

Sea Area Monitoring

November 27, 2017

Nuclear Regulation Authority (NRA), Japan

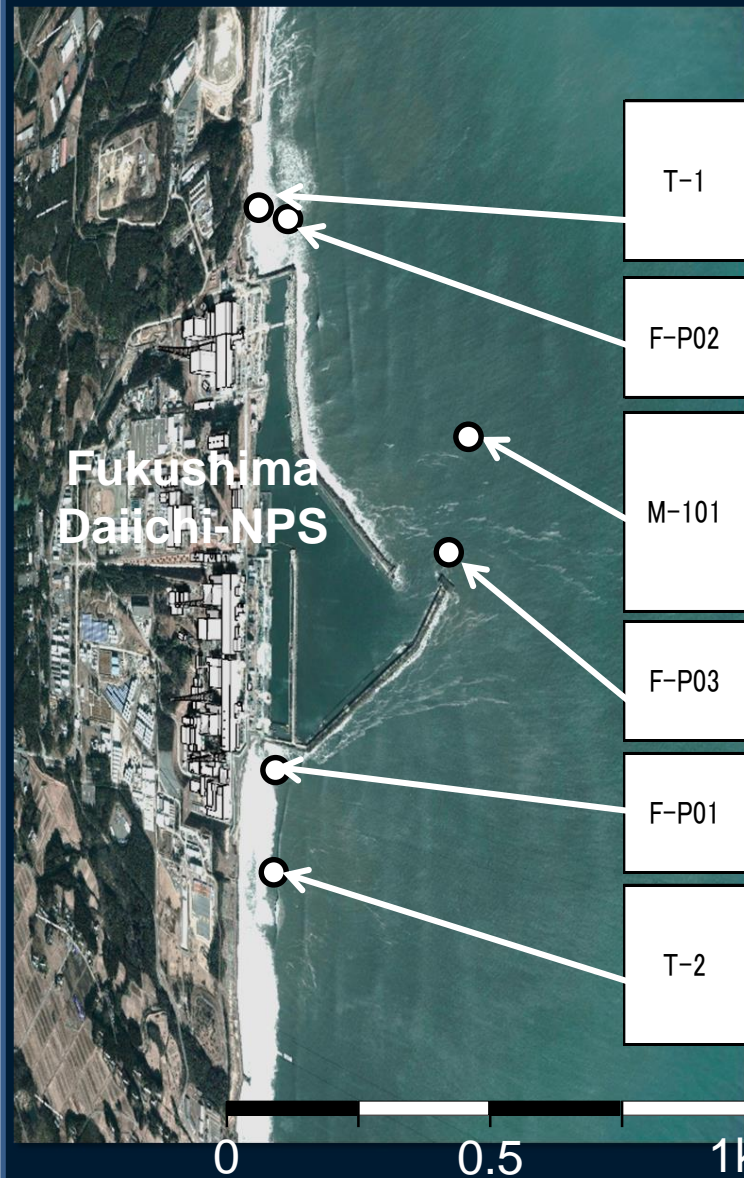
The most recent radioactivity data of sea area within 2km from the NPS

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	2017/9/4	0.012	0.087	14 ^{*1}	ND(1.6)	0.0025	ND(2.3)		
	2017/9/11	0.017	0.14	12 ^{*1}	ND(1.5)				
	2017/9/19	0.014	0.11	11 ^{*1}	ND(1.5)				
	2017/9/25	0.028	0.20	8.9 ^{*1}	ND(1.6)				
F-P02	2017/5/16	0.006	0.040	0.03 ^{*2}	ND(0.34)	0.0027		12×10^{-6}	ND(7×10^{-6})
	2017/6/13	0.004	0.021	0.02 ^{*2}	ND(0.33)	0.0017		ND(7×10^{-6})	ND(7×10^{-6})
	2017/7/10	0.008	0.057	0.02 ^{*2}	ND(0.34)	0.0025		ND(6×10^{-6})	ND(6×10^{-6})
M-101	2017/5/30	0.00078	0.0065		0.071	0.0011			
	2017/6/14	0.0030	0.022		0.17	0.0017			
	2017/7/12	0.0050	0.039		0.18				
	2017/8/2	0.017	0.12			0.013			
	2017/9/7	0.0033	0.031						
F-P03	2017/5/16	0.011	0.080	0.03 ^{*2}	ND(0.34)	0.0067		9×10^{-6}	ND(6×10^{-6})
	2017/6/13	ND(0.002)	0.006	0.02 ^{*2}	ND(0.33)	0.0007		ND(6×10^{-6})	ND(6×10^{-6})
	2017/7/10	0.016	0.12	0.05 ^{*2}	ND(0.34)	0.0050		ND(6×10^{-6})	ND(6×10^{-6})
F-P01	2017/5/16	0.010	0.063	0.04 ^{*2}	ND(0.34)	0.0056		7×10^{-6}	ND(6×10^{-6})
	2017/6/13	ND(0.002)	0.006	0.03 ^{*2}	ND(0.33)	0.0010		ND(8×10^{-6})	ND(8×10^{-6})
	2017/7/10	0.004	0.035	0.03 ^{*2}	ND(0.33)	0.0020		ND(6×10^{-6})	ND(6×10^{-6})
T-2	2017/9/4	0.0086	0.070	11 ^{*1}	ND(1.7)	0.0015	ND(2.3)		
	2017/9/11	0.0048	0.035	13 ^{*1}	ND(1.5)				
	2017/9/19	0.010	0.084	11 ^{*1}	ND(1.4)				
	2017/9/25	0.010	0.085	13 ^{*1}	ND(1.7)				

