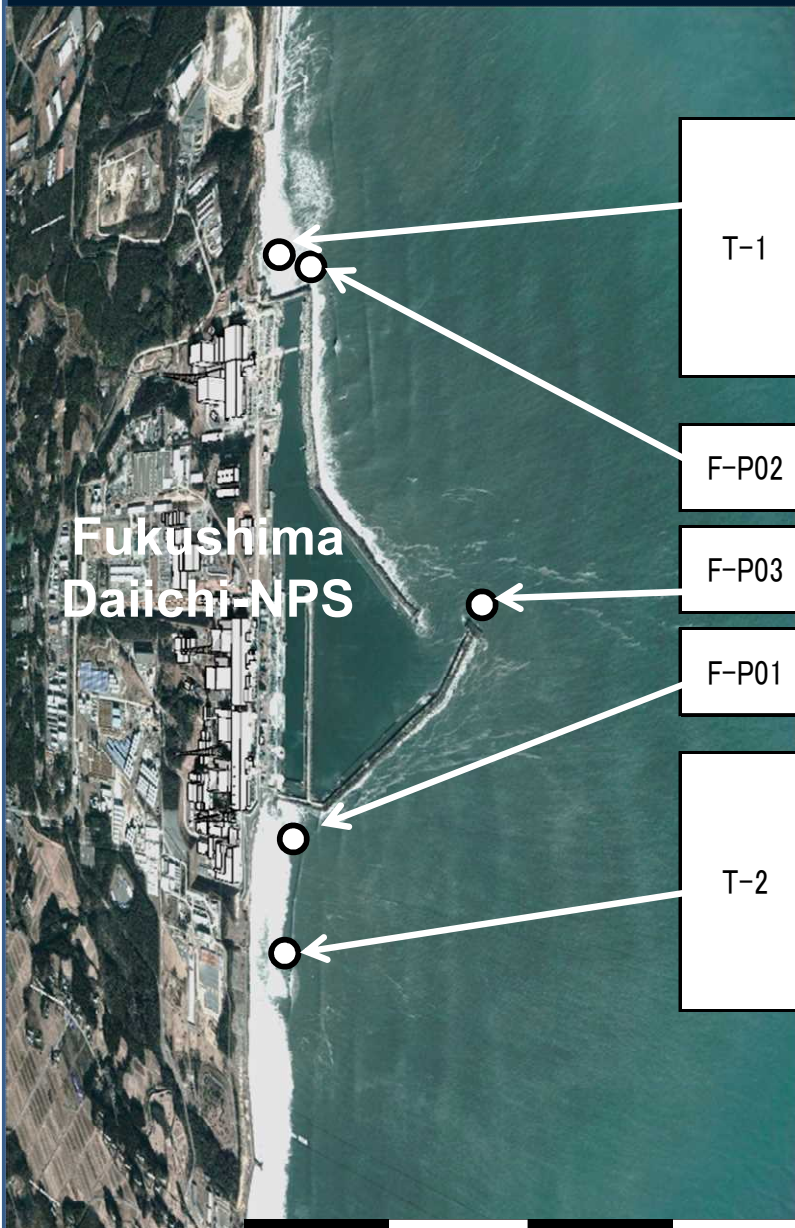


Sea Area Monitoring

March 27, 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

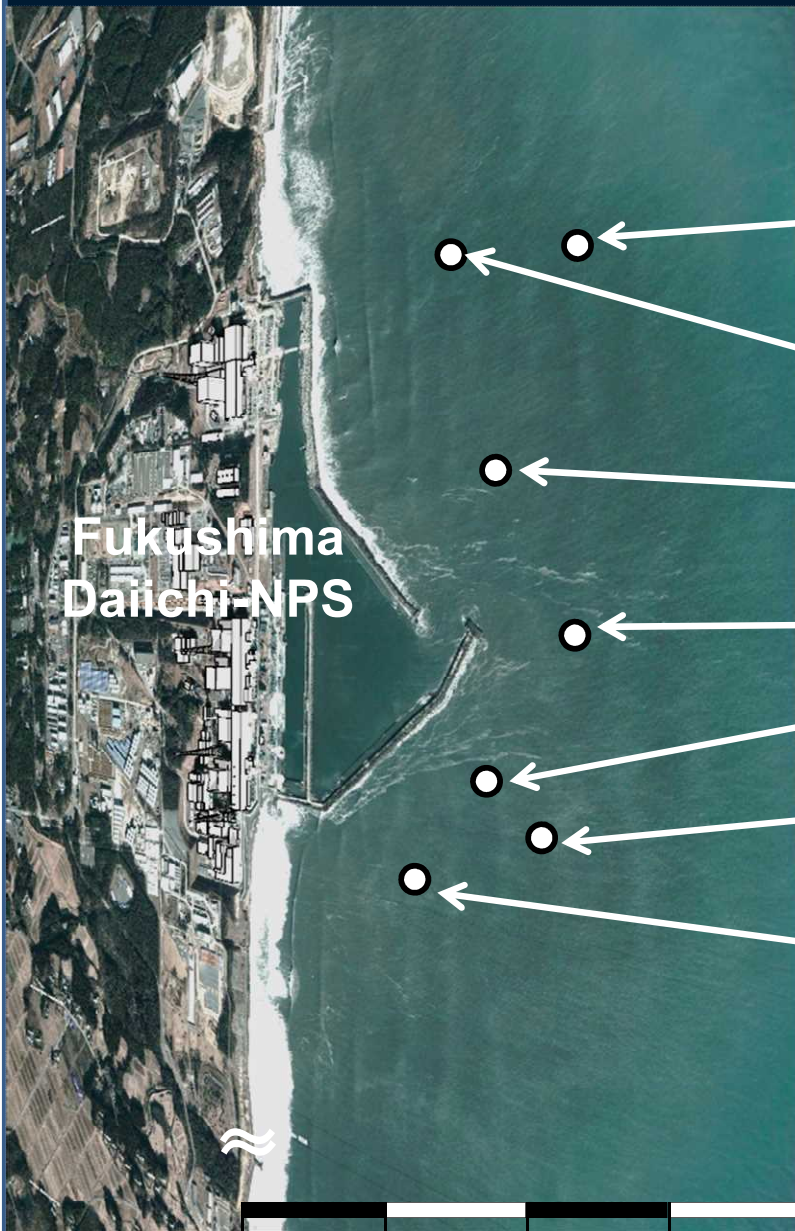
T-1	2017/2/20	ND(0.50)	ND(0.68)	10 ^{*1}	ND(1.8)				
	2017/2/13	ND(0.74)	ND(0.58)	11 ^{*1}	ND(1.5)				
	2017/2/6	ND(0.70)	ND(0.56)	11 ^{*1}	ND(1.8)				
	2017/1/30	ND(0.70)	ND(0.62)	8.5 ^{*1}	1.7				
	2017/1/2	ND(0.63)	ND(0.53)	10 ^{*1}	ND(1.5)	ND(0.0075)	ND(1.9)		
	2016/10/3	ND(0.64)	ND(0.53)	13 ^{*1}	ND(1.7)	ND(0.0073)	ND(1.5)	ND(5.6 × 10 ⁻⁶)	(5.9 ± 1.8) × 10 ⁻⁶
F-P02	2017/1/20	ND(0.055)	ND(0.048)	0.03 ^{*2}	ND(0.33)	In progress		In progress	In progress
	2016/12/12	ND(0.058)	ND(0.050)	0.03 ^{*2}	ND(0.35)	0.0024		ND(8 × 10 ⁻⁶)	ND(8.0 × 10 ⁻⁶)
F-P03	2017/1/20	ND(0.062)	ND(0.050)	0.03 ^{*2}	ND(0.33)	In progress		In progress	In progress
	2016/12/12	ND(0.057)	0.11	0.03 ^{*2}	ND(0.35)	0.0056		ND(6.0 × 10 ⁻⁶)	ND(8.0 × 10 ⁻⁶)
F-P01	2017/1/20	ND(0.055)	0.044	0.03 ^{*2}	0.42	In progress		In progress	In progress
	2016/12/12	ND(0.049)	ND(0.047)	0.02 ^{*2}	ND(0.35)	0.0018		ND(8.0 × 10 ⁻⁶)	ND(8.0 × 10 ⁻⁶)
T-2	2017/2/20	ND(0.71)	ND(0.58)	12 ^{*1}	ND(1.6)				
	2017/2/13	ND(0.72)	ND(0.73)	9.7 ^{*1}	ND(1.6)				
	2017/2/6	ND(0.64)	ND(0.69)	9.4 ^{*1}	ND(1.7)				
	2017/1/30	ND(0.81)	ND(0.78)	11 ^{*1}	ND(1.7)				
	2017/1/2	ND(0.62)	ND(0.58)	10 ^{*1}	ND(1.6)	ND(0.0081)	ND(1.9)		
	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

