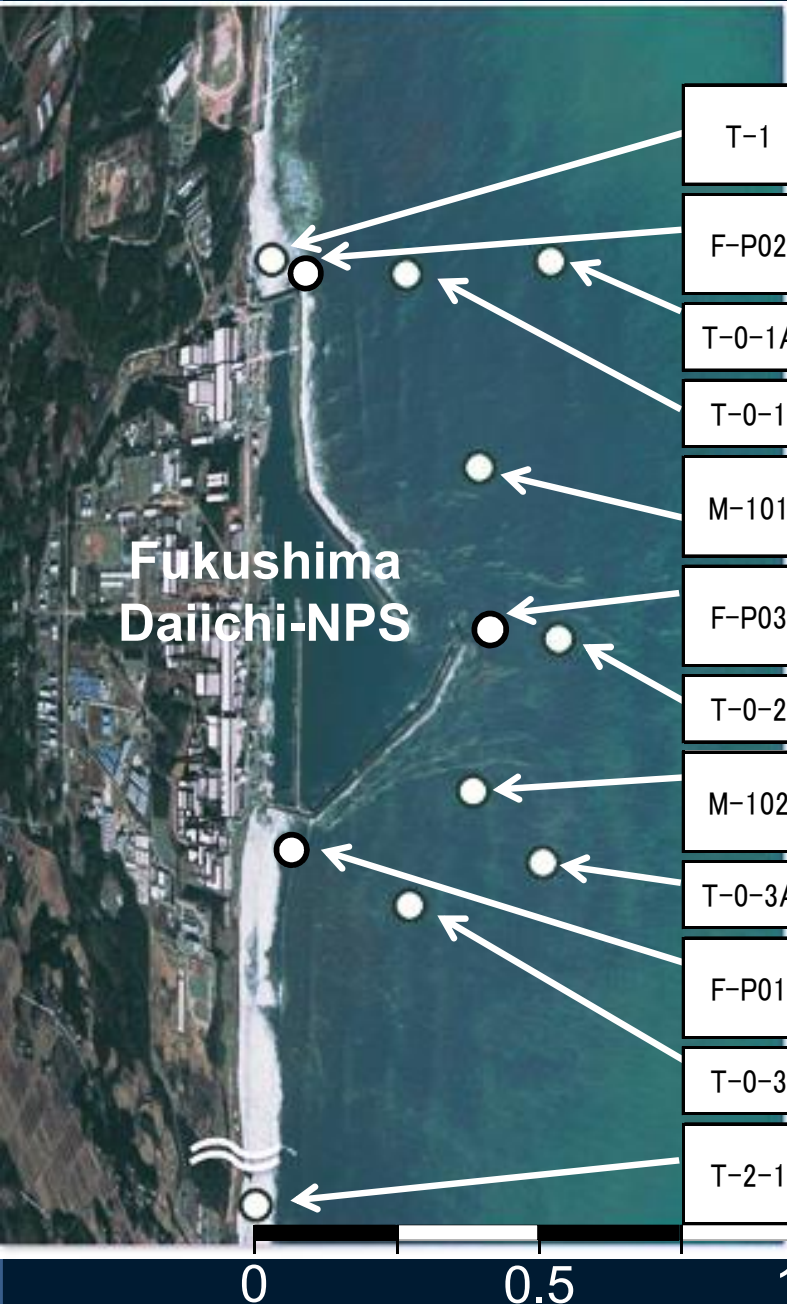


Sea Area Monitoring

June 16, 2015

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+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	2015/6/1	ND(0.74)	ND(0.60)	13 ^{*1}	2.1				
	2015/4/8	ND(0.55)	ND(0.64)					ND(5.5×10^{-6})	ND(6.1×10^{-6})
	2015/4/6	ND(0.69)	ND(0.67)	15 ^{*1}	2.2	0.030	ND(2.0)		
F-P02	2015/4/22	ND(0.070)	ND(0.057)	0.02 ^{*2}	ND(0.43)	In progress		In progress	In progress
	2015/3/3	ND(0.072)	0.094	0.06 ^{*2}	ND(0.43)	0.041		ND(7×10^{-6})	1.1×10^{-5}
	2015/2/10	ND(0.069)	ND(0.054)	0.04 ^{*2}	ND(0.42)	0.008		ND(6×10^{-6})	7×10^{-6}
T-0-1A	2015/6/1	ND(0.87)	ND(0.65)	ND(17) ^{*1}	In progress				
	2015/5/30	ND(0.71)	ND(0.78)	ND(17) ^{*1}	ND(1.9)				
T-0-1	2015/6/1	ND(0.63)	ND(0.60)	ND(17) ^{*1}	In progress				
	2015/5/30	ND(0.71)	ND(0.78)	ND(17) ^{*1}	ND(1.9)				
M-101	2015/3/5	0.072	0.26		In progress	In progress			
	2015/2/4	0.010	0.039		0.063	In progress			
	2015/1/8	0.039	0.14		0.46	0.10			
F-P03	2015/4/22	ND(0.062)	ND(0.051)	0.02 ^{*2}	ND(0.44)	In progress		In progress	In progress
	2015/3/3	0.079	0.23	0.14 ^{*2}	1.4	0.23		ND(6×10^{-6})	ND(8×10^{-6})
