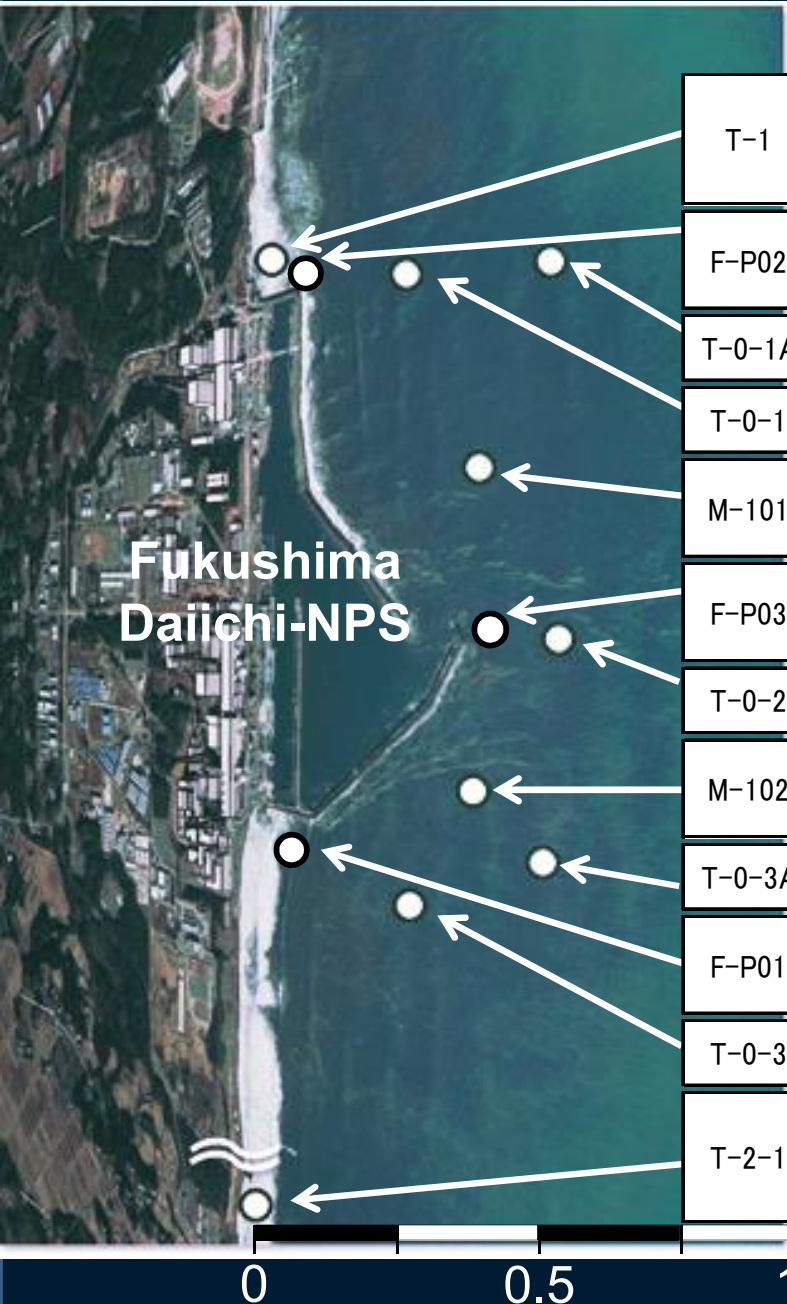


Sea Area Monitoring

December 01, 2015

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS



Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+240
T-1	2015/11/16	ND(0.73)	ND(0.64)	15 ^{*1}	In progress				
	2015/11/9	ND(0.91)	ND(0.66)	13 ^{*1}	ND(1.5)				
	2015/9/7	ND(0.70)	0.86	10 ^{*1}	2.0	0.028	ND(1.9)		
	2015/4/8	ND(0.55)	ND(0.64)					ND(5.5×10^{-6})	ND(6.1×10^{-6})
F-P02	2015/9/14	0.10	0.47	0.03 ^{*2}	ND(0.41)	In progress		In progress	In progress
	2015/8/17	ND(0.088)	0.118	0.05 ^{*2}	ND(0.44)	0.10		In progress	In progress
	2015/3/3	ND(0.072)	0.094	0.06 ^{*2}	ND(0.43)	0.041		ND(7×10^{-6})	1.1×10^{-5}
T-0-1A	2015/11/16	ND(0.67)	ND(0.68)	ND(17) ^{*1}	In progress				
	2015/11/9	ND(0.67)	ND(0.69)	ND(17) ^{*1}	ND(1.6)				
T-0-1	2015/11/16	ND(0.71)	ND(0.64)	ND(17) ^{*1}	In progress				
	2015/11/9	ND(0.66)	ND(0.53)	ND(17) ^{*1}	ND(1.6)				
M-101	2015/9/2	0.14	0.60		1.9	In progress			
	2015/8/5	0.0074	0.030		0.13	In progress			
	2015/7/8	0.0058	0.024		0.12	0.0096			
F-P03	2015/9/14	ND(0.051)	0.087	0.03 ^{*2}	ND(0.40)	In progress		In progress	In progress
	2015/8/17	0.128	0.480	0.19 ^{*2}	1.1	0.46		In progress	In progress
