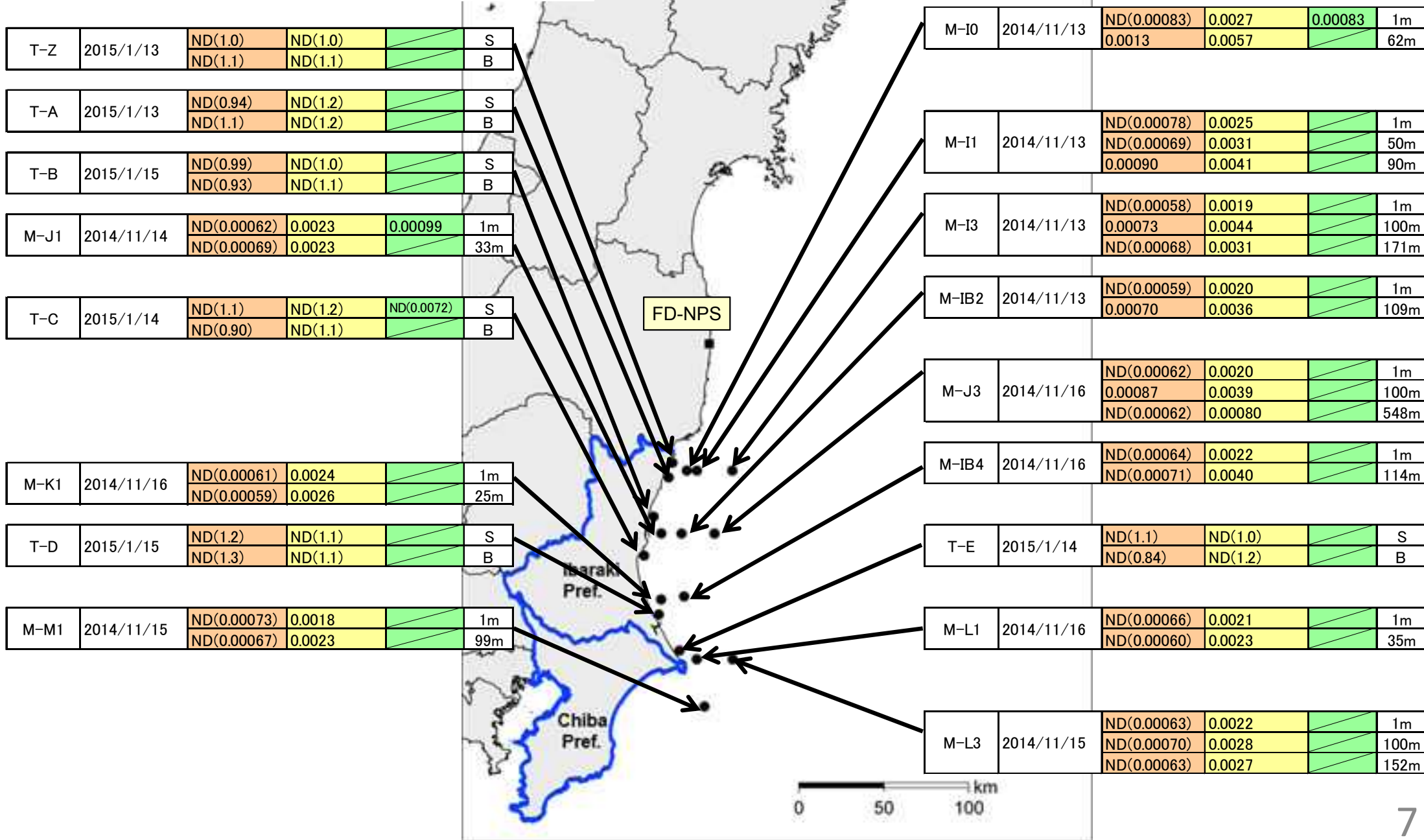


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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	2014/10/22	ND(0.00073)	0.0018	1m
		ND(0.00061)	0.0017	103m
		ND(0.00065)	0.0013	200m
		ND(0.00066)	0.0010	301m
		ND(0.00061)	0.00060	498m

M-11	2014/10/25	ND(0.00065)	0.0018	1m
		ND(0.00060)	0.0031	100m
		ND(0.00059)	0.0020	200m
		ND(0.00057)	0.0014	300m
		ND(0.00059)	0.0011	500m

M-14	2014/10/24	ND(0.00065)	0.0023	1m
		0.00064	0.0028	100m
		ND(0.00061)	0.0017	200m
		ND(0.00071)	0.0012	300m
		ND(0.00067)	0.00073	500m

M-15	2014/10/25	ND(0.00057)	0.0020	1m
		ND(0.00064)	0.0026	100m
		ND(0.00061)	0.0015	200m
		ND(0.00059)	0.0013	300m
		ND(0.00058)	0.00066	500m

M-19	2014/10/28	ND(0.00058)	0.0018	1m
		ND(0.00052)	0.0027	100m
		0.0013	0.0045	200m
		ND(0.00063)	0.0034	300m
		ND(0.00055)	0.0017	500m

M-21	2014/10/26	ND(0.00058)	0.0015	1m
		ND(0.00065)	0.0026	100m
		0.0010	0.0041	200m
		0.00080	0.0042	300m
		0.00068	0.0029	500m

M-20	2014/10/29	ND(0.00066)	0.0016	1m
		ND(0.00062)	0.0027	100m
		0.0016	0.0046	200m
		ND(0.00078)	0.0045	300m
		ND(0.00069)	0.0014	500m

M-26	2014/10/27	ND(0.00070)	0.0016	1m
		0.00095	0.0030	100m
		0.00074	0.0027	200m
		ND(0.00062)	0.0026	300m
		ND(0.00065)	0.00093	500m

M-25	2014/10/27	ND(0.00061)	0.0016	1m
		ND(0.00056)	0.0029	100m
		ND(0.00058)	0.0029	200m
		ND(0.00071)	0.0021	300m
		ND(0.00056)	0.00083	500m

M-27	2014/10/26	ND(0.00063)	0.0016	1m
		ND(0.00062)	0.0025	100m
		0.00070	0.0030	200m
		ND(0.00063)	0.0024	300m
		ND(0.00056)	0.0014	500m