	2015/2/10	0.097	0.16	0.18 ^{*2}	0.59	0.47		ND(7×10^{-6})	ND(7×10^{-6})
T-0-2	2015/6/1	ND(0.69)	ND(0.76)	ND(17) ^{*1}	In progress				
	2015/5/30	ND(0.72)	ND(0.45)	18 ^{*1}	ND(1.9)				
M-102	2015/3/6	0.022	0.077		In progress	In progress			
	2015/2/5	0.016	0.052		0.17	In progress			
	2015/1/9	0.033	0.11		0.52	0.11			
T-0-3A	2015/6/1	ND(0.81)	ND(0.75)	ND(17) ^{*1}	In progress				
	2015/5/30	ND(0.76)	ND(0.81)	ND(17) ^{*1}	ND(1.9)				
F-P01	2015/4/22	ND(0.068)	ND(0.050)	0.02 ^{*2}	ND(0.44)	In progress		In progress	In progress
	2015/3/3	ND(0.068)	0.075	0.04 ^{*2}	ND(0.43)	0.004		ND(6×10^{-6})	ND(6×10^{-6})
	2015/2/10	ND(0.059)	0.070	0.06 ^{*2}	ND(0.43)	0.038		ND(6×10^{-6})	6×10^{-6}
T-0-3	2015/6/1	ND(0.69)	ND(0.52)	ND(17) ^{*1}	In progress				
	2015/5/30	ND(0.78)	ND(0.68)	ND(17) ^{*1}	ND(1.9)				
T-2-1	2015/6/1	ND(0.67)	ND(0.78)	14 ^{*1}	ND(1.7)				
	2015/4/8	ND(0.66)	ND(0.60)	8.9 ^{*1}				ND(6.9×10^{-6})	$(9.7 \pm 2.4) \times 10^{-6}$
	2015/4/6	ND(0.70)	ND(0.62)	15 ^{*1}	2.0	ND(0.011)	ND(2.0)		

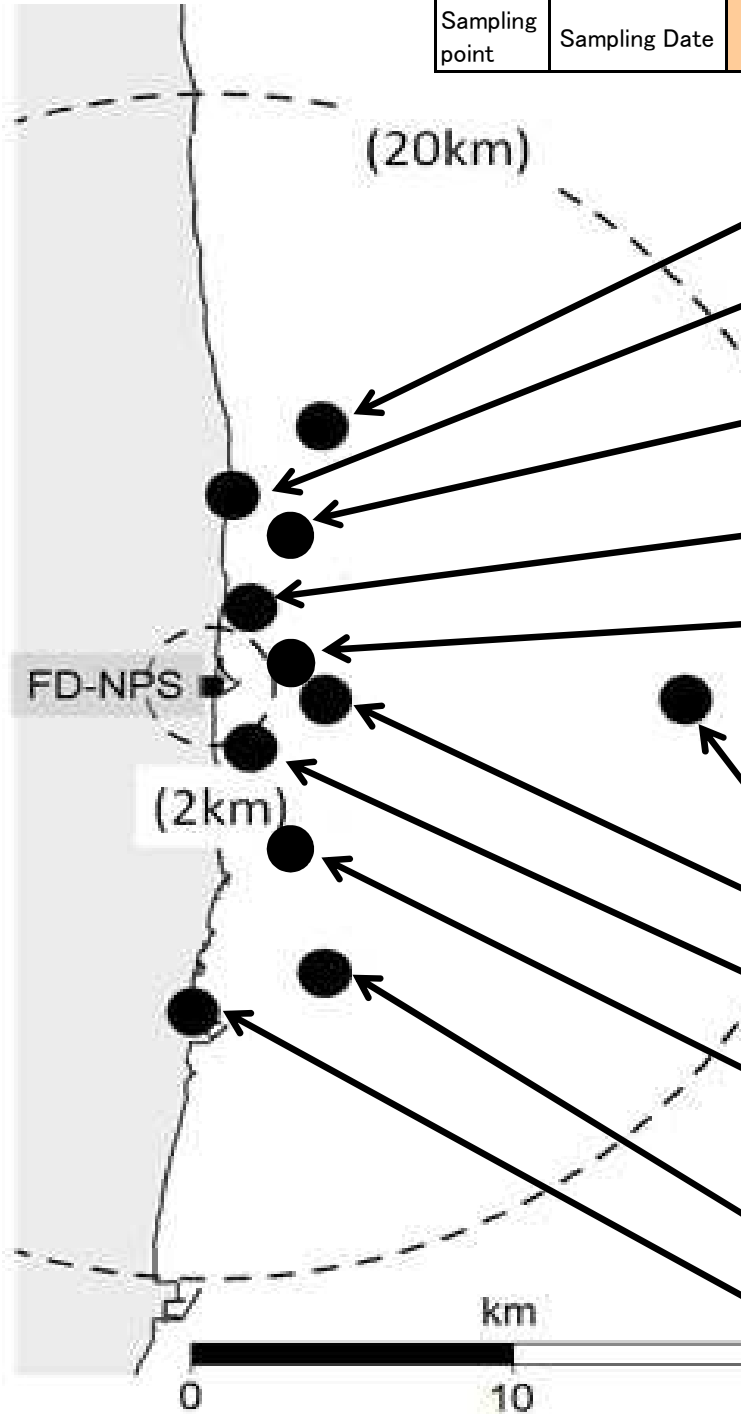
Sea area between 2-20km radius from the NPS (1)

Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+240	S	S:2m below sea level Depth(m) from 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	2015/4/23	ND(0.0017)	0.0080	ND(16) ^{*1}	ND(0.36)						S
	2015/4/8	0.0017	0.0048	ND(15) ^{*1}	0.49	ND(0.0099)	ND(2.0)	ND(7.0 × 10 ⁻⁶)	ND(6.8 × 10 ⁻⁶)		S
T-6	2015/4/21	0.015	0.054	ND(15) ^{*1}	ND(0.32)						S
F-P06	2015/4/22	ND(0.056)	ND(0.050)	0.02 ^{*2}	ND(0.44)	In progress		In progress	In progress		S
	2015/3/3	ND(0.059)	ND(0.057)	0.03 ^{*2}	ND(0.43)	0.004		ND(6 × 10 ⁻⁶)	6 × 10 ⁻⁶		S
	2015/2/10	ND(0.057)	ND(0.061)	0.03 ^{*2}	ND(0.43)	0.001		ND(5 × 10 ⁻⁶)	7 × 10 ⁻⁶		S
M-103	2015/3/5	0.0061	0.027		In progress	In progress					0.5m
	2015/2/4	0.0087	0.032		0.083	In progress					0.5m
	2015/1/8	0.0044	0.015		0.083	0.0039					0.5m
F-P04	2015/4/22	ND(0.066)	ND(0.053)	0.02 ^{*2}	ND(0.43)	In progress		In progress	In progress		S
	2015/3/3	ND(0.064)	ND(0.052)	0.03 ^{*2}	0.48	0.002		ND(7 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)		S
	2015/2/10	ND(0.081)	ND(0.062)	0.04 ^{*2}	ND(0.43)	0.001		ND(9 × 10 ⁻⁶)	ND(7 × 10 ⁻⁶)		S
T-5	2015/4/23	ND(0.0015)	0.0038	ND(16) ^{*1}	ND(0.36)						S
	2015/4/9	ND(0.0014)	0.0021	ND(17) ^{*1}	ND(0.32)	ND(0.011)	ND(1.6)	ND(5.7 × 10 ⁻⁶)	ND(5.6 × 10 ⁻⁶)		S
T-D5	2015/4/20	0.0027	0.011	ND(17) ^{*1}	ND(0.35)						S
	2015/4/8	ND(0.0016)	0.0062	ND(15) ^{*1}	0.70	ND(0.011)	ND(2.0)	ND(6.3 × 10 ⁻⁶)	ND(6.0 × 10 ⁻⁶)		S
M-104	2015/3/6	0.0056	0.020		In progress	In progress					0.5m
	2015/2/5	0.0040	0.017		0.082	In progress					0.5m
	2015/1/9	0.019	0.070		0.24	0.042					0.5m
F-P05	2015/4/22	ND(0.075)	ND(0.066)	0.02 ^{*2}	ND(0.44)	In progress		In progress	In progress		S
	2015/3/3	ND(0.096)	ND(0.053)	0.04 ^{*2}	ND(0.43)	0.004		ND(6 × 10 ⁻⁶)	8 × 10 ⁻⁶		S
	2015/2/10	ND(0.062)	ND(0.052)	0.04 ^{*2}	ND(0.43)	0.002		ND(6 × 10 ⁻⁶)	ND(7 × 10 ⁻⁶)		S
T-D9	2015/4/20	0.0031	0.010	ND(17) ^{*1}	ND(0.35)						S
	2015/4/9	ND(0.0017)	0.0043	ND(17) ^{*1}	ND(0.32)	ND(0.0092)	ND(1.6)	ND(6.7 × 10 ⁻⁶)	ND(6.5 × 10 ⁻⁶)		S
T-3	2015/4/21	0.010	0.037	ND(16) ^{*1}	ND(0.34)						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

