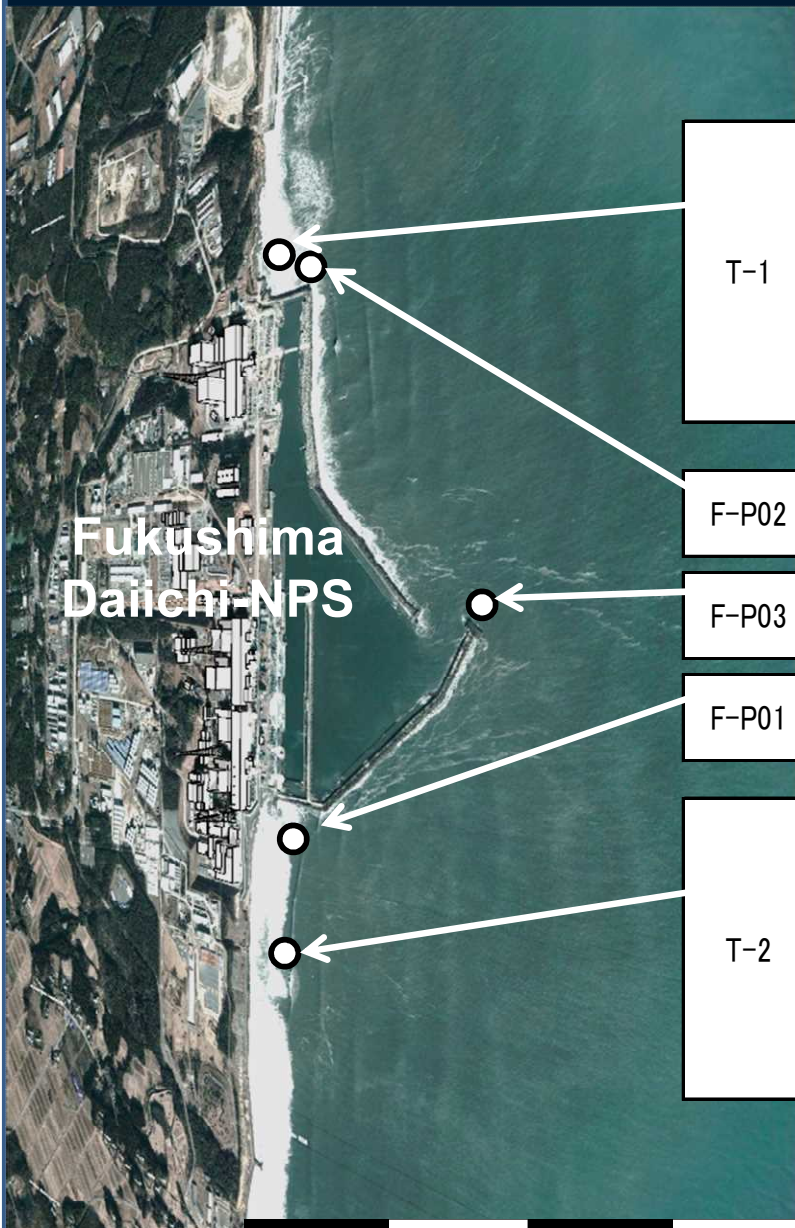


Sea Area Monitoring

February 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

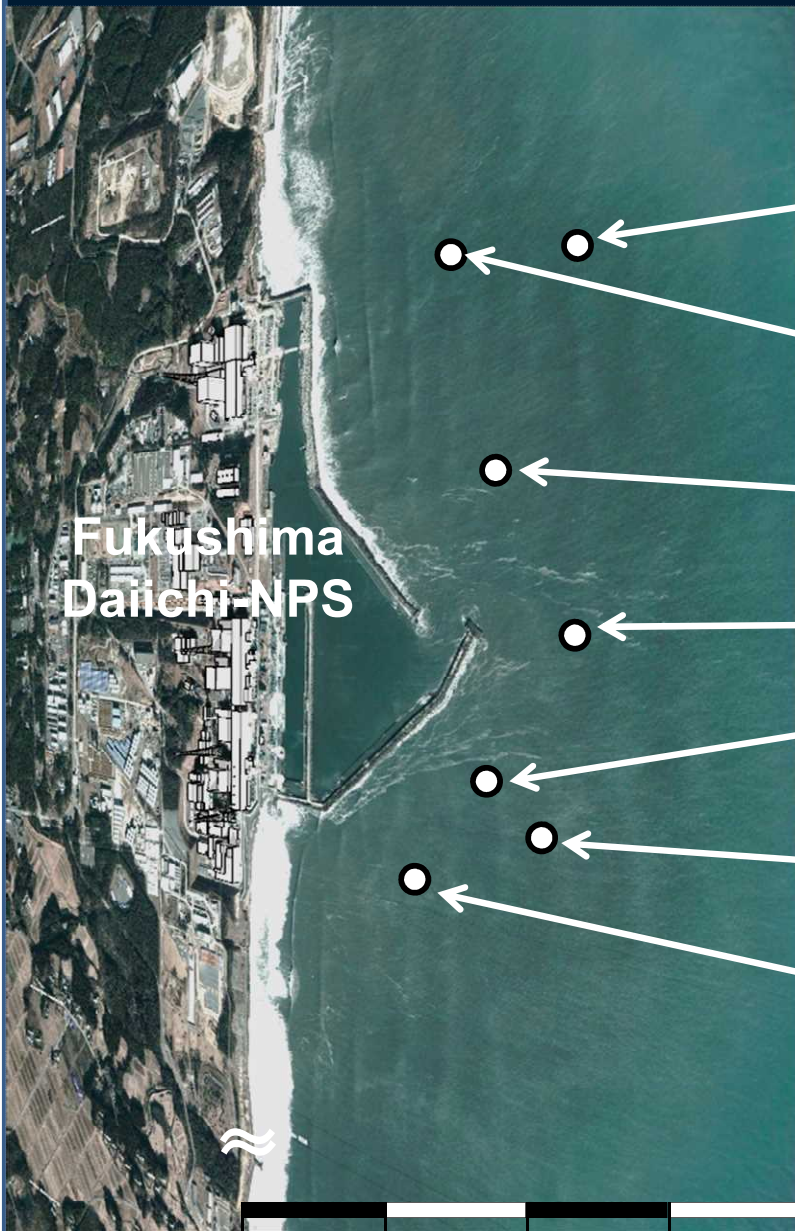
T-1	2017/1/23	ND(0.72)	ND(0.57)	13 ^{*1}	ND(1.7)				
	2017/1/16	ND(0.54)	ND(0.59)	11 ^{*1}	ND(1.7)				
	2017/1/10	ND(0.73)	ND(0.86)	17 ^{*1}	ND(1.5)				
	2017/1/2	ND(0.63)	ND(0.53)	10 ^{*1}	ND(1.5)				
	2016/12/26	ND(0.50)	ND(0.66)	13 ^{*1}	2.7				
	2016/12/5	ND(0.61)	ND(0.57)	12 ^{*1}	ND(1.6)	ND(0.0072)	ND(2.0)		
	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	2016/12/12	ND(0.058)	ND(0.050)	0.03 ^{*2}	ND(0.35)	In progress		ND(8×10^{-6})	ND(8.0×10^{-6})
	2016/11/15	ND(0.072)	0.14	0.02 ^{*2}	ND(0.43)	0.0028		ND(8×10^{-6})	ND(1.0×10^{-5})
F-P03	2016/12/12	ND(0.057)	0.11	0.03 ^{*2}	ND(0.35)	In progress		ND(6.0×10^{-6})	ND(6.0×10^{-6})
	2016/11/15	ND(0.080)	0.32	0.03 ^{*2}	0.65	0.013		ND(6.0×10^{-6})	ND(8.0×10^{-6})
F-P01	2016/12/12	ND(0.049)	ND(0.047)	0.02 ^{*2}	ND(0.35)	In progress		ND(8.0×10^{-6})	ND(8.0×10^{-6})
	2016/11/15	ND(0.077)	0.11	0.02 ^{*2}	ND(0.43)	0.0021		ND(8.0×10^{-6})	ND(1.1×10^{-5})
T-2	2017/1/23	ND(0.68)	ND(0.58)	17 ^{*1}	ND(1.7)				
	2017/1/16	ND(0.71)	ND(0.53)	12 ^{*1}	ND(1.9)				
	2017/1/10	ND(0.59)	ND(0.71)	9.7 ^{*1}	ND(1.8)				
	2017/1/2	ND(0.62)	ND(0.58)	10 ^{*1}	ND(1.6)				
	2016/12/26	ND(0.50)	ND(0.63)	10 ^{*1}	ND(1.9)				
	2016/12/5	ND(0.46)	ND(0.58)	15 ^{*1}	ND(1.8)	0.0097	ND(1.6)		
	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)



