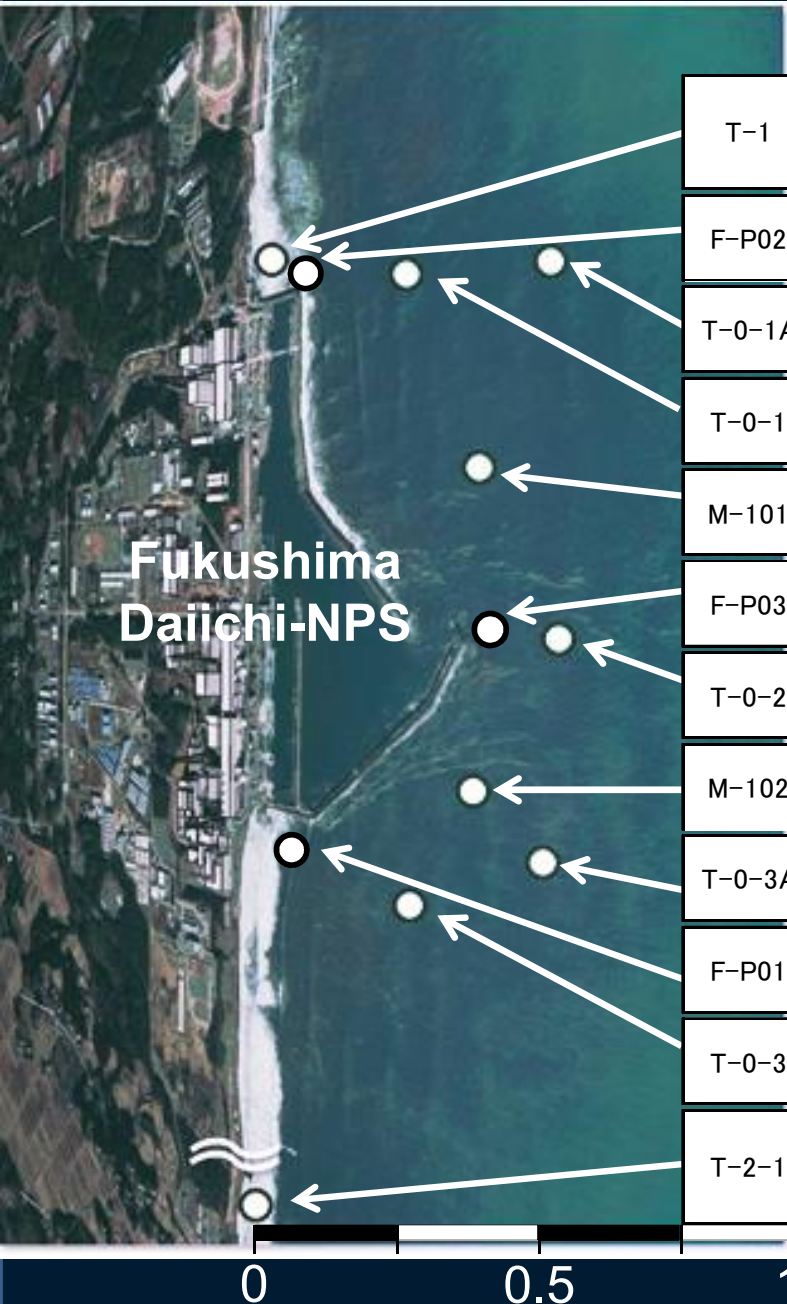


Sea Area Monitoring

October 06, 2015

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS



Fukushima
Daiichi-NPS

Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+240
T-1	2015/9/21	ND(0.44)	ND(0.78)	9.2 ^{*1}	ND(2.0)				
	2015/9/14	ND(0.60)	ND(0.53)	10 ^{*1}	ND(1.6)				
	2015/8/3	ND(0.65)	ND(0.53)	11 ^{*1}	ND(1.6)	0.69	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	2015/9/23	ND(0.71)	ND(0.63)	ND(16) ^{*1}	In progress				
	2015/9/16	ND(0.63)	ND(0.78)	ND(16) ^{*1}	ND(1.5)				
	2015/9/7	ND(0.60)	ND(0.58)	ND(17) ^{*1}	ND(1.7)				
T-0-1	2015/9/23	ND(0.46)	ND(0.70)	ND(16) ^{*1}	In progress				
	2015/9/16	ND(0.68)	ND(0.58)	ND(16) ^{*1}	ND(1.5)				
	2015/9/7	ND(0.66)	ND(0.63)	ND(17) ^{*1}	ND(1.7)				
M-101	2015/8/5	0.0074	0.030		0.13	In progress			
	2015/7/8	0.0058	0.024		0.12	In progress			
	2015/6/10	0.030	0.12		0.53	0.15			
