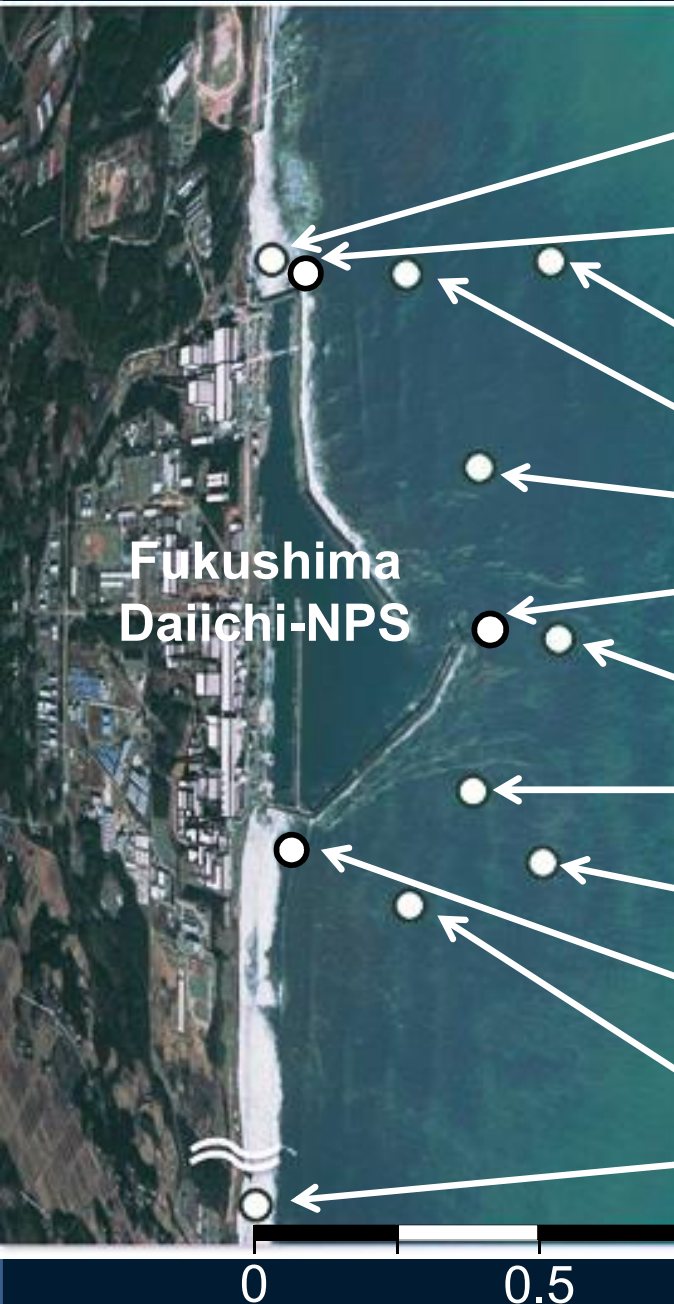


Sea Area Monitoring

September 15, 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
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									
T-1	2015/9/2	ND(0.71)	ND(0.63)	11 ^{*1}	ND(1.5)				
	2015/7/6	ND(0.71)	ND(0.80)	10 ^{*1}	ND(1.7)	0.18	ND(1.6)		
	2015/4/8	ND(0.55)	ND(0.64)					ND(5.5×10^{-6})	ND(6.1×10^{-6})
F-P02	2015/7/21	0.19	0.67	0.31 ^{*2}	1.9	In progress		In progress	In progress
	2015/6/16	ND(0.065)	ND(0.053)	0.04 ^{*2}	ND(0.45)	0.046		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	2015/8/31	ND(0.59)	ND(0.58)	ND(15) ^{*1}	In progress				
	2015/8/28	ND(0.50)	ND(0.64)	ND(17) ^{*1}	ND(1.7)				
T-0-1	2015/8/31	ND(0.68)	ND(0.63)	ND(15) ^{*1}	In progress				
	2015/8/28	ND(1.1)	0.80	ND(17) ^{*1}	2.3				
M-101	2015/7/8	0.0058	0.024		0.12	In progress			
	2015/6/10	0.030	0.12		0.53	In progress			
	2015/4/28	0.0067	0.025		0.17	0.012			
F-P03	2015/7/21	0.22	0.83	0.37 ^{*2}	2.6	In progress		In progress	In progress
	2015/6/16	ND(0.066)	ND(0.050)	0.03 ^{*2}	ND(0.46)	0.008		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	2015/8/31	ND(0.64)	ND(0.53)	ND(15) ^{*1}	In progress				
	2015/8/28	ND(0.64)	ND(0.45)	ND(17) ^{*1}	ND(1.7)				
M-102	2015/7/9	0.015	0.060		0.16	In progress			
	2015/6/11	0.0030	0.013		0.11	In progress			
	2015/4/27	0.013	0.047		0.12	0.017			
T-0-3A	2015/8/31	ND(0.64)	ND(0.74)	ND(15) ^{*1}	In progress				
	2015/8/28	ND(0.67)	ND(0.53)	ND(17) ^{*1}	ND(1.7)				
F-P01	2015/7/21	ND(0.054)	0.10	0.03 ^{*2}	ND(0.46)	In progress		In progress	In progress
	2015/6/16	ND(0.055)	ND(0.052)	0.03 ^{*2}	ND(0.46)	0.004		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	2015/8/31	ND(0.79)	ND(0.67)	ND(15) ^{*1}	In progress				
	2015/8/28	ND(0.71)	ND(0.71)	ND(17) ^{*1}	ND(1.7)				
T-2-1	2015/9/3	ND(0.68)	ND(0.68)	13 ^{*1}	3.3				
	2015/7/6	ND(0.74)	ND(0.63)	12 ^{*1}	ND(1.7)	0.013	ND(1.6)		
	2015/4/8	ND(0.66)	ND(0.60)	8.9 ^{*1}				ND(6.9×10^{-6})	(9.7 ± 2.4) $\times 10^{-6}$