T-S1	2015/4/23	0.0022	0.0076	S
		0.0023	0.0067	B

T-14	2015/4/27	0.0024	0.011	S
		0.0014	0.0046	B

T-D1	2015/4/27	0.0049	0.016	S
		ND(0.0016)	0.0054	B

T-6	2015/4/28	0.025	0.081	S
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T-S8	2015/4/19	0.0051	0.016	S
		ND(0.0015)	0.0069	B

T-3	2015/4/28	0.0077	0.028	S
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T-S7	2015/4/12	0.0052	0.023	S
		0.0026	0.011	B

T-S5	2015/4/12	0.0062	0.025	S
		0.0018	0.0083	B

T-S3	2015/4/8	0.0018	0.0064	S
		0.0015	0.0098	B

T-S4	2015/4/8	ND(0.0013)	0.0060	S
		0.0030	0.012	B

T-D5	2015/4/27	0.0031	0.013	S
		0.0016	0.0061	B

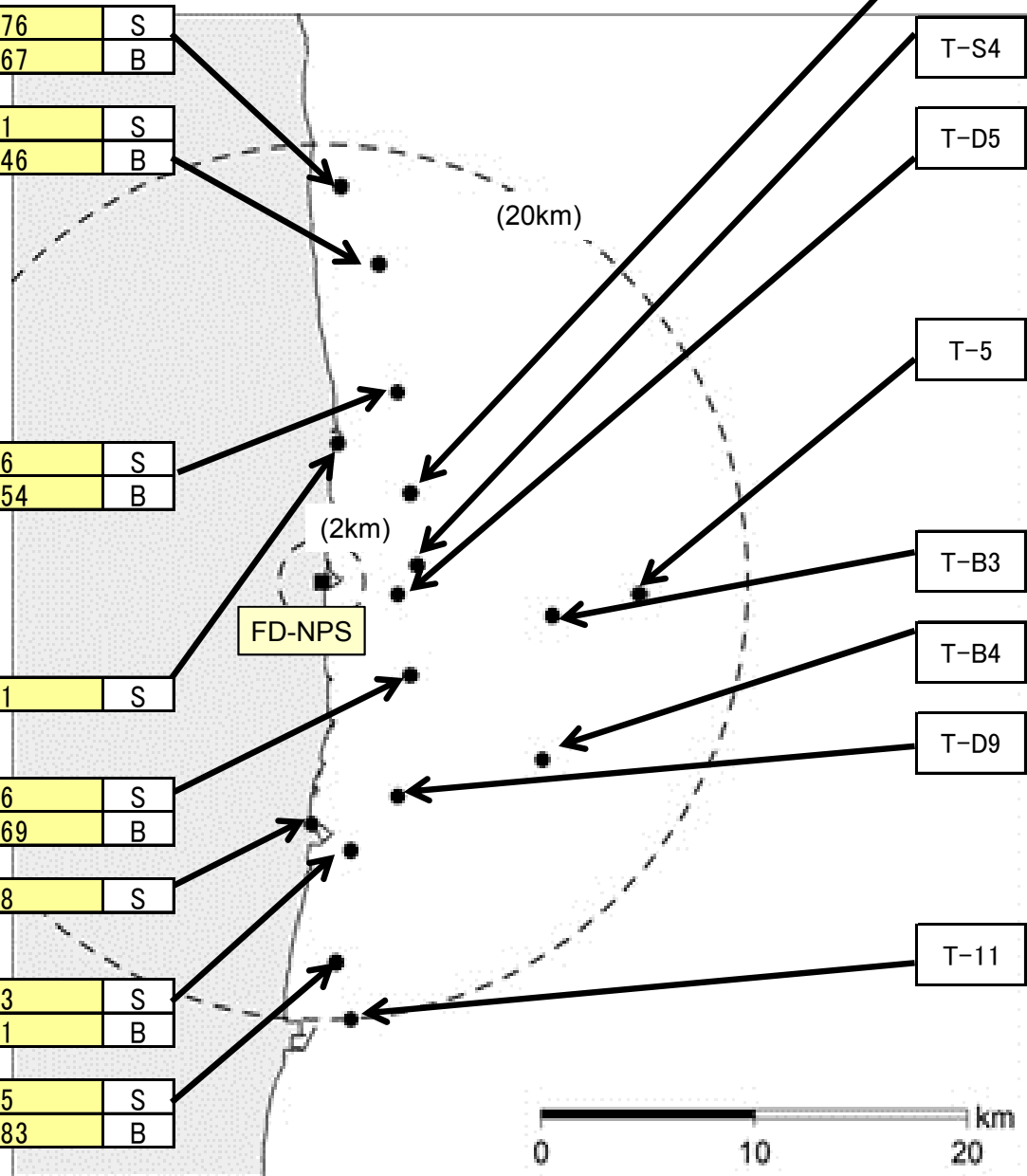
T-5	2015/4/28	ND(0.0018)	0.0044	S
		ND(0.0019)	0.0053	B