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	2015/9/23	ND(0.48)	ND(0.78)	ND(16) ^{*1}	In progress				
	2015/9/16	ND(0.67)	ND(0.64)	ND(16) ^{*1}	ND(1.5)				
	2015/9/7	ND(0.78)	ND(0.59)	ND(17) ^{*1}	ND(1.7)				
M-102	2015/8/6	0.0072	0.032		0.14	In progress			
	2015/7/9	0.015	0.060		0.16	In progress			
	2015/6/11	0.0030	0.013		0.11	0.0020			
T-0-3A	2015/9/23	ND(0.54)	ND(0.64)	ND(16) ^{*1}	In progress				
	2015/9/16	ND(0.79)	ND(0.69)	ND(16) ^{*1}	ND(1.5)				
	2015/9/7	ND(0.55)	ND(0.68)	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	2015/9/23	ND(0.74)	ND(0.58)	ND(16) ^{*1}	In progress				
	2015/9/16	ND(0.55)	ND(0.74)	ND(16) ^{*1}	ND(1.5)				
	2015/9/7	ND(0.63)	ND(0.69)	ND(17) ^{*1}	ND(1.7)				
T-2-1	2015/9/21	ND(0.81)	ND(0.75)	11 ^{*1}	ND(2.0)				
	2015/9/14	ND(0.59)	1.2	8.3 ^{*1}	ND(1.6)				
	2015/8/3	ND(0.62)	ND(0.63)	14 ^{*1}	ND(1.6)	0.040	ND(1.6)		
	2015/4/8	ND(0.66)	ND(0.60)	8.9 ^{*1}				ND(6.9 × 10 ⁻⁶)	(9.7 ± 2.4) × 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

