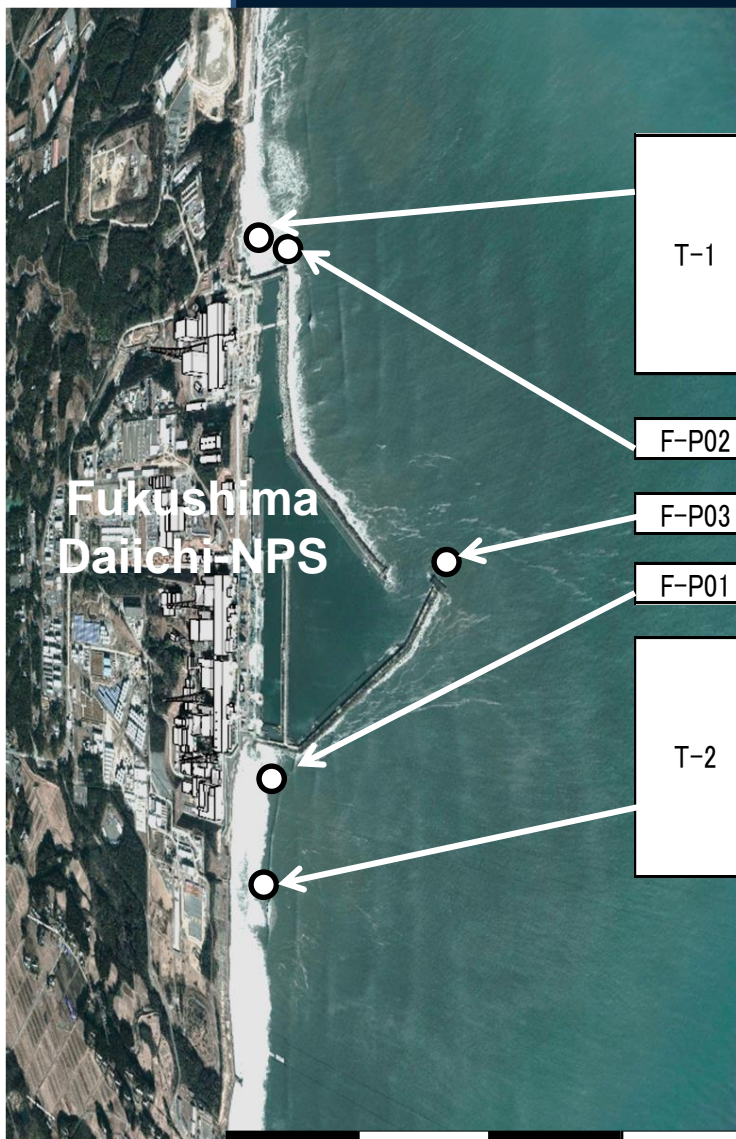


Sea Area Monitoring

July 25, 2017

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km from the NPS (1)



Sampling point	Sampling Date	Cs-134	Cs-137	Gross β	H-3	Sr-90	Gross α	Pu-238	Pu-239+Pu-240
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Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

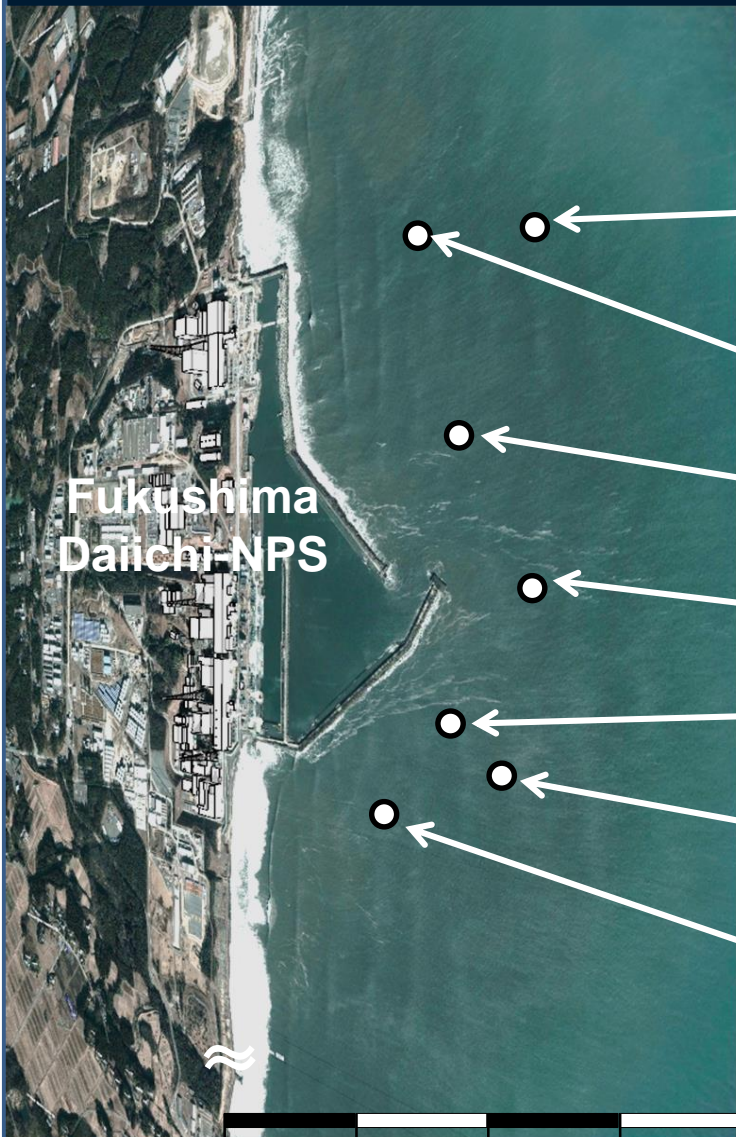
*1: Gross β including K-40 *2: Gross β excluding K-40

