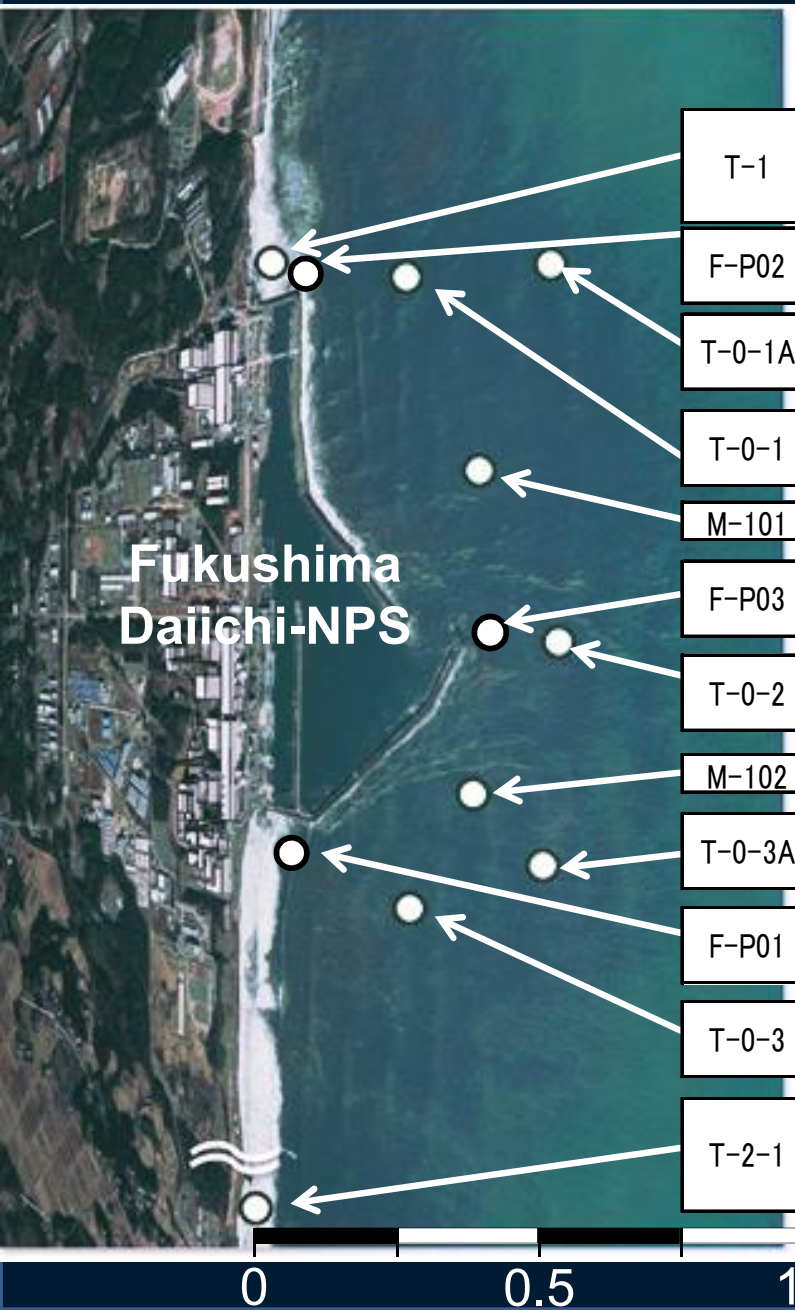


Sea Area Monitoring

May 10, 2016

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
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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-1	2016/4/18	ND(0.91)	ND(0.74)	13 ^{*1}	ND(1.7)				
	2016/3/7	ND(0.61)	ND(0.59)	11 ^{*1}	ND(1.5)	0.026	ND(2.0)		
	2015/10/14	ND(0.69)	ND(0.65)	13 ^{*1}	ND(1.7)	0.087	ND(1.9)	ND(5.8×10^{-6})	(1.0 ± 0.24) $\times 10^{-5}$
F-P02	2016/1/22	ND(0.061)	0.12	0.03 ^{*2}	ND(0.47)	In progress		In progress	In progress
	2015/12/14	ND(0.059)	0.059	0.08 ^{*2}	ND(0.40)	0.001		ND(9.0×10^{-6})	9.0×10^{-6}
T-0-1A	2016/4/18	ND(0.68)	ND(0.78)	ND(18) ^{*1}	In progress				
	2016/4/11	ND(0.64)	ND(0.65)	ND(17) ^{*1}	ND(1.6)				
T-0-1	2016/4/18	ND(0.48)	ND(0.74)	ND(18) ^{*1}	In progress				
	2016/4/11	ND(0.68)	ND(0.60)	ND(17) ^{*1}	ND(1.6)				
M-101	2016/1/13	0.011	0.054		0.17	0.0036			
F-P03	2016/1/22	ND(0.062)	ND(0.046)	0.04 ^{*2}	ND(0.45)	In progress		In progress	In progress