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	2017/2/20	ND(0.71)	ND(0.53)	ND(18)	In progress	
	2017/2/13	ND(0.64)	ND(0.62)	ND(17)	ND(1.8)	
	2017/2/6	ND(0.68)	ND(0.71)	ND(17)	ND(1.6)	
	2017/1/30	ND(0.80)	ND(0.58)	ND(17)	ND(1.6)	
	2017/1/23	ND(0.52)	ND(0.64)	ND(15)	ND(1.6)	
T-0-1	2017/2/20	ND(0.63)	ND(0.68)	ND(18)	In progress	
	2017/2/13	ND(0.82)	ND(0.49)	ND(17)	ND(1.8)	
	2017/2/6	ND(0.62)	ND(0.75)	ND(17)	ND(1.6)	
	2017/1/30	ND(0.62)	ND(0.53)	ND(17)	ND(1.6)	
	2017/1/23	ND(0.63)	ND(0.67)	ND(15)	ND(1.6)	
M-101	2016/12/7	0.0030	0.019		0.11	In progress
	2016/11/11	0.019	0.12		0.21	0.0022
T-0-2	2017/2/20	ND(0.67)	ND(0.64)	ND(18)	In progress	
	2017/2/13	ND(0.70)	ND(0.57)	ND(17)	ND(1.8)	
	2017/2/6	ND(0.64)	ND(0.61)	ND(17)	ND(1.6)	
	2017/1/30	ND(0.54)	ND(0.45)	ND(17)	ND(1.5)	
	2017/1/23	ND(0.68)	ND(0.58)	ND(15)	ND(1.6)	
M-102	2016/12/8	0.0029	0.019		0.15	In progress
	2016/11/10	0.0052	0.031		0.077	0.0011
T-0-3A	2017/2/20	ND(0.71)	ND(0.85)	ND(18)	In progress	
	2017/2/13	ND(0.62)	ND(0.63)	ND(17)	ND(1.8)	
	2017/2/6	ND(0.80)	ND(0.69)	ND(17)	ND(1.6)	
	2017/1/30	ND(0.71)	ND(0.71)	ND(17)	ND(1.6)	
	2017/1/23	ND(0.74)	ND(0.65)	ND(15)	ND(1.6)	
T-0-3	2017/2/20	ND(0.74)	ND(0.69)	ND(18)	In progress	
	2017/2/13	ND(0.71)	ND(0.76)	ND(17)	ND(1.8)	
	2017/2/6	ND(0.73)	ND(0.49)	ND(17)	ND(1.6)	
	2017/1/30	ND(0.75)	ND(0.62)	ND(17)	ND(1.6)	
	2017/1/23	ND(0.84)	ND(0.56)	ND(15)	ND(1.6)	

