

Sea Area Monitoring

January 25, 2018

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

Fukushima
Daiichi-NPS

T-1	2017/10/31	0.040	0.30	12 ^{*1}	ND(1.6)				
	2017/11/6	0.049	0.39	13 ^{*1}	ND(1.7)	0.023	ND(2.3)		
	2017/11/13	0.021	0.16	10 ^{*1}	ND(1.7)				
	2017/11/20	0.014	0.11	13 ^{*1}	ND(1.5)				
M-101	2017/8/2	0.017	0.12		0.42	0.013			
	2017/9/7	0.0033	0.031		0.15	0.0015			
	2017/10/5	0.0010	0.0072						
F-P03	2017/7/10	0.016	0.12	0.05 ^{*2}	ND(0.34)	0.0050		ND(6×10^{-6})	ND(6×10^{-6})
	2017/8/18	0.009	0.067	0.03 ^{*2}	0.58	0.0085		ND(9×10^{-6})	ND(7×10^{-6})
	2017/9/14	ND(0.003)	0.008	0.02 ^{*2}	ND(0.34)	0.0011		ND(5×10^{-6})	ND(5×10^{-6})
F-P01	2017/7/10	0.004	0.035	0.03 ^{*2}	ND(0.33)	0.0020		ND(6×10^{-6})	ND(6×10^{-6})
	2017/8/18	ND(0.002)	0.011	0.02 ^{*2}	ND(0.34)	0.0023		ND(6×10^{-6})	ND(6×10^{-6})
	2017/9/14	0.002	0.017	0.02 ^{*2}	ND(0.34)	0.0009		ND(6×10^{-6})	ND(6×10^{-6})
T-2	2017/10/31	0.016	0.12	12 ^{*1}	ND(1.8)				
	2017/11/6	0.0049	0.040	12 ^{*1}	ND(1.9)	0.0019	ND(2.5)		
	2017/11/13	0.0043	0.036	8.8 ^{*1}	ND(1.7)				
	2017/11/20	0.0063	0.049	9.1 ^{*1}	ND(1.6)				

0 0.5 1km

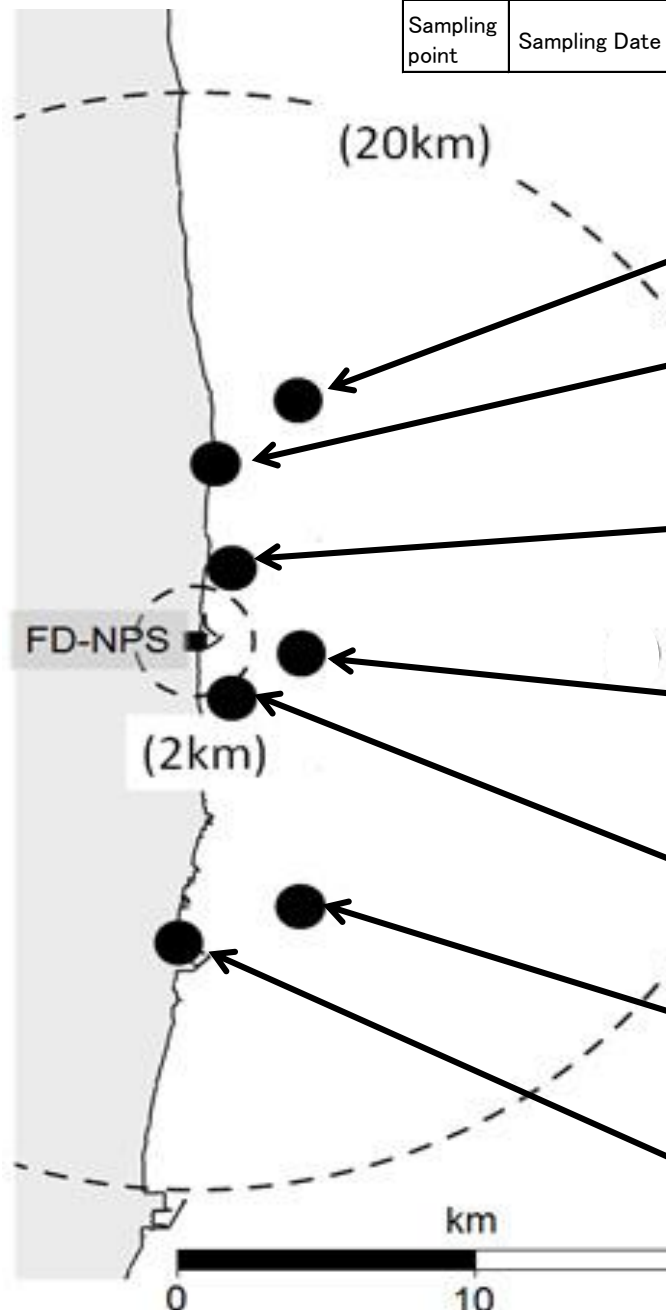
Most recent radioactivity data of sea area between 2-20km from the NPS (1)

