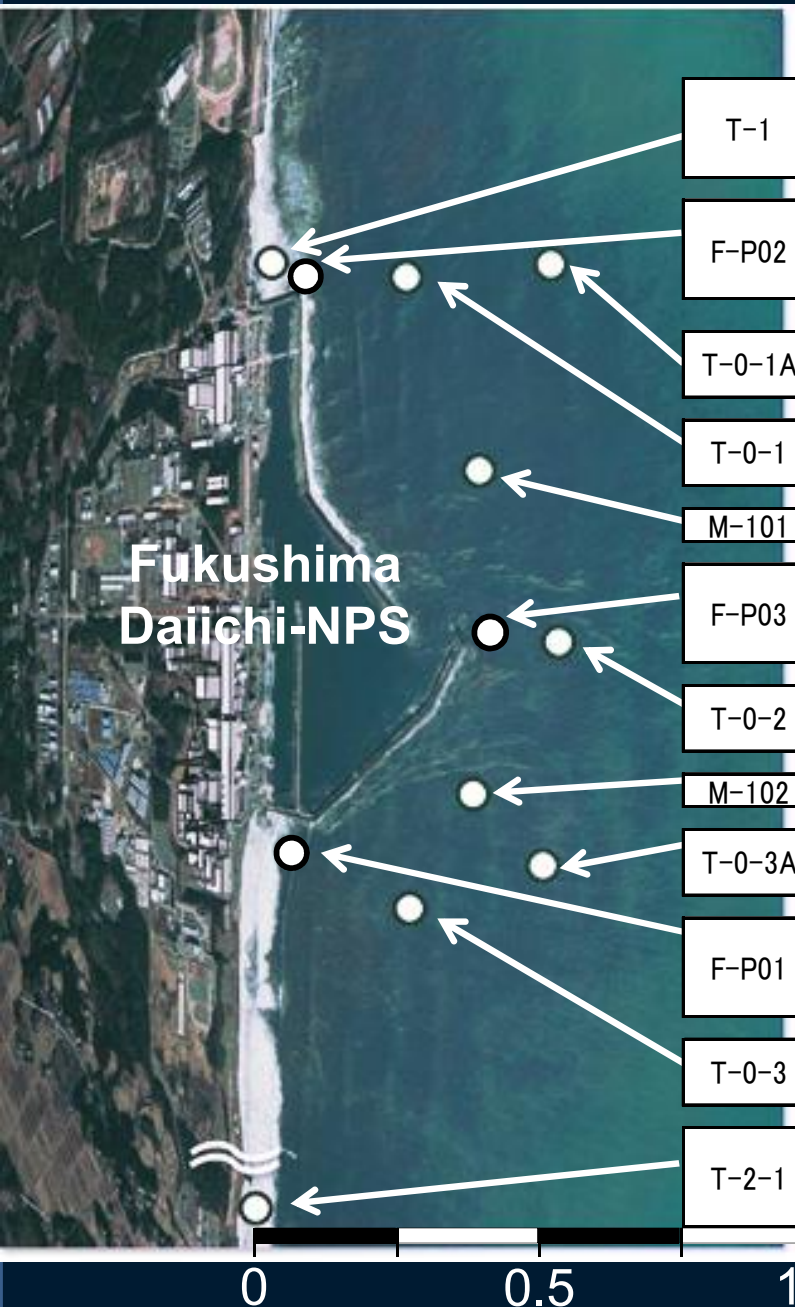


Sea Area Monitoring

April 28, 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	2015/4/13	ND(0.73)	ND(0.64)	11 ^{*1}	1.7				
	2015/2/9	ND(0.84)	ND(0.78)	13 ^{*1}	ND(1.5)	0.12	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	2015/3/3	ND(0.072)	0.094	0.06 ^{*2}	In progress	In progress		In progress	In progress
	2015/2/10	ND(0.069)	ND(0.054)	0.04 ^{*2}	ND(0.42)	0.008		In progress	In progress
	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	2015/4/16	ND(0.73)	ND(0.73)	ND(15) ^{*1}	In progress				
	2015/4/8	ND(0.55)	ND(0.71)	ND(16) ^{*1}	ND(1.5)				
T-0-1	2015/4/16	ND(0.71)	ND(0.63)	ND(15) ^{*1}	In progress				
	2015/4/8	ND(0.63)	ND(0.49)	ND(16) ^{*1}	ND(1.5)				
M-101	2015/1/8	0.039	0.14		0.46	0.10			
F-P03	2015/3/3	0.079	0.23	0.14 ^{*2}	In progress	In progress		In progress	In progress
	2015/2/10	0.097	0.16	0.18 ^{*2}	0.59	0.47		In progress	In progress