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	2017/1/23	ND(0.52)	ND(0.64)	ND(15)	In progress	
	2017/1/16	ND(0.73)	ND(0.89)	ND(15)	ND(1.6)	
	2017/1/12	ND(0.64)	ND(0.76)	ND(17)	ND(1.6)	
	2017/1/2	ND(0.86)	ND(0.86)	ND(18)	ND(1.8)	
	2016/12/26	ND(0.64)	ND(0.69)	ND(17)	ND(1.7)	
T-0-1	2017/1/23	ND(0.63)	ND(0.67)	ND(15)	In progress	
	2017/1/16	ND(0.59)	ND(0.53)	ND(15)	ND(1.6)	
	2017/1/12	ND(0.62)	ND(0.58)	ND(17)	ND(1.7)	
	2017/1/2	ND(0.71)	ND(0.58)	ND(18)	ND(1.7)	
	2016/12/26	ND(0.83)	ND(0.58)	ND(17)	ND(1.7)	
M-101	2016/12/7	0.0030	0.019		In progress	In progress
	2016/11/11	0.019	0.12		0.21	In progress
	2016/10/5	0.0020	0.014		0.081	0.0011
T-0-2	2017/1/23	ND(0.68)	ND(0.58)	ND(15)	In progress	
	2017/1/16	ND(0.58)	ND(0.62)	ND(15)	ND(1.6)	
	2017/1/12	ND(0.71)	ND(0.67)	ND(17)	ND(1.6)	
	2017/1/2	ND(0.64)	ND(0.66)	ND(18)	ND(1.7)	
	2016/12/26	ND(0.67)	ND(0.52)	ND(17)	ND(1.7)	
M-102	2016/12/8	0.0029	0.019		In progress	In progress
	2016/11/10	0.0052	0.031		0.077	In progress
	2016/10/7	0.0064	0.036		0.15	0.0028
T-0-3A	2017/1/23	ND(0.74)	ND(0.65)	ND(15)	In progress	
	2017/1/16	ND(0.74)	ND(0.50)	ND(15)	ND(1.6)	
	2017/1/12	ND(0.75)	ND(0.67)	ND(17)	ND(1.6)	
	2017/1/2	ND(0.59)	ND(0.68)	ND(18)	ND(1.7)	
	2016/12/26	ND(0.78)	ND(0.73)	ND(17)	ND(1.7)	
T-0-3	2017/1/23	ND(0.84)	ND(0.56)	ND(15)	In progress	
	2017/1/16	ND(0.63)	ND(0.65)	ND(15)	ND(1.6)	
	2017/1/12	ND(0.84)	ND(0.78)	ND(17)	ND(1.6)	
	2017/1/2	ND(0.68)	ND(0.58)	ND(18)	ND(1.8)	
	2016/12/26	ND(0.69)	ND(0.56)	ND(17)	ND(1.7)	