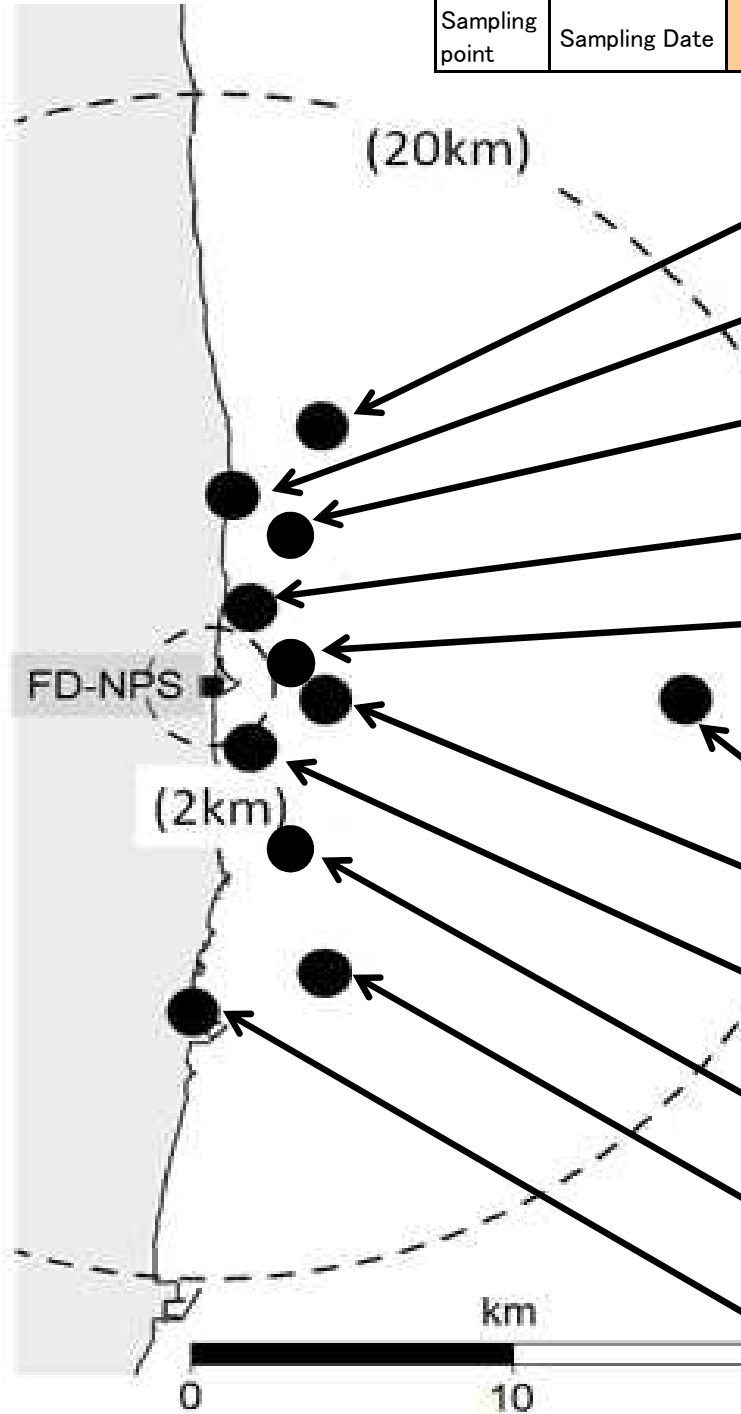
Sea area between 2-20km radius from the NPS (1)

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
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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