0 0.5 1km

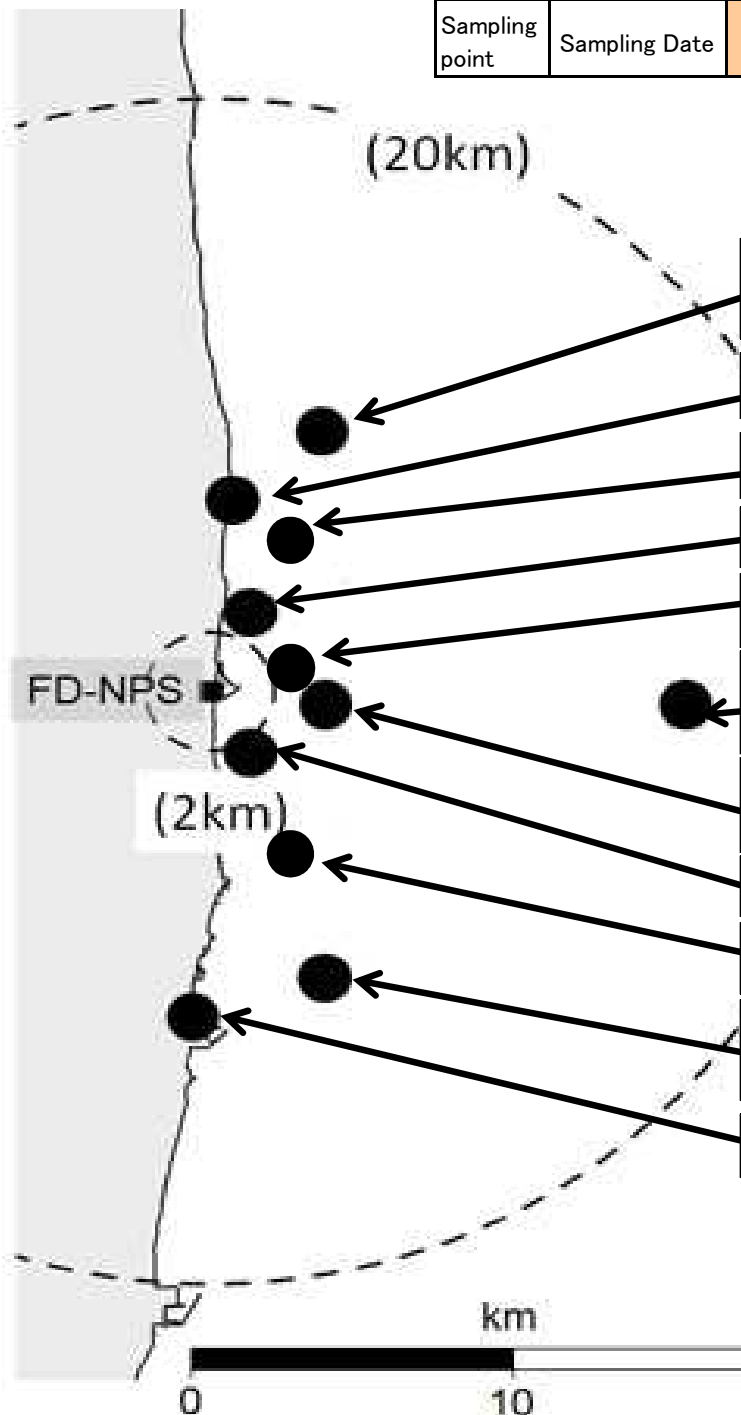
Sea area between 2-20km from the NPS (1)

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	2017/1/20	0.0027	0.015	ND(17) ^{*1}	ND(0.37)						S
	2017/1/5	ND(0.0013)	0.0054	ND(18) ^{*1}	ND(0.37)	ND(0.0061)	ND(2.5)				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	2017/1/17	0.0070	0.058	ND(17) ^{*1}	ND(0.31)						S
	2017/1/4	0.0035	0.020	ND(17) ^{*1}	ND(0.38)						S
F-P06	2017/1/20	ND(0.065)	ND(0.049)	0.03 ^{*2}	ND(0.32)	In progress		In progress	In progress		S
	2016/12/12	ND(0.054)	ND(0.049)	0.03 ^{*2}	ND(0.34)	0.0009		ND(9 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)		S
M-103	2016/12/7	0.0016	0.012		0.11	In progress					0.5m
	2016/11/11	0.0056	0.033		0.099	0.0010					0.5m
F-P04	2017/1/20	ND(0.058)	ND(0.048)	0.03 ^{*2}	ND(0.33)	In progress		In progress	In progress		S
	2016/12/12	ND(0.052)	ND(0.045)	0.04 ^{*2}	ND(0.35)	0.0027		ND(9 × 10 ⁻⁶)	ND(1 × 10 ⁻⁵)		S
T-5	2017/1/18	ND(0.0014)	0.0030	ND(17) ^{*1}	ND(0.31)						S
	2017/1/7	ND(0.0014)	0.0030	ND(15) ^{*1}	ND(0.31)	ND(0.0093)	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	2017/1/20	ND(0.0012)	0.0065	ND(17) ^{*1}	ND(0.36)						S
	2017/1/5	ND(0.0013)	0.0040	ND(18) ^{*1}	ND(0.37)	ND(0.0073)	ND(2.5)				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	2016/12/8	0.0014	0.010		0.12	In progress					0.5m
	2016/11/10	0.0024	0.017		0.071	0.00093					0.5m
F-P05	2017/1/20	ND(0.068)	ND(0.051)	0.03 ^{*2}	ND(0.32)	In progress		In progress	In progress		S
	2016/12/12	ND(0.069)	ND(0.050)	0.03 ^{*2}	ND(0.35)	0.0025		ND(8 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)		S
T-D9	2017/1/18	ND(0.0013)	0.0079	ND(17) ^{*1}	ND(0.31)						S
	2017/1/5	0.0016	0.011	ND(18) ^{*1}	ND(0.37)	ND(0.0073)	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	2017/1/17	0.0058	0.032	ND(16) ^{*1}	ND(0.38)						S
	2017/1/4	0.0050	0.027	ND(17) ^{*1}	ND(0.32)						S