	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	2015/4/16	ND(0.60)	ND(0.64)	17 ^{*1}	In progress				
	2015/4/8	ND(0.63)	ND(0.64)	ND(16) ^{*1}	2.3				
M-102	2015/1/9	0.033	0.11		0.52	0.11			
T-0-3A	2015/4/16	ND(0.60)	ND(0.73)	ND(15) ^{*1}	In progress				
	2015/4/8	ND(0.68)	ND(0.62)	ND(16) ^{*1}	ND(1.5)				
F-P01	2015/3/3	ND(0.068)	0.075	0.04 ^{*2}	In progress	In progress		In progress	In progress
	2015/2/10	ND(0.059)	0.070	0.06 ^{*2}	ND(0.43)	0.038		In progress	In progress
	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	2015/4/16	ND(0.79)	ND(0.72)	ND(15) ^{*1}	In progress				
	2015/4/8	ND(0.66)	ND(0.68)	ND(16) ^{*1}	ND(1.5)				
T-2-1	2015/4/13	ND(0.60)	ND(0.68)	14 ^{*1}	1.5				
	2015/2/9	ND(0.81)	0.98	13 ^{*1}	ND(1.5)	0.012	ND(1.6)		
	2014/10/21	ND(0.81)	1.1	11 ^{*1}				ND(5.3×10^{-6})	(1.2 ± 0.25) $\times 10^{-5}$

0 0.5 1km

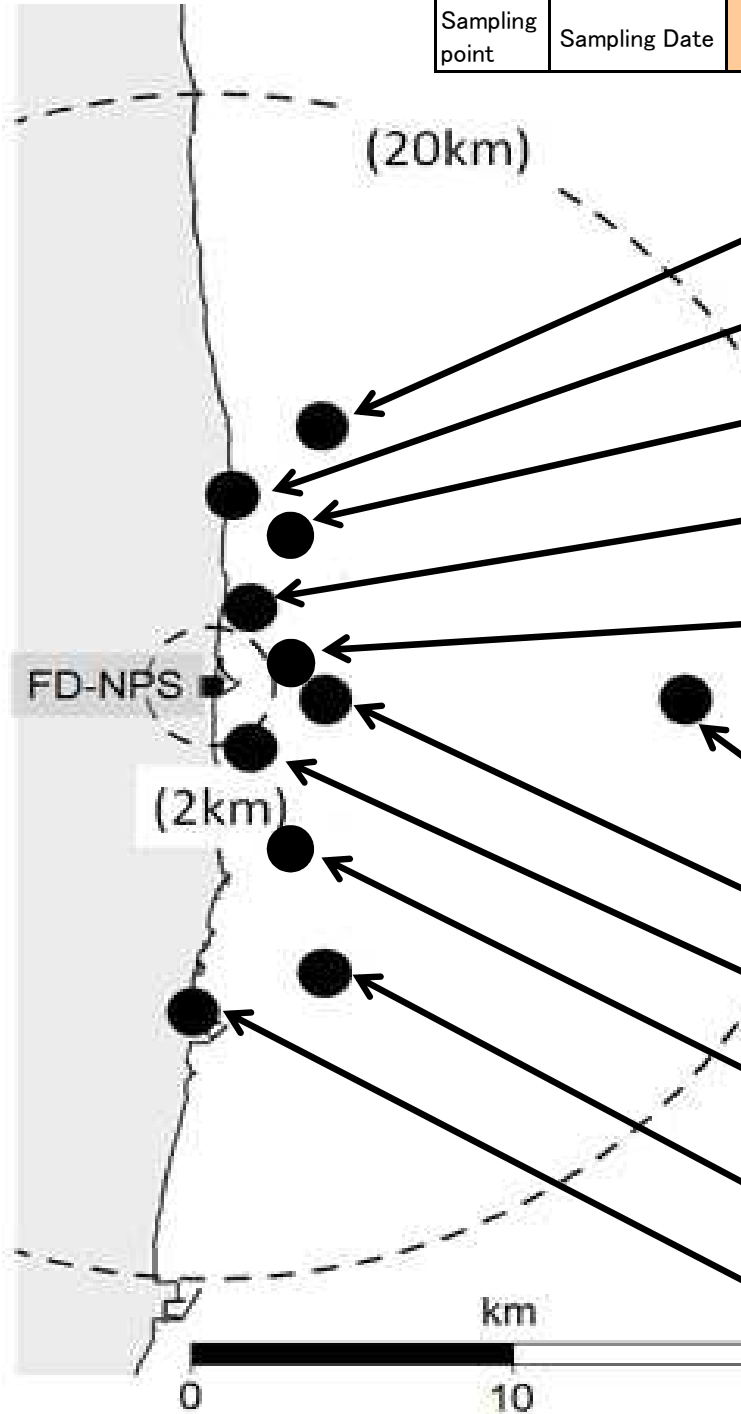
Sea area between 2-20km radius from the NPS (1)

Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+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	2015/3/3	0.0078	0.025	ND(17) ^{*1}	ND(0.34)	ND(0.0070)	ND(1.6)			S
	2014/10/8	0.022	0.070					ND(6.2 × 10 ⁻⁶)	(5.5 ± 1.7) × 10 ⁻⁶	S
T-6	2015/3/17	0.015	0.065	ND(16) ^{*1}	ND(0.32)					S
F-P06	2015/3/3	ND(0.059)	ND(0.057)	0.03 ^{*2}	In progress	In progress		In progress	In progress	S
	2015/2/10	ND(0.057)	ND(0.061)	0.03 ^{*2}	ND(0.43)	0.001		In progress	In progress	S
	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	0.0039				0.5m
F-P04	2015/3/3	ND(0.064)	ND(0.052)	0.03 ^{*2}	In progress	In progress		In progress	In progress	S
	2015/2/10	ND(0.081)	ND(0.062)	0.04 ^{*2}	ND(0.43)	0.001		In progress	In progress	S
	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	2015/3/3	ND(0.0013)	0.0030	ND(17) ^{*1}	0.43	ND(0.0071)	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	2015/3/3	0.0021	0.0094	ND(17) ^{*1}	0.34	ND(0.0092)	ND(1.6)			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	0.042				0.5m
F-P05	2015/3/3	ND(0.096)	ND(0.053)	0.04 ^{*2}	In progress	In progress		In progress	In progress	S
	2015/2/10	ND(0.062)	ND(0.052)	0.04 ^{*2}	ND(0.43)	0.002		In progress	In progress	S
	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	2015/3/3	0.0046	0.015	ND(17) ^{*1}	ND(0.34)	ND(0.0088)	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	2015/3/17	0.010	0.035	ND(17) ^{*1}	ND(0.30)					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	2015/2/26	0.0036	0.013	S
		0.0038	0.013	B

T-14	2015/3/3	0.0023	0.0084	S
		0.0033	0.011	B

T-S2	2015/2/26	0.0041	0.013	S
		0.0029	0.0090	B

T-D1	2015/3/3	0.0078	0.025	S
		0.0044	0.018	B

T-6	2015/3/17	0.015	0.065	S
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T-S8	2015/2/8	0.0023	0.011	S
		0.0014	0.0065	B

T-3	2015/3/17	0.010	0.035	S
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T-S7	2015/2/12	0.0051	0.018	S
		0.0029	0.013	B