0 0.5 1km

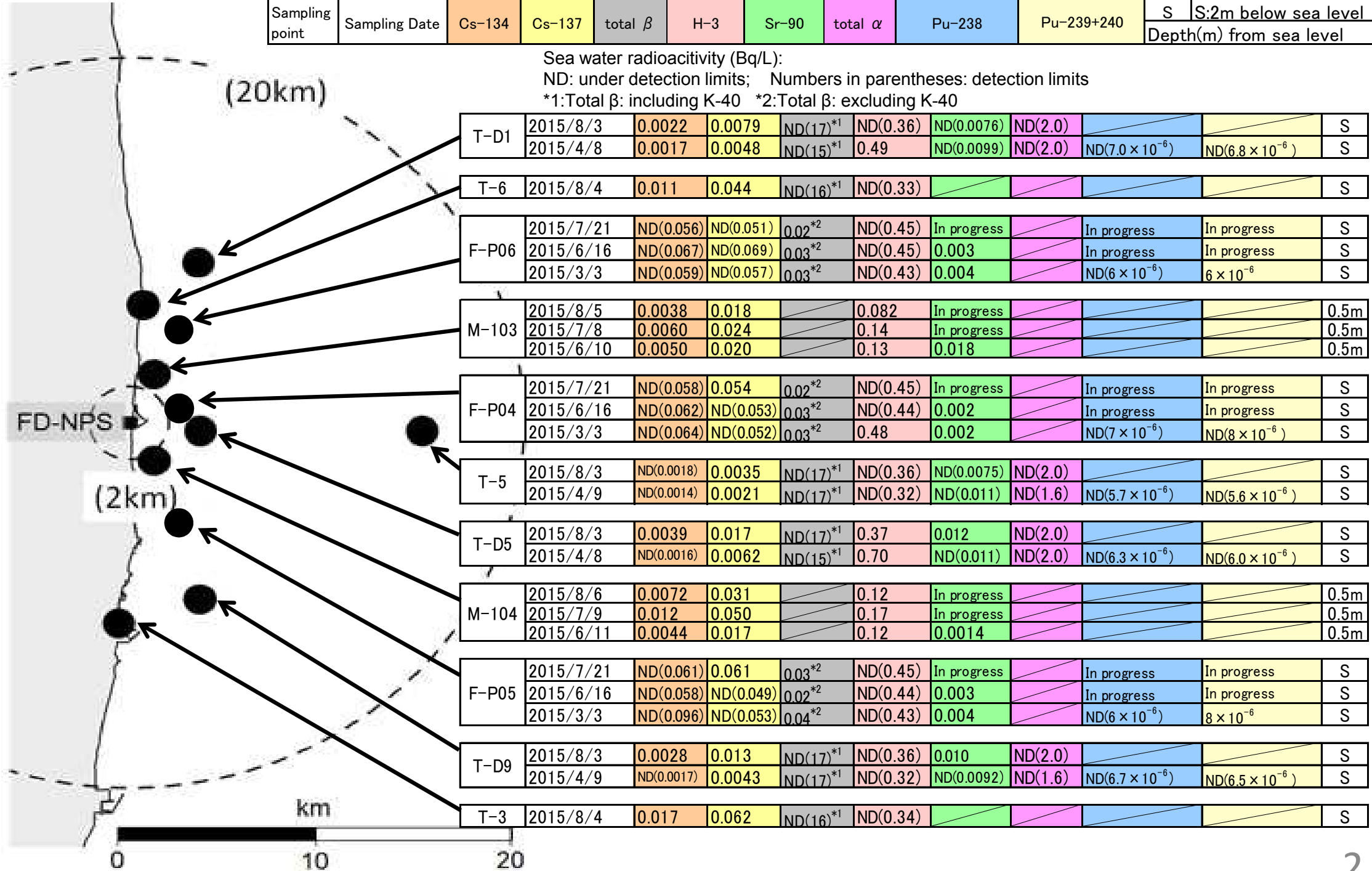
Sea area between 2-20km radius from the NPS (1)

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



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	2015/8/17	0.0015	0.0087	S
		ND(0.0013)	0.0059	B

T-D1	2015/8/17	0.0023	0.0099	S
		ND(0.0019)	0.0078	B

T-6	2015/8/18	0.022	0.094	S
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T-S8	2015/8/2	0.0061	0.025	S
		0.0029	0.0097	B

T-3	2015/8/25	0.062	0.21	S
	2015/8/18	0.021	0.084	S

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	2015/8/17	ND(0.0019)	0.0077	S
		ND(0.0018)	0.0064	B