T-B3	2015/4/24	ND(0.0016)	0.0033	S
		ND(0.0014)	0.0041	B

T-B4	2015/4/24	0.0013	0.0048	S
		ND(0.0013)	0.0032	B

T-D9	2015/4/28	0.0019	0.0088	S
		ND(0.0016)	0.0066	B

T-11	2015/4/28	0.0025	0.0076	S
		0.0019	0.0058	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

T-MA	2015/4/9	ND(0.0015)	0.0056		S
		ND(0.0013)	0.0060		B

T-13-1	2015/4/9	ND(0.0014)	0.0061		S
		ND(0.0014)	0.0055		B

T-7	2015/4/10	ND(0.0014)	0.0013		S
		ND(0.0013)	0.0026		B

T-4	2015/4/28	0.0074	0.023		S
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T-12	2015/4/10	0.0016	0.0057		S
		ND(0.0014)	0.0052		B

T-17-1	2015/4/10	0.0017	0.0054		S
		0.0024	0.0062		B

M-C1	2015/1/22	ND(0.00072)	0.0028	0.00091	1m
		ND(0.00087)	0.0030		50m

T-B1	2015/4/28	ND(0.0013)	0.0034		S
		0.0014	0.0057		B

M-D1	2015/2/2	ND(0.00076)	0.0024	0.00093	1m
		ND(0.00061)	0.0019		50m
		ND(0.00075)	0.0021		120m

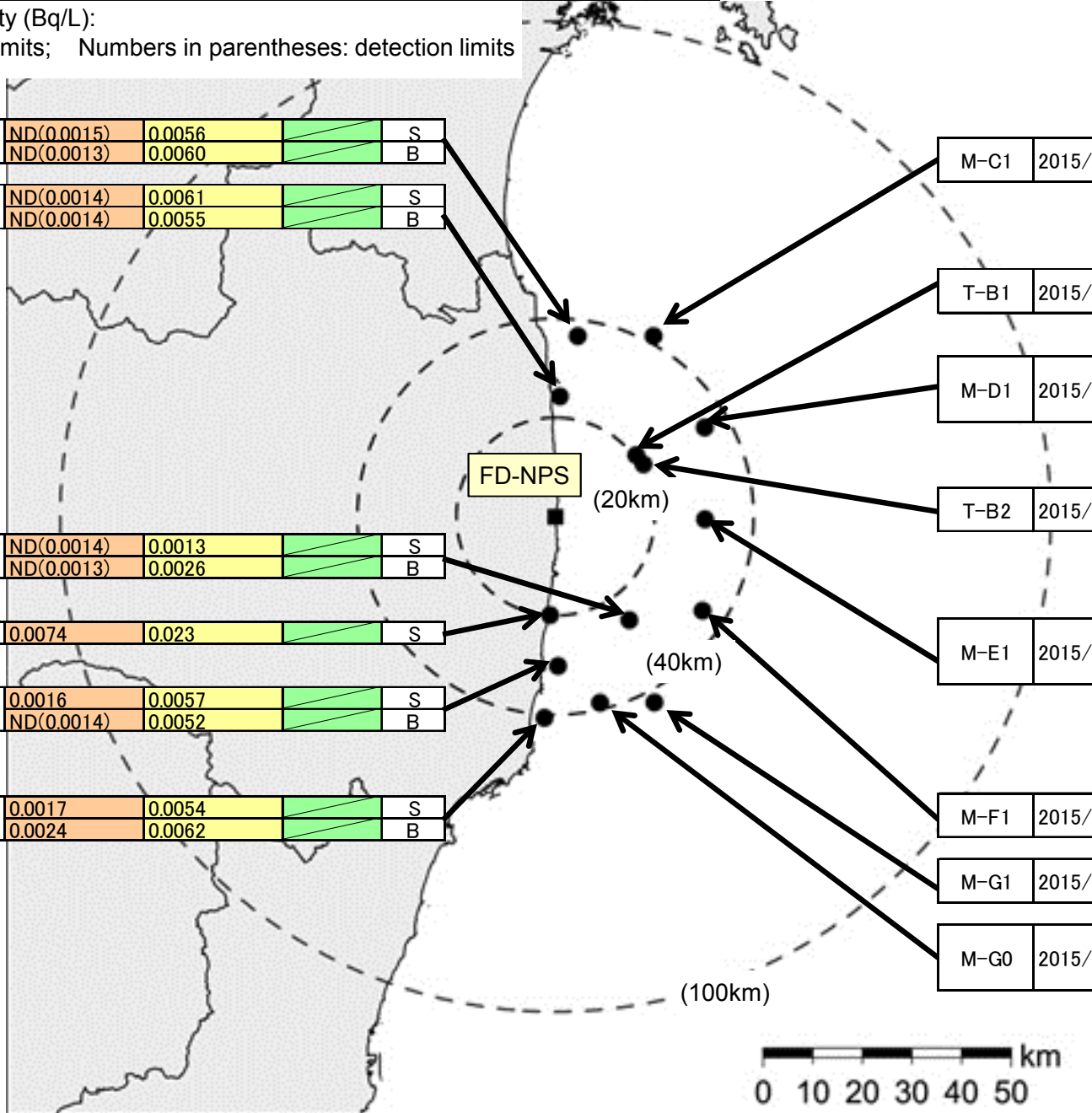
T-B2	2015/4/28	ND(0.0014)	0.0024		S
		ND(0.0015)	0.0033		B