T-D1	2015/7/21	0.010	0.035	ND(16) ^{*1}	0.40					S
	2015/7/6	0.0032	0.010	ND(15) ^{*1}	ND(0.33)	ND(0.0075)	ND(2.0)			S
	2015/4/8	0.0017	0.0048	ND(15) ^{*1}	0.49	ND(0.0099)	ND(2.0)	ND(7.0 × 10 ⁻⁶)	ND(6.8 × 10 ⁻⁶)	S
T-6	2015/7/21	0.020	0.069	ND(16) ^{*1}	ND(0.33)					S
F-P06	2015/7/21	ND(0.056)	ND(0.051)	0.02 ^{*2}	ND(0.45)	In progress		In progress	In progress	S
	2015/6/16	ND(0.067)	ND(0.069)	0.03 ^{*2}	ND(0.45)	0.003		In progress	In progress	S
	2015/3/3	ND(0.059)	ND(0.057)	0.03 ^{*2}	ND(0.43)	0.004		ND(6 × 10 ⁻⁶)	6 × 10 ⁻⁶	S
M-103	2015/7/8	0.0060	0.024		0.14	In progress				0.5m
	2015/6/10	0.0050	0.020		0.13	In progress				0.5m
	2015/4/28	0.0044	0.015		0.14	0.0047				0.5m
F-P04	2015/7/21	ND(0.058)	0.054	0.02 ^{*2}	ND(0.45)	In progress		In progress	In progress	S
	2015/6/16	ND(0.062)	ND(0.053)	0.03 ^{*2}	ND(0.44)	0.002		In progress	In progress	S
	2015/3/3	ND(0.064)	ND(0.052)	0.03 ^{*2}	0.48	0.002		ND(7 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)	S
T-5	2015/7/22	ND(0.0019)	0.0056	ND(17) ^{*1}	ND(0.35)					S
	2015/7/6	ND(0.0018)	0.0039	ND(15) ^{*1}	ND(0.33)	ND(0.0094)	ND(2.0)			S
	2015/4/9	ND(0.0014)	0.0021	ND(17) ^{*1}	ND(0.32)	ND(0.011)	ND(1.6)	ND(5.7 × 10 ⁻⁶)	ND(5.6 × 10 ⁻⁶)	S
T-D5	2015/7/21	0.0035	0.014	ND(16) ^{*1}	ND(0.35)					S
	2015/7/6	0.0041	0.018	ND(15) ^{*1}	ND(0.33)	ND(0.0091)	ND(2.0)			S
	2015/4/8	ND(0.0016)	0.0062	ND(15) ^{*1}	0.70	ND(0.011)	ND(2.0)	ND(6.3 × 10 ⁻⁶)	ND(6.0 × 10 ⁻⁶)	S
M-104	2015/7/9	0.012	0.050		0.17	In progress				0.5m
	2015/6/11	0.0044	0.017		0.12	In progress				0.5m
	2015/4/27	0.0040	0.015		0.091	0.0016				0.5m
F-P05	2015/7/21	ND(0.061)	0.061	0.03 ^{*2}	ND(0.45)	In progress		In progress	In progress	S
	2015/6/16	ND(0.058)	ND(0.049)	0.02 ^{*2}	ND(0.44)	0.003		In progress	In progress	S
	2015/3/3	ND(0.096)	ND(0.053)	0.04 ^{*2}	ND(0.43)	0.004		ND(6 × 10 ⁻⁶)	8 × 10 ⁻⁶	S
T-D9	2015/7/22	0.0025	0.0097	ND(17) ^{*1}	ND(0.35)					S
	2015/7/6	0.0024	0.0082	ND(15) ^{*1}	ND(0.33)	ND(0.0075)	ND(2.0)			S
	2015/4/9	ND(0.0017)	0.0043	ND(17) ^{*1}	ND(0.32)	ND(0.0092)	ND(1.6)	ND(6.7 × 10 ⁻⁶)	ND(6.5 × 10 ⁻⁶)	S
T-3	2015/7/21	0.021	0.089	ND(16) ^{*1}	ND(0.34)					S

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	2015/8/5	0.0024	0.012	S
		0.0015	0.0085	B

T-14	2015/8/3	ND(0.0013)	0.0059	S
		ND(0.0013)	0.0069	B

T-D1	2015/8/3	0.0022	0.0079	S
		0.0074	0.026	B

T-6	2015/7/28	0.013	0.047	S
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T-S8	2015/8/2	0.0061	0.025	S
		0.0029	0.0097	B

T-3	2015/7/28	0.020	0.072	S
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T-S7	2015/8/9	0.0044	0.021	S
		0.0042	0.016	B