	2015/12/14	ND(0.055)	0.081	0.06 ^{*2}	ND(0.40)	0.003		ND(7.0×10^{-6})	1.2×10^{-5}
T-0-2	2016/4/18	ND(0.70)	ND(0.45)	ND(18) ^{*1}	In progress				
	2016/4/11	ND(0.67)	ND(0.52)	ND(17) ^{*1}	ND(1.6)				
M-102	2016/1/14	0.0050	0.026		0.10	0.0015			
T-0-3A	2016/4/18	ND(0.77)	ND(0.65)	ND(18) ^{*1}	In progress				
	2016/4/11	ND(0.62)	ND(0.78)	ND(17) ^{*1}	ND(1.6)				
F-P01	2016/1/22	ND(0.060)	ND(0.051)	0.04 ^{*2}	ND(0.49)	In progress		In progress	In progress
	2015/12/14	ND(0.060)	0.099	0.05 ^{*2}	ND(0.41)	0.004		ND(1.1×10^{-5})	1.3×10^{-5}
T-0-3	2016/4/18	ND(0.82)	ND(0.64)	ND(18) ^{*1}	In progress				
	2016/4/11	ND(0.79)	ND(0.49)	ND(17) ^{*1}	ND(1.6)				
T-2-1	2016/4/18	ND(0.67)	ND(0.62)	10 ^{*1}	ND(1.7)				
	2016/3/7	ND(0.67)	ND(0.64)	13 ^{*1}	ND(1.5)	ND(0.0066)	ND(1.9)		
	2015/10/14	ND(0.88)	ND(0.78)	11 ^{*1}	ND(1.7)	ND(0.0093)	ND(1.9)	ND(5.5×10^{-6})	(1.8 ± 0.30) $\times 10^{-5}$

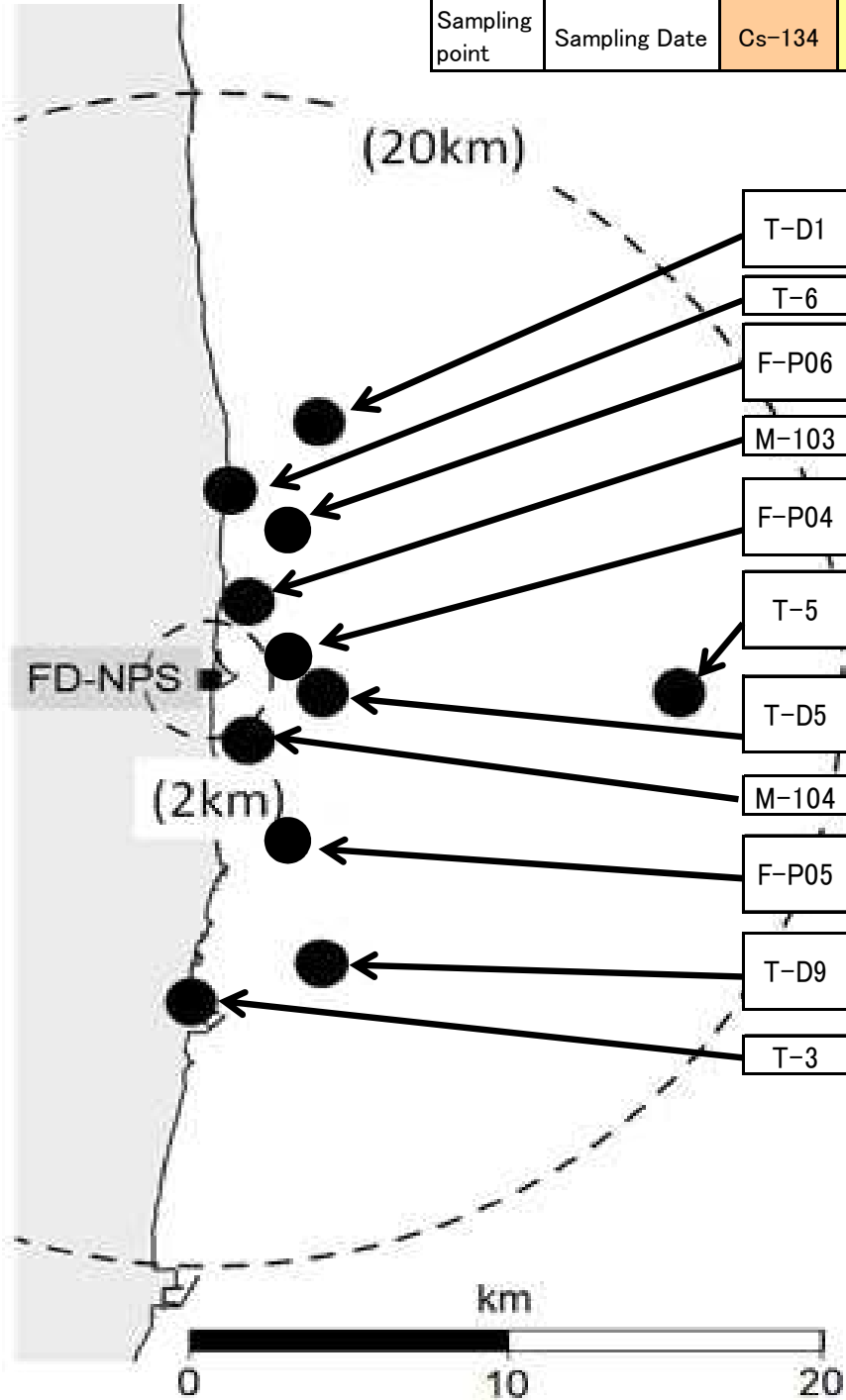
Sea area between 2-20km radius from the NPS (1)