T-1	2017/6/26	ND(0.61)	ND(0.66)	8.9 ^{*1}	In progress				
	2017/6/19	ND(0.77)	ND(0.57)	11 ^{*1}	ND(1.8)				
	2017/6/12	ND(0.61)	ND(0.68)	10 ^{*1}	ND(1.6)				
	2017/6/5	ND(0.64)	ND(0.45)	11 ^{*1}	ND(1.8)				
	2017/5/29	ND(0.67)	ND(0.62)	11 ^{*1}	ND(1.8)				
	2016/10/3	ND(0.64)	ND(0.53)	13 ^{*1}	ND(1.7)	ND(0.0073)	ND(1.5)	ND(5.6×10^{-6})	(5.9 ± 1.8) $\times 10^{-6}$
F-P02	2017/4/20	0.003	0.023	0.03 ^{*2}	0.36	0.0018		6×10^{-6}	ND(6×10^{-6})
F-P03	2017/4/20	0.021	0.15	0.03 ^{*2}	ND(0.33)	0.0071		ND(7×10^{-6})	ND(7×10^{-6})
F-P01	2017/4/20	0.002	0.020	0.03 ^{*2}	ND(0.34)	0.0014		ND(7×10^{-6})	ND(7×10^{-6})
T-2	2017/6/26	ND(0.66)	ND(0.68)	12 ^{*1}	In progress				
	2017/6/19	ND(0.67)	ND(0.63)	8.3 ^{*1}	ND(1.5)				
	2017/6/12	ND(0.74)	ND(0.71)	9.9 ^{*1}	ND(1.7)				
	2017/6/5	ND(0.67)	ND(0.71)	9.4 ^{*1}	ND(1.5)				
	2017/5/29	ND(0.44)	ND(0.53)	14 ^{*1}	ND(1.7)				
	2016/10/3	ND(0.77)	ND(0.58)	13 ^{*1}	ND(1.8)	0.0092	ND(1.9)	ND(6.0×10^{-6})	ND(5.5×10^{-6})

0.5

1km

Sea area within 2km from the NPS (2)



Fukushima
Daiichi NPS

Sampling point	Sampling Date	Cs-134	Cs-137	Gross β *	H-3	Sr-90
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Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

*: Gross β including K-40

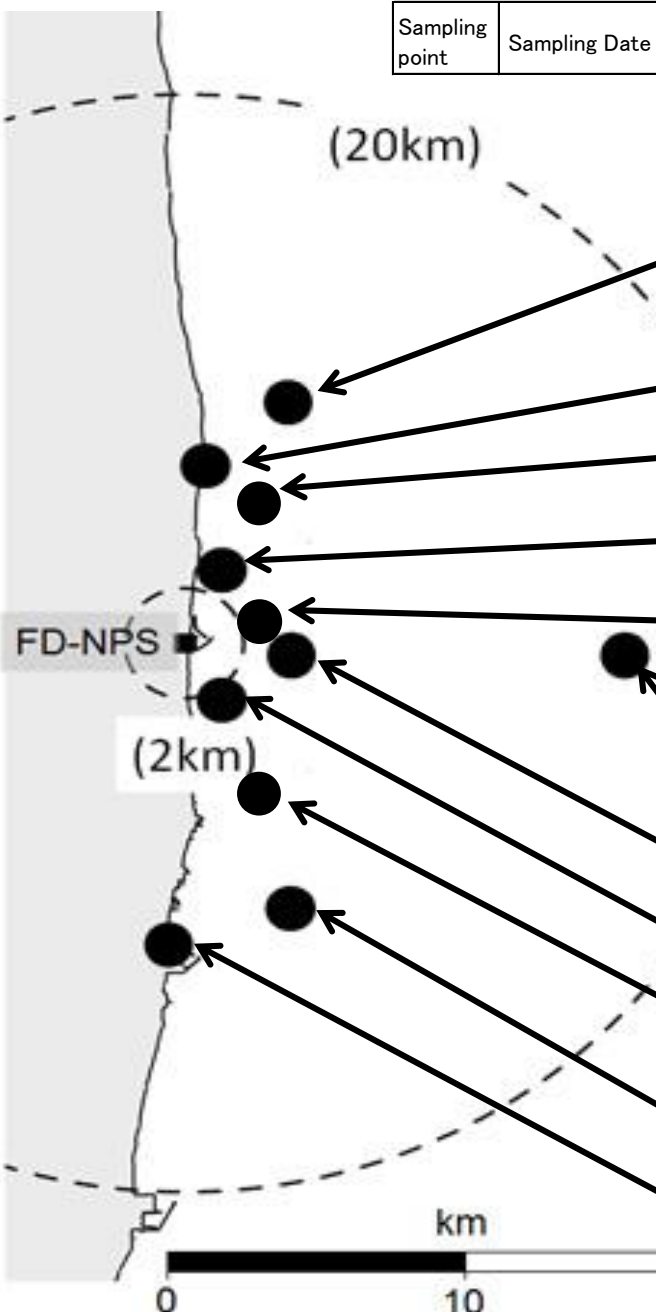
T-0-1A	2017/6/26	ND(0.74)	ND(0.64)	ND(17)	In progress	
	2017/6/23	ND(0.64)	ND(0.58)	ND(17)	ND(1.7)	
	2017/6/12	ND(0.75)	ND(0.67)	ND(20)	ND(1.6)	
	2017/6/5	ND(0.53)	ND(0.60)	ND(16)	ND(1.7)	
T-0-1	2017/6/26	ND(0.66)	ND(0.71)	ND(17)	In progress	
	2017/6/23	ND(0.66)	ND(0.58)	ND(17)	ND(1.7)	
	2017/6/12	ND(0.67)	ND(0.68)	ND(20)	ND(1.6)	
	2017/6/5	ND(0.77)	ND(0.57)	ND(16)	ND(1.7)	
M-101	2017/1/12	0.0036	0.024		0.065	0.0017
	2016/12/7	0.0030	0.019		0.11	0.0015
T-0-2	2017/6/26	ND(0.75)	ND(0.70)	ND(17)	In progress	
	2017/6/23	ND(0.50)	ND(0.70)	ND(17)	ND(1.7)	
	2017/6/12	ND(0.64)	ND(0.66)	ND(20)	ND(1.6)	
	2017/6/5	ND(0.76)	ND(0.58)	ND(16)	ND(1.7)	
M-102	2017/1/13	0.0049	0.024		0.073	0.0012
	2016/12/7	0.0029	0.019		0.15	0.0015
T-0-3A	2017/6/26	ND(0.84)	ND(0.61)	ND(17)	In progress	
	2017/6/23	ND(0.67)	ND(0.75)	ND(17)	ND(1.7)	
	2017/6/12	ND(0.49)	ND(0.71)	ND(20)	ND(1.6)	
	2017/6/5	ND(0.75)	ND(0.56)	ND(16)	ND(1.7)	
T-0-3	2017/6/26	ND(0.68)	ND(0.73)	ND(17)	In progress	
	2017/6/23	ND(0.76)	ND(0.78)	ND(17)	ND(1.7)	
	2017/6/12	ND(0.73)	ND(0.50)	ND(20)	ND(1.7)	
	2017/6/5	ND(0.74)	ND(0.69)	ND(16)	ND(1.7)	
T-0-3	2017/5/29	ND(0.71)	ND(0.76)	ND(17)	ND(1.6)	