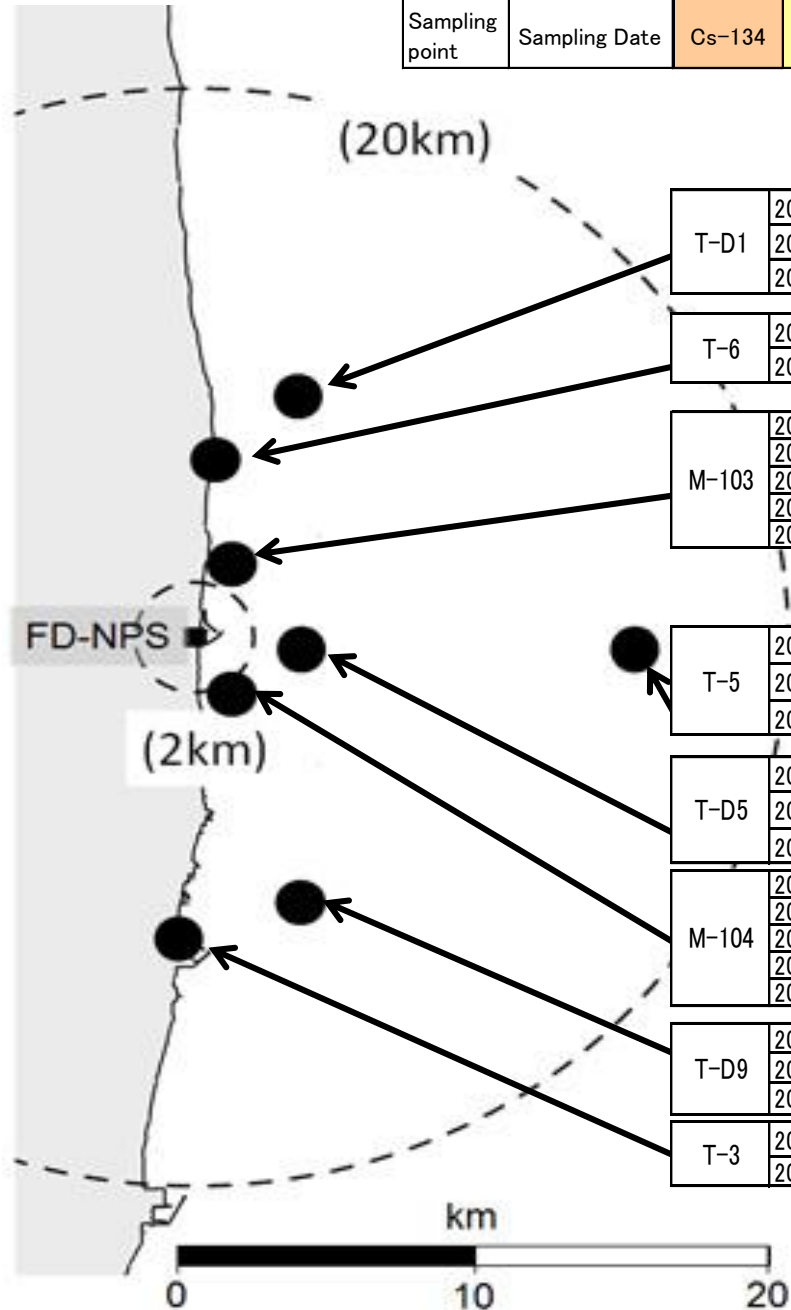
Most recent radioactivity data of sea area between 2-20km from the NPS (1)