T-S5	2015/8/9	0.0042	0.018	S
		0.0048	0.023	B

T-S3	2015/8/4	0.0033	0.014	S
		0.0026	0.013	B

T-S4	2015/8/4	0.0095	0.035	S
		ND(0.0014)	0.0078	B

T-D5	2015/8/3	0.0039	0.017	S
		0.0025	0.011	B

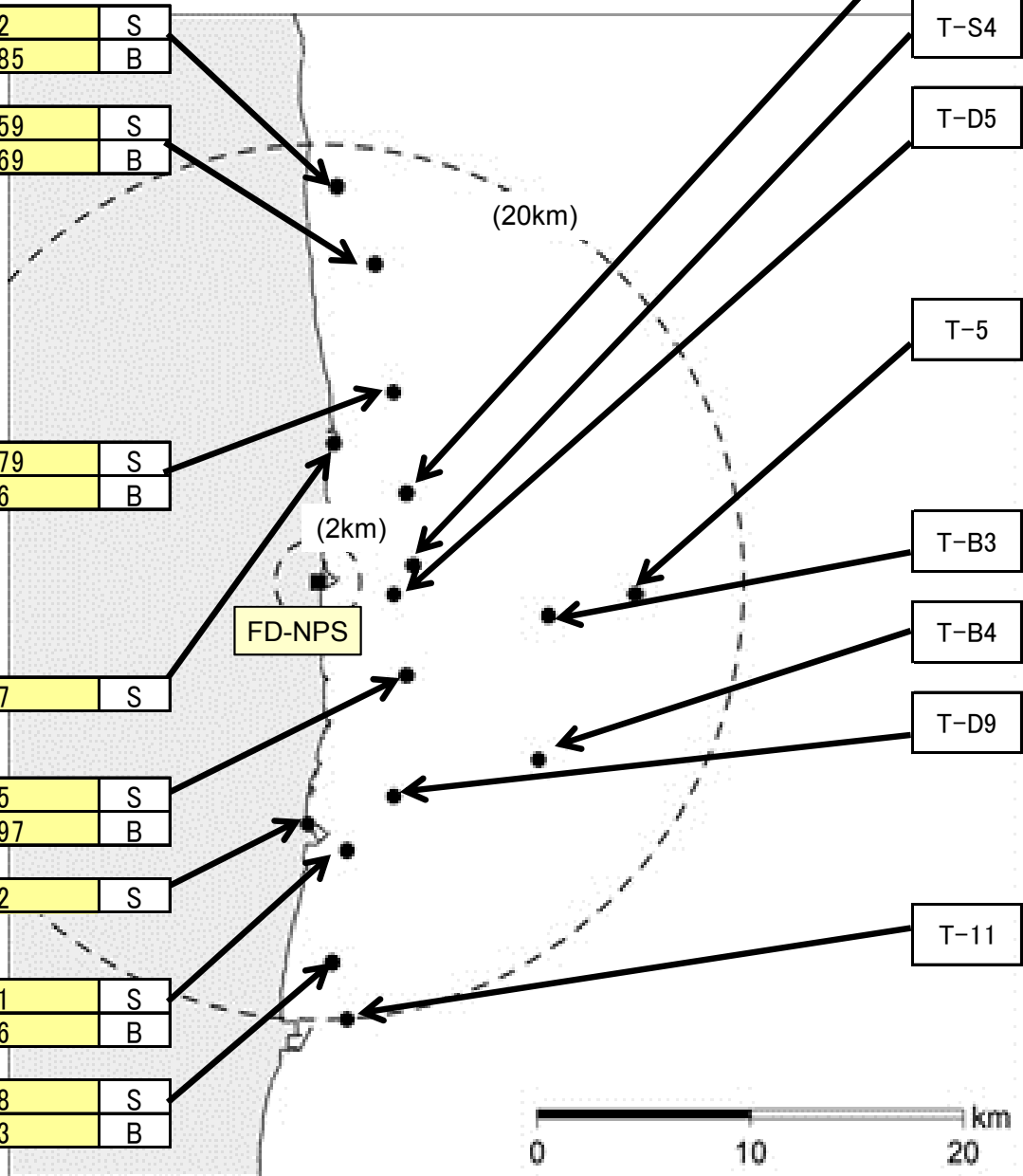
T-5	2015/8/3	ND(0.0018)	0.0035	S
		ND(0.0019)	0.0081	B

T-B3	2015/8/10	ND(0.0014)	0.0046	S
		ND(0.0014)	0.0066	B

T-B4	2015/8/10	ND(0.0014)	0.0041	S
		ND(0.0014)	0.0062	B

T-D9	2015/8/3	0.0028	0.013	S
		0.0051	0.016	B

T-11	2015/8/3	0.0038	0.019	S
		0.0038	0.015	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

Sea water radioactivity (Bq/L):

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

T-MA	2015/8/6	ND(0.0015)	0.0080		S
		ND(0.0015)	0.0078		B

T-13-1	2015/8/6	0.0020	0.0088		S
		0.0020	0.0074		B

T-7	2015/7/24	ND(0.0014)	0.0047		S
		ND(0.0014)	0.0034		B

T-4	2015/7/28	0.010	0.049		S
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T-12	2015/8/4	0.0056	0.018		S
		0.0029	0.011		B