0 0.5 1km

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

Sampling point	Sampling Date	Cs-134	Cs-137	Gross β	H-3	Sr-90	Gross α	Pu-238	Pu-239+240	S	S:2m below sea level
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Sea water radioactivity (Bq/L):
 ND: Not detected; Numbers in parentheses: detection limits
 *1: Gross β including K-40 *2: Gross β excluding K-40



T-D1	2017/5/22	ND(0.0011)	0.0072	ND(16) ^{*1}	ND(0.35)	/	/	/	/	/	S
	2017/5/10	ND(0.0012)	0.0036	ND(16) ^{*1}	ND(0.30)	0.0017	ND(2.3)	/	/	/	S
	2016/10/3	0.0016	0.012	ND(16) ^{*1}	ND(0.36)	ND(0.0068)	ND(1.6)	ND(5.5 × 10 ⁻⁶)	ND(5.2 × 10 ⁻⁶)	/	S
T-6	2017/5/16	0.0047	0.033	ND(15) ^{*1}	ND(0.36)	/	/	/	/	/	S
	2017/5/2	0.0022	0.014	ND(17) ^{*1}	ND(0.36)	/	/	/	/	/	S
F-P06	2017/4/20	ND(0.001)	0.011	0.02 ^{*2}	ND(0.35)	0.0009	/	ND(6 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)	/	S
	2017/3/7	ND(0.052)	ND(0.048)	0.03 ^{*2}	ND(0.35)	0.0010	/	ND(8 × 10 ⁻⁶)	ND(9 × 10 ⁻⁶)	/	S
M-103	2017/1/12	0.0049	0.034	/	0.059	0.0012	/	/	/	/	0.5m
	2016/12/7	0.0016	0.012	/	0.11	0.0013	/	/	/	/	0.5m
F-P04	2017/4/20	ND(0.002)	0.009	0.04 ^{*2}	ND(0.34)	0.0009	/	ND(8 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)	/	S
	2017/2/14	ND(0.061)	ND(0.047)	0.03 ^{*2}	ND(0.33)	0.0010	/	ND(1.1 × 10 ⁻⁵)	ND(8 × 10 ⁻⁶)	/	S
T-5	2017/5/22	ND(0.0012)	0.0046	ND(16) ^{*1}	ND(0.35)	/	/	/	/	/	S
	2017/5/9	ND(0.0014)	0.0037	ND(17) ^{*1}	ND(0.36)	0.0014	ND(2.3)	/	/	/	S
	2016/10/4	ND(0.0014)	0.0058	ND(15) ^{*1}	ND(0.33)	ND(0.0078)	ND(1.6)	ND(5.3 × 10 ⁻⁶)	ND(5.2 × 10 ⁻⁶)	/	S
T-D5	2017/5/22	ND(0.0014)	0.0083	ND(16) ^{*1}	ND(0.35)	/	/	/	/	/	S
	2017/5/10	ND(0.0013)	0.0048	ND(16) ^{*1}	ND(0.30)	0.0011	ND(2.3)	/	/	/	S
	2016/10/3	ND(0.0013)	0.0091	ND(16) ^{*1}	ND(0.36)	0.0098	ND(1.6)	ND(8.2 × 10 ⁻⁶)	ND(8.2 × 10 ⁻⁶)	/	S
M-104	2017/1/13	0.0016	0.013	/	0.037	0.0012	/	/	/	/	0.5m
	2016/12/8	0.0014	0.010	/	0.12	0.00097	/	/	/	/	0.5m
F-P05	2017/4/20	ND(0.002)	0.008	0.03 ^{*2}	ND(0.35)	0.0009	/	ND(5 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)	/	S
	2017/2/14	ND(0.058)	ND(0.048)	0.02 ^{*2}	ND(0.33)	0.0010	/	ND(7 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)	/	S
T-D9	2017/5/22	ND(0.0013)	0.0077	ND(16) ^{*1}	ND(0.36)	/	/	/	/	/	S
	2017/5/9	ND(0.0014)	0.0044	ND(17) ^{*1}	ND(0.36)	0.0012	ND(2.3)	/	/	/	S
	2016/10/4	0.0015	0.0085	ND(15) ^{*1}	ND(0.33)	ND(0.0080)	ND(1.6)	ND(7.3 × 10 ⁻⁶)	ND(7.1 × 10 ⁻⁶)	/	S
T-3	2017/5/16	0.0054	0.046	ND(16) ^{*1}	ND(0.31)	/	/	/	/	/	S
	2017/5/2	0.0029	0.022	ND(17) ^{*1}	ND(0.31)	/	/	/	/	/	S