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
											Depth(m) from sea level

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

Gross β * : including K-40



T-D1	2016/10/3	0.0018	0.012	ND(16)	ND(0.36)	ND(0.0068)	ND(1.6)	ND(5.5×10^{-6})	ND(5.2×10^{-6})	S
	2017/9/6	ND(0.0012)	0.0046	ND(18)	ND(0.35)	0.0026	ND(1.9)			S
	2017/9/22	0.0017	0.011	ND(17)	ND(0.32)					S
T-6	2017/9/5	0.0026	0.015	ND(15)	ND(0.36)					S
	2017/9/19	0.0070	0.068	ND(16)	ND(0.36)					S
M-103	2017/5/30	0.00084	0.0063		0.073	0.00092				0.5m
	2017/6/14	0.0013	0.010		0.10	0.0011				0.5m
	2017/7/12	0.0037	0.031		0.19					0.5m
	2017/8/2	0.00093	0.0077			0.0095				0.5m
	2017/9/7	0.0022	0.014							0.5m
T-5	2016/10/4	ND(0.0014)	0.0058	ND(15)	ND(0.33)	ND(0.0058)	ND(1.6)	ND(5.3×10^{-6})	ND(5.2×10^{-6})	S
	2017/9/5	ND(0.0014)	0.0026	ND(16)	ND(0.35)	0.0024				S
	2017/9/20	ND(0.0012)	0.0024	ND(17)	ND(0.36)					S
T-D5	2016/10/4	ND(0.0013)	0.0091	ND(16)	ND(0.36)	0.0098	ND(1.6)	ND(8.2×10^{-6})	ND(8.2×10^{-6})	S
	2017/9/6	0.0013	0.0079	ND(18)	ND(0.35)	0.0022	ND(1.9)			S
	2017/9/22	0.0015	0.011	ND(17)	ND(0.32)					S
M-104	2017/5/31	0.00086	0.0075		0.086	0.00066				0.5m
	2017/6/15	0.0016	0.014		0.12	0.0015				0.5m
	2017/7/13	0.0038	0.026		0.16					0.5m
	2017/8/1	0.0013	0.010		0.0010					0.5m
T-D9	2016/10/4	0.0015	0.0085	ND(15)	ND(0.33)	ND(0.0080)	ND(1.6)	ND(7.3×10^{-6})	ND(7.1×10^{-6})	S
	2017/9/5	ND(0.0013)	0.0064	ND(16)	ND(0.35)	0.0026	ND(1.9)			S
	2017/9/20	0.0036	0.030	ND(17)	ND(0.36)					S
T-3	2017/9/5	0.011	0.063	ND(17)	ND(0.32)					S
	2017/9/19	0.0076	0.042	ND(16)	ND(0.32)					S