	2015/3/3	0.079	0.23	0.14 ^{*2}	1.4	0.23		ND(6×10^{-6})	ND(8×10^{-6})
T-0-2	2015/11/16	ND(0.65)	ND(0.58)	ND(17) ^{*1}	In progress				
	2015/11/9	ND(0.63)	ND(0.64)	ND(17) ^{*1}	ND(1.6)				
M-102	2015/9/3	0.0054	0.022		0.077	In progress			
	2015/8/6	0.0072	0.032		0.14	In progress			
	2015/7/9	0.015	0.060		0.16	0.023			
T-0-3A	2015/11/16	ND(0.72)	ND(0.62)	ND(17) ^{*1}	In progress				
	2015/11/9	ND(0.64)	ND(0.81)	ND(17) ^{*1}	ND(1.6)				
F-P01	2015/9/14	ND(0.053)	0.15	0.05 ^{*2}	0.55	In progress		In progress	In progress
	2015/8/17	ND(0.071)	0.115	0.04 ^{*2}	ND(0.42)	0.037		In progress	In progress
	2015/3/3	ND(0.068)	0.075	0.04 ^{*2}	ND(0.43)	0.004		ND(6×10^{-6})	ND(6×10^{-6})
T-0-3	2015/11/16	ND(0.68)	ND(0.73)	ND(17) ^{*1}	In progress				
	2015/11/9	ND(0.71)	ND(0.61)	ND(17) ^{*1}	ND(1.6)				
T-2-1	2015/11/16	ND(0.85)	1.0	11 ^{*1}	In progress				
	2015/11/12	ND(0.75)	ND(0.75)	14 ^{*1}	ND(1.7)				
	2015/9/7	ND(0.62)	ND(0.65)	11 ^{*1}	ND(1.4)	0.026	ND(1.9)		
	2015/4/8	ND(0.66)	ND(0.60)	8.9 ^{*1}				ND(6.9×10^{-6})	(9.7 ± 2.4) $\times 10^{-6}$

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

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

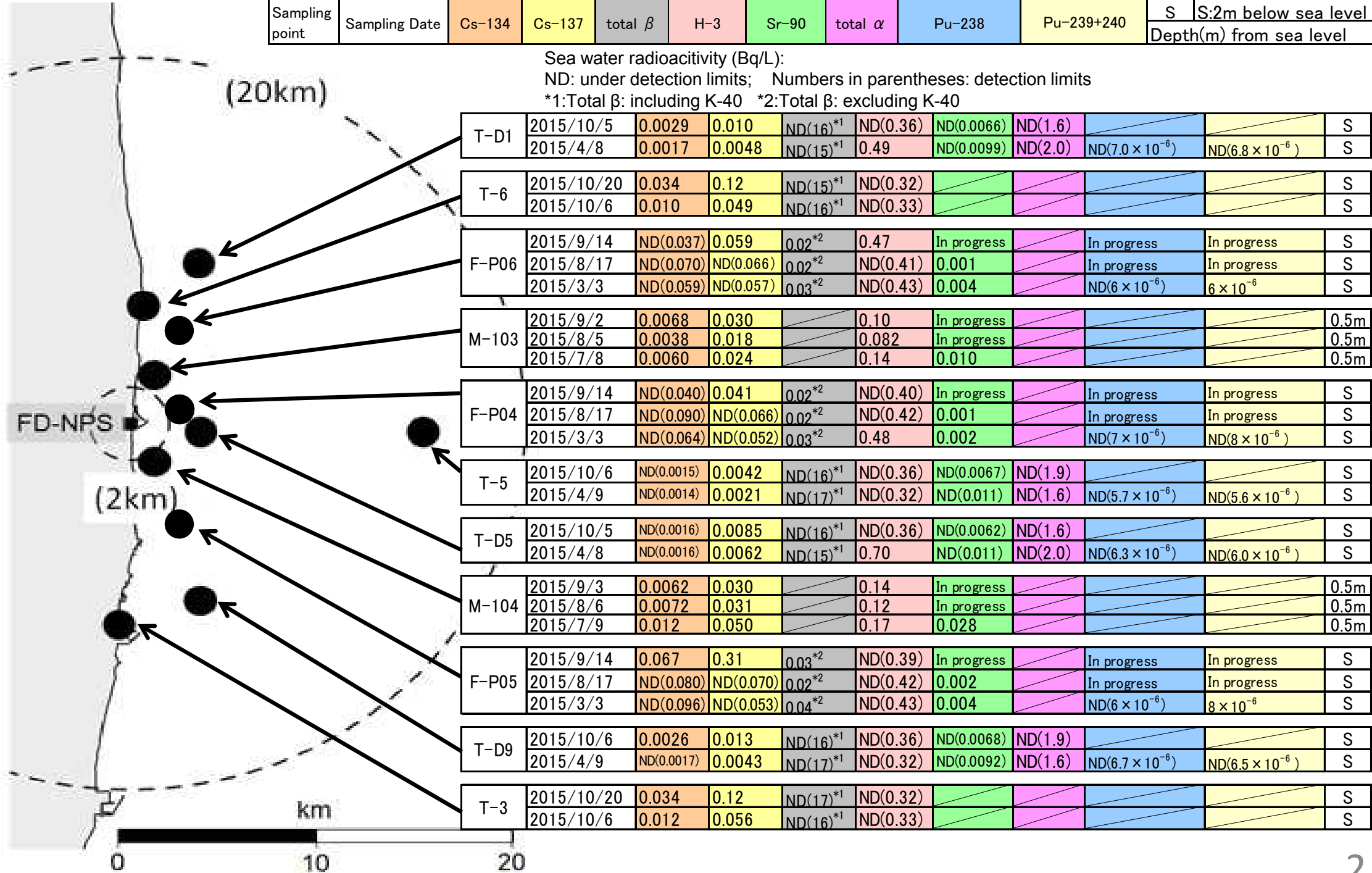
Sea area between 2-20km radius from the NPS (1)

Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+240	S	S:2m below sea level
											Depth(m) from sea level

Sea water radioactivity (Bq/L):

ND: under detection limits; Numbers in parentheses: detection limits

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



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

Sampling point	Sampling Date	Cs-134	Cs-137	S/B	S:2m below sea level B:2-3m above sea bottom
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Sea water radioactivity (Bq/L):
 ND: under detection limits; Numbers in parentheses: detection limits

T-S1	2015/10/20	0.0060	0.029	S
		0.0045	0.020	B

T-14	2015/10/13	0.0051	0.022	S
		0.0036	0.018	B

T-D1	2015/10/13	0.0076	0.034	S
		0.0097	0.040	B

T-6	2015/10/20	0.034	0.12	S
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T-S8	2015/10/18	0.0065	0.028	S
		0.0025	0.014	B

T-3	2015/10/20	0.034	0.12	S
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T-S7	2015/10/15	0.0027	0.012	S
		0.0042	0.020	B

T-S5	2015/10/15	0.0031	0.016	S
		0.0036	0.015	B

T-S3	2015/9/17	0.015	0.059	S
		0.0014	0.0060	B

T-S4	2015/9/17	0.013	0.054	S
		0.0026	0.011	B

T-D5	2015/10/13	0.0054	0.020	S
		0.0035	0.015	B

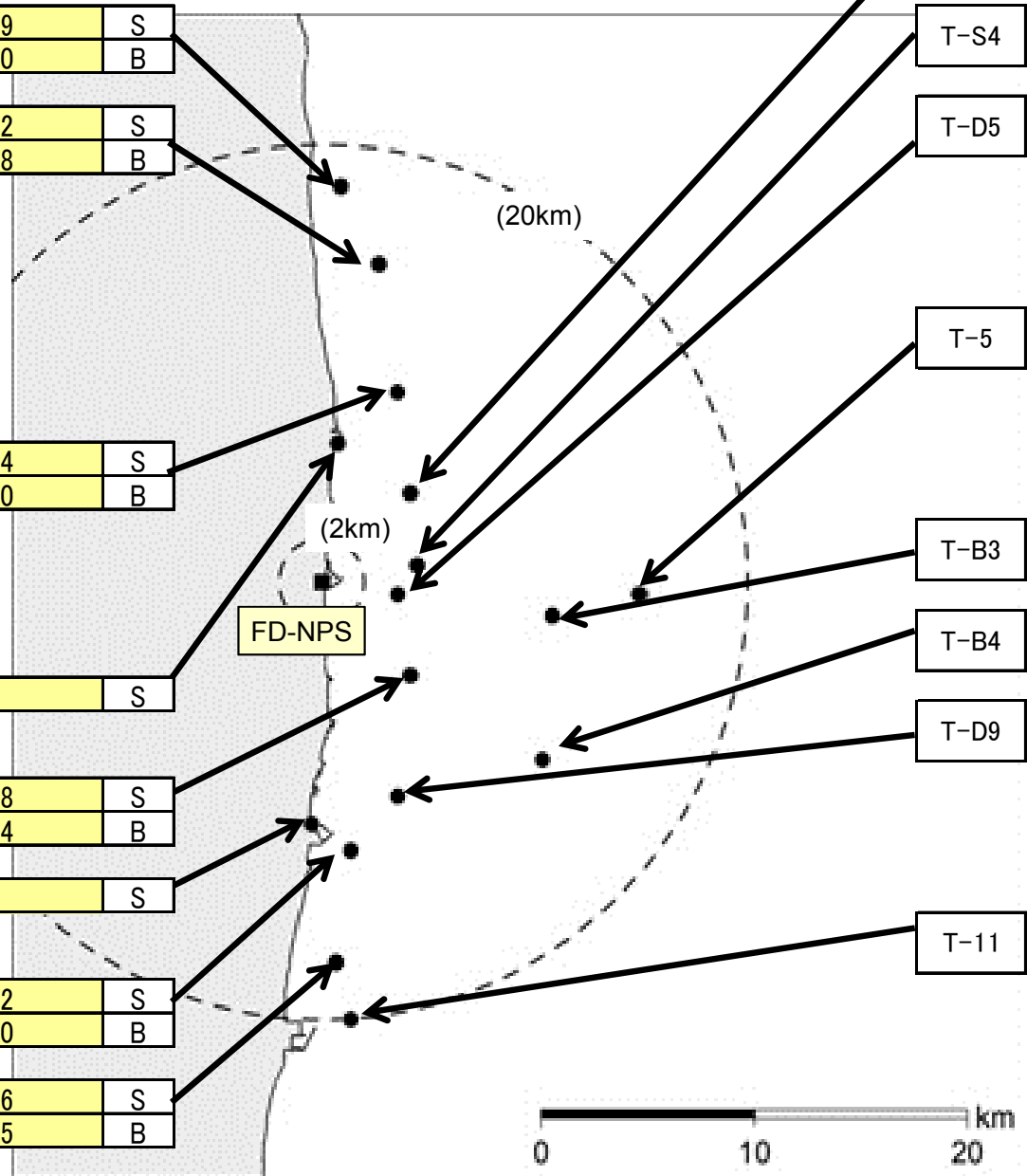
T-5	2015/10/14	ND(0.0017)	0.0051	S
		ND(0.0017)	0.0035	B