M-E1	2015/2/6	ND(0.00057)	0.0022	0.0010	1m
		ND(0.00067)	0.0025		50m
		ND(0.00065)	0.0020		131m

M-F1	2015/1/24	ND(0.00069)	0.0038		1m
		0.00091	0.0043		138m

M-G1	2015/1/24	ND(0.00068)	0.0032		1m
		ND(0.00065)	0.0026		133m

M-G0	2015/1/26	0.00064	0.0048		1m
		0.0015	0.0054		50m
		0.0014	0.0057		102m



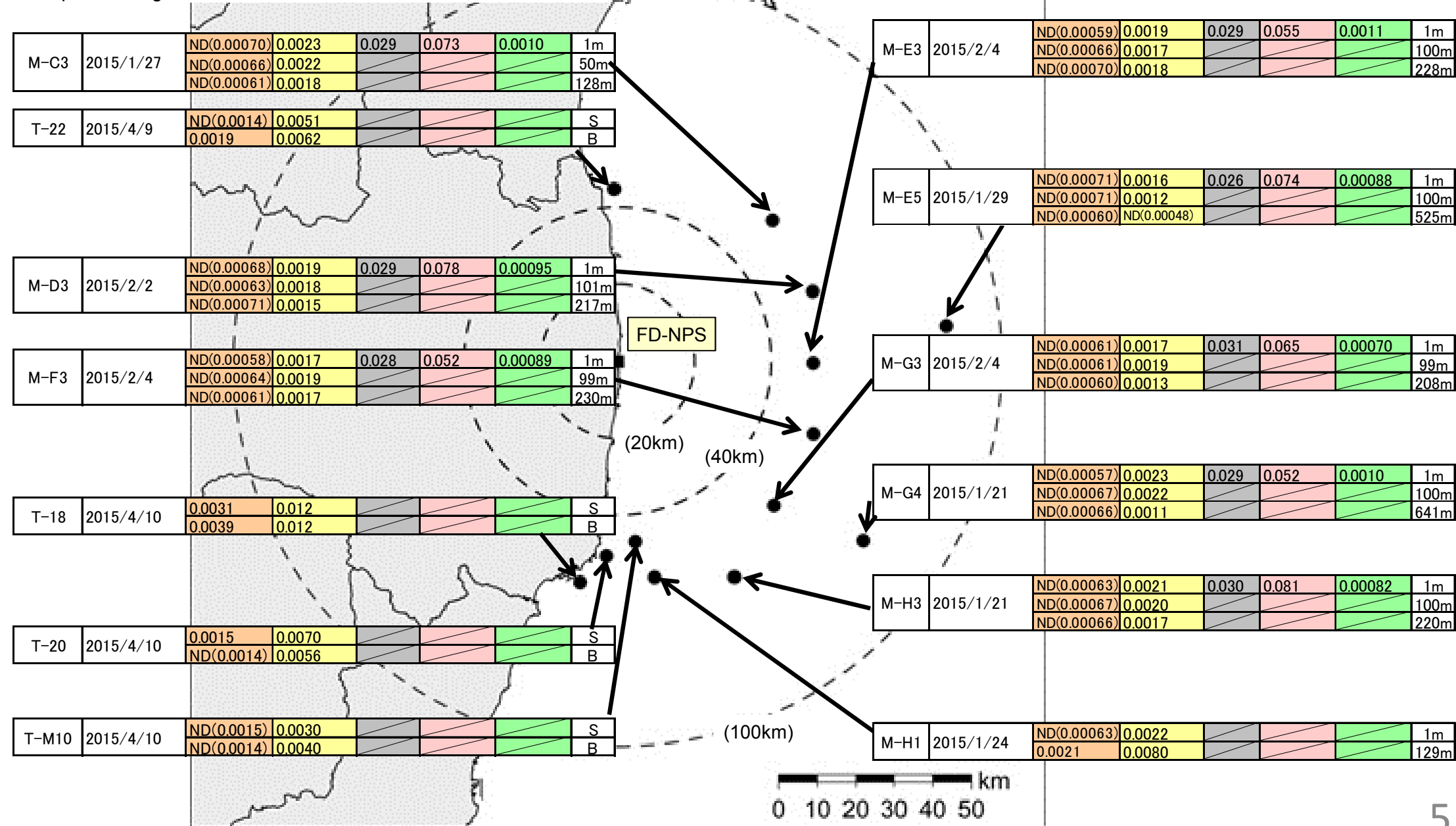
Sea area between 20-100km radius from the NPS(2)