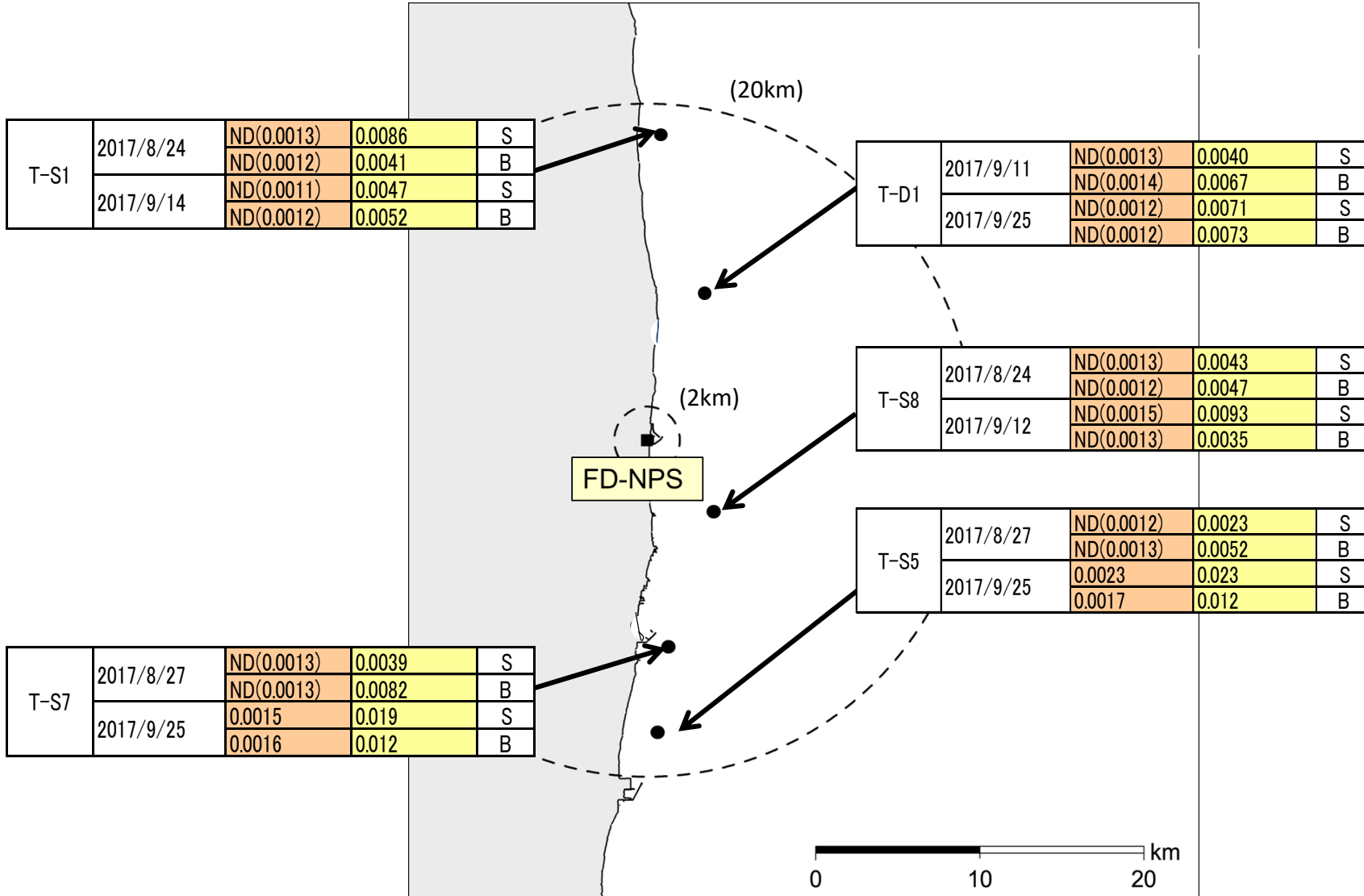
Most recent radioactivity data of sea area between 2-20km from the NPS(2)

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



Most recent radioactivity data of sea area between 20-100km from the NPS

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	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

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-C3	2017/8/14	0.00011	0.0021	0.030	0.053	0.00089	1m
		0.00011	0.0021				52m
		0.00013	0.0018				126m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
T-22	2017/7/26	ND(0.0013)	0.0048				S
		ND(0.0013)	0.0046				B
	2017/8/1	ND(0.0013)	0.0051				S
		ND(0.0013)	0.0037				B
	2017/9/21	ND(0.0014)	0.0076				S
		ND(0.0014)	0.0098				B

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-D3	2017/8/14	0.00013	0.0020	0.033	0.053		1m
		0.00013	0.0019				100m
		0.00010	0.0016				214m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
T-18	2017/7/6	ND(0.0012)	0.0031				S
		ND(0.0012)	0.0043				B
	2017/8/18	ND(0.0013)	0.0058				S
		ND(0.0012)	0.0048				B
	2017/9/30	ND(0.0012)	0.0032				S
		ND(0.0013)	0.0043				B

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
T-M10	2017/7/6	ND(0.0013)	0.0017				S
		ND(0.0011)	0.0021				B
	2017/8/18	ND(0.0013)	0.0038				S
		ND(0.0013)	0.0023				B
	2017/9/30	ND(0.0013)	0.0030				S
		ND(0.0012)	0.0024				B

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-E3	2017/8/16	0.00013	0.0021	0.034	0.054		1m
		0.00015	0.0020				100m
		0.000079	0.0015				222m