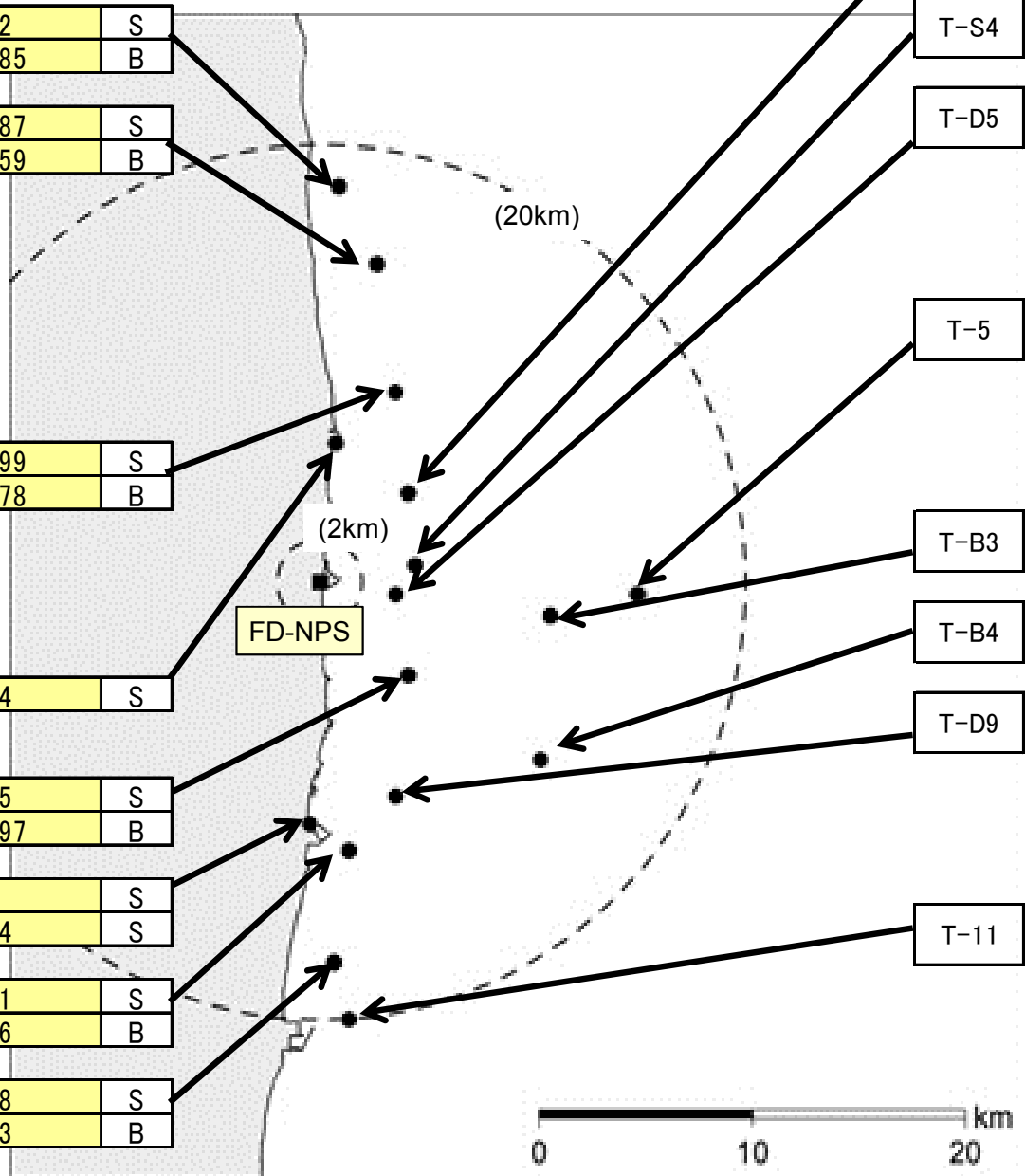
T-5	2015/8/18	ND(0.0019)	0.0044	S
		ND(0.0019)	0.0041	B

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	2015/8/18	0.0038	0.019	S
		ND(0.0018)	0.0053	B

T-11	2015/8/18	0.0037	0.014	S
		0.0029	0.011	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	2015/8/6	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	2015/8/21	ND(0.0012)	0.0032		S
		ND(0.0013)	0.0028		B

T-4	2015/8/25	0.035	0.17		S
	2015/8/18	0.019	0.074		S

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	2015/8/19	ND(0.0013)	0.0033		S
		ND(0.0014)	0.0025		B