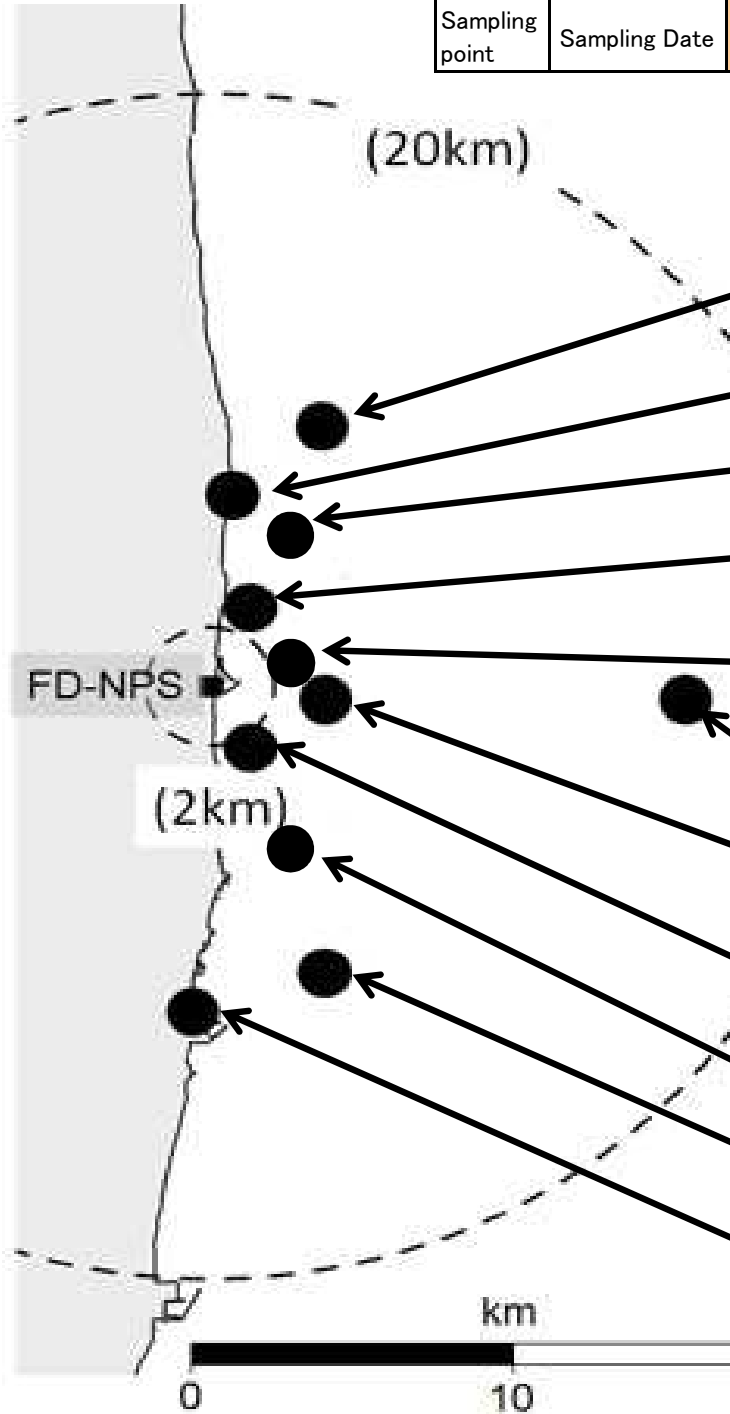
Sea area between 2-20km from the NPS (1)

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	2016/12/19	ND(0.0013)	0.0059	ND(18) ^{*1}	ND(0.31)						S
	2016/12/7	0.0017	0.011	ND(16) ^{*1}	ND(0.30)	ND(0.0088)	ND(1.6)				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	2016/12/20	0.0031	0.019	ND(17) ^{*1}	ND(0.36)						S
	2016/12/7	0.0045	0.026	ND(18) ^{*1}	ND(0.36)						S
F-P06	2016/12/12	ND(0.054)	ND(0.049)	0.03 ^{*2}	ND(0.34)	In progress		ND(9 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)		S
	2016/11/15	ND(0.053)	0.049	0.03 ^{*2}	ND(0.42)	0.0011		ND(6 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)		S
M-103	2016/12/7	0.0016	0.012		In progress	In progress					0.5m
	2016/11/11	0.0056	0.033		0.099	In progress					0.5m
	2016/10/5	0.0016	0.011		0.11	0.0010					0.5m
	2016/9/8	0.0026	0.020		0.088	0.0011					0.5m
F-P04	2016/12/12	ND(0.052)	ND(0.045)	0.04 ^{*2}	ND(0.35)	In progress		ND(9 × 10 ⁻⁶)	ND(1 × 10 ⁻⁵)		S
	2016/11/15	ND(0.050)	0.066	0.02 ^{*2}	ND(0.42)	0.0019		ND(8 × 10 ⁻⁶)	ND(9 × 10 ⁻⁶)		S
T-5	2016/12/19	ND(0.0012)	0.0036	ND(18) ^{*1}	ND(0.31)						S
	2016/12/7	ND(0.0014)	0.0019	ND(16) ^{*1}	ND(0.31)	ND(0.0066)	ND(1.6)				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	2016/12/19	ND(0.0014)	0.0043	ND(18) ^{*1}	ND(0.31)						S
	2016/12/6	ND(0.0014)	0.010	ND(16) ^{*1}	ND(0.31)	ND(0.0082)	ND(2.0)				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		In progress	In progress					0.5m
	2016/11/10	0.0024	0.017		0.071	In progress					0.5m
	2016/10/7	0.0021	0.012		0.10	0.0012					0.5m
	2016/9/7	0.0047	0.031		0.11	0.0012					0.5m
F-P05	2016/12/12	ND(0.069)	ND(0.050)	0.03 ^{*2}	ND(0.35)	In progress		ND(8 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)		S
	2016/11/15	ND(0.054)	ND(0.047)	0.02 ^{*2}	ND(0.42)	0.0013		ND(6 × 10 ⁻⁶)	6 × 10 ⁻⁶		S
T-D9	2016/12/19	ND(0.0014)	0.0043	ND(18) ^{*1}	ND(0.31)						S
	2016/12/6	0.0042	0.024	ND(16) ^{*1}	ND(0.31)	ND(0.0067)	ND(2.0)				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	2016/12/20	0.0033	0.018	ND(15) ^{*1}	ND(0.30)						S
	2016/12/7	0.0051	0.032	ND(17) ^{*1}	ND(0.29)						S