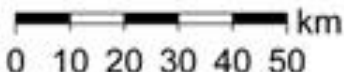
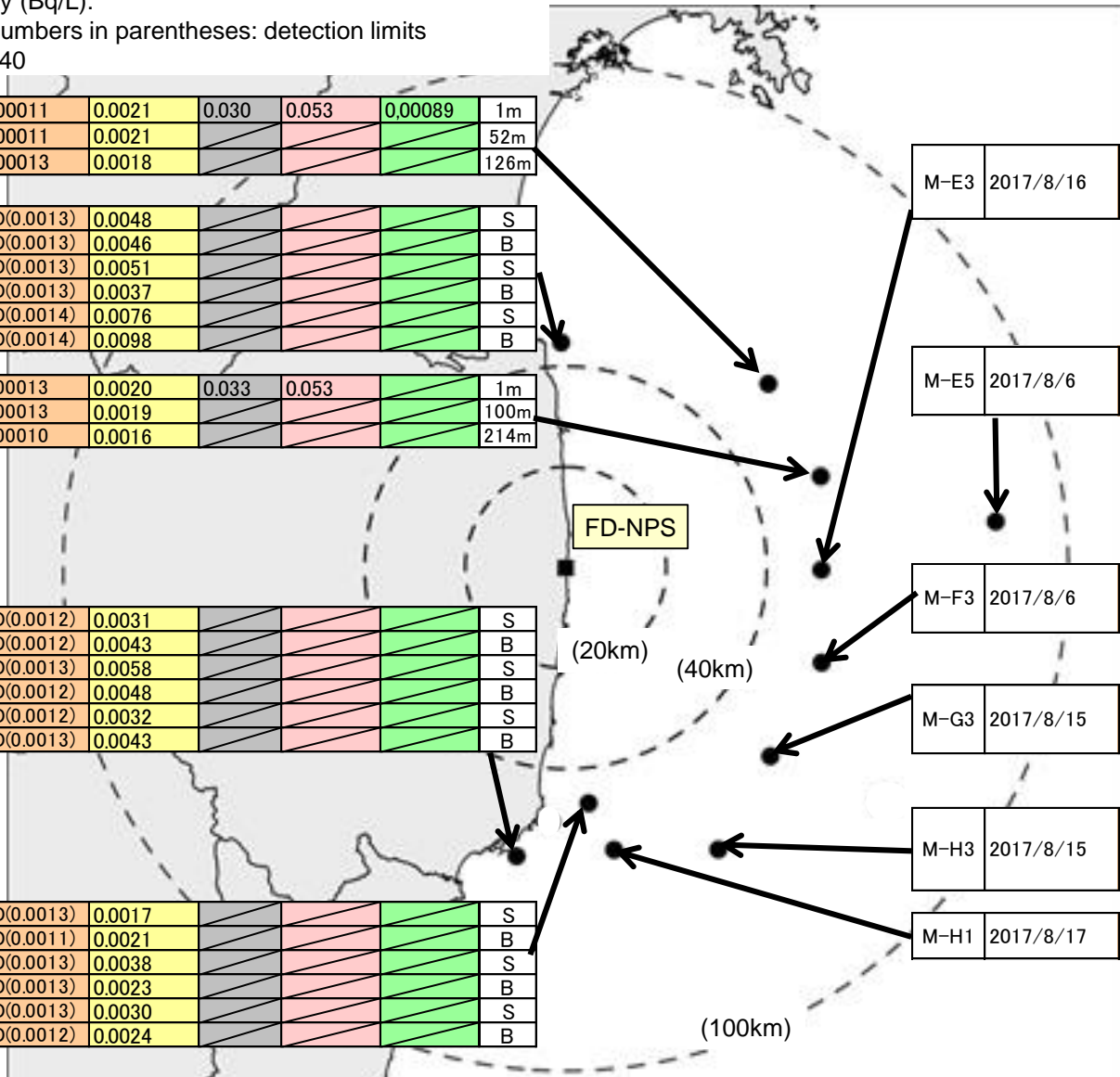
Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-E5	2017/8/6	ND(0.000088)	0.0017	0.032	0.056		1m
		0.00013	0.0022				100m
		ND(0.000042)	0.000058				514m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-F3	2017/8/6	ND(0.000098)	0.0018	0.033	0.065		1m
		0.00012	0.0017				100m
		0.000058	0.0013				224m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-G3	2017/8/15	ND(0.000097)	0.0016	0.030	0.062		1m
		0.00022	0.0024				100m
		ND(0.000067)	0.0014				195m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-H3	2017/8/15	0.00013	0.0018	0.030	0.047		1m
		0.00017	0.0024				100m
		0.000092	0.0017				214m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	Depth(m)
M-H1	2017/8/17	0.000080	0.0017				1m
		0.00011	0.0023				120m