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

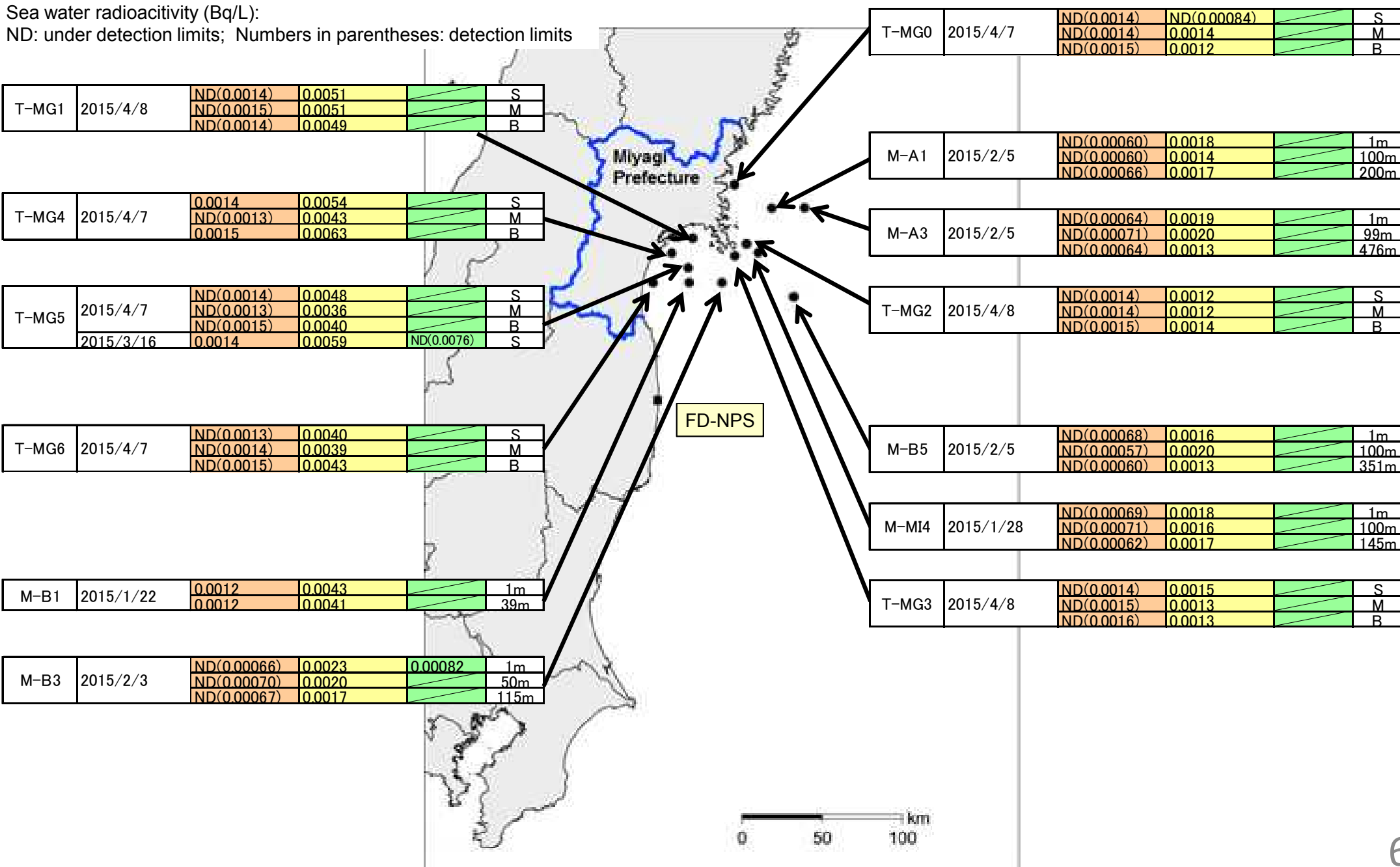


Sea area along and off the coast of Miyagi Prefecture