T-B3	2015/10/20	ND(0.0014)	0.0058	S
		ND(0.0014)	0.0026	B

T-B4	2015/10/20	ND(0.0014)	0.0031	S
		ND(0.0012)	0.0028	B

T-D9	2015/10/14	0.0023	0.010	S
		0.0014	0.0061	B

T-11	2015/10/14	0.0040	0.018	S
		0.0014	0.0069	B



Sea area between 20-100km radius 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: under detection limits; Numbers in parentheses: detection limits

T-MA	2015/10/14	0.0024 ND(0.0014)	0.012 0.0060		S B
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T-13-1	2015/10/14	0.0050 0.0042	0.024 0.020		S B
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T-7	2015/9/25	ND(0.0012) ND(0.0013)	0.0023 0.0036		S B
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T-4	2015/10/20	0.025	0.093		S
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T-12	2015/10/15	0.0016 0.0019	0.0082 0.0063		S B
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T-17-1	2015/10/15	0.0023 0.0015	0.0091 0.0070		S B
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M-C1	2015/8/9	0.00031 0.00050	0.0028 0.0026		1m 44m
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T-B1	2015/10/23	0.0015 0.0021	0.0074 0.013		S B
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M-D1	2015/8/9	0.00028 0.00016 0.00033	0.0024 0.0018 0.0028	0.0016 	1m 50m 113m
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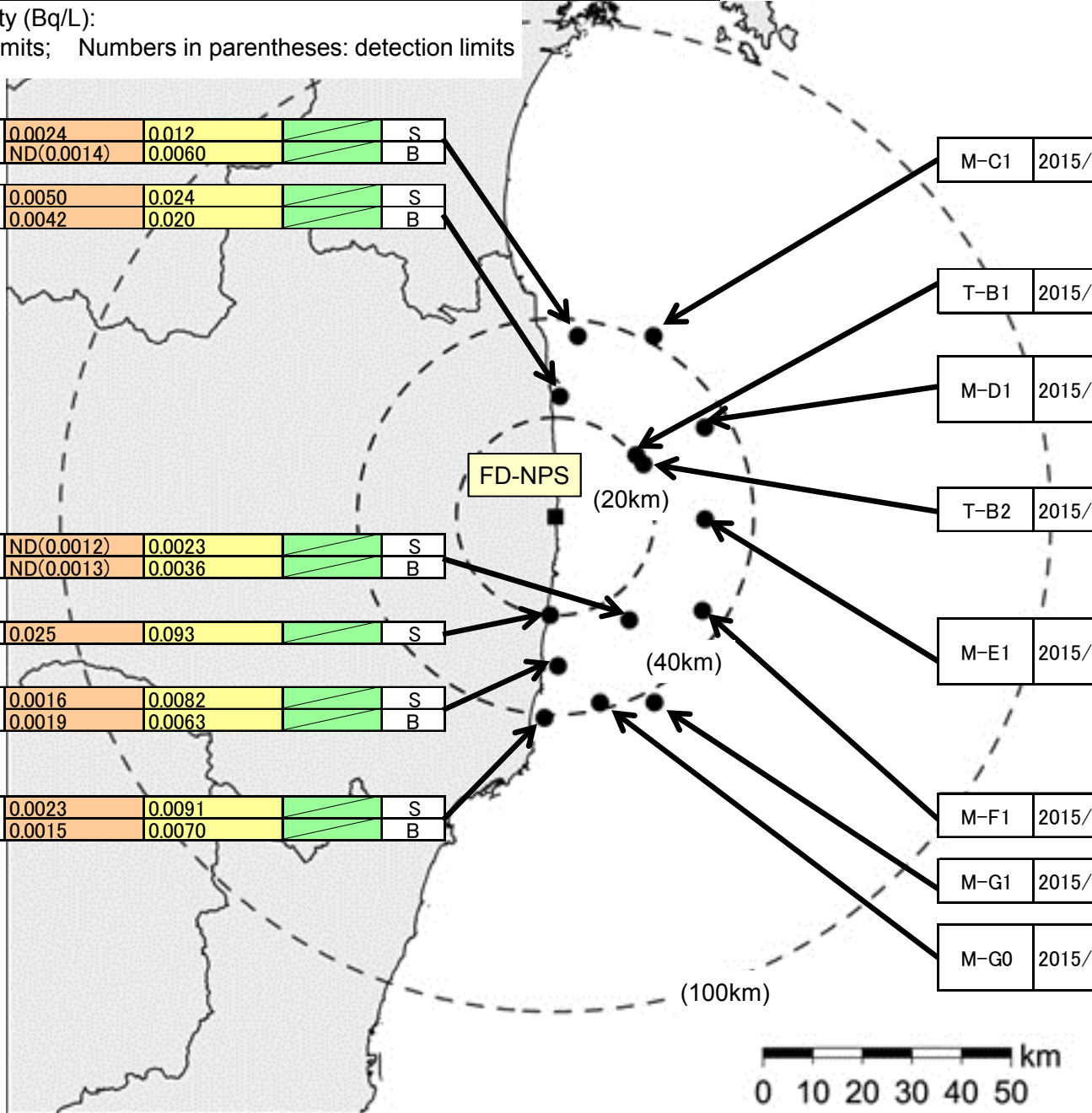
T-B2	2015/10/23	0.0020 ND(0.0014)	0.0089 0.0038		S B
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M-E1	2015/8/9	0.00035 0.00018 0.00049	0.0023 0.0021 0.0030	0.0014 	1m 50m 123m
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M-F1	2015/8/6	0.00022 0.00029	0.0020 0.0024		1m 130m
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M-G1	2015/8/6	0.00019 0.00029	0.0020 0.0024		1m 128m
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M-G0	2015/8/6	0.00021 0.00015 0.00040	0.0020 0.0018 0.0028		1m 50m 95m
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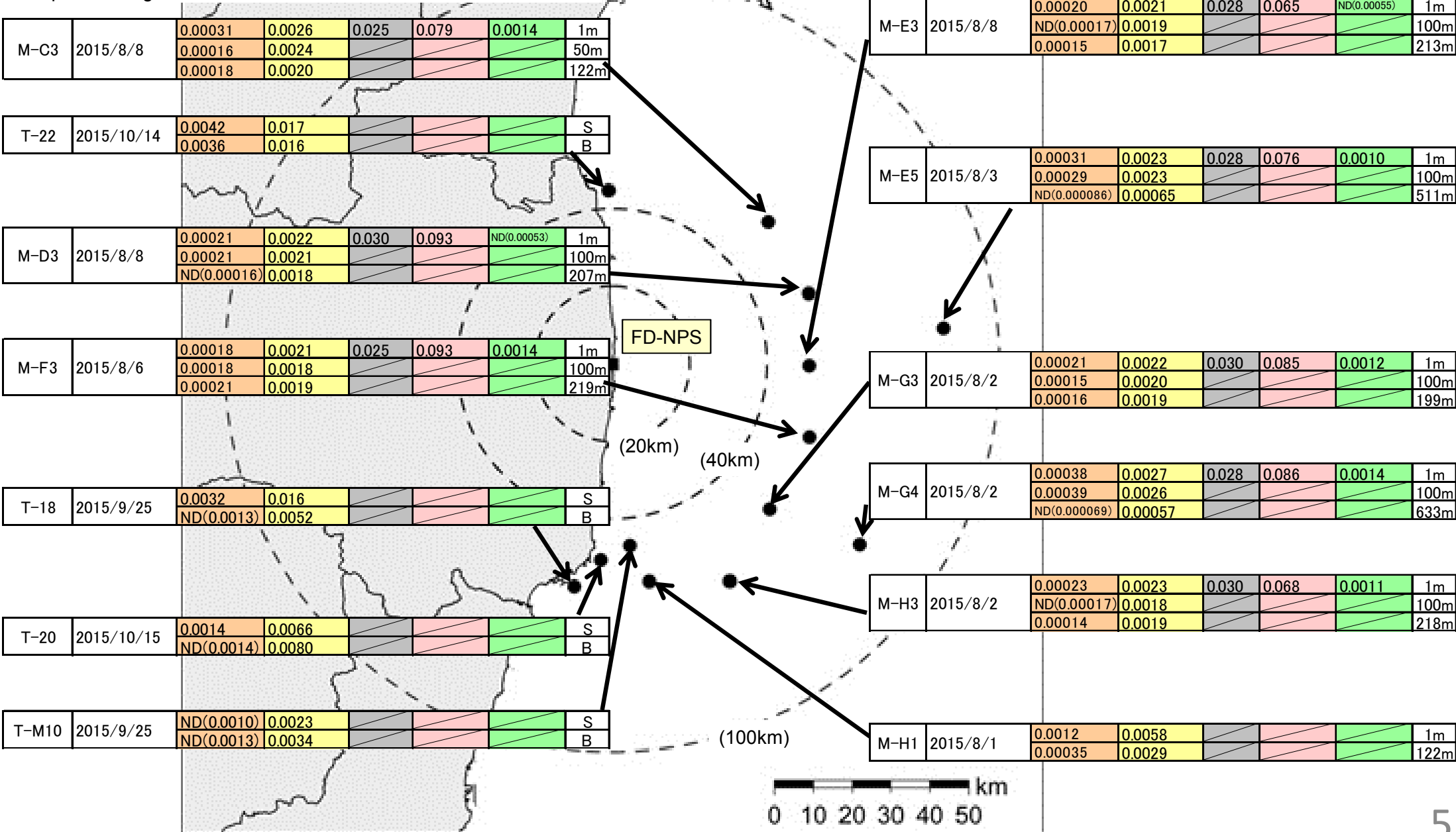
Sea area between 20-100km radius from the NPS(2)