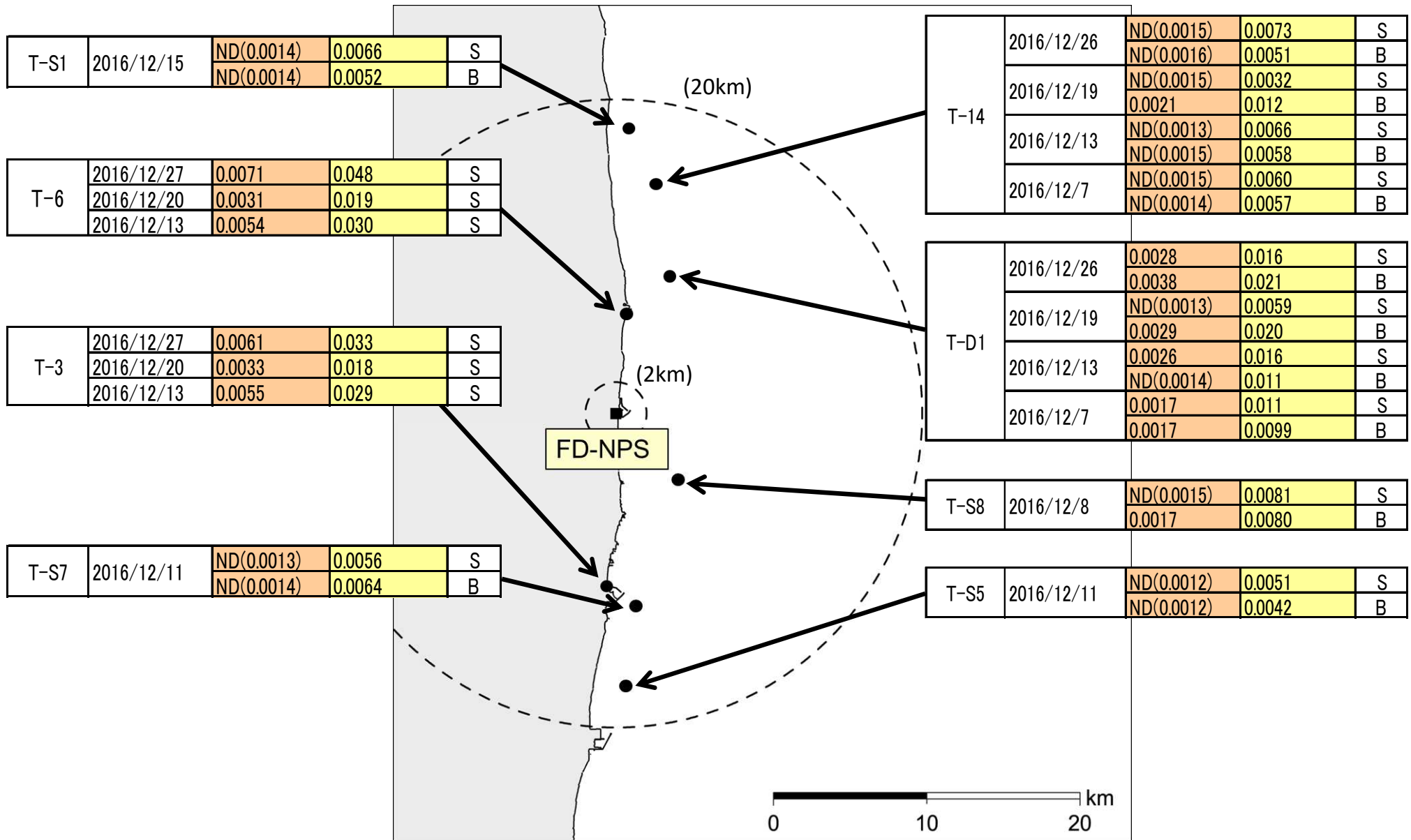
Sea area between 2-20km from the NPS (2)