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

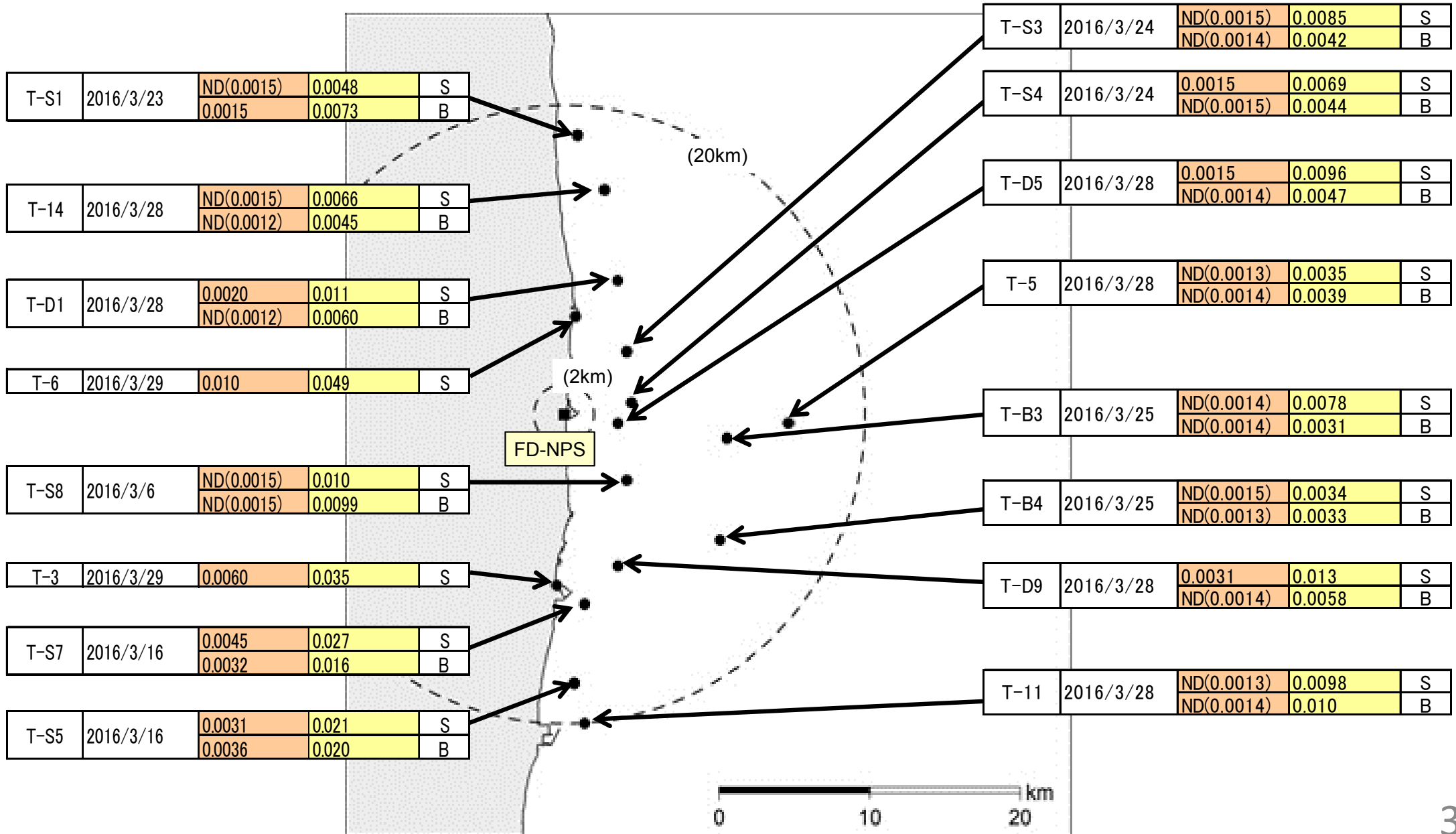


T-D1	2016/3/14	0.0014	0.0091	ND(18) ^{*1}	ND(0.36)						S
	2015/10/5	0.0029	0.010	ND(16) ^{*1}	ND(0.36)	ND(0.0066)	ND(1.6)	ND(5.1×10^{-6})	ND(5.1×10^{-6})		S
T-6	2016/3/15	0.0063	0.032	ND(15) ^{*1}	ND(0.31)						S
F-P06	2016/1/22	ND(0.060)	0.058	0.04 ^{*2}	ND(0.45)	In progress		In progress	In progress		S
	2015/12/14	ND(0.069)	ND(0.066)	0.05 ^{*2}	ND(0.39)	0.001		ND(8.0×10^{-6})	ND(1.0×10^{-5})		S
M-103	2016/1/13	0.0031	0.015		0.087	0.0016					0.5m
F-P04	2016/1/22	ND(0.065)	ND(0.048)	0.04 ^{*2}	ND(0.44)	In progress		In progress	In progress		S
	2015/12/14	ND(0.066)	ND(0.070)	0.04 ^{*2}	ND(0.39)	0.002		ND(6.0×10^{-6})	8.0×10^{-6}		S
T-5	2016/3/14	ND(0.0014)	0.0027	ND(18) ^{*1}	ND(0.36)						S
	2015/10/6	ND(0.0015)	0.0042	ND(16) ^{*1}	ND(0.36)	ND(0.0067)	ND(1.9)	ND(5.1×10^{-6})	$(7.2 \pm 1.9) \times 10^{-6}$		S
T-D5	2016/3/14	0.0042	0.020	ND(18) ^{*1}	ND(0.36)						S
	2015/10/5	ND(0.0016)	0.0085	ND(16) ^{*1}	ND(0.36)	ND(0.0062)	ND(1.6)	ND(5.1×10^{-6})	ND(5.3×10^{-6})		S