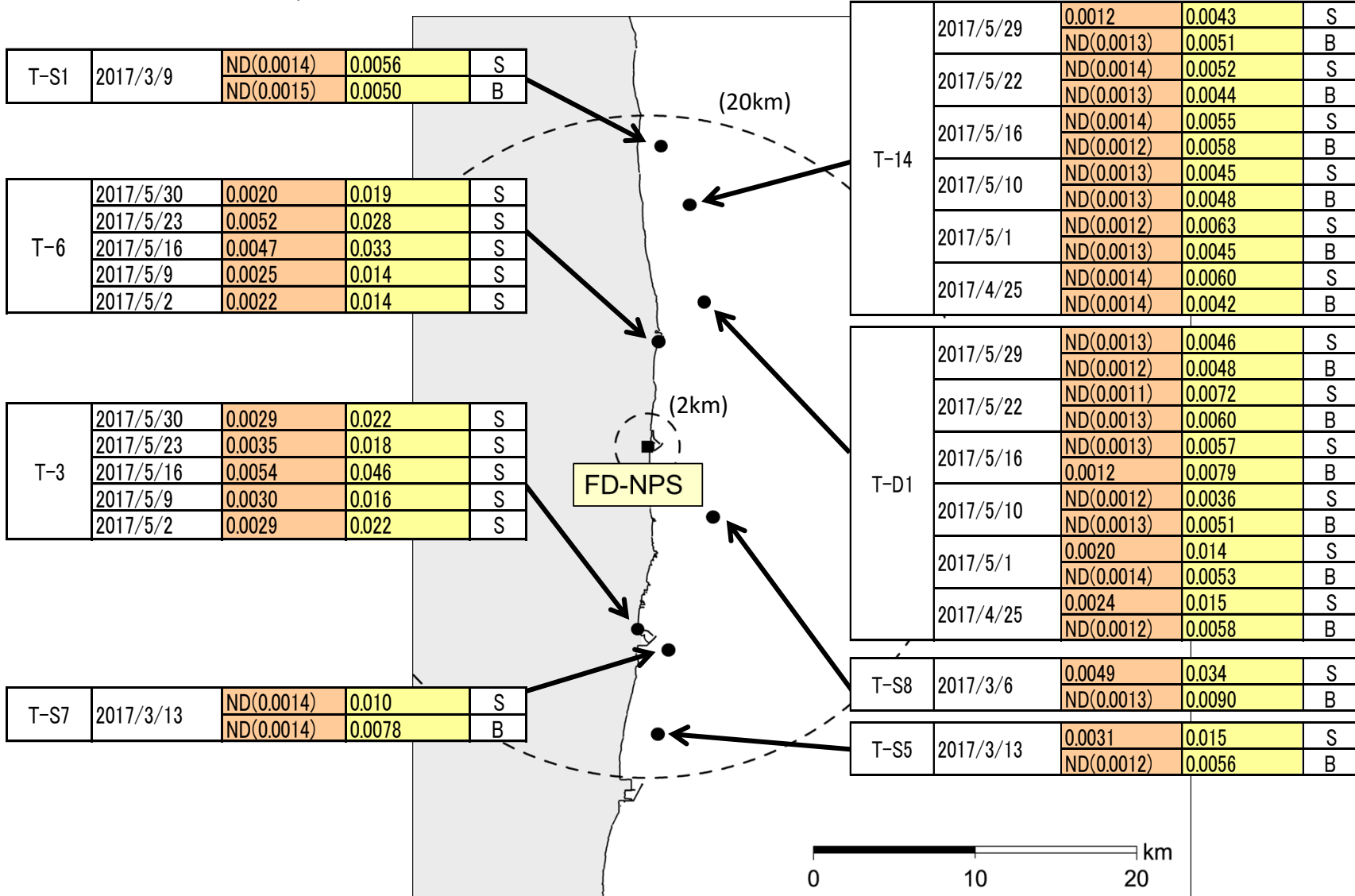
Sea area between 2-20km from the NPS (2)

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

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits



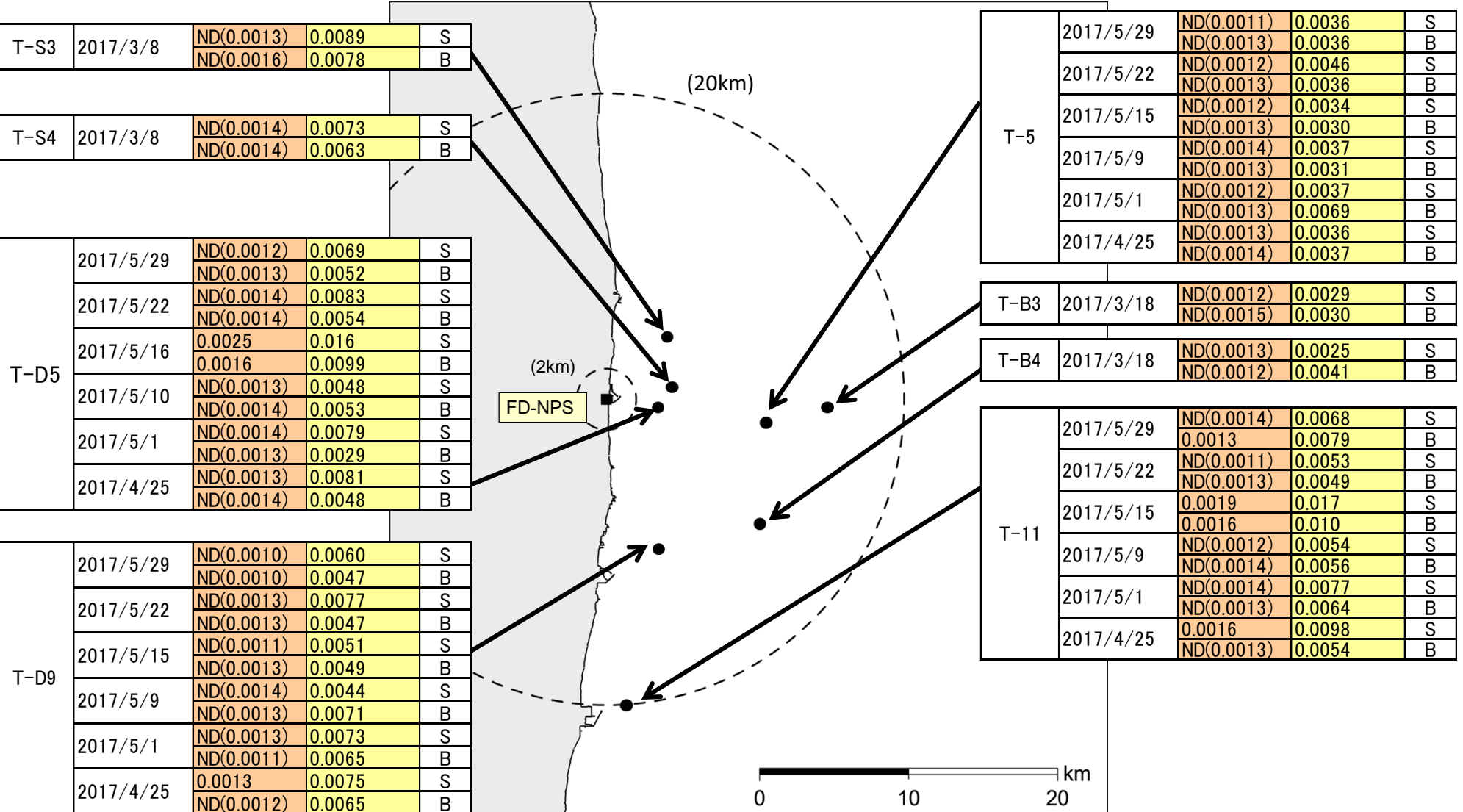
Sea area between 2-20km from the NPS (3)