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
	2017/10/19	ND(0.0010)	0.0062	ND(16)	ND(0.36)					S
	2017/11/7	0.0040	0.025	ND(17)	ND(0.36)	0.0015	ND(1.9)			S

T-6	2017/10/17	0.0036	0.025	ND(17)	ND(0.33)					S
	2017/11/7	0.0037	0.027	ND(17)	ND(0.31)					S

M-103	2017/8/2	0.00093	0.0077		0.14	0.00095				0.5m
	2017/9/7	0.0022	0.014		0.11	0.0010				0.5m
	2017/10/5	ND(0.00074)	0.0071							0.5m

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
	2017/10/19	ND(0.0013)	0.0045	ND(16)	ND(0.36)					S
	2017/11/7	0.0016	0.011	ND(17)	ND(0.36)	0.0018	ND(1.9)			S

M-104	2017/8/1	0.0013	0.010		0.17	0.0010				0.5m
	2017/9/6	0.00082	0.0073		0.13	0.0011				0.5m
	2017/10/4	0.00083	0.0084							0.5m

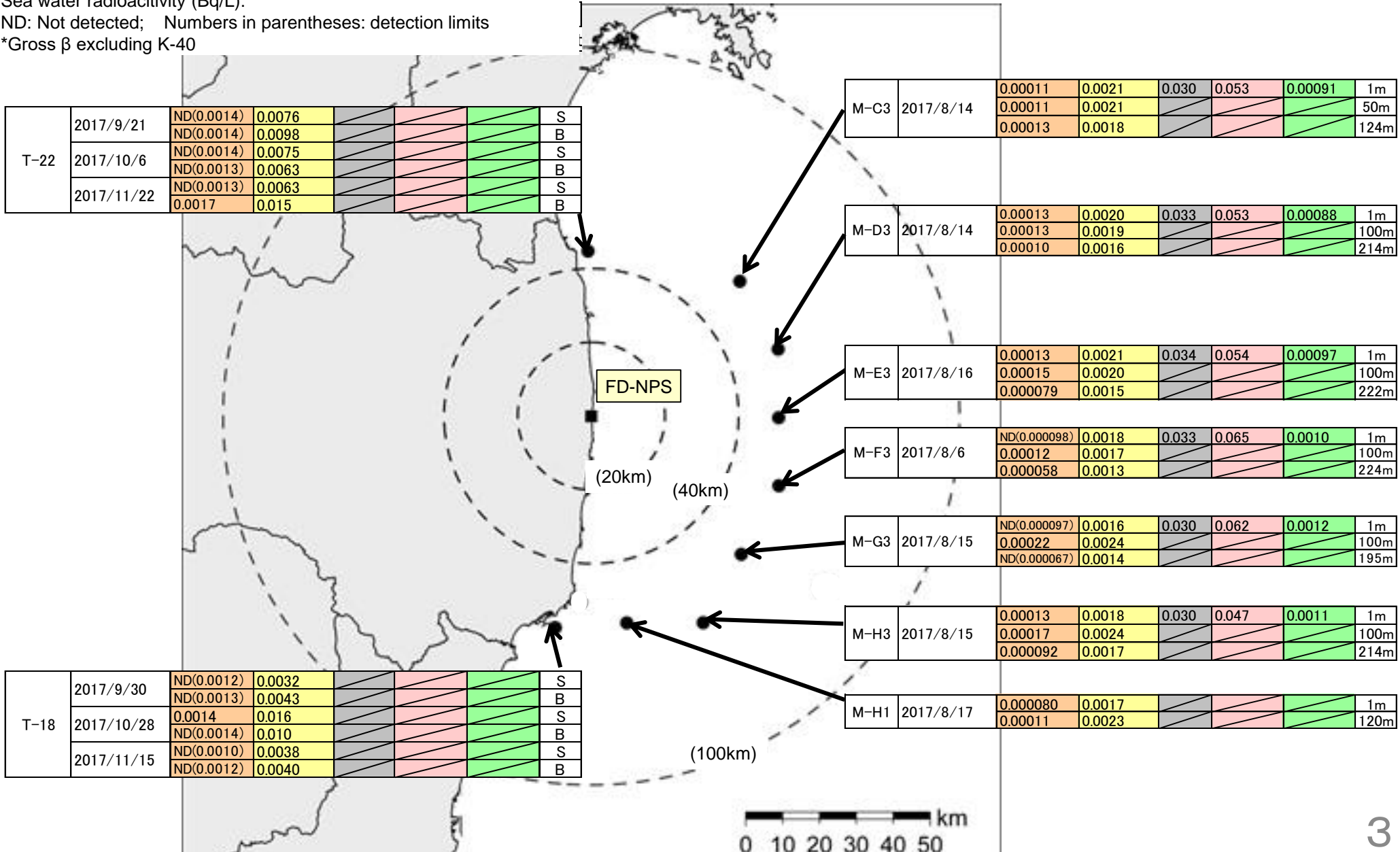
T-D9	2016/10/4	0.0015	0.0085	ND(15)	ND(0.33)	ND(0.0080)	ND(1.6)	ND(7.3×10^{-6})	ND(7.1×10^{-6})	S
	2017/10/17	ND(0.0011)	0.0051	ND(17)	ND(0.37)					S
	2017/11/6	0.0016	0.012	ND(17)	ND(0.37)	0.0013	ND(2.3)			S

T-3	2017/10/17	0.0038	0.036	ND(15)	ND(0.31)					S
	2017/11/7	0.0029	0.030	ND(16)	ND(0.30)					S