T-S5	2015/2/12	0.0040	0.018	S
		0.0086	0.035	B

T-S3	2015/2/24	0.0069	0.026	S
		0.0039	0.017	B

T-S4	2015/2/24	0.0083	0.028	S
		0.0046	0.016	B

T-D5	2015/3/3	0.0021	0.0094	S
		0.0031	0.0089	B

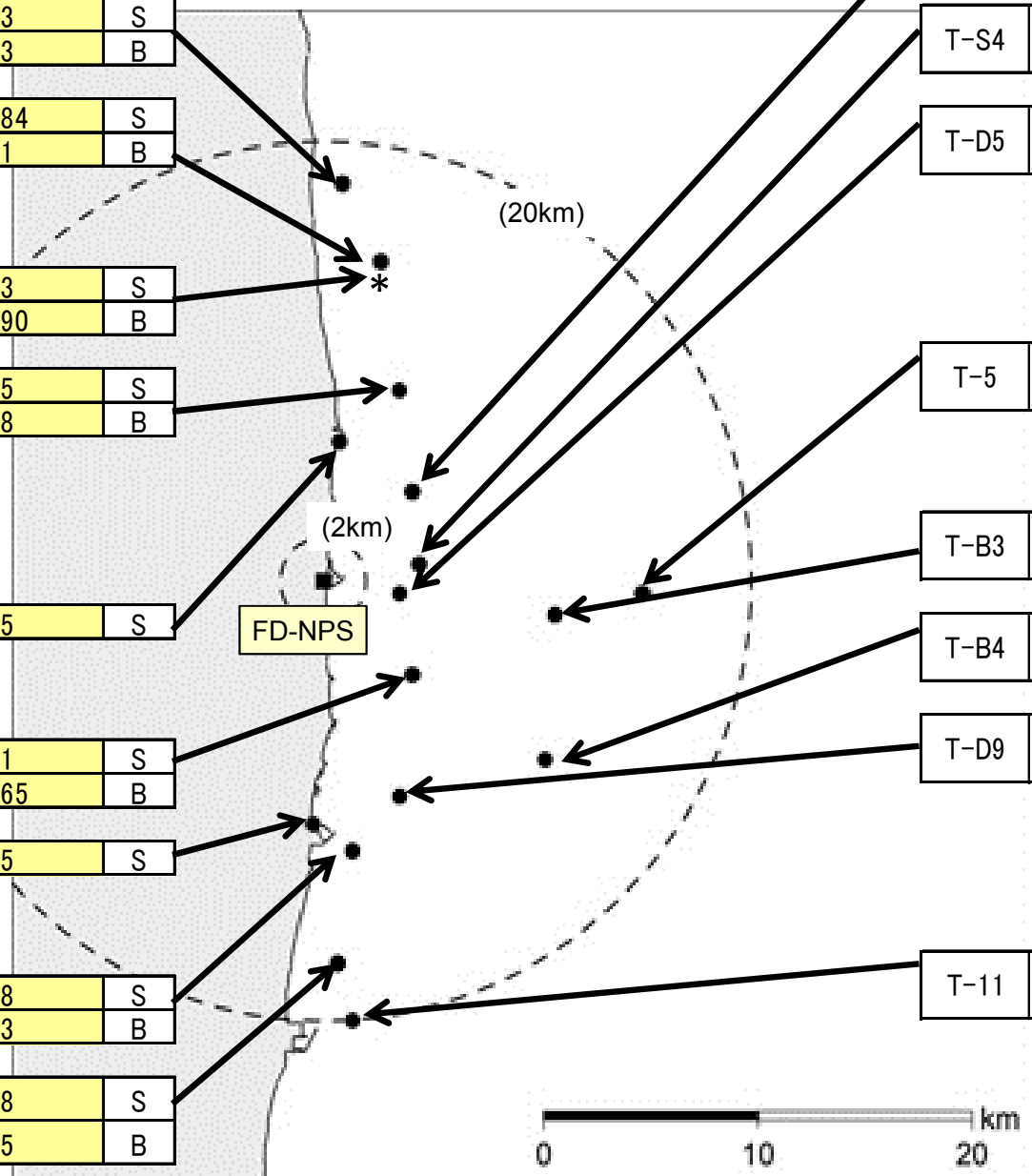
T-5	2015/3/3	ND(0.0013)	0.0030	S
		ND(0.0013)	0.0034	B

T-B3	2015/1/11	0.0021	0.0088	S
		ND(0.0014)	0.0051	B

T-B4	2015/1/11	ND(0.0013)	0.0057	S
		ND(0.0012)	0.0063	B

T-D9	2015/3/3	0.0046	0.015	S
		0.0051	0.016	B

T-11	2015/3/3	0.0071	0.026	S
		0.0086	0.030	B



* Sampling was over by March 2015 at T-S2 point.