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



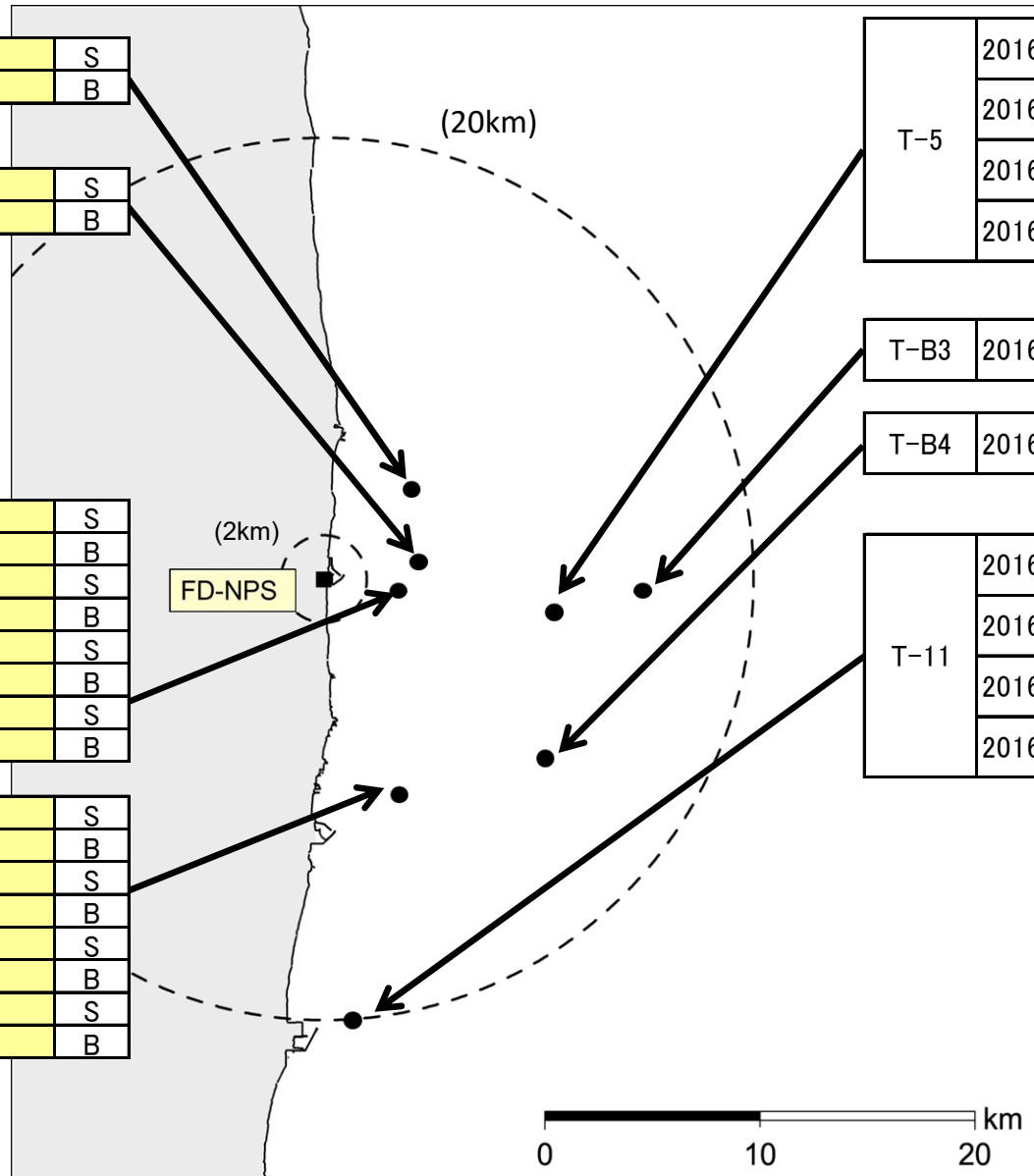
Sea area between 2-20km from the NPS (3)

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	2016/12/15	ND(0.0014)	0.0034	S
		ND(0.0014)	0.0067	B

T-S4	2016/12/15	ND(0.0014)	0.0065	S
		ND(0.0013)	0.0075	B

T-D5	2016/12/26	ND(0.0014)	0.0050	S
		ND(0.0014)	0.0085	B
	2016/12/19	ND(0.0014)	0.0043	S
		ND(0.0014)	0.0049	B
	2016/12/13	ND(0.0014)	0.0048	S
		ND(0.0014)	0.0050	B
	2016/12/6	ND(0.0014)	0.010	S
		0.0014	0.0093	B

T-D9	2016/12/26	ND(0.0014)	0.0050	S
		ND(0.0014)	0.0053	B
	2016/12/19	ND(0.0014)	0.0043	S
		ND(0.0012)	0.0041	B
	2016/12/13	ND(0.0012)	0.0031	S
		ND(0.0012)	0.0028	B
	2016/12/6	0.0042	0.024	S
		0.0031	0.023	B

T-5	2016/12/26	ND(0.0013)	0.0029	S
		ND(0.0013)	0.0034	B
	2016/12/19	ND(0.0012)	0.0036	S
		ND(0.0012)	0.0039	B
	2016/12/13	ND(0.0013)	0.0028	S
		ND(0.0014)	0.0041	B
	2016/12/7	ND(0.0014)	0.0019	S
		ND(0.0013)	0.0053	B

T-B3	2016/12/5	ND(0.0013)	0.0064	S
		ND(0.0013)	0.0057	B

T-B4	2016/12/5	ND(0.0013)	0.0040	S
		ND(0.0013)	0.0029	B

T-11	2016/12/26	0.0020	0.011	S
		0.0019	0.0075	B
	2016/12/19	ND(0.0013)	0.0039	S
		ND(0.0013)	0.0071	B
	2016/12/13	ND(0.0013)	0.0025	S
		ND(0.0012)	0.0034	B
	2016/12/6	0.0025	0.020	S
		0.0034	0.023	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

T-MA	2016/12/1	ND(0.0015)	0.0041		S
		ND(0.0015)	0.0045		B

T-13-1	2016/12/1	ND(0.0015)	0.0065		S
		ND(0.0014)	0.0060		B

T-7	2016/12/7	ND(0.0011)	0.0019		S
		ND(0.0012)	0.0027		B

T-4	2016/12/27	0.0041	0.025		S
	2016/12/20	0.0033	0.019		S
	2016/12/13	0.0038	0.024		S
	2016/12/7	0.0045	0.025		S

T-12	2016/12/2	0.0020	0.013		S
		0.0020	0.012		B

T-17-1	2016/12/2	ND(0.0013)	0.0057		S
		ND(0.0013)	0.0055		B

M-C1	2016/7/29	0.00032	0.0030	0.0011	1m
		0.00029	0.0026		45m

T-B1	2016/12/8	ND(0.0014)	0.0035		S
		ND(0.0014)	0.0039		B

M-D1	2016/8/2	0.00024	0.0022	0.00097	1m
		0.00016	0.0022		50m
		0.00018	0.0021		112m