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

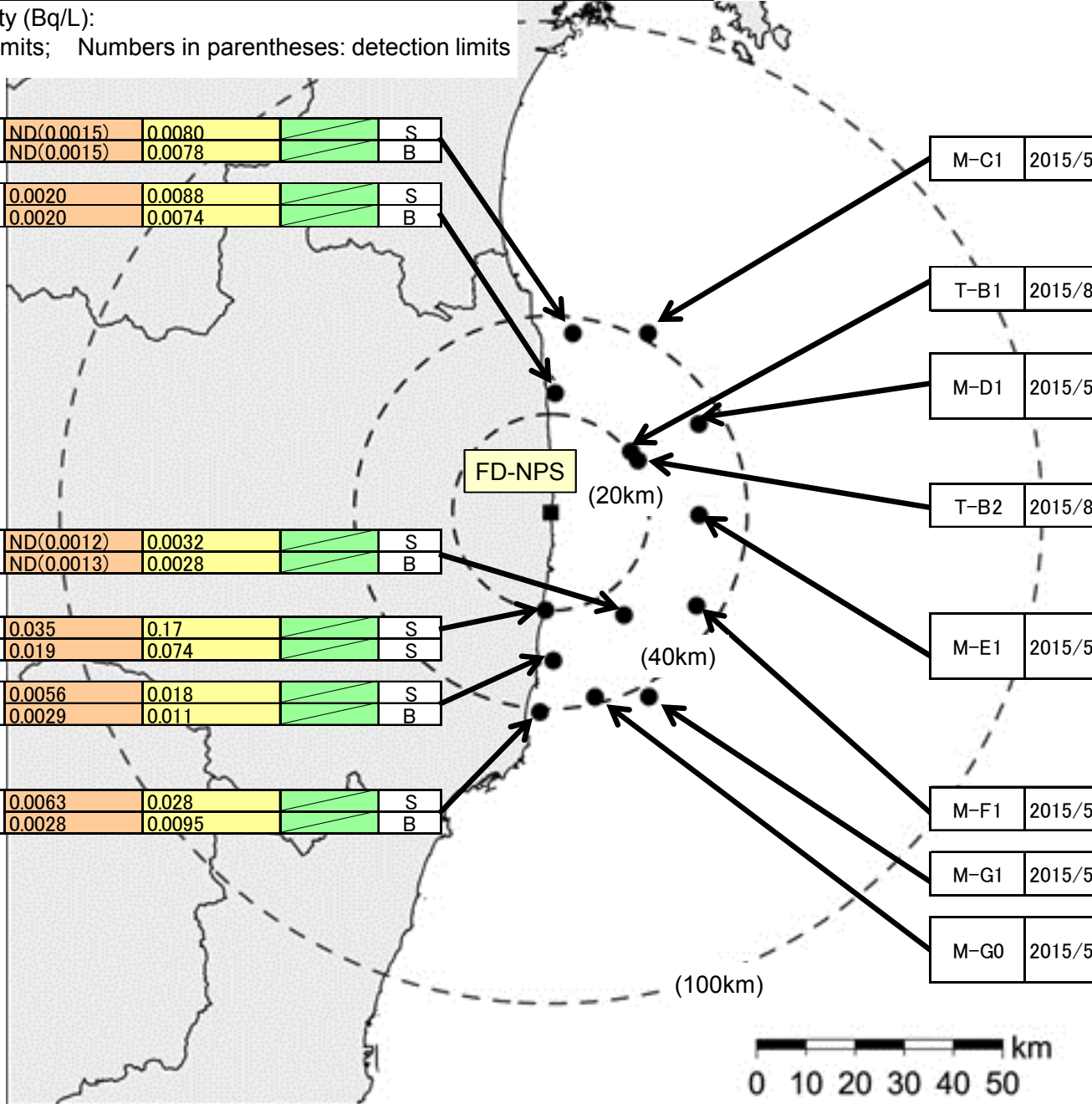
T-B2	2015/8/19	ND(0.0013)	0.0021		S
		ND(0.0014)	0.0022		B

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)