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	2015/2/10	ND(0.0014)	0.0045		S
		ND(0.0014)	0.0048		B

T-13-1	2015/2/10	0.0015	0.0070		S
		0.0018	0.0096		B

T-7	2015/2/21	ND(0.0012)	0.0028		S
		ND(0.0011)	0.0035		B

T-4	2015/3/17	0.012	0.037		S
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T-12	2015/2/17	0.0031	0.014		S
		0.0021	0.0090		B

T-17-1	2015/2/17	0.0033	0.0081		S
		0.0023	0.014		B

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

T-B1	2015/2/25	ND(0.0013)	0.0060		S
		ND(0.0014)	0.0045		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

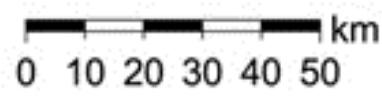
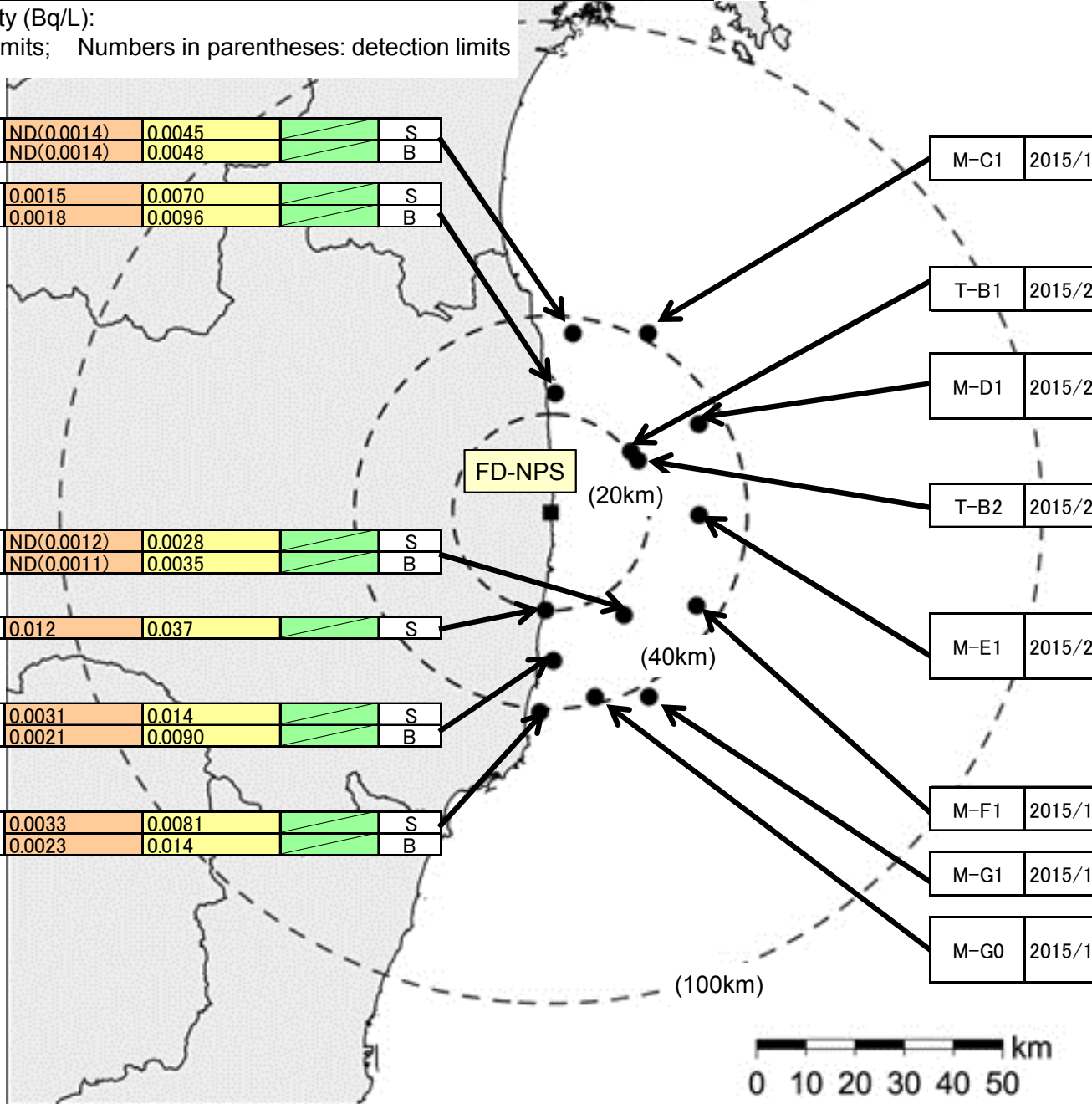
T-B2	2015/2/25	ND(0.0014)	0.0032		S
		ND(0.0014)	0.0033		B