M-104	2016/1/14	0.0045	0.022		0.11	0.0017					0.5m
F-P05	2016/1/22	ND(0.062)	ND(0.042)	0.04 ^{*2}	ND(0.45)	In progress		In progress	In progress		S
	2015/12/14	ND(0.064)	0.062	0.04 ^{*2}	ND(0.39)	0.002		ND(7.0×10^{-6})	ND(8.0×10^{-6})		S
T-D9	2016/3/14	0.0015	0.0099	ND(18) ^{*1}	ND(0.36)						S
	2015/10/6	0.0026	0.013	ND(16) ^{*1}	ND(0.36)	ND(0.0068)	ND(1.9)	ND(5.2×10^{-6})	ND(5.0×10^{-6})		S
T-3	2016/3/15	0.0075	0.034	ND(16) ^{*1}	ND(0.31)						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



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	2016/3/8	ND(0.0013)	0.0055		S
		ND(0.0013)	0.0056		B

T-13-1	2016/3/8	ND(0.0013)	0.0077		S
		ND(0.0014)	0.0079		B

M-C1	2016/2/3	0.00096	0.0051	0.0012	1m
		0.00074	0.0051		49m

T-B1	2016/3/3	ND(0.0013)	0.0029		S
		ND(0.0014)	0.0042		B

M-D1	2016/2/1	0.00038	0.0029	0.0012	1m
		0.00029	0.0027		50m
		0.00025	0.0022		113m

T-B2	2016/3/3	ND(0.0014)	0.0034		S
		ND(0.0013)	0.0036		B

T-7	2016/3/4	ND(0.0010)	0.0027		S
		ND(0.0014)	0.0029		B

M-E1	2016/1/26	0.00024	0.0018	0.0012	1m
		0.00017	0.0021		50m
		0.00026	0.0020		129m