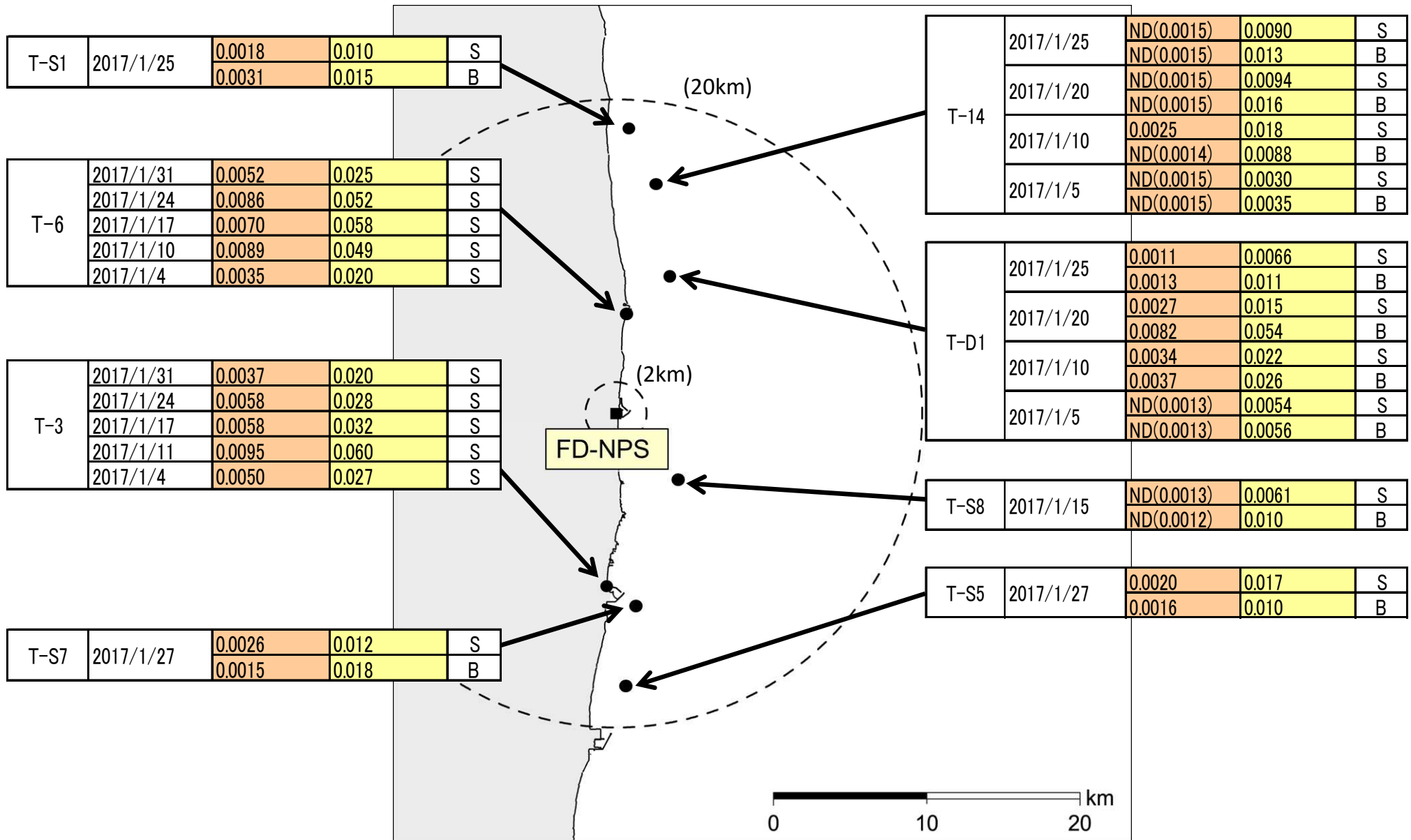
Sea area between 2-20km from the NPS (2)