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

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits



Sea area between 20-100km 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: Not detected; Numbers in parentheses: detection limits

T-MA	2017/3/23	ND(0.0013)	0.0048		S
		ND(0.0015)	0.0044		B

T-13-1	2017/3/23	0.0014	0.0077		S
		ND(0.0013)	0.0060		B

T-7	2017/3/1	ND(0.0012)	0.0034		S
		ND(0.0012)	0.0026		B

T-4	2017/5/30	0.0030	0.022		S
	2017/5/23	0.0033	0.020		S
	2017/5/16	0.0053	0.030		S
	2017/5/9	0.0020	0.015		S
	2017/5/2	0.0024	0.016		S

T-12	2017/3/24	ND(0.0012)	0.011		S
		ND(0.0011)	0.011		B

T-17-1	2017/3/24	0.0026	0.022		S
		0.0012	0.0078		B

M-C1	2017/1/22	0.00019	0.0028	0.00087	1m
		0.00024	0.0028		48m

T-B1	2017/3/30	ND(0.0015)	0.0025		S
		ND(0.0015)	0.0028		B

M-D1	2017/1/25	0.00016	0.0021	0.00087	1m
		0.00027	0.0025		50m
		0.00023	0.0024		111m

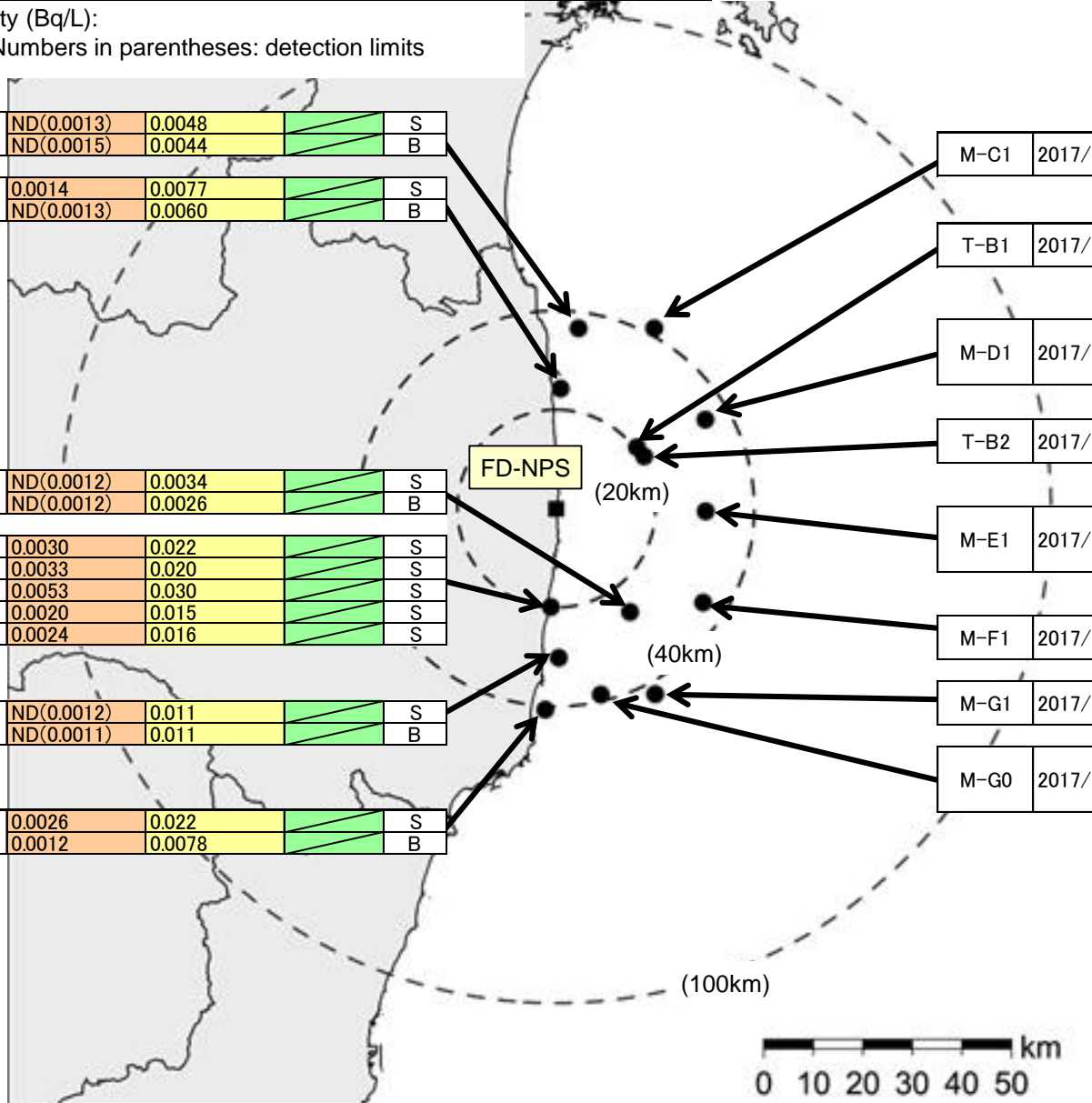
T-B2	2017/3/30	ND(0.0015)	0.0022		S
		ND(0.0014)	0.0022		B