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



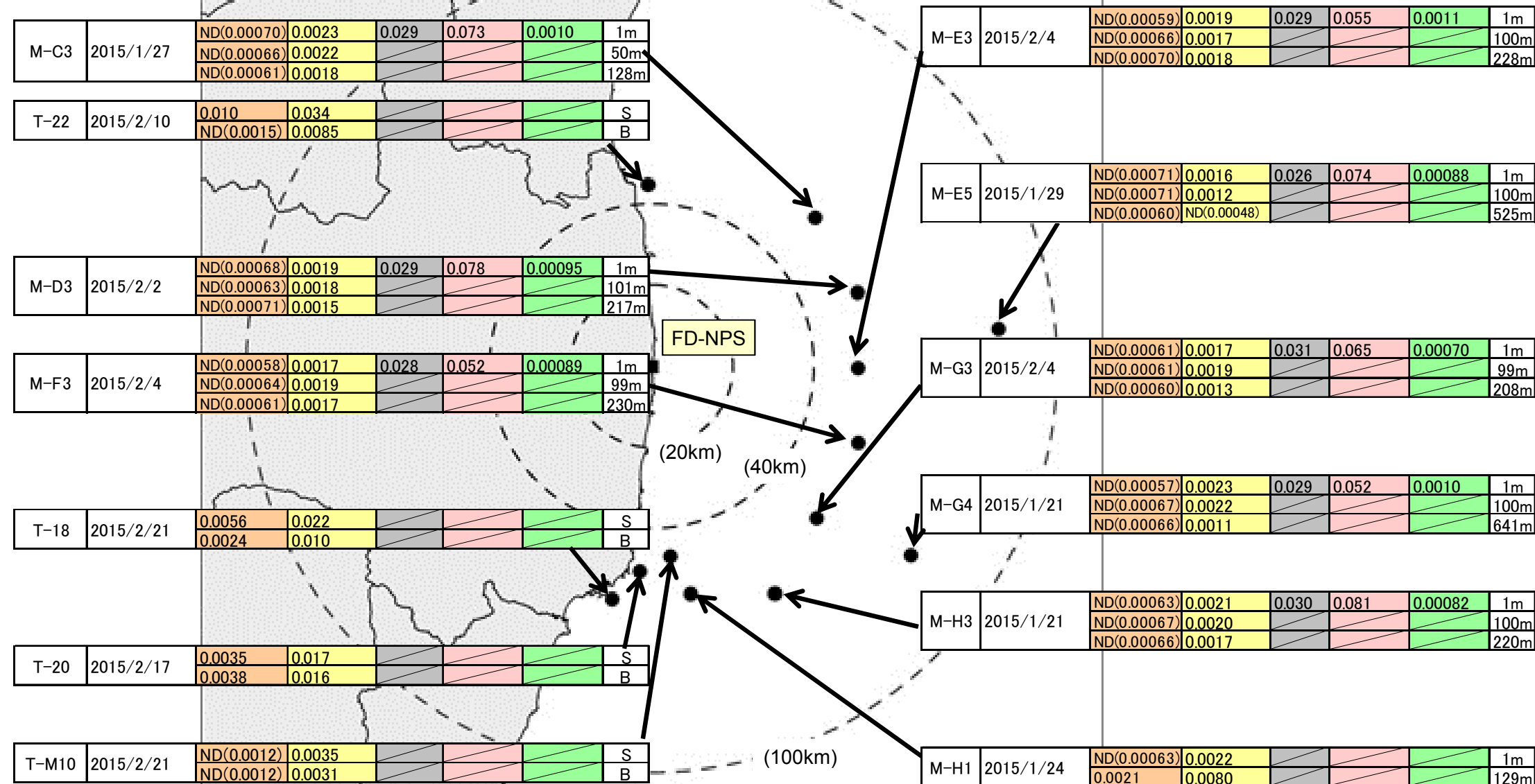
Sea area between 20-100km radius from the NPS(2)