Most recent radioactivity data of 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

T-MG1	2017/8/1	ND(0.0013)	0.0023		S
		ND(0.0017)	0.0023		B
	2017/9/7	ND(0.0014)	0.0030		S
		ND(0.0014)	0.0031		B

T-MG4	2017/8/3	ND(0.0013)	0.0024		S
		ND(0.0013)	0.0022		B
	2017/9/6	ND(0.0014)	0.0033		S
		ND(0.0012)	0.0026		B

T-MG5	2017/8/3	ND(0.0014)	0.0017		S
		ND(0.0015)	0.0019		B
	2017/9/6	ND(0.0014)	0.0028		S
		ND(0.0015)	0.0029		B

T-MG6	2017/8/3	ND(0.0015)	0.0033		S
		ND(0.0013)	0.0018		B
	2017/9/6	ND(0.0013)	0.0033		S
		ND(0.0015)	0.0089		B

M-B3	2017/8/5	0.00015	0.0019		1m
		0.00012	0.0018		50m
		0.000087	0.0019		107m

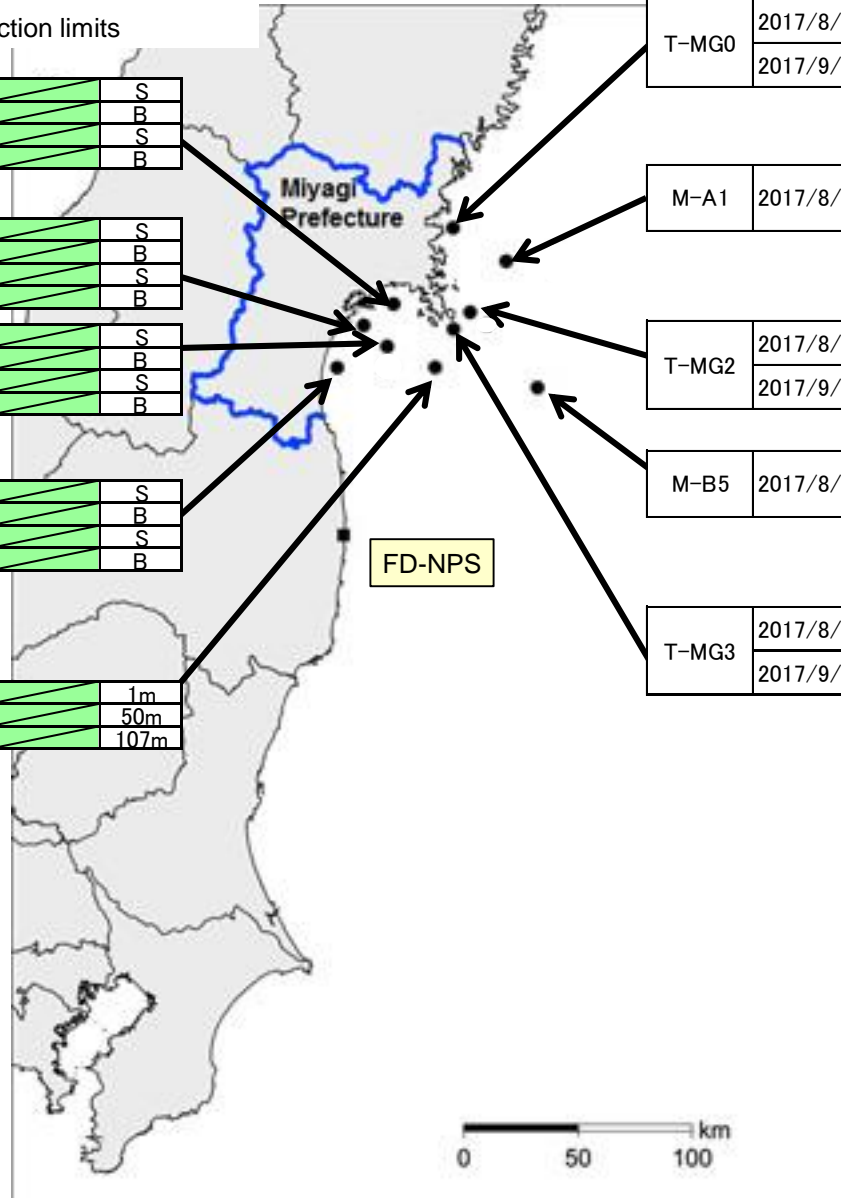
T-MG0	2017/8/1	ND(0.0015)	0.0019		S
		ND(0.0013)	0.0017		B
	2017/9/11	ND(0.0014)	0.0016		S
		ND(0.0014)	0.0017		B