M-E1	2017/1/25	0.00014	0.0024	0.00080	1m
		0.00027	0.0026		50m
		0.00024	0.0026		125m

M-F1	2017/1/25	0.00019	0.0026		1m
		0.00032	0.0026		135m

M-G1	2017/2/1	0.0017	0.0022		1m
		0.0019	0.0027		129m

M-G0	2017/2/1	0.00021	0.0024		1m
		0.00020	0.0025		50m
		ND(0.0016)	0.0025		96m



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

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

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

*Gross β excluding K-40

M-C3	2017/1/25	ND(0.00014)	0.0022	0.029	0.054	0.00080	1m
		0.00023	0.0027				50m
		0.00030	0.0032				122m

T-22	2017/3/23	ND(0.00015)	0.0066				S
		ND(0.00013)	0.0049				B

M-D3	2017/2/1	0.00014	0.0023	0.030	0.081	0.00096	1m
		0.00023	0.0023				100m
		ND(0.00012)	0.0017				211m

M-F3	2017/1/26	0.00016	0.0023	0.029	0.064	0.0012	1m
		0.00017	0.0023				100m
		0.00020	0.0019				218m

T-18	2017/3/1	ND(0.0012)	0.0038				S
		ND(0.0013)	0.0044				B

T-20	2017/3/24	ND(0.0014)	0.010				S
		ND(0.0014)	0.010				B

T-M10	2017/2/15	ND(0.0012)	0.0024				S
		ND(0.0013)	0.0042				B

M-E3	2017/1/26	ND(0.00016)	0.0023	0.030	0.065	0.00087	1m
		ND(0.00015)	0.0025				100m
		ND(0.00014)	0.0018				218m

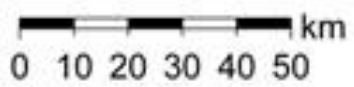
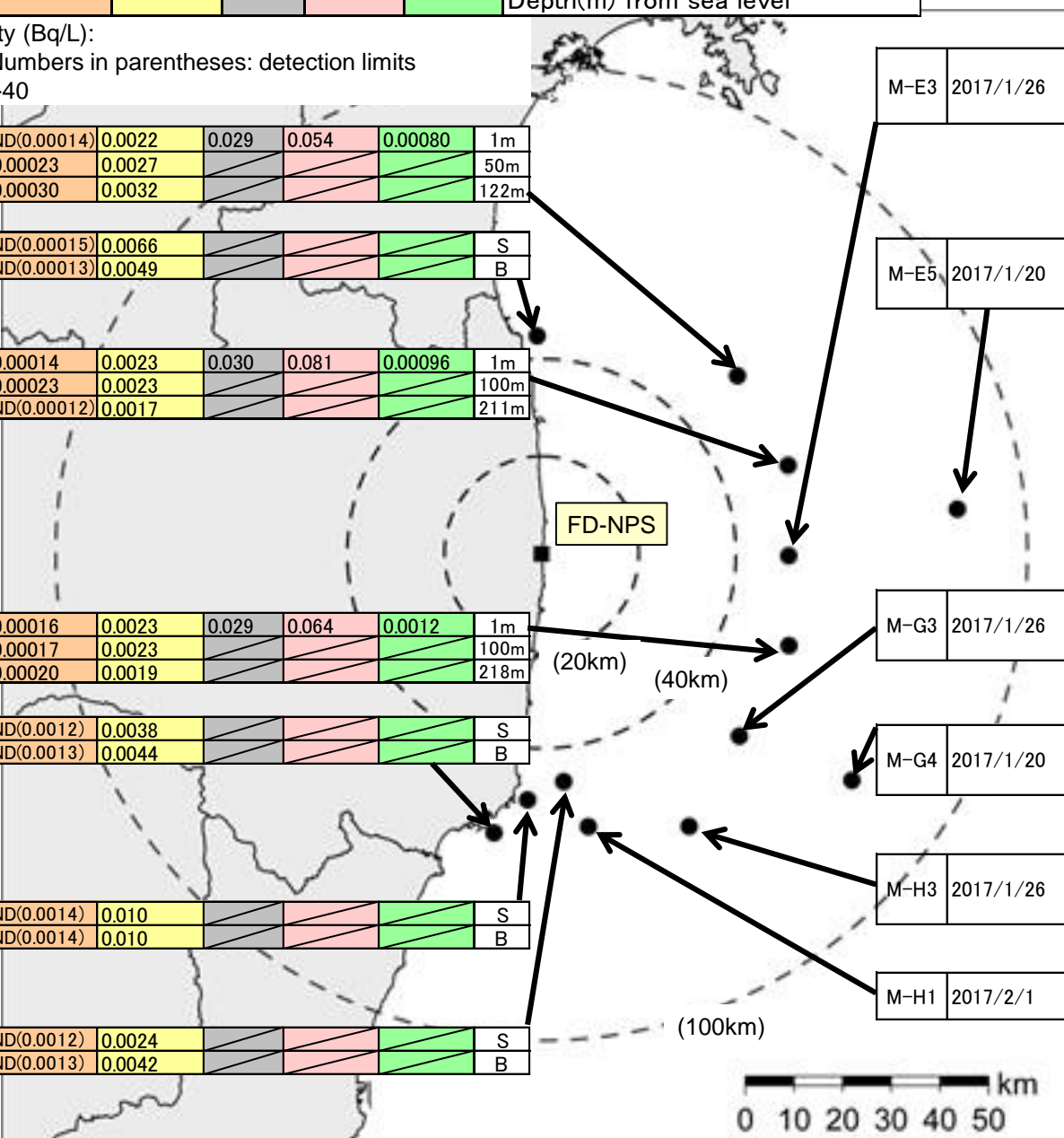
M-E5	2017/1/20	ND(0.00015)	0.0018	0.031	0.076	0.00087	1m
		ND(0.00014)	0.0018				100m
		ND(0.000080)	0.00077				523m