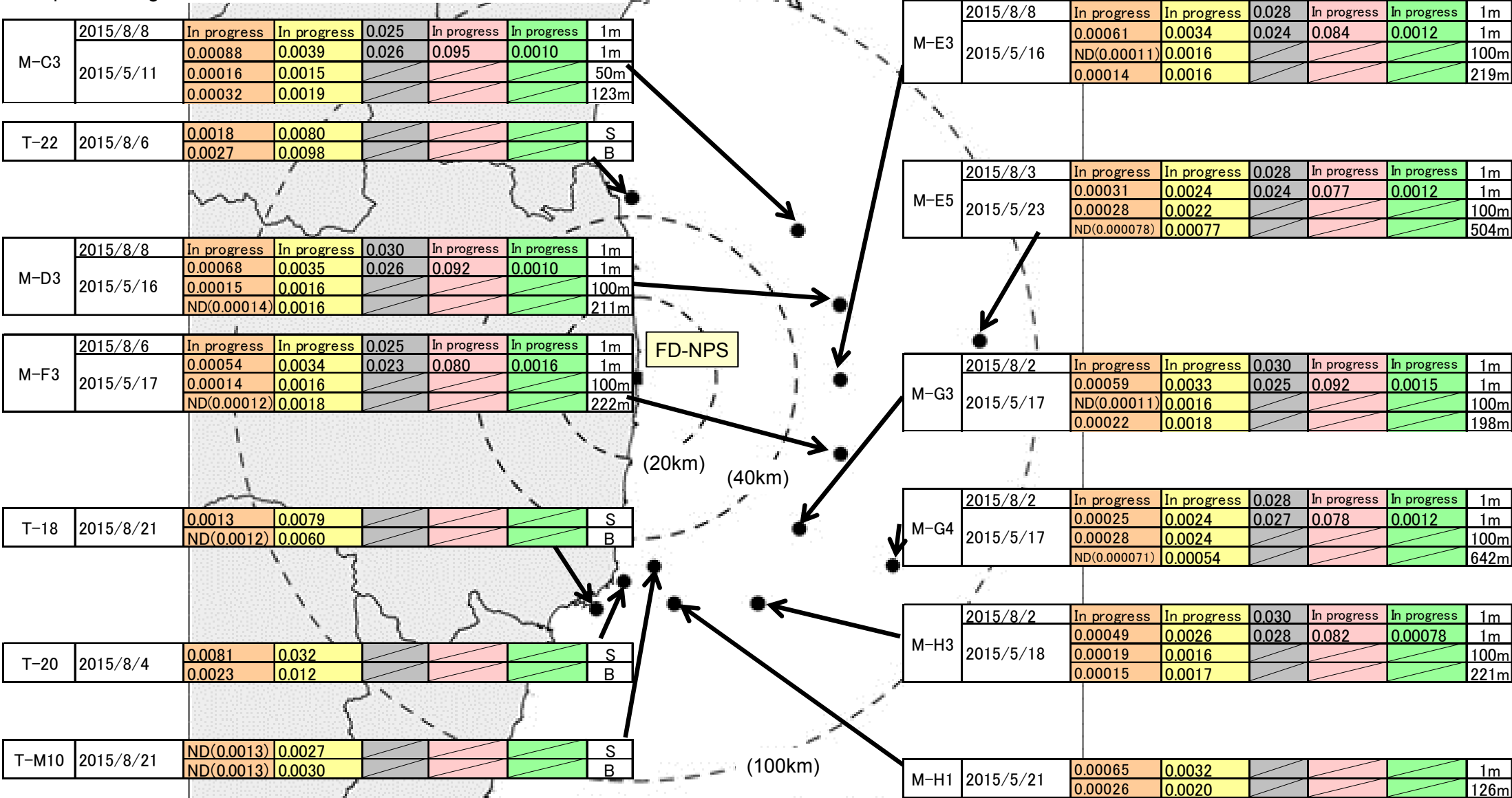
Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	S/B	S:2m below sea level	B:2-3m above sea bottom
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Depth(m) from sea level