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

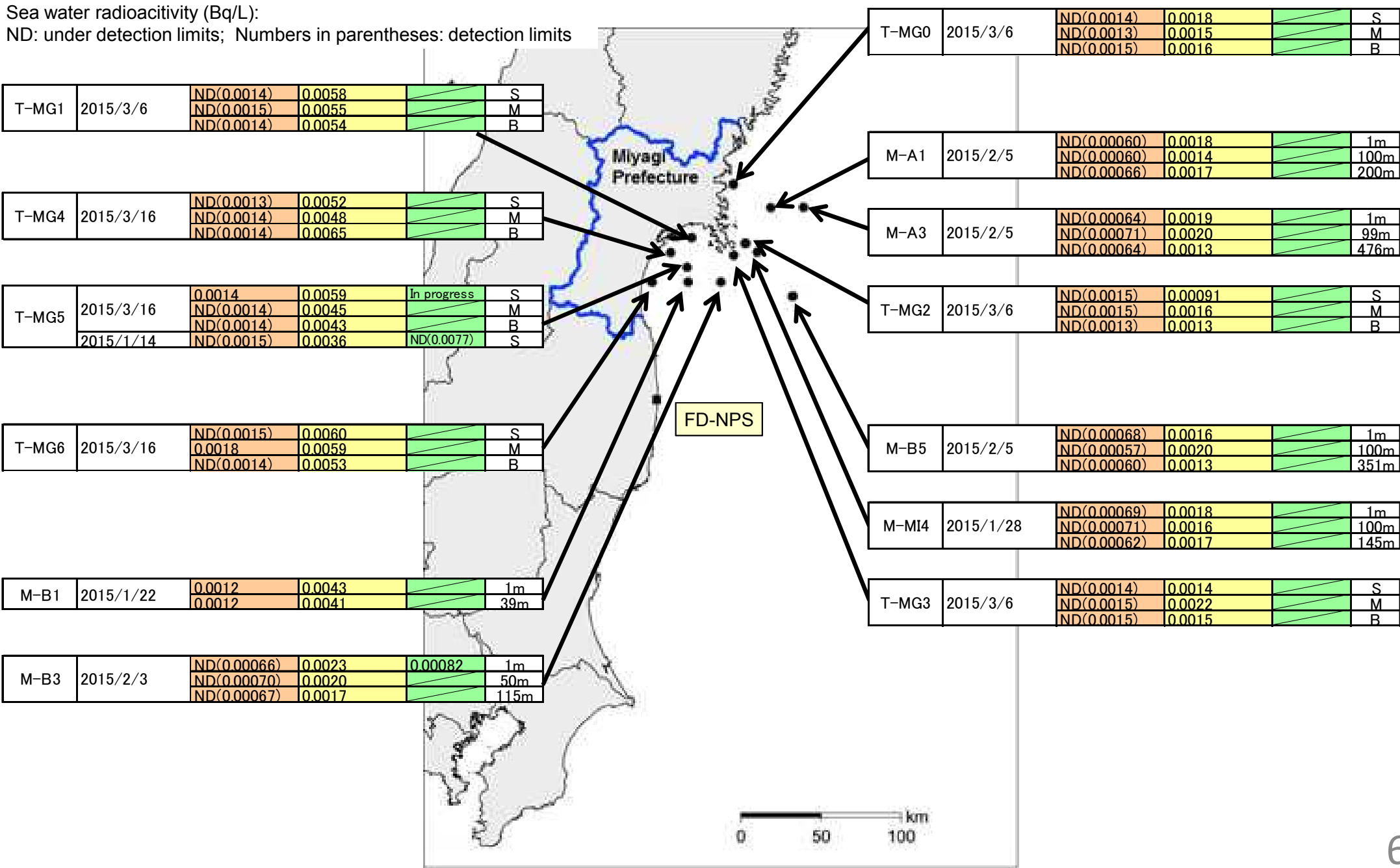


Sea area along and off the coast of Miyagi Prefecture