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

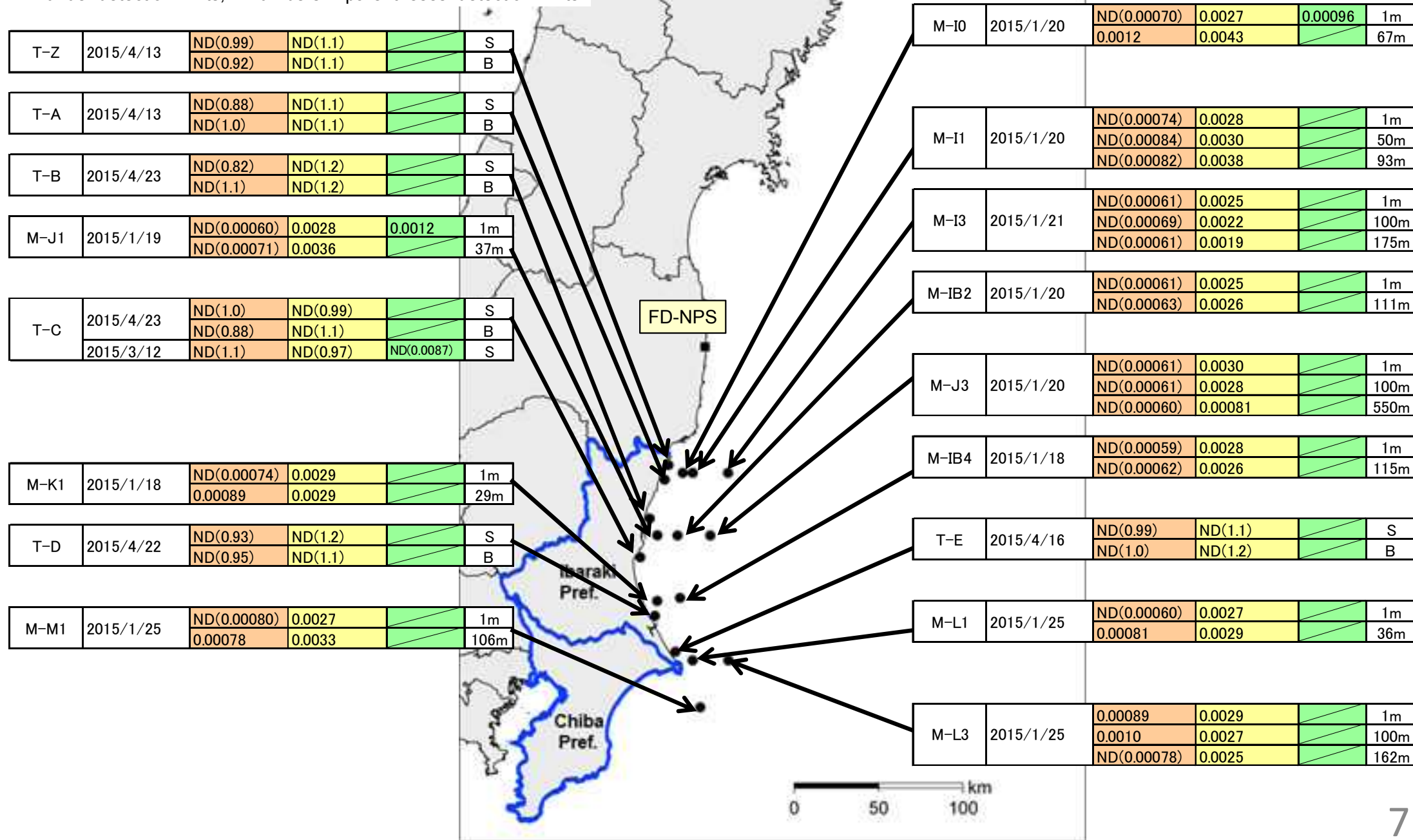


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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