Sea water radioactivity (Bq/L):

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

*Total β: excluding K-40

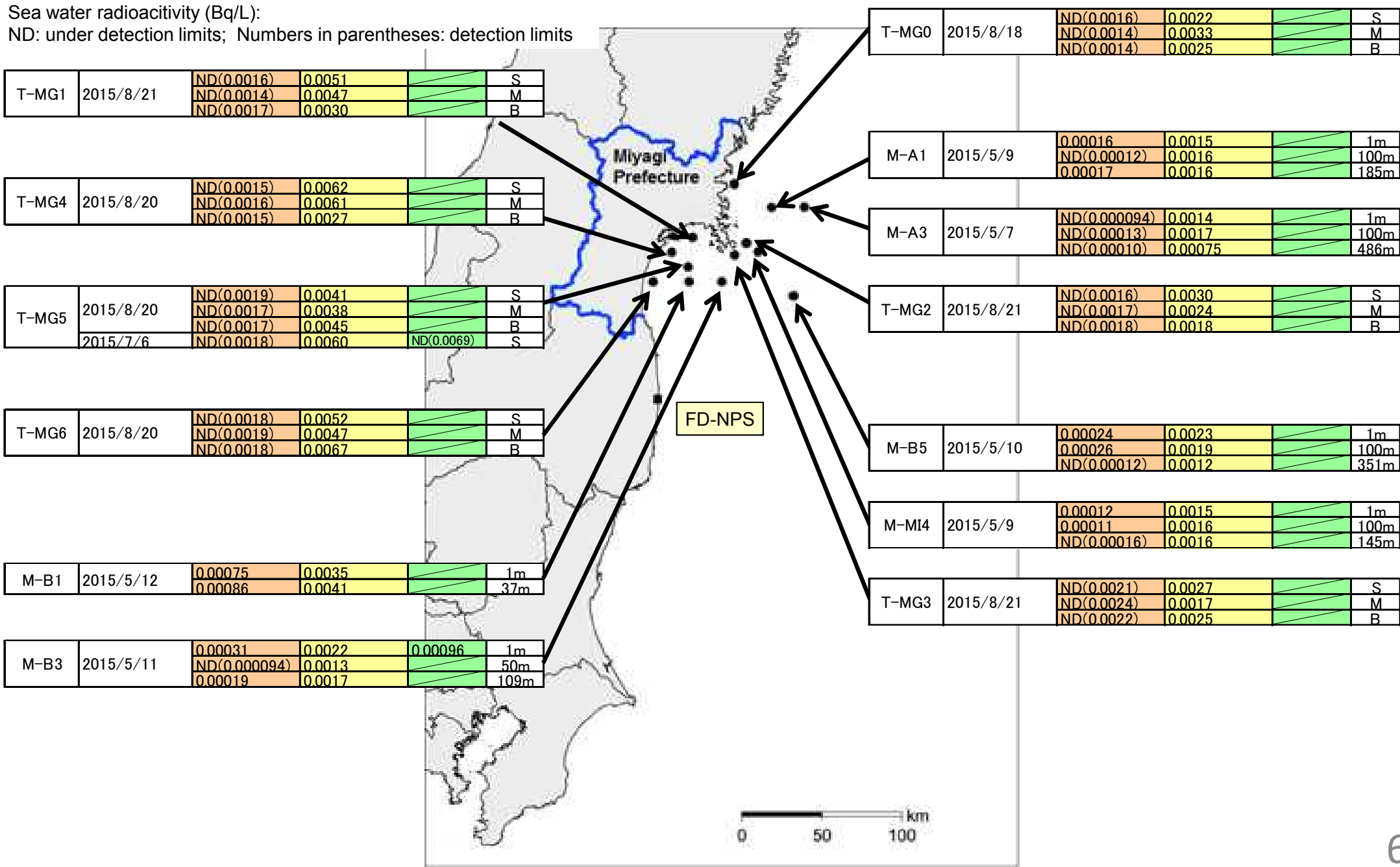


Sea area along and off the coast of Miyagi Prefecture