M-A1	2017/8/4	0.000091	0.0019		1m
		0.000098	0.0021		100m
		0.000083	0.0016		196m

T-MG2	2017/8/1	ND(0.0013)	0.0019		S
		ND(0.0015)	0.0022		B
	2017/9/7	ND(0.0014)	0.0016		S
		ND(0.0014)	0.0020		B

M-B5	2017/8/5	0.00012	0.0018		1m
		0.000081	0.0016		100m
		ND(0.00057)	0.00092		344m

T-MG3	2017/8/1	ND(0.0013)	0.0019		S
		ND(0.0013)	0.0013		B
	2017/9/7	ND(0.0014)	0.0021		S
		ND(0.0013)	0.0015		B



Most recent radioactivity data of 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

T-Z	2017/8/7	ND(1.1)	ND(1.1)	S
		ND(0.92)	ND(1.2)	
	2017/9/14	ND(0.98)	ND(0.96)	S
		ND(0.90)	ND(1.2)	B

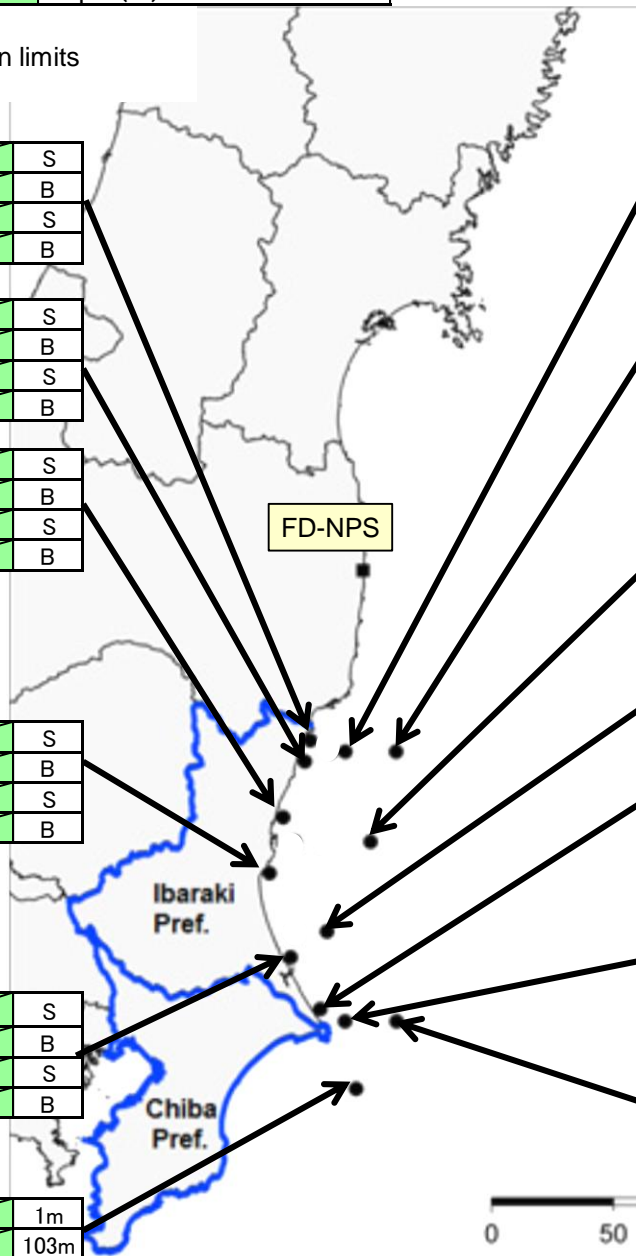
T-A	2017/8/7	ND(0.87)	ND(1.2)	S
		ND(0.92)	ND(1.1)	
	2017/9/14	ND(1.0)	ND(1.1)	S
		ND(0.86)	ND(1.1)	B