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

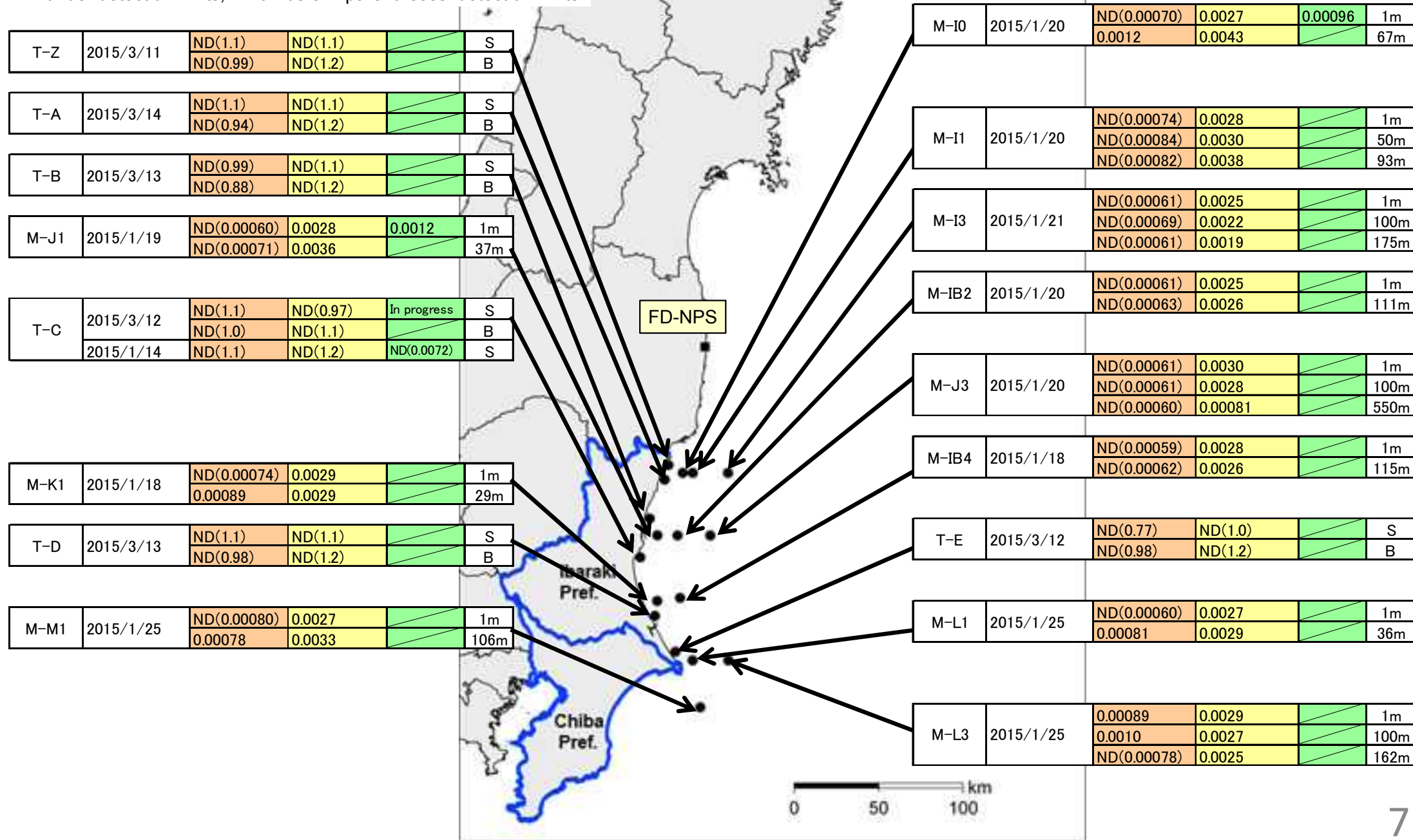


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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