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



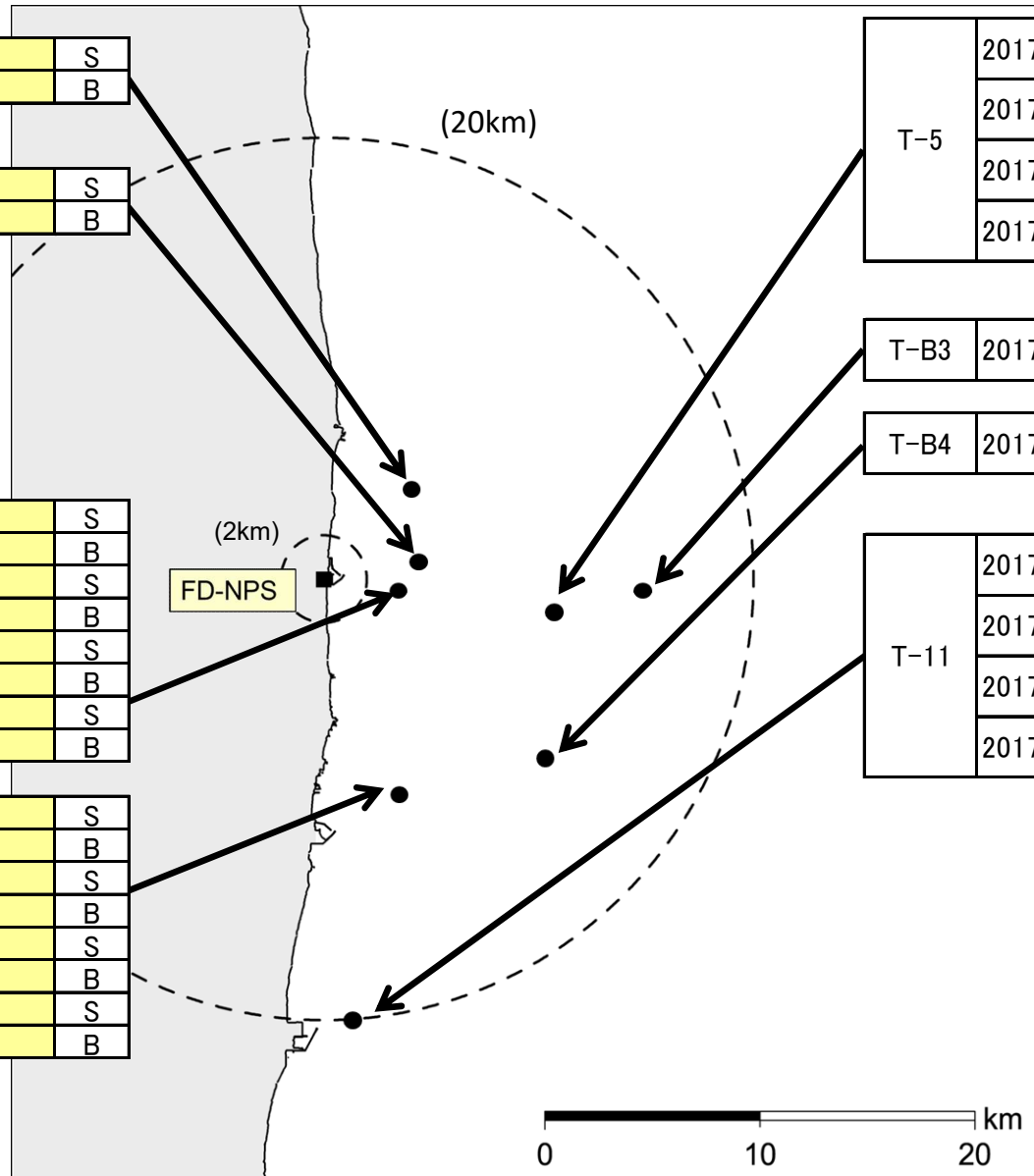
Sea area between 2-20km from the NPS (3)

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



T-S3	2017/1/18	0.0021	0.012	S
		ND(0.0015)	0.013	B

T-S4	2017/1/18	ND(0.0014)	0.0082	S
		0.0026	0.023	B

T-D5	2017/1/25	ND(0.0014)	0.0048	S
		ND(0.0014)	0.0082	B
	2017/1/20	ND(0.0012)	0.0065	S
		0.0029	0.023	B
	2017/1/10	ND(0.0014)	0.0097	S
		0.0022	0.010	B
	2017/1/5	ND(0.0013)	0.0040	S
		ND(0.0014)	0.0052	B

T-D9	2017/1/25	ND(0.0013)	0.0058	S
		ND(0.0014)	0.0065	B
	2017/1/18	ND(0.0013)	0.0079	S
		ND(0.0014)	0.011	B
	2017/1/10	ND(0.0013)	0.0029	S
		0.0026	0.016	B
	2017/1/5	0.0016	0.011	S
		0.0017	0.011	B

T-5	2017/1/26	ND(0.0014)	0.0037	S
		ND(0.0013)	0.0036	B
	2017/1/18	ND(0.0014)	0.0030	S
		ND(0.0013)	0.0052	B
	2017/1/10	ND(0.0014)	0.0034	S
		ND(0.0014)	0.0043	B
	2017/1/7	ND(0.0014)	0.0030	S
		ND(0.0014)	0.0037	B