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

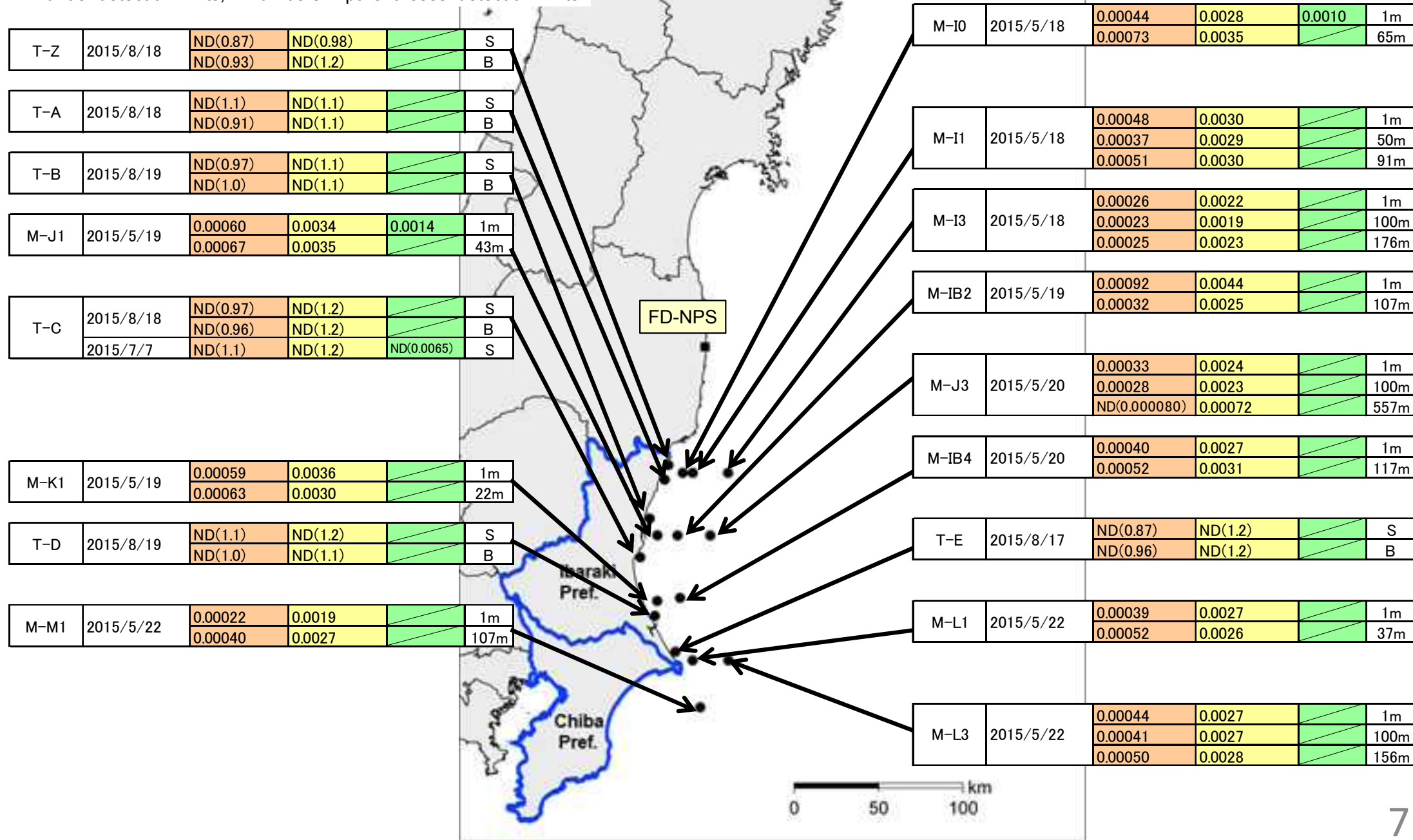


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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