Sampling point	Sampling Date	Cs-134	Cs-137	Total 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: under detection limits; Numbers in parentheses: detection limits

*Total β: excluding K-40

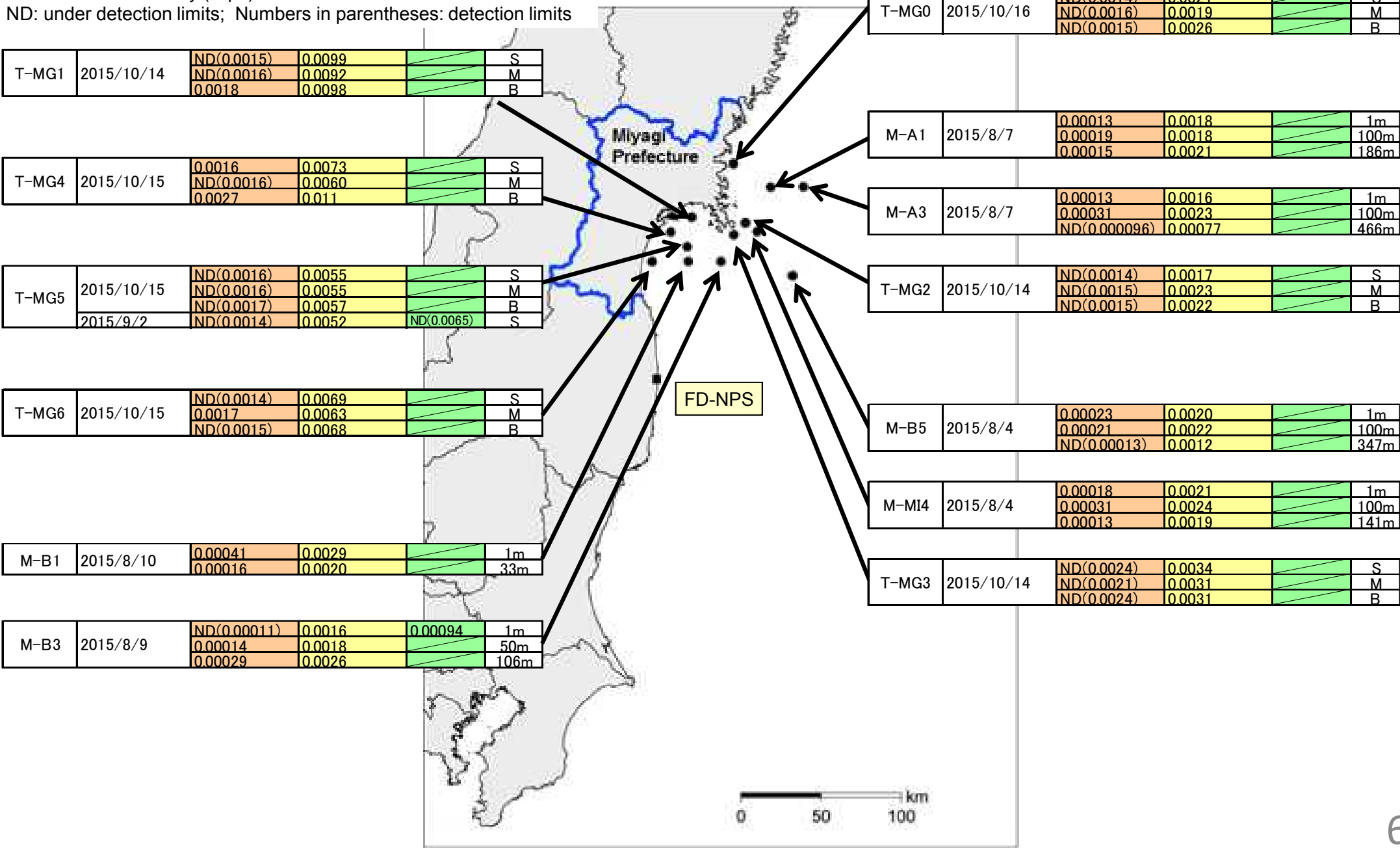


Sea area along and off the coast of Miyagi Prefecture

Sampling point	Sampling Date	Cs-134	Cs-137	Sr-90	S/M/B
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S:2m below sea level
M:between 2m below sea level and 2-3m above sea bottom
B:2-3m above sea bottom

Sea water radioactivity (Bq/L):
ND: under detection limits; 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: under detection limits; Numbers in parentheses: detection limits

T-Z	2015/10/6	ND(1.0)	ND(0.96)	/	S
		ND(0.98)	ND(1.2)		B

T-A	2015/10/6	ND(1.0)	ND(1.1)	/	S
		ND(0.88)	ND(1.1)		B