T-B3	2017/1/28	ND(0.0012)	0.0069	S
		ND(0.0013)	0.0034	B

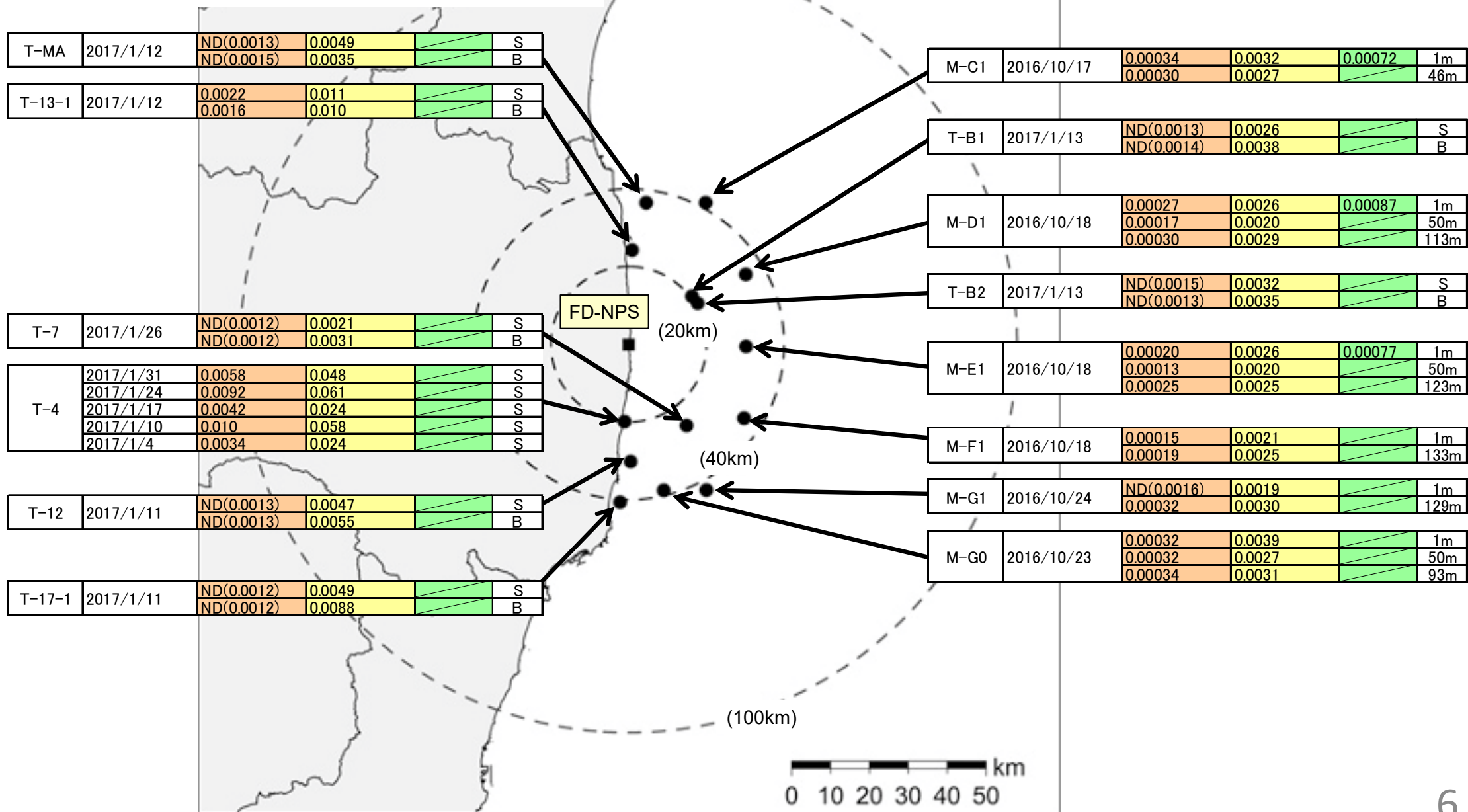
T-B4	2017/1/28	ND(0.0015)	0.0025	S
		ND(0.0013)	0.0031	B

T-11	2017/1/26	ND(0.0012)	0.0071	S
		0.0018	0.0089	B
	2017/1/18	0.0013	0.0095	S
		0.0047	0.031	B
	2017/1/10	0.0041	0.029	S
		0.0056	0.040	B
	2017/1/5	ND(0.0013)	0.0086	S
		ND(0.0013)	0.0079	B

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
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Sea water radioactivity (Bq/L):
 ND: Not detected; Numbers in parentheses: detection limits



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

Sampling point	Sampling Date	Cs-134	Cs-137	Gross β *	H-3	Sr-90	S/I: 2m below sea level B: 2-3m above sea bottom
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Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

*Gross β excluding K-40

M-C3	2016/10/17	0.00026	0.0025	0.025	0.074	0.00069	1m
		ND(0.00014)	0.0019				50m
		0.00025	0.0027				122m

T-22	2017/1/12	0.0020	0.0081				S
		0.0023	0.011				B

M-D3	2016/10/19	0.00024	0.0025	0.028	0.077	0.00093	1m
		ND(0.00014)	0.0020				100m
		0.00017	0.0020				212m

M-F3	2016/10/19	0.00022	0.0020	0.025	0.052	0.0015	1m
		0.00024	0.0024				100m
		0.00015	0.0019				216m

T-18	2017/1/24	ND(0.0013)	0.0040				S
		ND(0.0013)	0.0048				B

T-20	2017/1/11	ND(0.0014)	0.0042				S
		ND(0.0015)	0.0045				B

T-M10	2017/1/24	ND(0.0012)	0.0020				S
		ND(0.0013)	0.0041				B

M-E3	2016/10/19	0.00018	0.0024	0.029	0.061	0.00059	1m
		ND(0.00014)	0.0019				100m
		0.00017	0.0019				216m