T-17-1	2015/8/4	0.0063	0.028		S
		0.0028	0.0095		B

M-C1	2015/5/12	0.00040	0.0028	0.00092	1m
		0.00038	0.0023		46m

T-B1	2015/7/10	ND(0.0015)	0.0048		S
		ND(0.0014)	0.0044		B

M-D1	2015/5/14	0.00067	0.0035	0.0011	1m
		0.00010	0.0015		50m
		0.00023	0.0019		113m

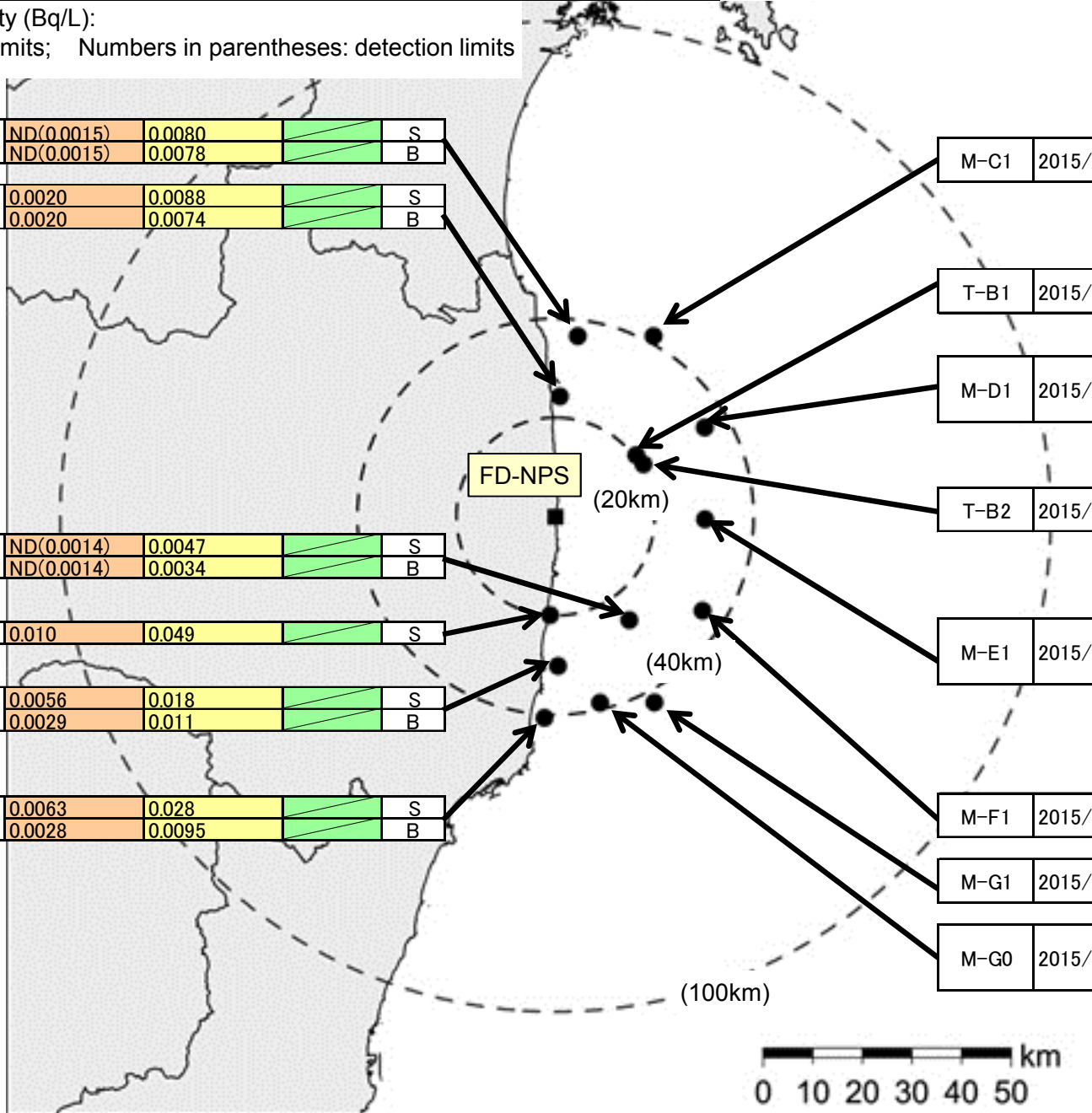
T-B2	2015/7/10	ND(0.0015)	0.0052		S
		ND(0.0015)	0.0068		B

M-E1	2015/5/14	0.00051	0.0028	0.0011	1m
		0.00020	0.0018		50m
		0.00020	0.0020		125m