T-4	2016/3/29	0.023	0.11		S
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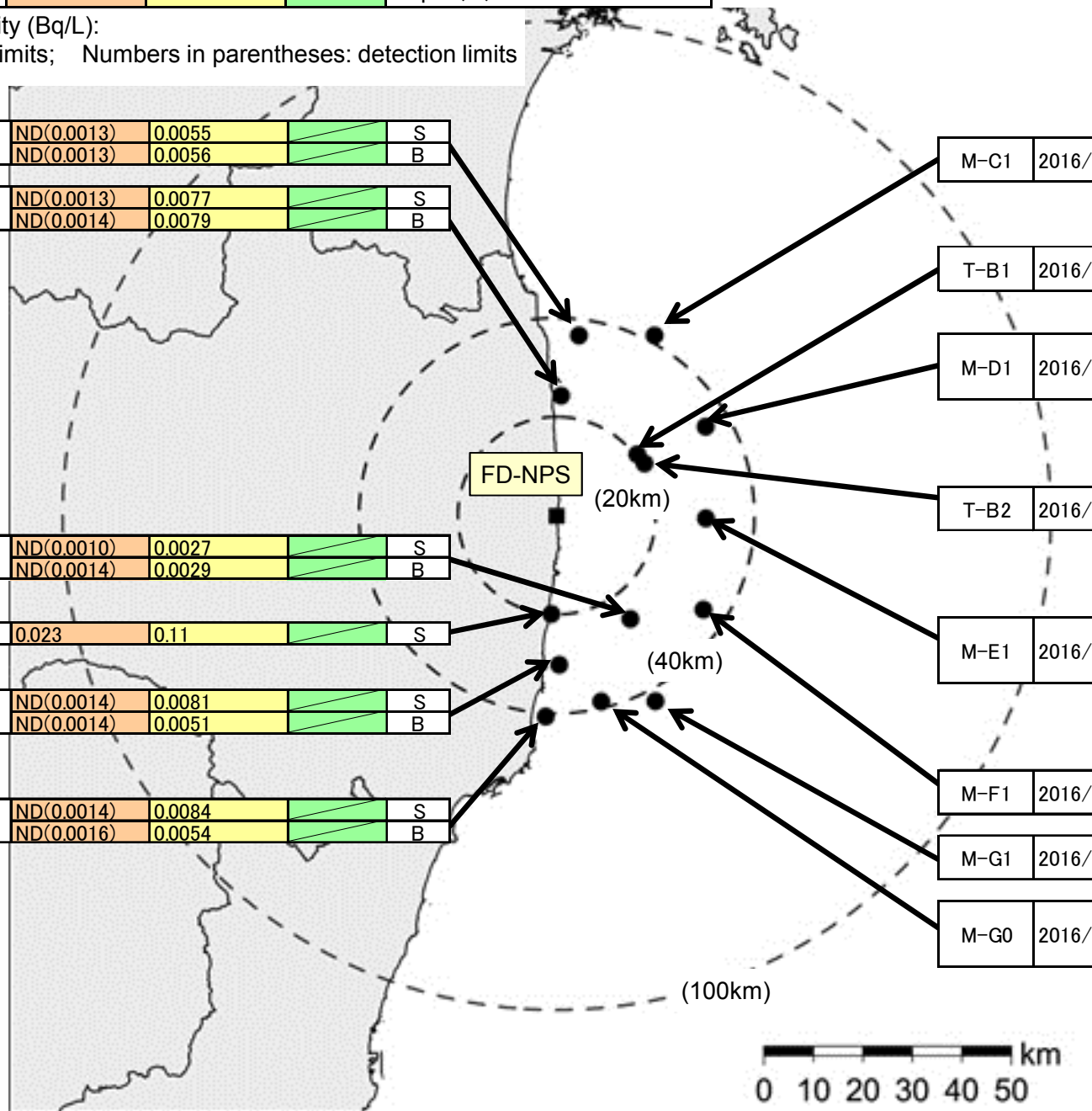
T-12	2016/3/18	ND(0.0014)	0.0081		S
		ND(0.0014)	0.0051		B

M-F1	2016/1/25	0.00015	0.0019		1m
		0.00022	0.0020		133m

T-17-1	2016/3/18	ND(0.0014)	0.0084		S
		ND(0.0016)	0.0054		B

M-G1	2016/1/24	0.00025	0.0023		1m
		0.00022	0.0022		130m

M-G0	2016/1/24	0.00018	0.0024		1m
		0.00035	0.0025		50m
		0.00028	0.0025		100m



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

M-C3	2016/2/1	0.00017	0.0020	0.024	0.091	0.0018	1m
		0.00014	0.0018				50m
		0.00017	0.0019				123m

T-22	2016/3/8	0.0018	0.0041				S
		0.0014	0.0093				B

M-D3	2016/2/1	0.00013	0.0018	0.029	0.076	0.0013	1m
		0.00013	0.0018				100m
		ND(0.00015)	0.0019				211m

M-F3	2016/2/2	0.00019	0.0019	0.023	0.085	0.0015	1m
		ND(0.00015)	0.0018				100m
		ND(0.00014)	0.0017				221m

T-18	2016/3/4	0.0017	0.0098				S
		0.0021	0.0098				B

T-20	2016/3/18	0.0019	0.010				S
		ND(0.0014)	0.0064				B

T-M10	2016/3/4	ND(0.0013)	0.0035				S
		ND(0.0012)	0.0037				B

M-E3	2016/2/2	0.00018	0.0020	0.029	0.097	0.0012	1m
		0.00018	0.0019				100m
		0.00021	0.0019				221m