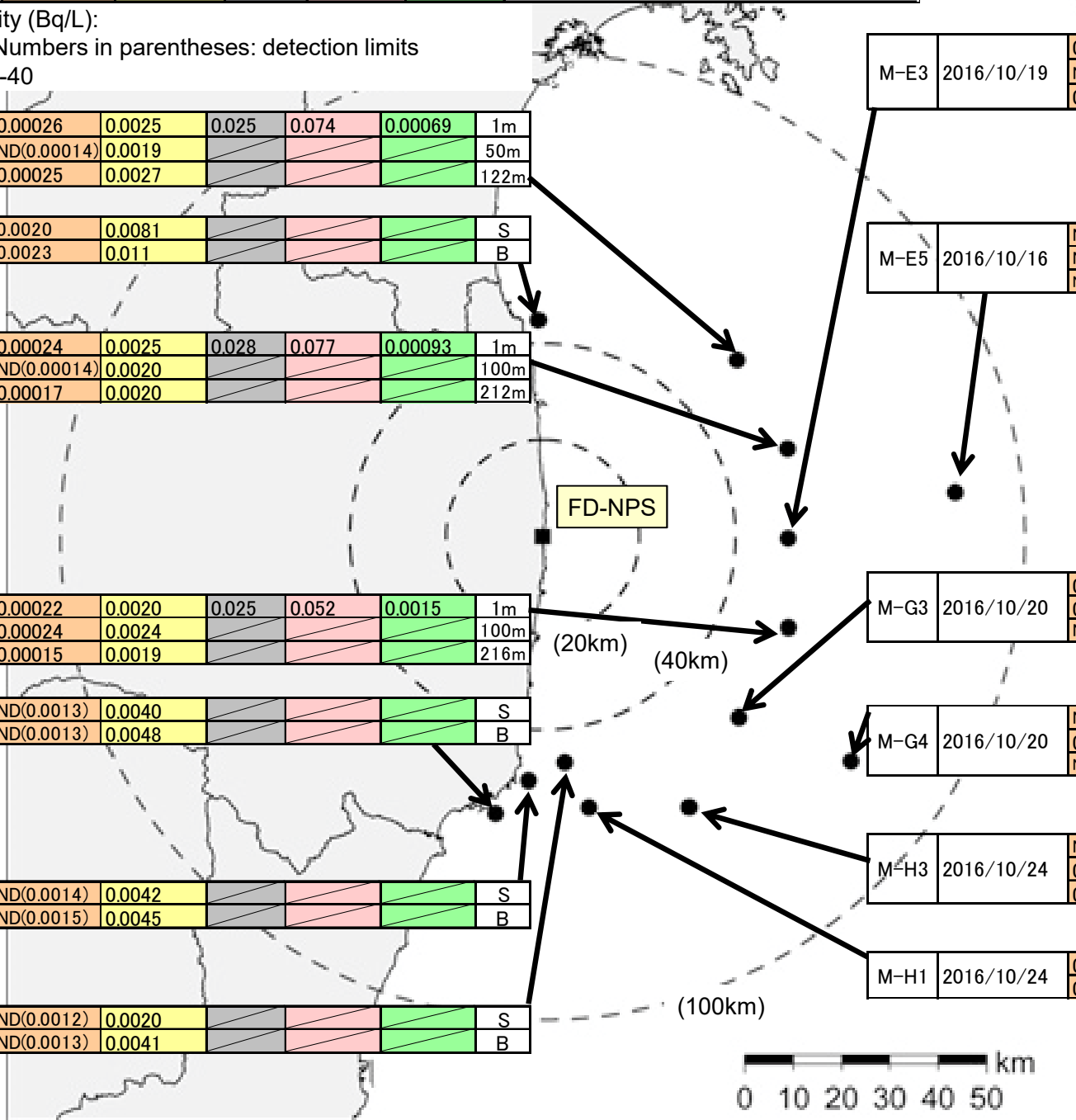
M-E5	2016/10/16	ND(0.00012)	0.0019	0.027	0.067	0.00095	1m
		ND(0.00015)	0.0021				100m
		ND(0.000081)	0.00066				517m

M-G3	2016/10/20	0.00022	0.0022	0.027	0.072	0.00076	1m
		0.00019	0.0026				100m
		ND(0.00015)	0.0022				193m

M-G4	2016/10/20	ND(0.00014)	0.0017	0.030	0.055	0.00087	1m
		0.00026	0.0025				100m
		ND(0.000079)	0.00053				644m

M-H3	2016/10/24	ND(0.00014)	0.0018	0.030	0.053	0.00077	1m
		0.00019	0.0025				100m
		0.00016	0.0021				215m