M-F1	2015/5/14	0.00059	0.0032		1m
		0.00025	0.0021		134m

M-G1	2015/5/21	0.00074	0.0036		1m
		0.00038	0.0023		130m

M-G0	2015/5/21	0.0013	0.0057		1m
		ND(0.00015)	0.0018		50m
		0.00022	0.0021		95m



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
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Depth(m) from sea level

Sea water radioactivity (Bq/L):

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

*Total β: excluding K-40

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-C3	2015/8/8	In progress	In progress	0.025	In progress	In progress	1m
		0.00088	0.0039	0.026	0.095	0.0010	1m
	2015/5/11	0.00016	0.0015				50m
		0.00032	0.0019				123m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-22	2015/8/6	0.0018	0.0080				S
		0.0027	0.0098				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-D3	2015/8/8	In progress	In progress	0.030	In progress	In progress	1m
		0.00068	0.0035	0.026	0.092	0.0010	1m
	2015/5/16	0.00015	0.0016				100m
		ND(0.00014)	0.0016				211m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-F3	2015/8/6	In progress	In progress	0.025	In progress	In progress	1m
		0.00054	0.0034	0.023	0.080	0.0016	1m
	2015/5/17	0.00014	0.0016				100m
		ND(0.00012)	0.0018				222m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-18	2015/7/24	ND(0.0014)	0.0059				S
		0.0016	0.0094				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-20	2015/8/4	0.0081	0.032				S
		0.0023	0.012				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-M10	2015/7/24	0.0018	0.0072				S
		ND(0.0013)	0.0046				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-E3	2015/8/8	In progress	In progress	0.028	In progress	In progress	1m
		0.00061	0.0034	0.024	0.084	0.0012	1m
	2015/5/16	ND(0.00011)	0.0016				100m
		0.00014	0.0016				219m

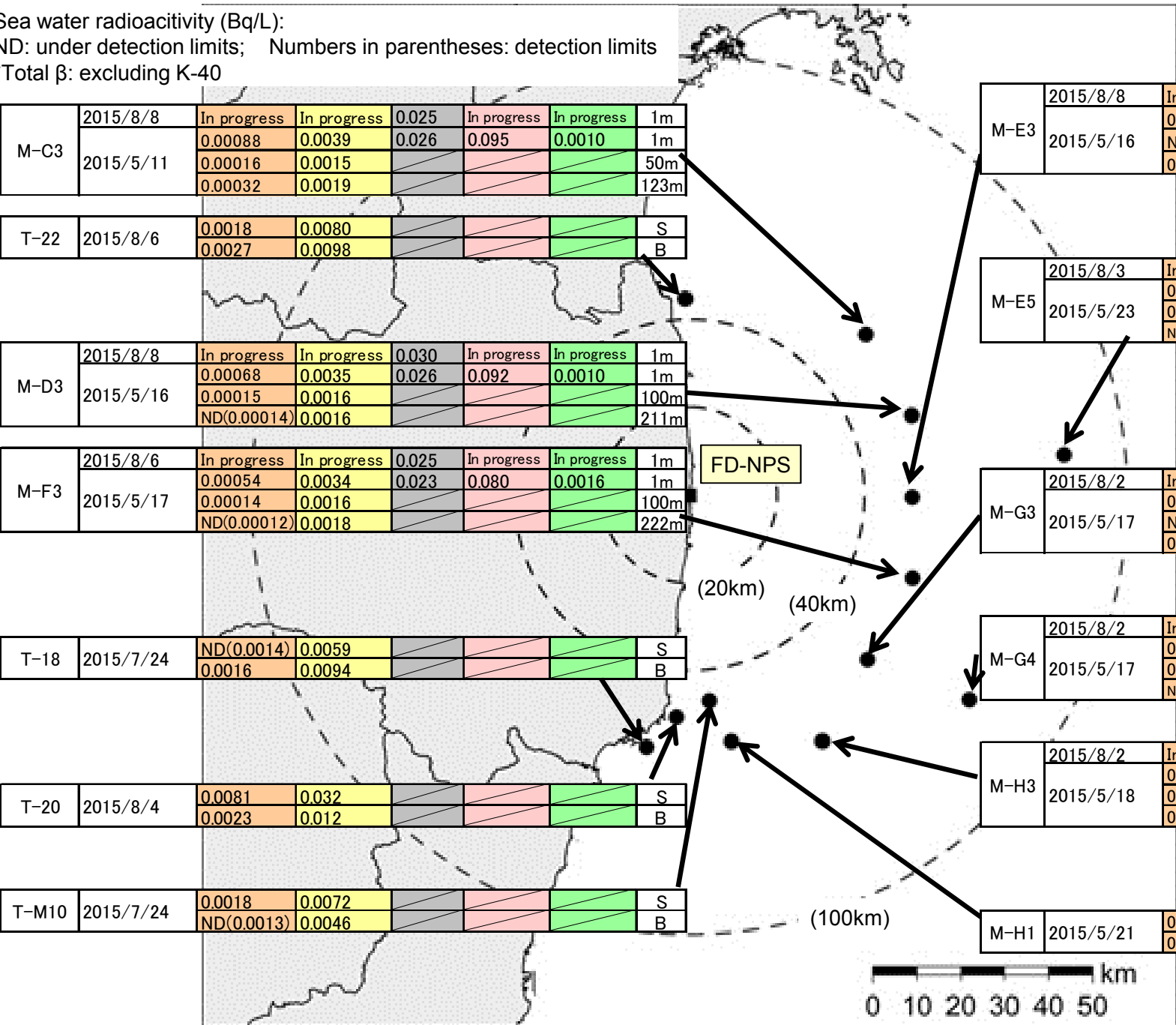
Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-E5	2015/8/3	In progress	In progress	0.028	In progress	In progress	1m
		0.00031	0.0024	0.024	0.077	0.0012	1m
	2015/5/23	0.00028	0.0022				100m
		ND(0.000078)	0.00077				504m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-G3	2015/8/2	In progress	In progress	0.030	In progress	In progress	1m
		0.00059	0.0033	0.025	0.092	0.0015	1m
	2015/5/17	ND(0.00011)	0.0016				100m
		0.00022	0.0018				198m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-G4	2015/8/2	In progress	In progress	0.028	In progress	In progress	1m
		0.00025	0.0024	0.027	0.078	0.0012	1m
	2015/5/17	0.00028	0.0024				100m
		ND(0.000071)	0.00054				642m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-H3	2015/8/2	In progress	In progress	0.030	In progress	In progress	1m
		0.00049	0.0026	0.028	0.082	0.00078	1m
	2015/5/18	0.00019	0.0016				100m
		0.00015	0.0017				221m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-H1	2015/5/21	0.00065	0.0032				1m
		0.00026	0.0020				126m