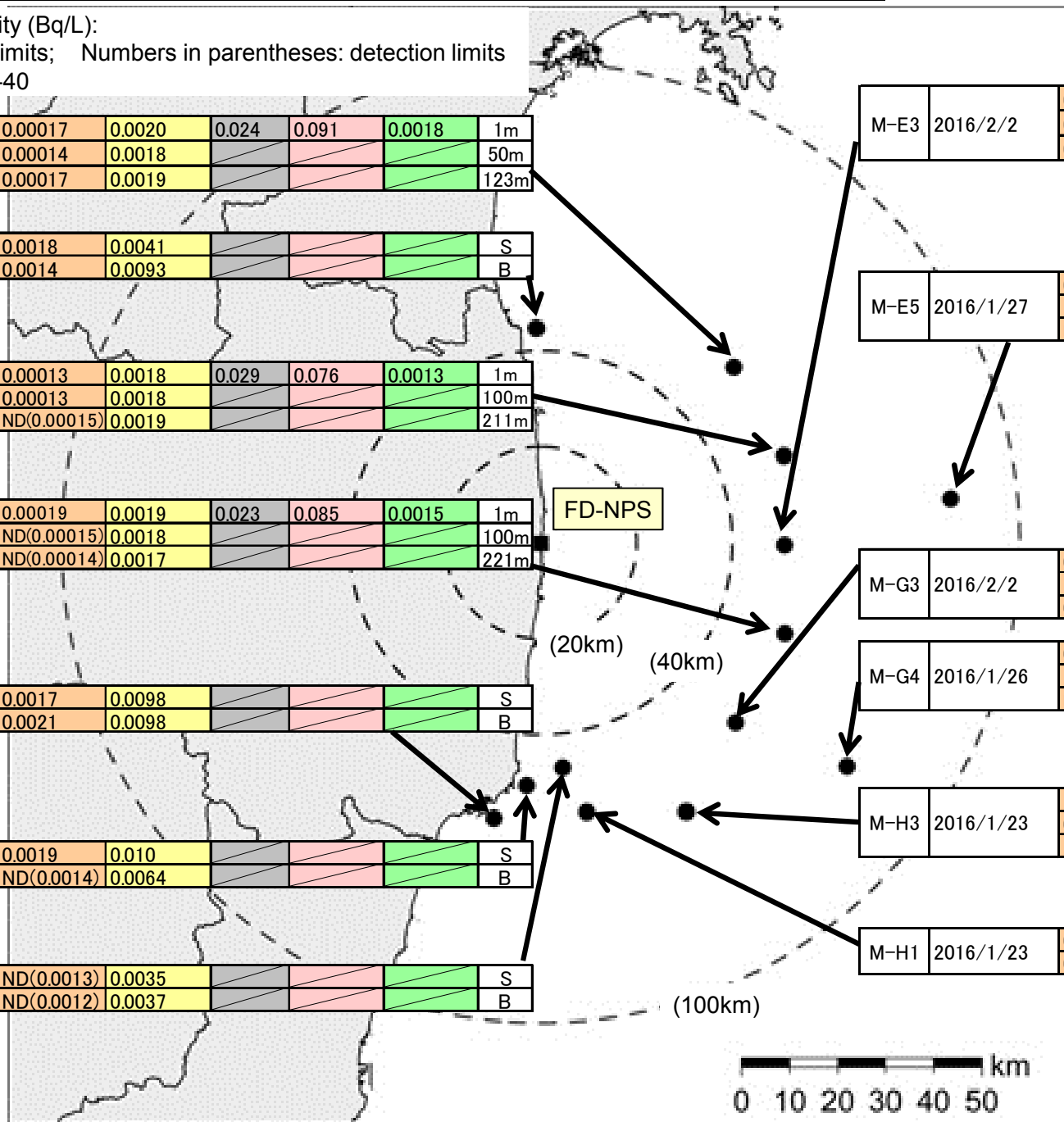
M-E5	2016/1/27	0.00017	0.0021	0.032	0.065	0.0020	1m
		ND(0.00017)	0.0021				100m
		ND(0.000079)	0.00072				520m

M-G3	2016/2/2	0.00018	0.0019	0.025	0.076	0.0015	1m
		ND(0.00015)	0.0020				100m
		0.00017	0.0019				200m

M-G4	2016/1/26	0.00018	0.0019	0.029	0.058	0.0017	1m
		ND(0.00017)	0.0020				100m
		ND(0.000090)	0.00050				645m

M-H3	2016/1/23	ND(0.00016)	0.0020	0.027	0.065	ND(0.00062)	1m
		0.00018	0.0020				100m
		ND(0.00015)	0.0019				224m

M-H1	2016/1/23	0.00039	0.0029				1m
		0.00079	0.0040				125m



Sea area along and off the coast of Miyagi Prefecture

Sampling point	Sampling Date	Cs-134	Cs-137	Sr-90	S/M/B
					Depth(m) from sea level