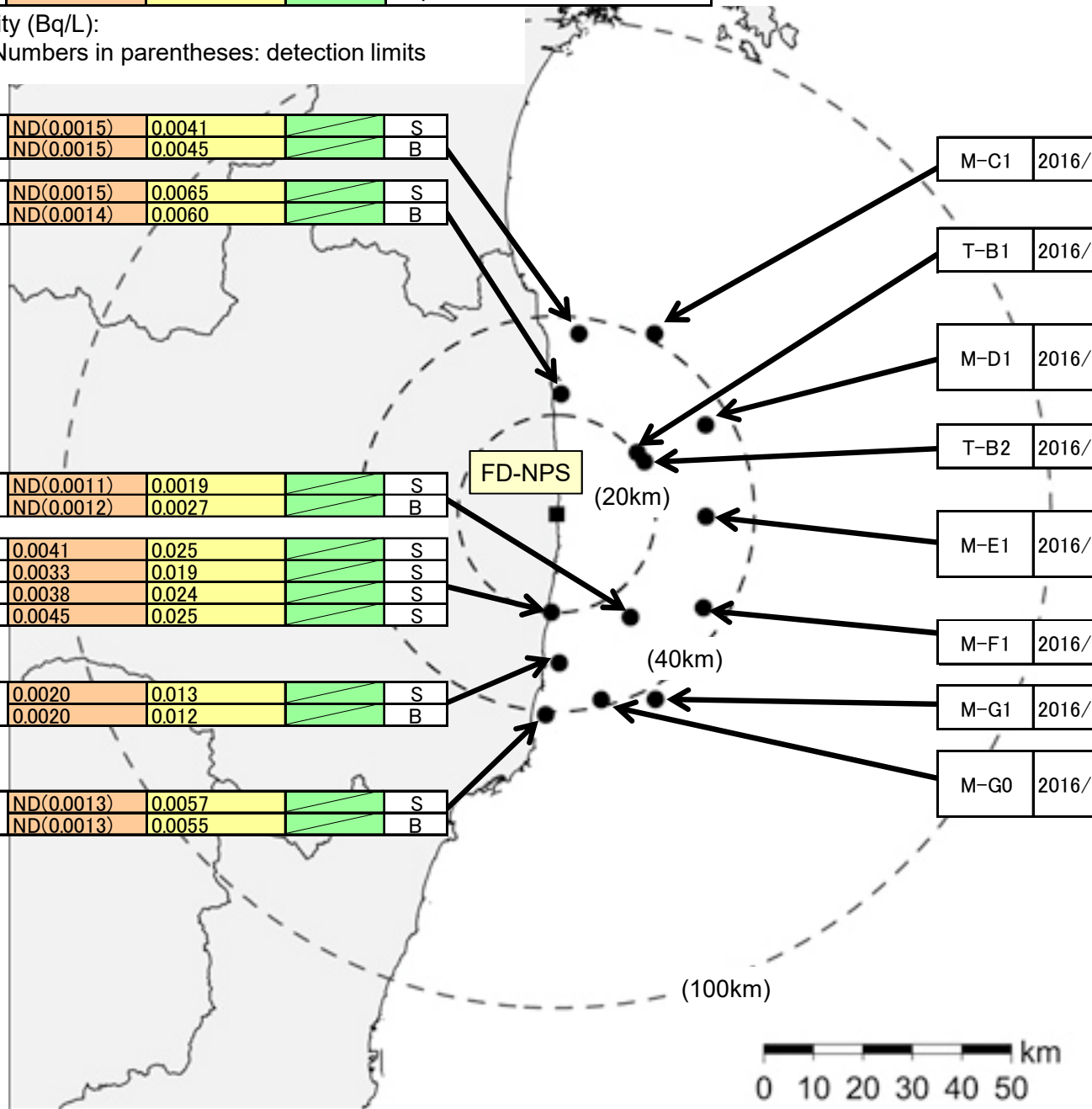
T-B2	2016/12/8	ND(0.0016)	0.0036		S
		ND(0.0014)	0.0032		B

M-E1	2016/7/27	0.00016	0.0022	0.00088	1m
		0.00020	0.0026		50m
		0.00019	0.0023		120m

M-F1	2016/7/26	0.00019	0.0024		1m
		0.00019	0.0026		127m

M-G1	2016/7/25	0.00022	0.0024		1m
		0.00021	0.0026		124m

M-G0	2016/7/25	0.00020	0.0025		1m
		ND(0.00016)	0.0020		50m
		0.00029	0.0029		94m



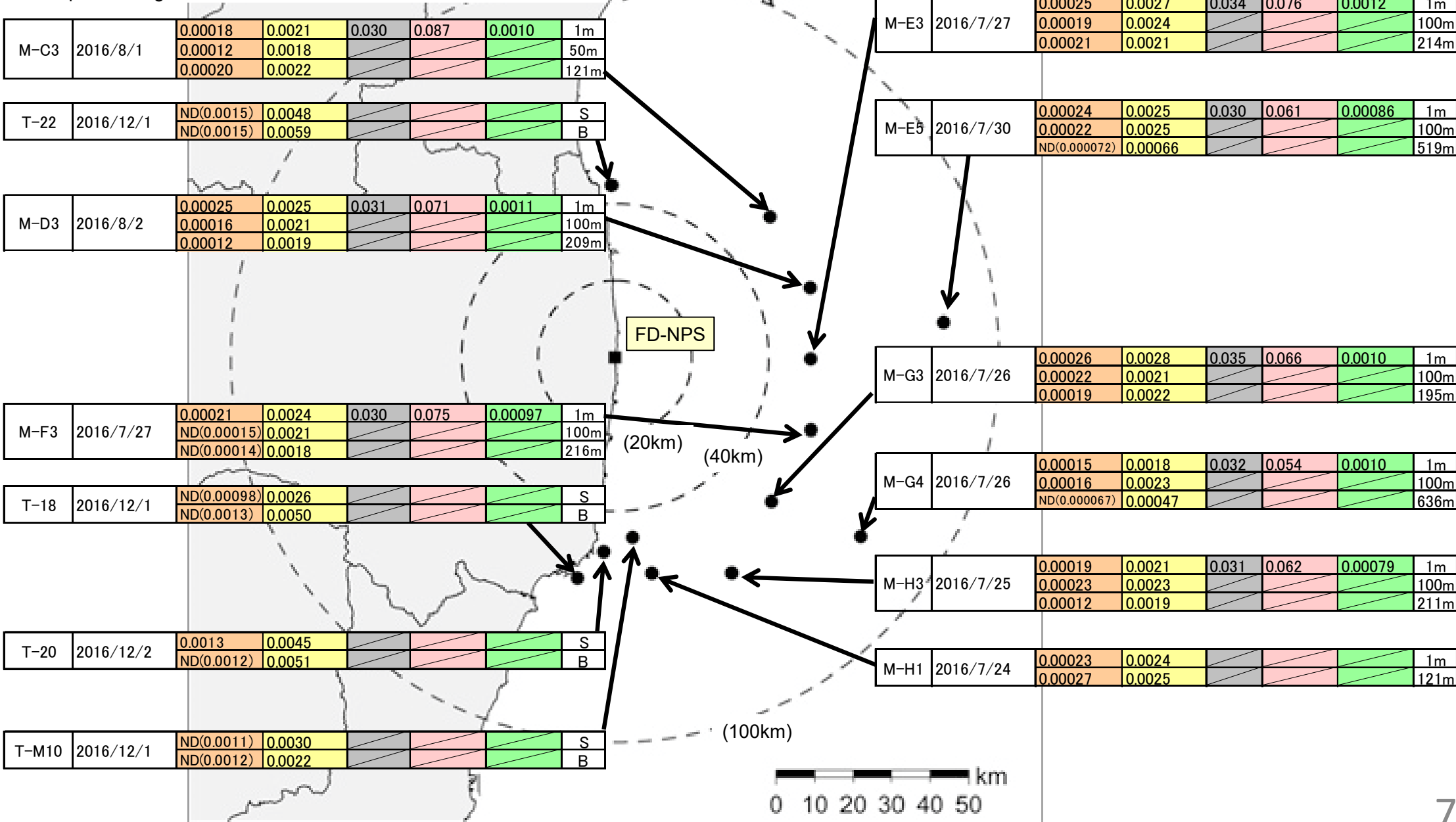
Sea area between 20-100km from the NPS(2)