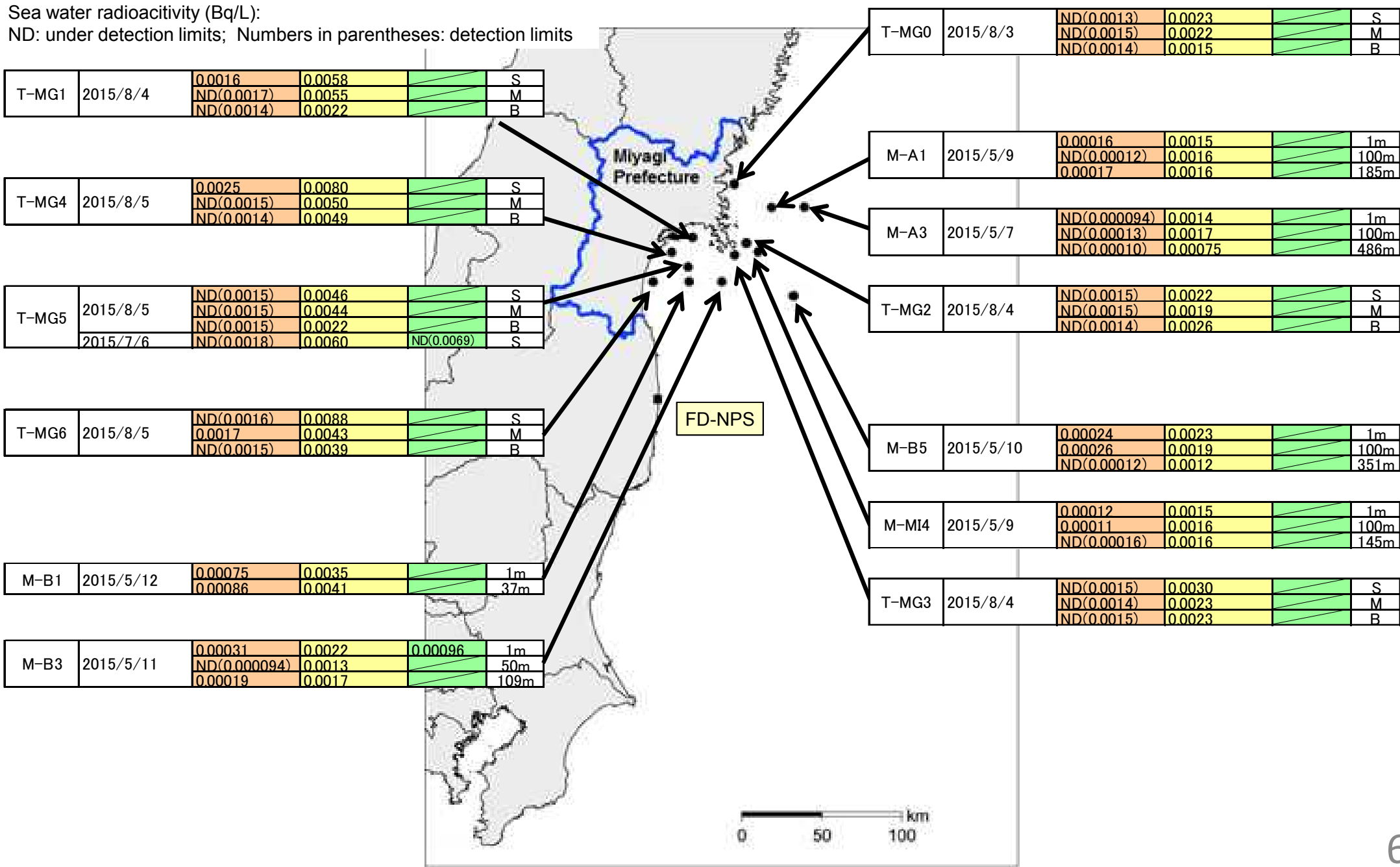


Sea area along and off the coast of Miyagi Prefecture

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

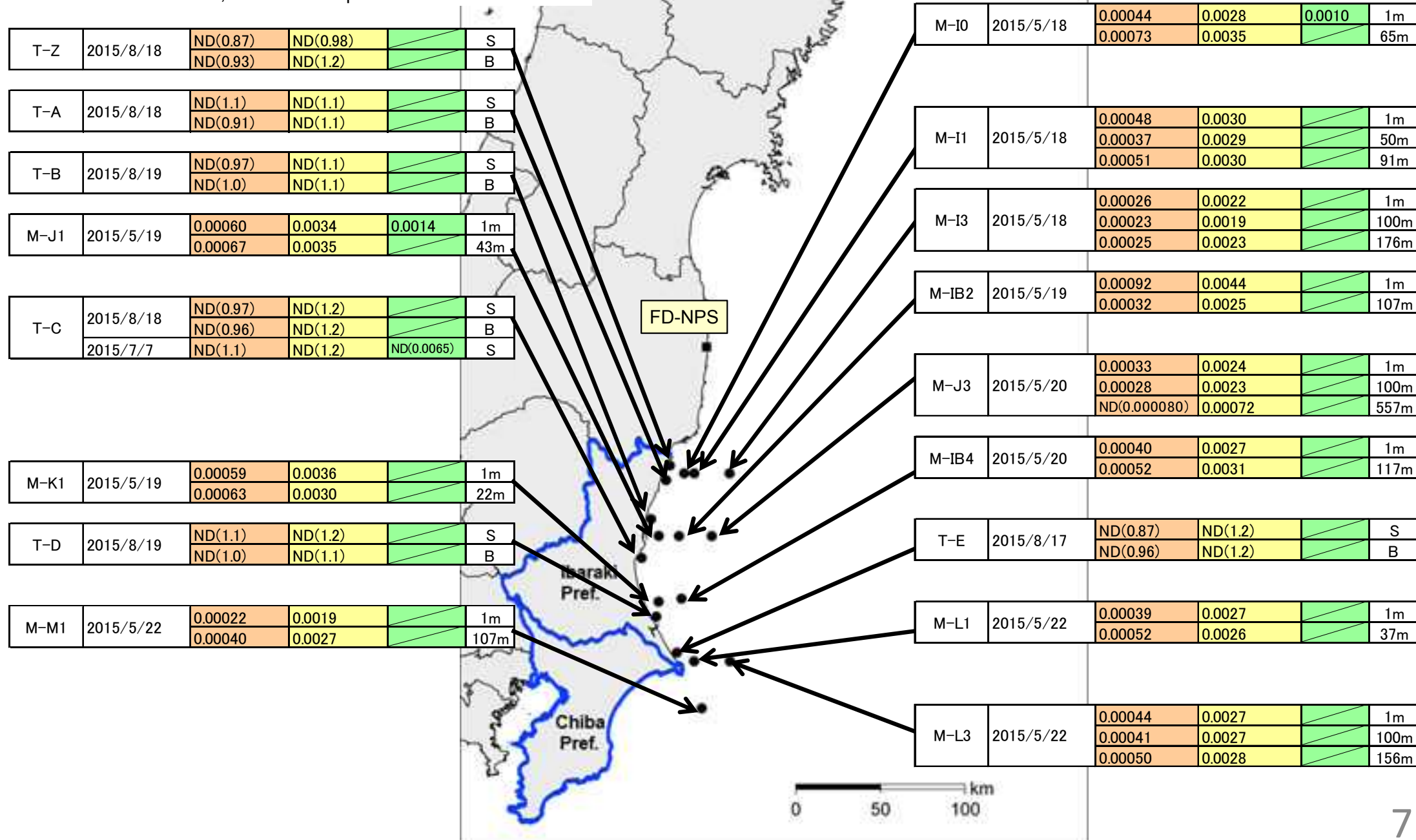


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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



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