Most recent radioactivity data of sea area between 40-100km 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	S/B
		ND(0.0014)	0.0076				S
T-22	2017/9/21	ND(0.0014)	0.0098				B
		ND(0.0014)	0.0075				S
	2017/10/6	ND(0.0013)	0.0063				B
		ND(0.0013)	0.0063				S
	2017/11/22	0.0017	0.015				B

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	S/B
		0.00011	0.0021	0.030	0.053	0.00091	1m
M-C3	2017/8/14	0.00011	0.0021				50m
		0.00013	0.0018				124m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	S/B
		0.00013	0.0020	0.033	0.053	0.00088	1m
M-D3	2017/8/14	0.00013	0.0019				100m
		0.00010	0.0016				214m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	S/B
		0.00013	0.0021	0.034	0.054	0.00097	1m
M-E3	2017/8/16	0.00015	0.0020				100m
		0.000079	0.0015				222m

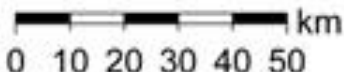
Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	S/B
		ND(0.000098)	0.0018	0.033	0.065	0.0010	1m
M-F3	2017/8/6	0.00012	0.0017				100m
		0.000058	0.0013				224m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	S/B
		ND(0.000097)	0.0016	0.030	0.062	0.0012	1m
M-G3	2017/8/15	0.00022	0.0024				100m
		ND(0.000067)	0.0014				195m