Sampling point	Sampling Date	Cs-134	Cs-137	Gross 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: Not detected; Numbers in parentheses: detection limits

*Gross β excluding K-40

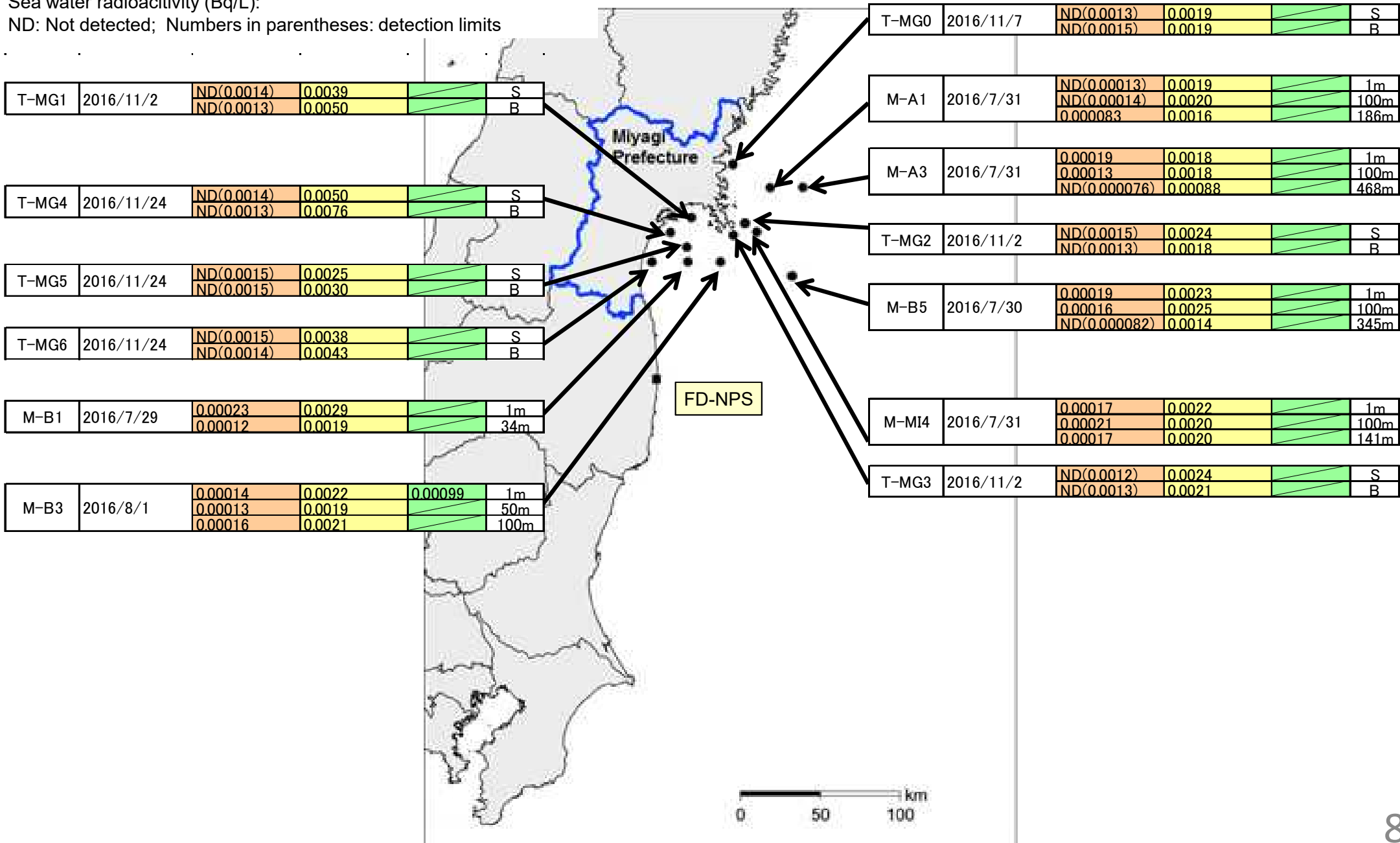


Sea area along and off the coast of Miyagi Prefecture

Sampling point	Sampling Date	Cs-134	Cs-137	Sr-90	S/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