M-G3	2017/1/26	0.00022	0.0022	0.031	0.058	0.0012	1m
		ND(0.00015)	0.0022				100m
		0.00015	0.0023				195m

M-G4	2017/1/20	ND(0.00012)	0.0023	0.031	0.052	0.0011	1m
		0.00020	0.0022				100m
		ND(0.000075)	0.00060				655m

M-H3	2017/1/26	ND(0.00015)	0.0024	0.030	0.052	0.0010	1m
		0.00016	0.0024				100m
		0.00022	0.0021				227m

M-H1	2017/2/1	0.00015	0.0022				1m
		0.00022	0.0026				123m

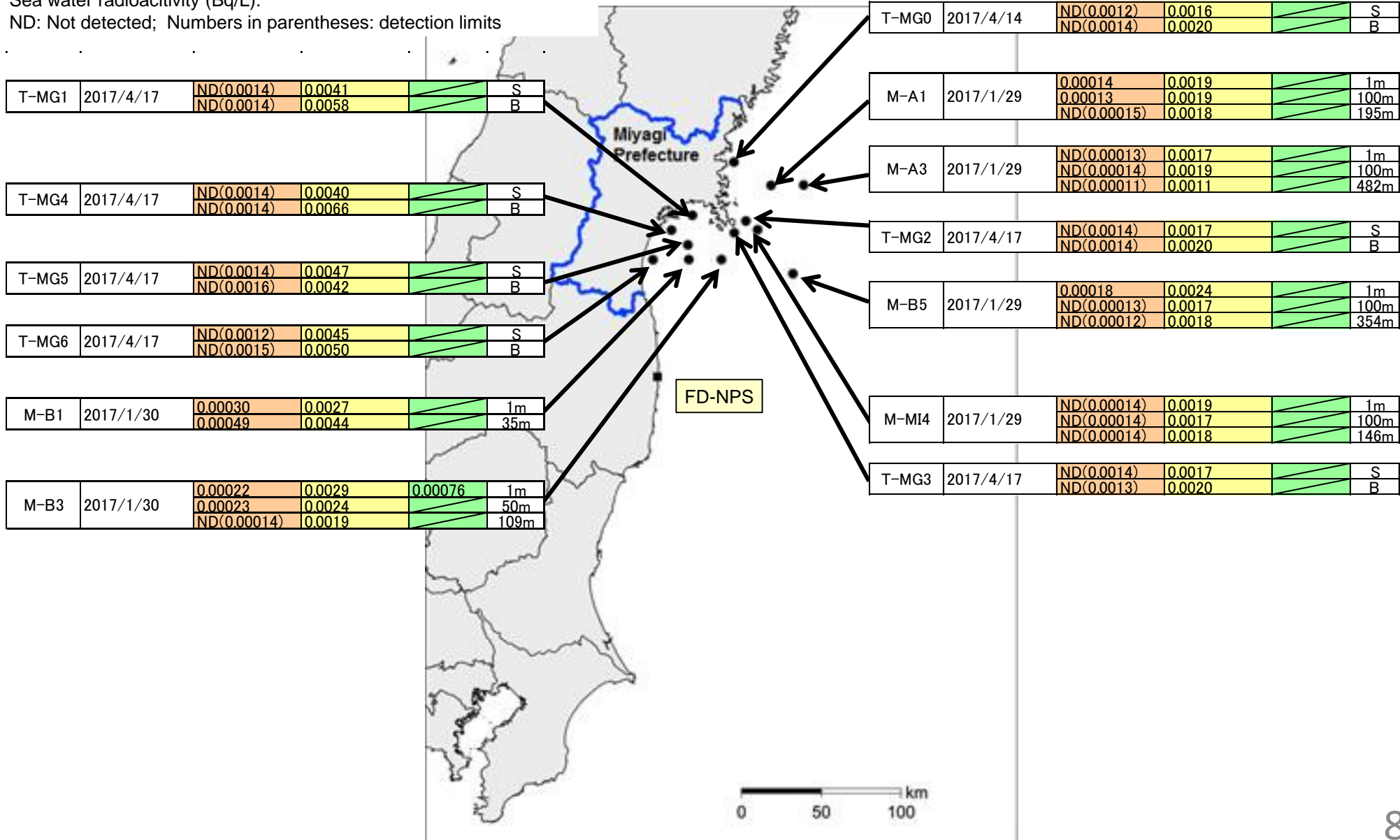


Sea area along and off the coast of Miyagi Prefecture

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: Not detected; Numbers in parentheses: detection limits