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	S/B
		0.00013	0.0018	0.030	0.047	0.0011	1m
M-H3	2017/8/15	0.00017	0.0024				100m
		0.000092	0.0017				214m

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

Sampling point	Sampling Date	Cs-134	Cs-137	Grossβ *	H-3	Sr-90	S/B
		ND(0.0012)	0.0032				S
T-18	2017/9/30	ND(0.0013)	0.0043				B
		0.0014	0.016				S
	2017/10/28	ND(0.0014)	0.010				B
		ND(0.0010)	0.0038				S
	2017/11/15	ND(0.0012)	0.0040				B

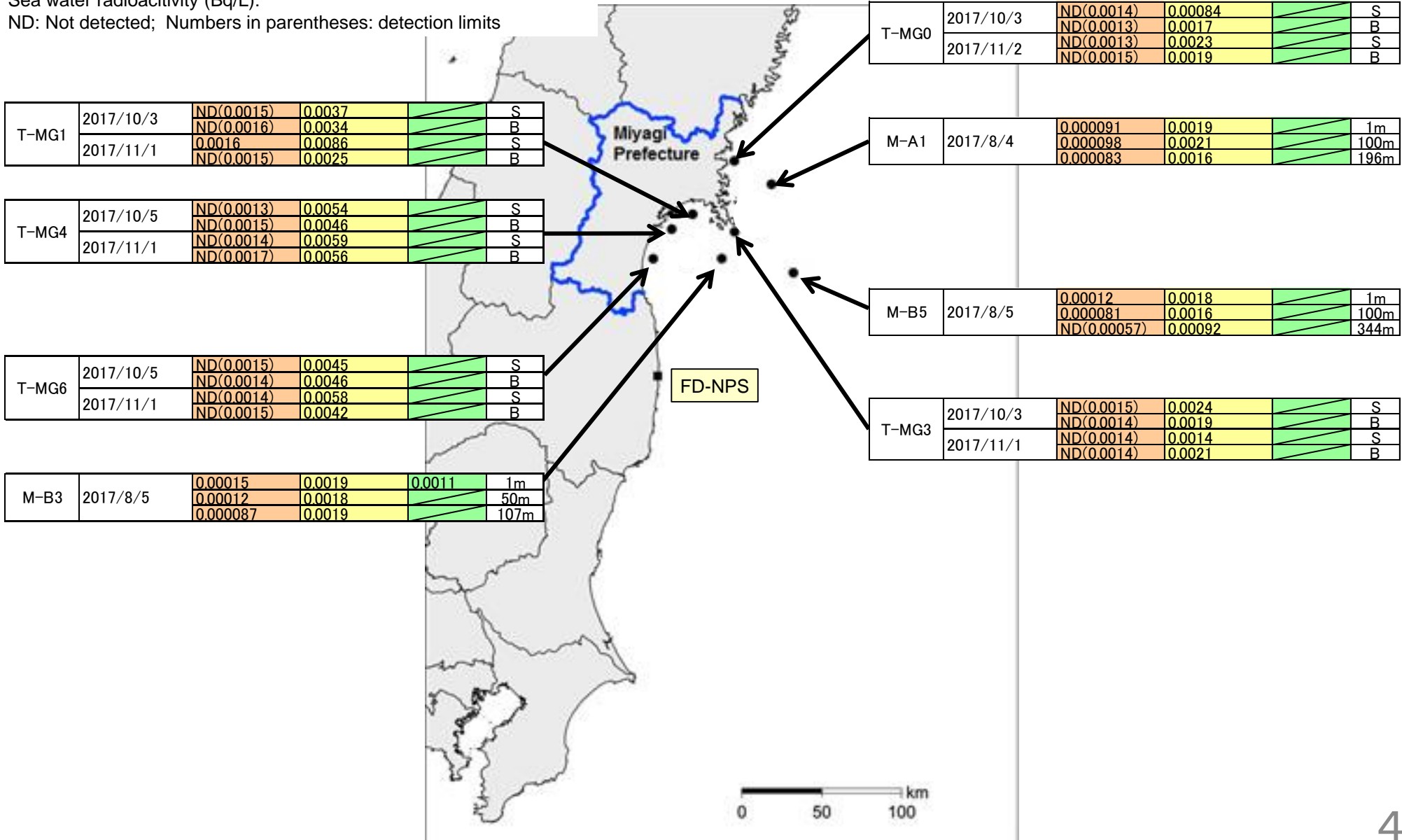


Most recent radioactivity data of sea area along and off the coast of Miyagi Prefecture