M-H1	2016/10/24	0.00025	0.0025				1m
		0.00021	0.0028				122m

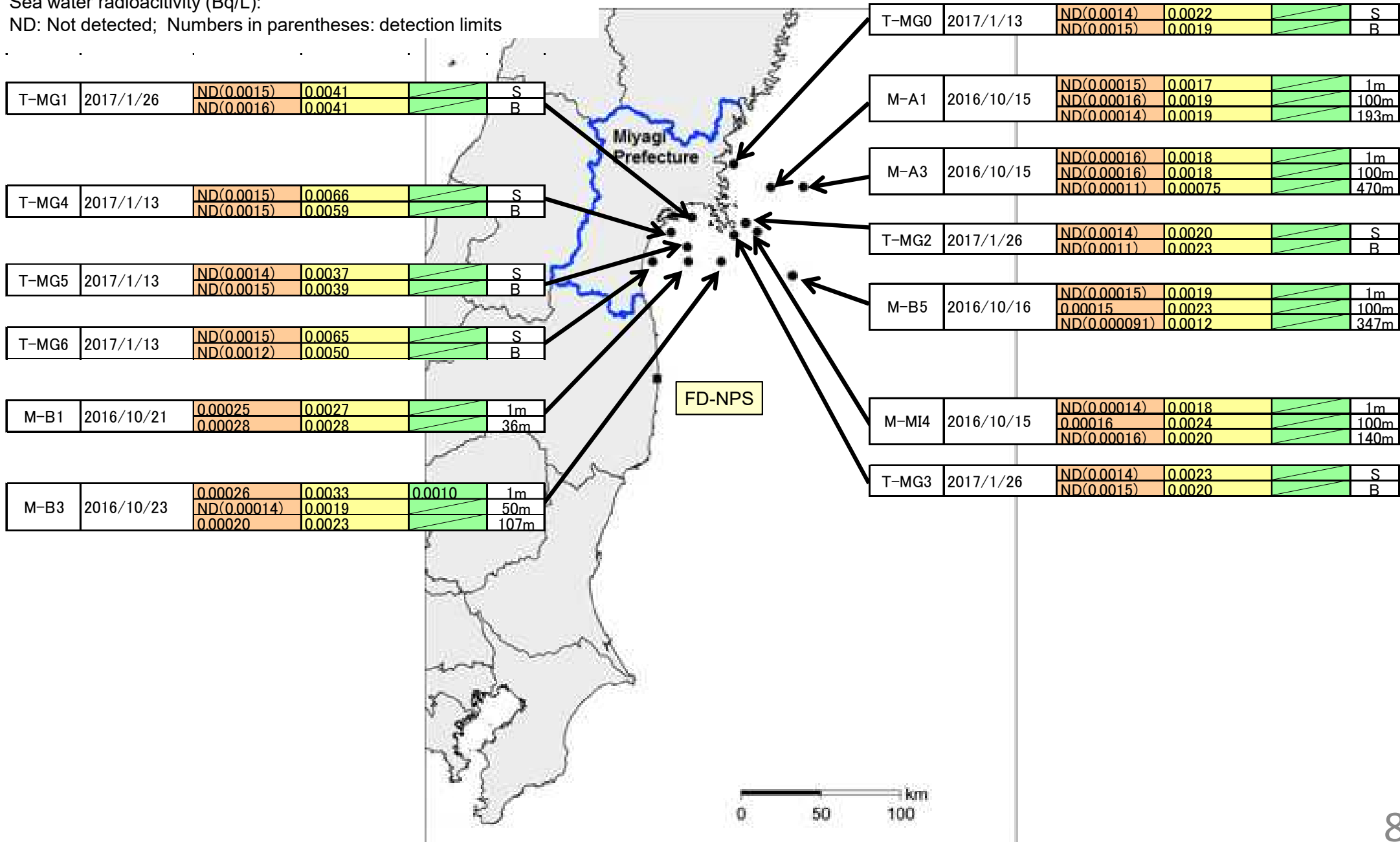


Sea area along and off the coast of Miyagi Prefecture

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

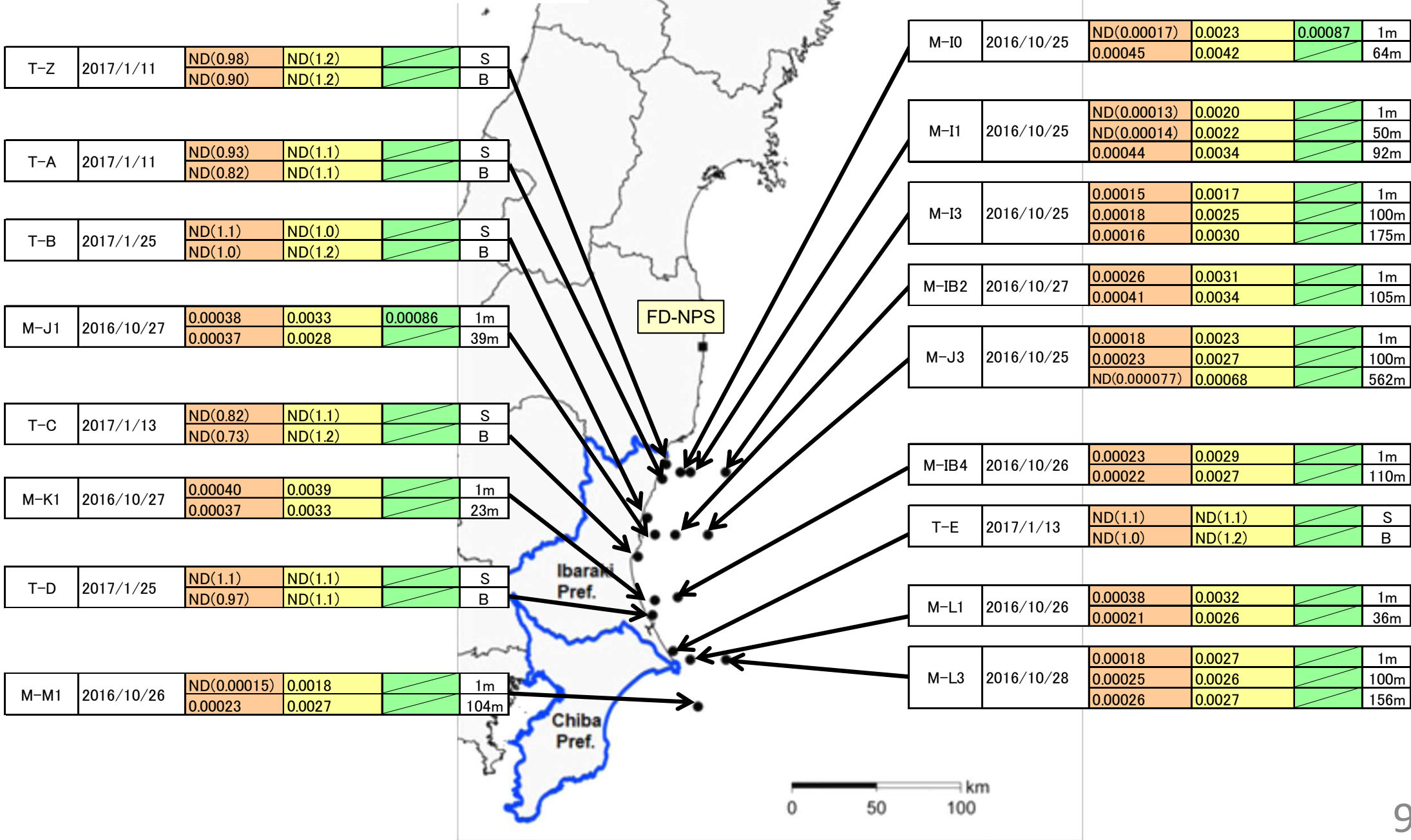


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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