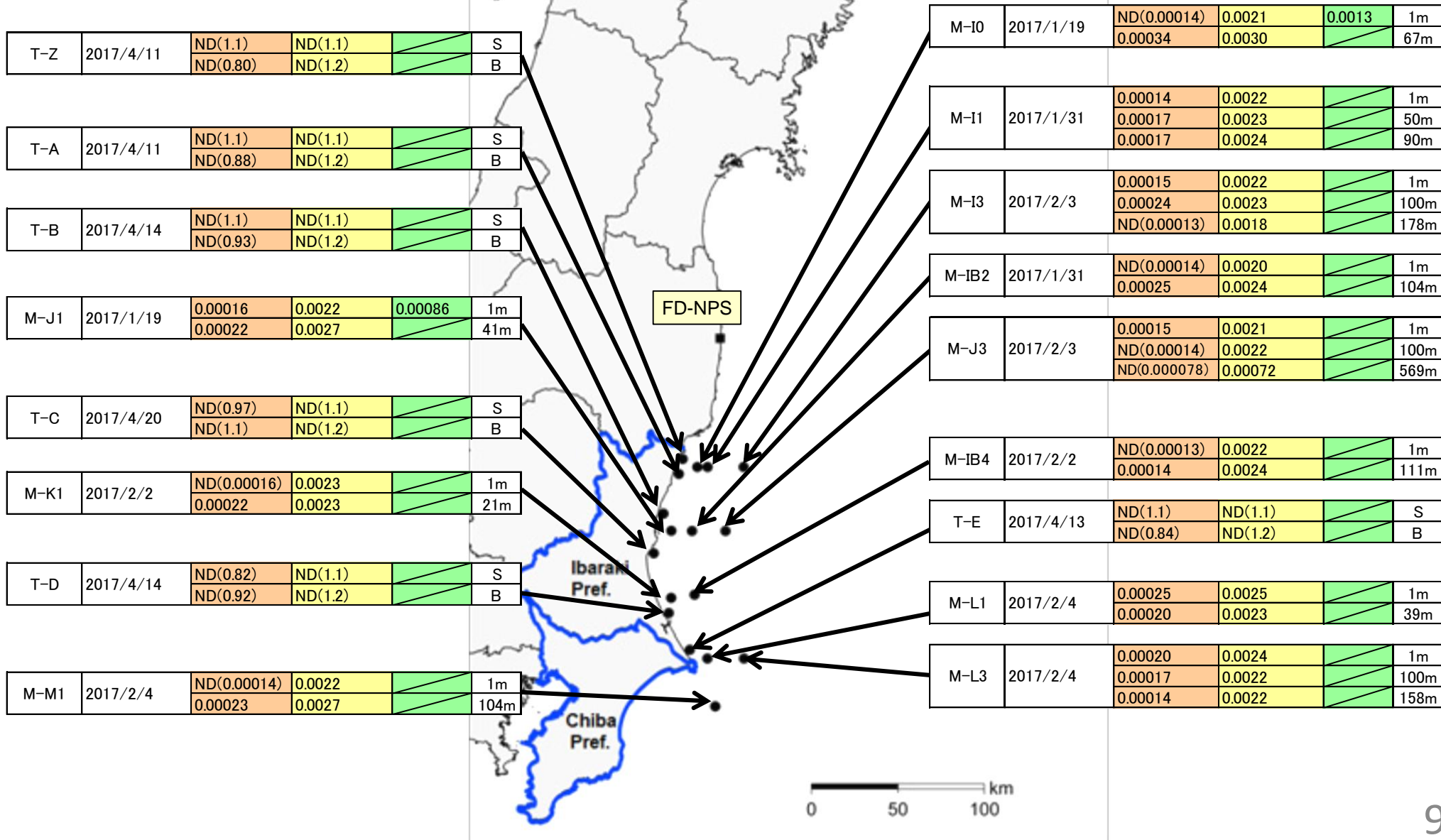


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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: Not detected; 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: Not detected; Numbers in parentheses: detection limits
 ND: under detection limits; numbers in parentheses: detection limits

M-10	2016/11/12	ND(0.00061)	0.0018	1m
		ND(0.00064)	0.0022	103m
		ND(0.00058)	0.0016	197m
		ND(0.00057)	0.0014	296m
		ND(0.00060)	0.00084	487m

M-14	2016/11/11	ND(0.00054)	0.0025	1m
		ND(0.00050)	0.0031	98m
		ND(0.00056)	0.0027	192m
		ND(0.00056)	0.0017	287m
		ND(0.00052)	0.00084	472m

M-19	2016/11/15	ND(0.00062)	0.0024	1m
		ND(0.00059)	0.0026	103m
		ND(0.00060)	0.0023	196m
		ND(0.00058)	0.0017	296m
		ND(0.00064)	0.00069	492m

M-20	2016/11/13	ND(0.00069)	0.0018	1m
		ND(0.00067)	0.0026	101m
		ND(0.00065)	0.0033	196m
		ND(0.00068)	0.0036	292m
		ND(0.00060)	0.0017	482m

M-25	2016/11/17	ND(0.00071)	0.0023	1m
		ND(0.00074)	0.0022	102m
		ND(0.00072)	0.0028	197m
		ND(0.00075)	0.0035	300m
		ND(0.00064)	0.0023	488m

M-11	2016/11/12	ND(0.00059)	0.0023	1m
		ND(0.00062)	0.0023	103m
		ND(0.00061)	0.0016	197m
		ND(0.00056)	0.0015	297m
		ND(0.00060)	0.00052	484m

M-15	2016/11/11	ND(0.00069)	0.0020	1m
		ND(0.00068)	0.0030	105m
		ND(0.00067)	0.0022	198m
		ND(0.00065)	0.0019	298m
		ND(0.00073)	0.00078	494m

M-21	2016/11/13	ND(0.00066)	0.0016	1m
		ND(0.00064)	0.0024	103m
		ND(0.00063)	0.0021	197m
		ND(0.00071)	0.0022	303m
		ND(0.00062)	0.0017	483m

M-26	2016/11/14	ND(0.00054)	0.0018	1m
		ND(0.00062)	0.0016	102m
		ND(0.00058)	0.0025	196m
		ND(0.00061)	0.0031	295m
		ND(0.00056)	0.0034	489m

M-27	2016/11/14	ND(0.00064)	0.0018	1m
		ND(0.00055)	0.0019	102m
		ND(0.00056)	0.0029	196m
		ND(0.00062)	0.0034	296m
		ND(0.00071)	0.0026	489m