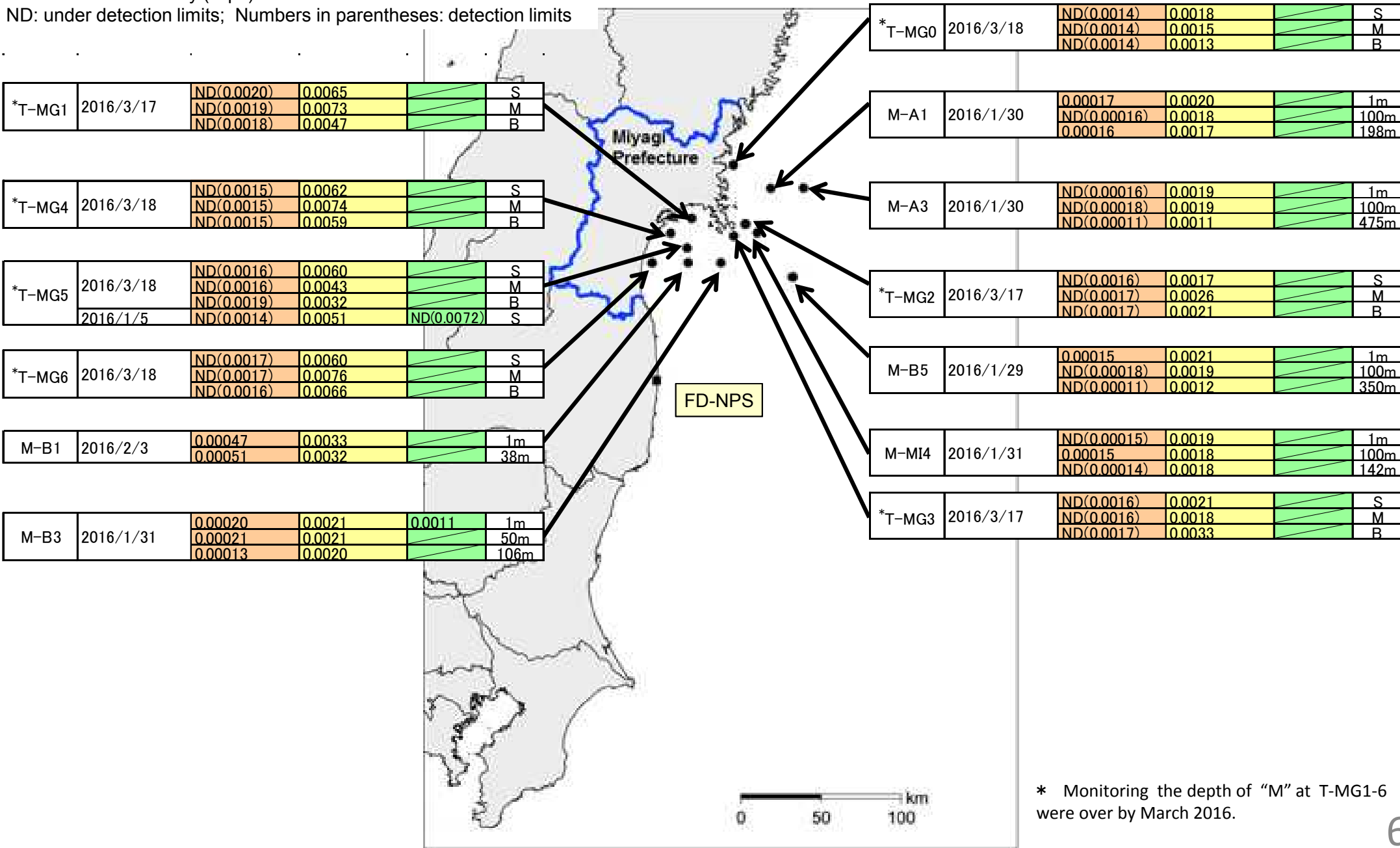
S:2m below sea level

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



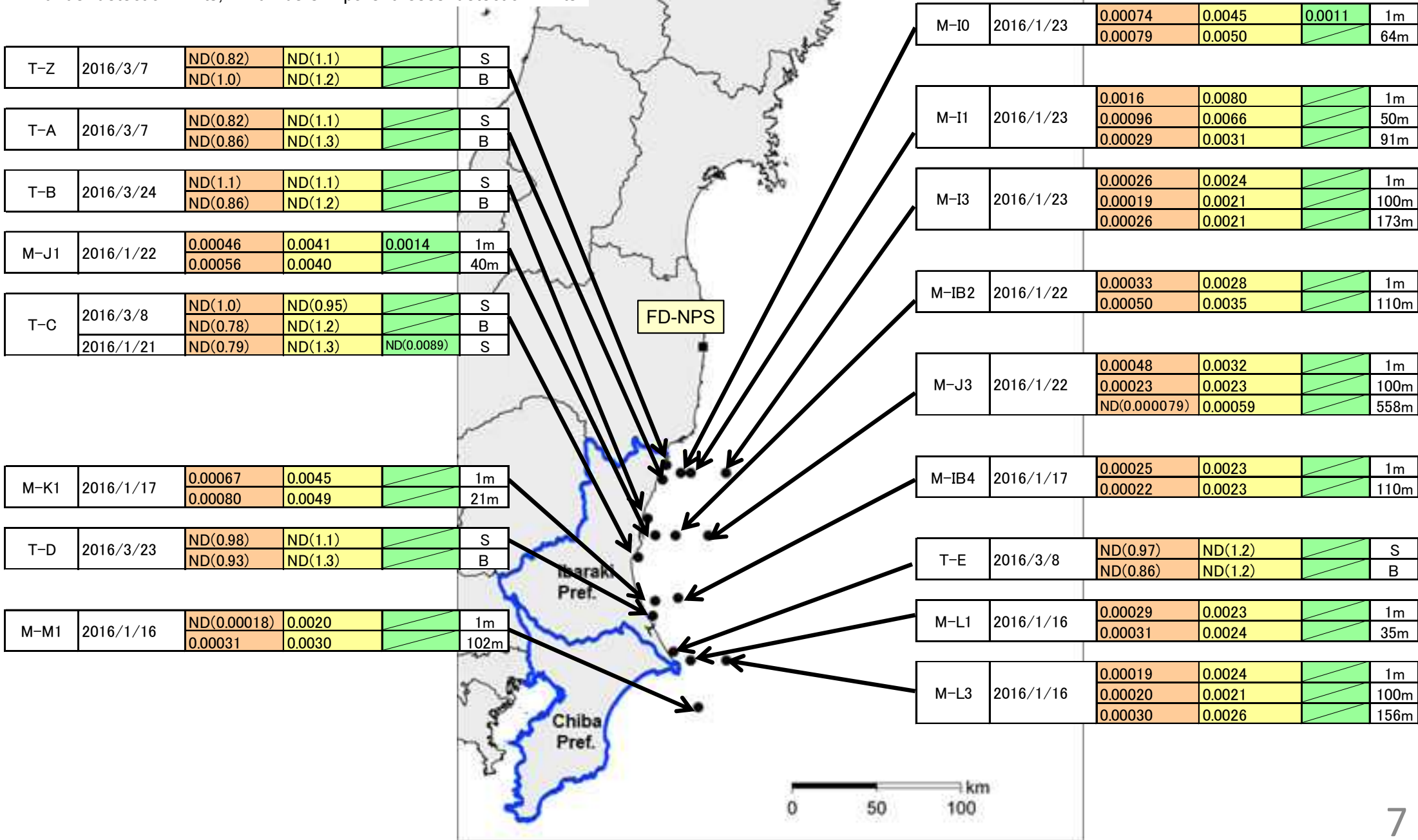
* Monitoring the depth of "M" at T-MG1-6 were over by March 2016.

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	2015/10/21	ND(0.00077)	0.0020	1m
		ND(0.00071)	0.0023	100m
		ND(0.00084)	0.0023	200m
		ND(0.00080)	0.0023	300m
		ND(0.00072)	0.0011	500m

M-11	2015/10/20	ND(0.00064)	0.0023	1m
		ND(0.00063)	0.0025	100m
		ND(0.00061)	0.0022	200m
		ND(0.00059)	0.0018	300m
		ND(0.00061)	0.0012	500m

M-14	2015/10/27	ND(0.00068)	0.0026	1m
		ND(0.00065)	0.0028	100m
		ND(0.00064)	0.0021	200m
		ND(0.00066)	0.0017	300m
		ND(0.00075)	0.00097	500m

M-15	2015/10/20	ND(0.00061)	0.0015	1m
		ND(0.00067)	0.0019	100m
		ND(0.00064)	0.0022	200m
		ND(0.00064)	0.0015	300m
		ND(0.00065)	0.00090	500m