T-B	2015/10/20	ND(1.0)	ND(1.2)	/	S
		ND(1.0)	ND(1.1)		B

M-J1	2015/7/30	0.00058	0.0035	0.0011	1m
		0.0010	0.0051	/	37m

T-C	2015/10/6	ND(1.0)	ND(1.1)	/	S
		ND(0.91)	ND(1.2)		B
	2015/9/16	ND(0.99)	ND(1.0)	ND(0.0083)	S

M-K1	2015/7/30	0.00035	0.0028	/	1m
		0.00028	0.0022		20m

T-D	2015/10/20	ND(1.1)	ND(1.1)	/	S
		ND(1.0)	ND(1.1)		B

M-M1	2015/7/29	0.00023	0.0020	/	1m
		0.00039	0.0026		103m

M-I0	2015/7/31	0.00037	0.0025	0.0011	1m
		0.00040	0.0031	/	61m

M-I1	2015/8/1	0.00046	0.0031	/	1m
		ND(0.00013)	0.0018		/
		0.00033	0.0025	/	88m

M-I3	2015/8/1	0.00033	0.0025	/	1m	
		0.00028	0.0023		/	100m
		0.00031	0.0023		/	173m

M-IB2	2015/7/31	0.00089	0.0045	/	1m
		0.00052	0.0030		/

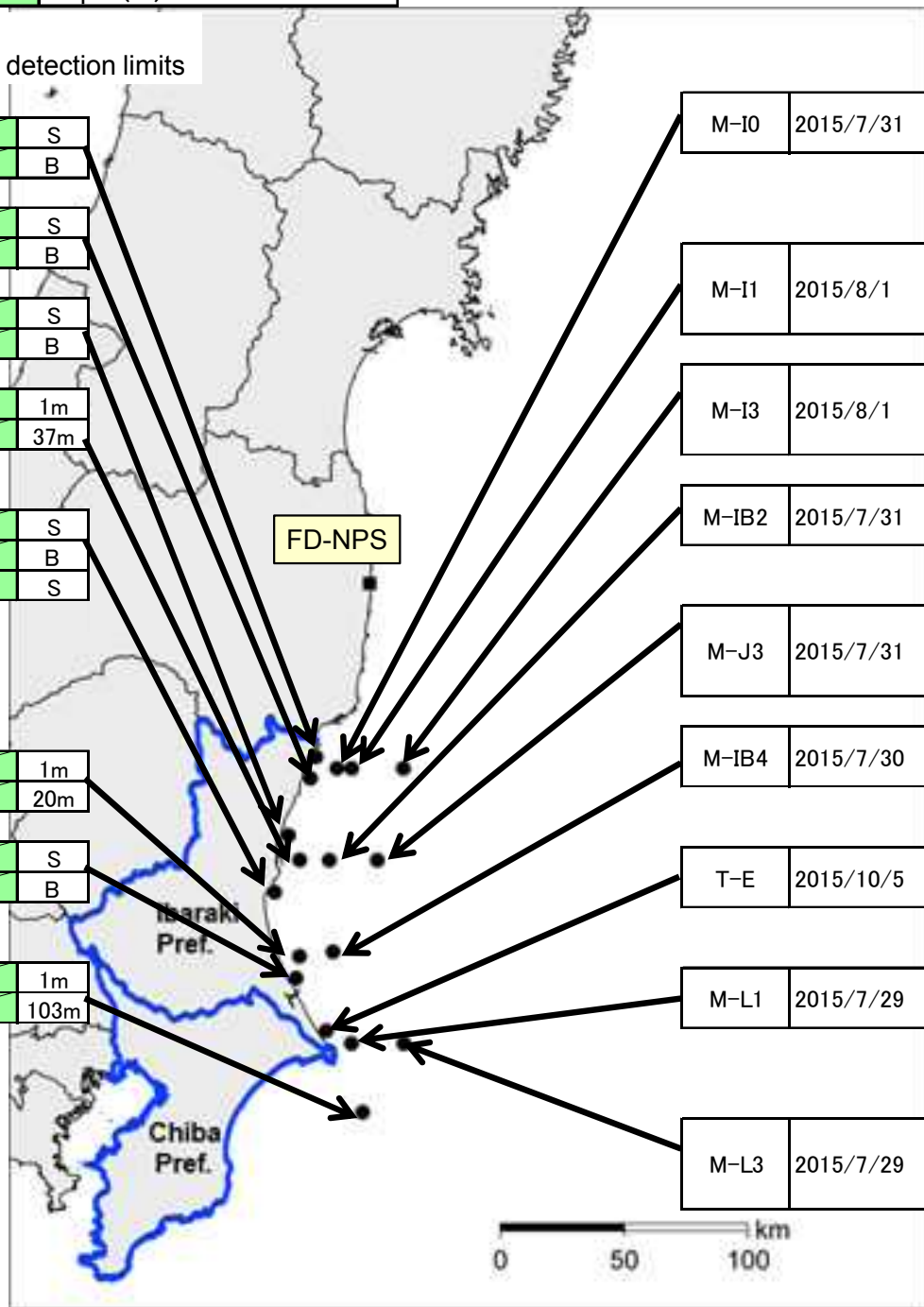
M-J3	2015/7/31	0.00040	0.0030	/	1m	
		0.00029	0.0024		/	100m
		ND(0.000067)	0.00061		/	550m