T-B	2017/8/10	ND(0.87)	ND(1.1)	S
		ND(0.80)	ND(1.2)	
	2017/9/20	ND(0.75)	ND(1.2)	S
		ND(0.86)	ND(1.1)	B

T-C	2017/8/7	ND(0.93)	ND(1.1)	S
		ND(0.99)	ND(1.1)	
	2017/9/13	ND(1.1)	ND(0.93)	S
		ND(1.0)	ND(1.1)	B

T-D	2017/8/10	ND(1.1)	ND(1.2)	S
		ND(0.66)	ND(1.3)	
	2017/9/20	ND(1.1)	ND(1.2)	S
		ND(0.93)	ND(1.1)	B

M-M1	2017/8/18	0.000070	0.0017	S	1m
		0.00010	0.0022	B	103m



M-I1	2017/8/17	0.00012	0.0018	S	1m	
		0.00013	0.0020		B	50m
		0.00015	0.0023		B	87m

M-I3	2017/8/17	0.00016	0.0020	S	1m	
		0.00012	0.0022		B	100m
		0.00013	0.0022		B	171m

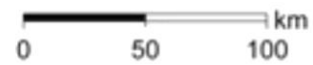
M-J3	2017/8/12	0.00011	0.0016	S	1m	
		0.00016	0.0021		B	100m
		ND(0.000043)	0.00057		B	556m

M-IB4	2017/8/11	ND(0.000075)	0.0018	S	1m
		0.00012	0.0021		B

T-E	2017/8/9	ND(0.93)	ND(1.1)	S
		ND(0.88)	ND(1.1)	
	2017/9/13	ND(0.93)	ND(1.2)	S
		ND(0.78)	ND(1.2)	B

M-L1	2017/8/18	0.00024	0.0033	S	1m
		0.00020	0.0025		B

M-L3	2017/8/18	0.00011	0.0016	S	1m	
		0.00015	0.0022		B	100m
		0.00012	0.0019		B	157m



Most recent radioactivity data of 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	2017/5/27	ND(0.00059)	0.0011	1m
		ND(0.00058)	0.0011	100m
		ND(0.00062)	0.00097	200m
		ND(0.00057)	0.00099	300m
		ND(0.00055)	0.00071	500m

M-14	2017/5/28	ND(0.00059)	0.0027	1m
		ND(0.00062)	0.0023	100m
		ND(0.00051)	0.0018	200m
		ND(0.00055)	0.0012	300m
		ND(0.00054)	0.00081	500m

M-19	2017/5/31	ND(0.00055)	0.0025	1m
		ND(0.00062)	0.0025	100m
		ND(0.00061)	0.0026	200m
		ND(0.00064)	0.0018	300m
		ND(0.00063)	0.00096	500m

M-20	2017/5/29	ND(0.00063)	0.0018	1m
		ND(0.00059)	0.0027	100m
		ND(0.00059)	0.0028	200m
		ND(0.00062)	0.0027	300m
		ND(0.00062)	0.0024	500m

M-25	2017/5/31	ND(0.00063)	0.0016	1m
		ND(0.00062)	0.0023	100m
		ND(0.00062)	0.0027	200m
		ND(0.00062)	0.0032	300m
		ND(0.00061)	0.0032	500m

M-11	2017/5/27	ND(0.00059)	0.0024	1m
		ND(0.00052)	0.0023	100m
		ND(0.00060)	0.0019	200m
		ND(0.00059)	0.0014	300m
		ND(0.00061)	0.00075	500m

M-15	2017/5/28	ND(0.00067)	0.0018	1m
		ND(0.00061)	0.0017	100m
		ND(0.00070)	0.0016	200m
		ND(0.00061)	0.0011	300m
		ND(0.00063)	0.0010	500m

M-21	2017/5/29	ND(0.00057)	0.0016	1m
		ND(0.00064)	0.0025	100m
		ND(0.00058)	0.0031	200m
		ND(0.00057)	0.0031	300m
		ND(0.00060)	0.0021	500m

M-26	2017/5/30	ND(0.00056)	0.0018	1m
		ND(0.00054)	0.0021	100m
		ND(0.00057)	0.0030	200m
		ND(0.00056)	0.0029	300m
		ND(0.00057)	0.0020	500m

M-27	2017/5/30	ND(0.00059)	0.0016	1m
		ND(0.00064)	0.0029	100m
		ND(0.00061)	0.0031	200m
		ND(0.00061)	0.0028	300m
		ND(0.00062)	0.0026	500m