M-19	2015/10/23	ND(0.00061)	0.0019	1m
		ND(0.00066)	0.0028	100m
		ND(0.00063)	0.0023	200m
		ND(0.00056)	0.0018	300m
		ND(0.00070)	0.00096	500m

M-21	2015/10/22	ND(0.00058)	0.0017	1m
		ND(0.00061)	0.0021	100m
		0.00071	0.0033	200m
		ND(0.00063)	0.0027	300m
		ND(0.00061)	0.0012	500m

M-20	2015/10/22	ND(0.00060)	0.0022	1m
		ND(0.00067)	0.0024	100m
		ND(0.00075)	0.0030	200m
		ND(0.00074)	0.0036	300m
		ND(0.00070)	0.0017	500m

M-26	2015/10/24	ND(0.00078)	0.0021	1m
		ND(0.00063)	0.0021	100m
		ND(0.00073)	0.0032	200m
		ND(0.00065)	0.0037	300m
		ND(0.00069)	0.0030	500m

M-25	2015/10/23	ND(0.00067)	0.0019	1m
		ND(0.00066)	0.0022	100m
		ND(0.00070)	0.0032	200m
		ND(0.00064)	0.0020	300m
		ND(0.00062)	0.00093	500m

M-27	2015/10/24	ND(0.00075)	0.0019	1m
		ND(0.00077)	0.0024	100m
		ND(0.00083)	0.0033	200m
		ND(0.00078)	0.0037	300m
		ND(0.00083)	0.0033	500m