M-IB4	2015/7/30	0.00034	0.0028	/	1m
		0.00026	0.0024		/

T-E	2015/10/5	ND(0.96)	ND(1.1)	/	S
		ND(0.91)	ND(1.2)		B

M-L1	2015/7/29	0.00042	0.0031	/	1m
		0.00061	0.0032		/

M-L3	2015/7/29	0.00041	0.0030	/	1m	
		0.00028	0.0025		/	100m
		0.00018	0.0022		/	159m



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: under detection limits; Numbers in parentheses: detection limits

M-10	2015/5/26	ND(0.00082)	0.0024	1m
		ND(0.00075)	0.0031	101m
		ND(0.00068)	0.0018	201m
		ND(0.00078)	0.0017	301m
		ND(0.00078)	0.00089	500m

M-11	2015/5/26	ND(0.00069)	0.0030	1m
		ND(0.00063)	0.0029	101m
		ND(0.00062)	0.0024	201m
		ND(0.00070)	0.0018	301m
		ND(0.00068)	0.0015	502m

M-14	2015/5/27	ND(0.00064)	0.0028	1m
		ND(0.00054)	0.0018	102m
		ND(0.00060)	0.0015	200m
		ND(0.00053)	0.0011	303m
		ND(0.00060)	0.00086	502m

M-15	2015/5/27	ND(0.00068)	0.0026	1m
		ND(0.00061)	0.0022	100m
		ND(0.00061)	0.0016	201m
		ND(0.00062)	0.0016	300m
		ND(0.00059)	0.00073	501m

M-19	2015/5/29	ND(0.00058)	0.0026	1m
		ND(0.00057)	0.0022	102m
		ND(0.00056)	0.0015	201m
		ND(0.00055)	0.0016	300m
		ND(0.00056)	0.00071	502m

M-21	2015/5/31	ND(0.00057)	0.0016	1m
		ND(0.00061)	0.0023	102m
		0.00061	0.0039	200m
		ND(0.00052)	0.0023	300m
		ND(0.00062)	0.00087	500m

M-20	2015/5/31	ND(0.00065)	0.0017	1m
		0.00065	0.0031	100m
		ND(0.00068)	0.0031	200m
		ND(0.00059)	0.0018	305m
		ND(0.00061)	0.0013	499m

M-26	2015/5/28	ND(0.00060)	0.0024	1m
		ND(0.00056)	0.0029	100m
		ND(0.00066)	0.0034	202m
		ND(0.00066)	0.0040	301m
		ND(0.00061)	0.0027	500m

M-25	2015/6/1	ND(0.00073)	0.0015	1m
		ND(0.00077)	0.0031	100m
		ND(0.00069)	0.0030	201m
		0.00081	0.0056	301m
		0.00067	0.0024	500m

M-27	2015/5/28	ND(0.00060)	0.0026	1m
		ND(0.00060)	0.0030	100m
		0.00082	0.0042	200m
		0.0011	0.0049	301m
		ND(0.00065)	0.0034	501m