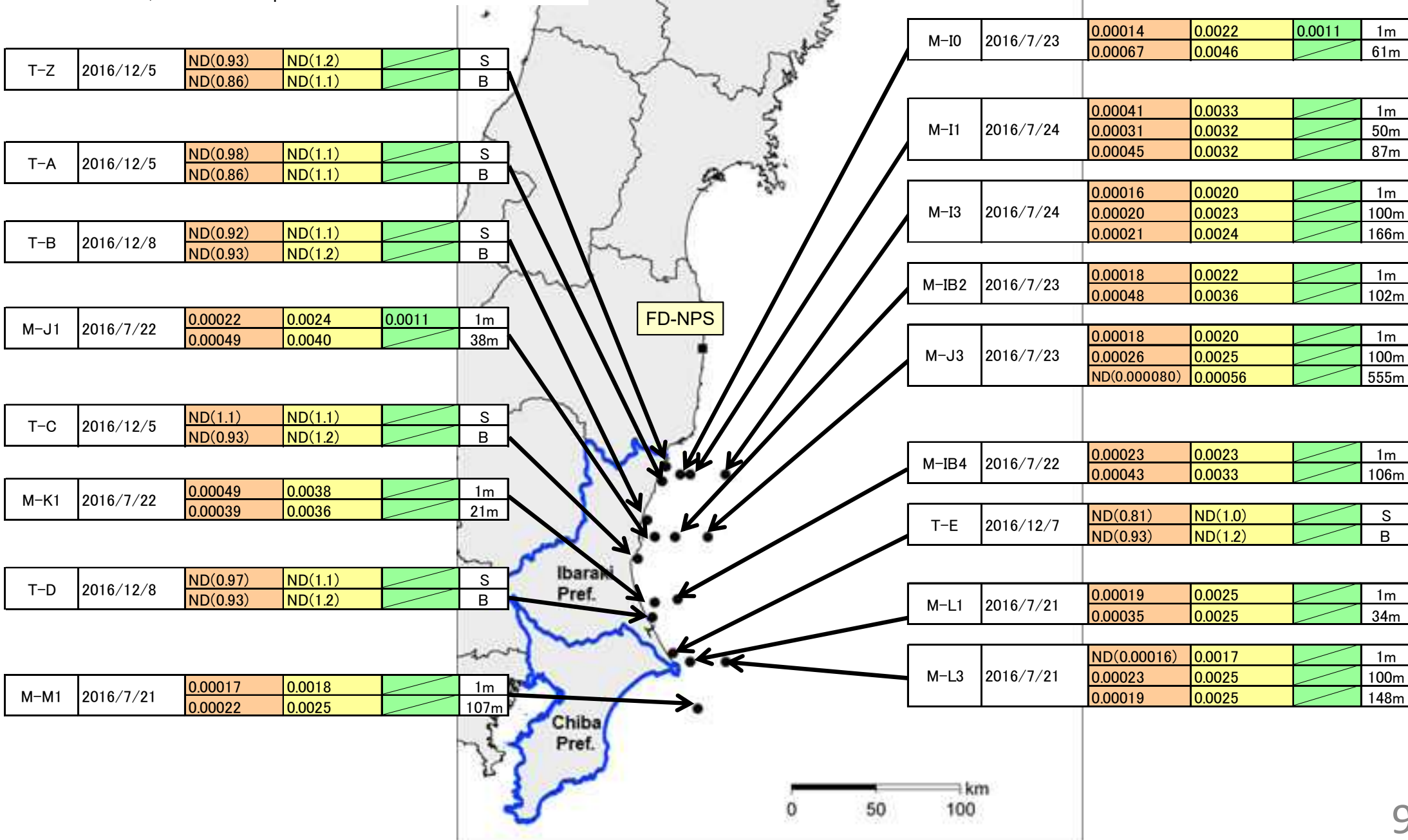


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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

M-10	2016/6/9	ND(0.00064)	0.0022	1m
		ND(0.00069)	0.0026	100m
		ND(0.00063)	0.0020	200m
		ND(0.00062)	0.0018	300m
		ND(0.00064)	0.0011	500m

M-14	2016/6/7	ND(0.00058)	0.0022	1m
		ND(0.00060)	0.0028	100m
		ND(0.00056)	0.0024	200m
		ND(0.00060)	0.0020	300m
		ND(0.00062)	0.00084	500m

M-19	2016/6/4	ND(0.00068)	0.0026	1m
		ND(0.00068)	0.0028	100m
		ND(0.00067)	0.0025	200m
		ND(0.00070)	0.0019	300m
		ND(0.00072)	0.00084	500m

M-20	2016/6/7	ND(0.00065)	0.0023	1m
		ND(0.00064)	0.0026	100m
		ND(0.00068)	0.0021	199m
		ND(0.00060)	0.0019	301m
		ND(0.00063)	0.0010	500m

M-25	2015/6/5	ND(0.00060)	0.0016	1m
		ND(0.00056)	0.0023	100m
		ND(0.00069)	0.0034	200m
		ND(0.00063)	0.0034	300m
		ND(0.00062)	0.0021	500m

M-11	2016/6/8	ND(0.00064)	0.0026	1m
		ND(0.00072)	0.0027	100m
		ND(0.00065)	0.0020	200m
		ND(0.00064)	0.0014	300m
		ND(0.00072)	0.00092	500m

M-15	2016/6/8	ND(0.00058)	0.0020	1m
		ND(0.00062)	0.0027	100m
		ND(0.00070)	0.0035	200m
		ND(0.00063)	0.0031	300m
		ND(0.00059)	0.0012	500m

M-21	2016/6/6	ND(0.00059)	0.0022	1m
		ND(0.00060)	0.0025	100m
		ND(0.00062)	0.0023	200m
		ND(0.00064)	0.0015	300m
		ND(0.00063)	0.00090	501m

M-26	2016/6/5	ND(0.00060)	0.0017	1m
		ND(0.00058)	0.0025	99m
		ND(0.00066)	0.0028	200m
		ND(0.00056)	0.0037	301m
		ND(0.00064)	0.0021	500m

M-27	2016/6/6	ND(0.00056)	0.0026	1m
		ND(0.00056)	0.0032	100m
		ND(0.00055)	0.0022	200m
		ND(0.00055)	0.0022	300m
		ND(0.00057)	0.0011	500m