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

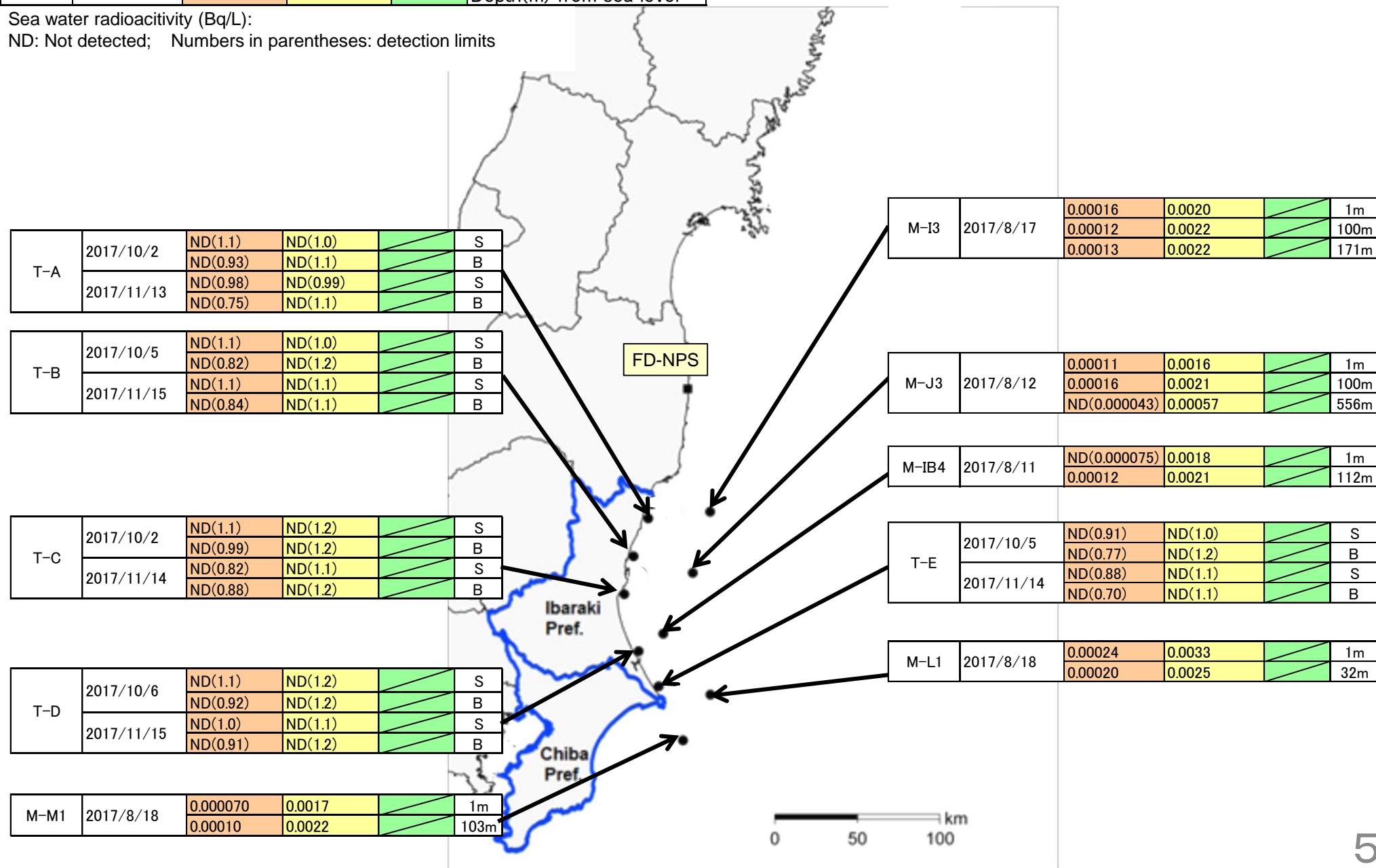


Most recent radioactivity data of sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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



Most recent radioactivity data of open sea off the coast of Eastern Japan

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

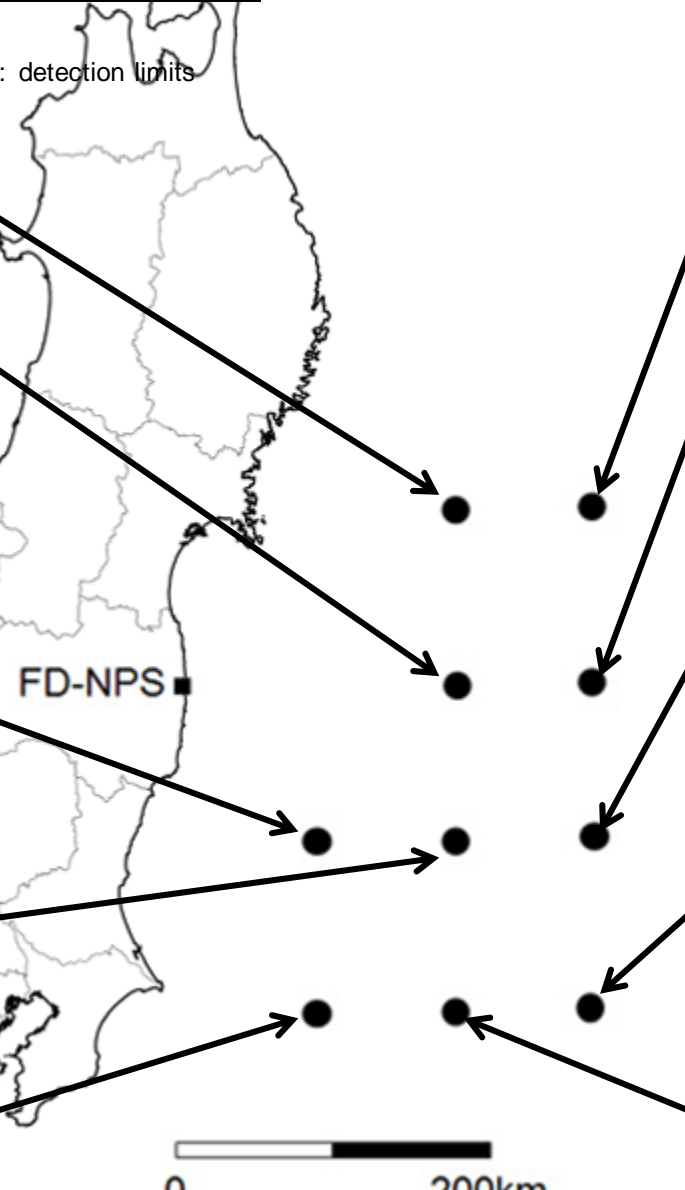
2017/5/27	ND(0.00059)	0.0011	1m
	ND(0.00058)	0.0011	100m
	ND(0.00062)	0.00097	200m
	ND(0.00057)	0.00099	300m
	ND(0.00055)	0.00071	500m

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

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

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

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-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

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

0 200km