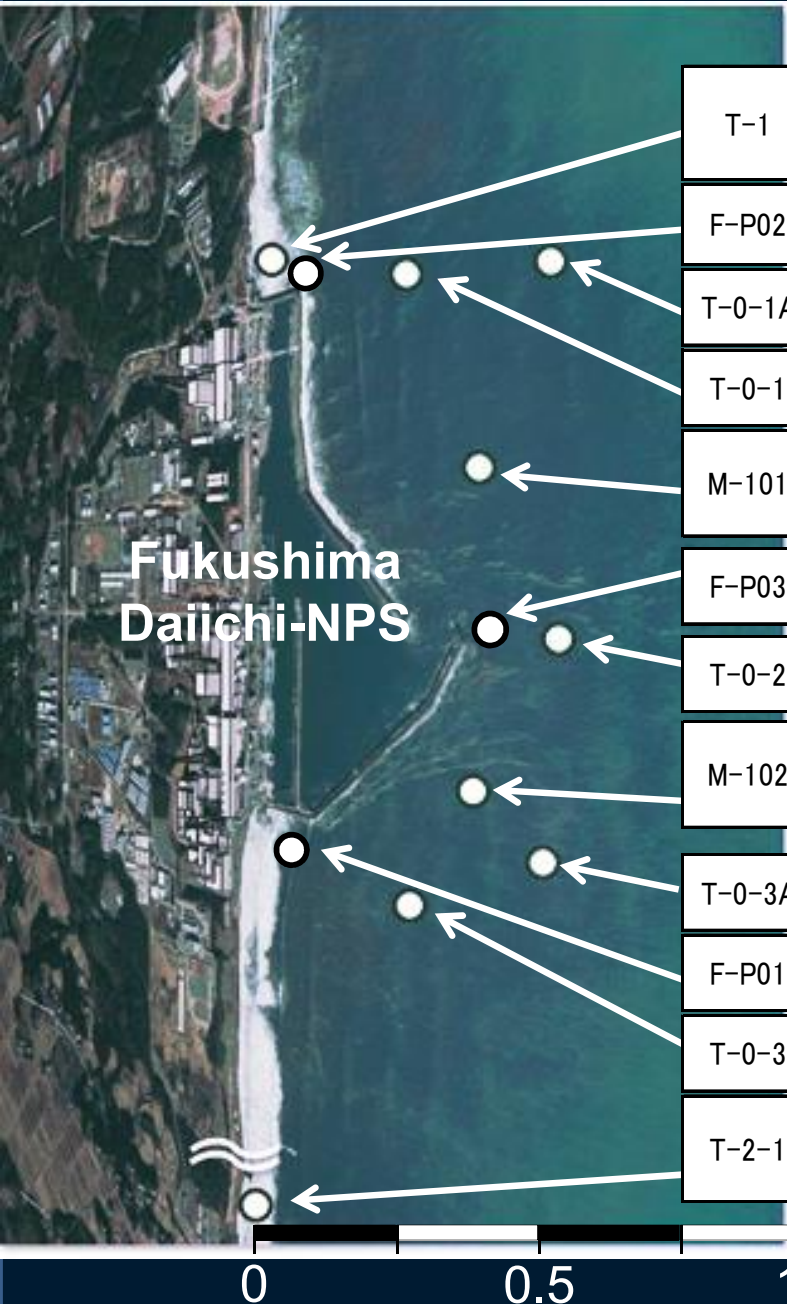


Sea Area Monitoring

March 22, 2016

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
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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	2016/3/7	ND(0.61)	ND(0.59)	11 ^{*1}	ND(1.5)				
	2016/2/1	ND(0.73)	ND(0.72)	14 ^{*1}	ND(1.6)	0.028	ND(1.6)		
	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	2016/3/7	ND(0.62)	ND(0.83)	ND(17) ^{*1}	In progress				
	2016/2/29	ND(0.55)	ND(0.71)	ND(15) ^{*1}	ND(1.6)				
T-0-1	2016/3/7	ND(0.76)	ND(0.60)	ND(17) ^{*1}	In progress				
	2016/2/29	ND(0.71)	ND(0.64)	ND(15) ^{*1}	ND(1.6)				
M-101	2016/1/13	0.011	0.054		0.17	In progress			
	2015/12/9	0.017	0.076		0.14	In progress			
	2015/11/11	0.0073	0.034		0.092	0.0011			
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	2016/3/7	ND(0.67)	ND(0.59)	ND(17) ^{*1}	In progress				
	2016/2/29	ND(0.60)	ND(0.76)	ND(15) ^{*1}	ND(1.6)				
M-102	2016/1/14	0.0050	0.026		0.10	In progress			
	2015/12/10	0.022	0.099		0.29	In progress			
	2015/11/12	0.023	0.11		0.12	0.0032			
T-0-3A	2016/3/7	ND(0.50)	ND(0.82)	ND(17) ^{*1}	In progress				
	2016/2/29	ND(0.58)	ND(0.62)	ND(15) ^{*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	2016/3/7	ND(0.73)	ND(0.73)	ND(17) ^{*1}	In progress				
	2016/2/29	ND(0.71)	ND(0.69)	ND(15) ^{*1}	ND(1.6)				
T-2-1	2016/3/7	ND(0.67)	ND(0.64)	13 ^{*1}	ND(1.5)				
	2016/2/1	ND(0.66)	ND(0.63)	11 ^{*1}	ND(1.6)	ND(0.0062)	ND(1.5)		
	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) $\times 10^{-5}$

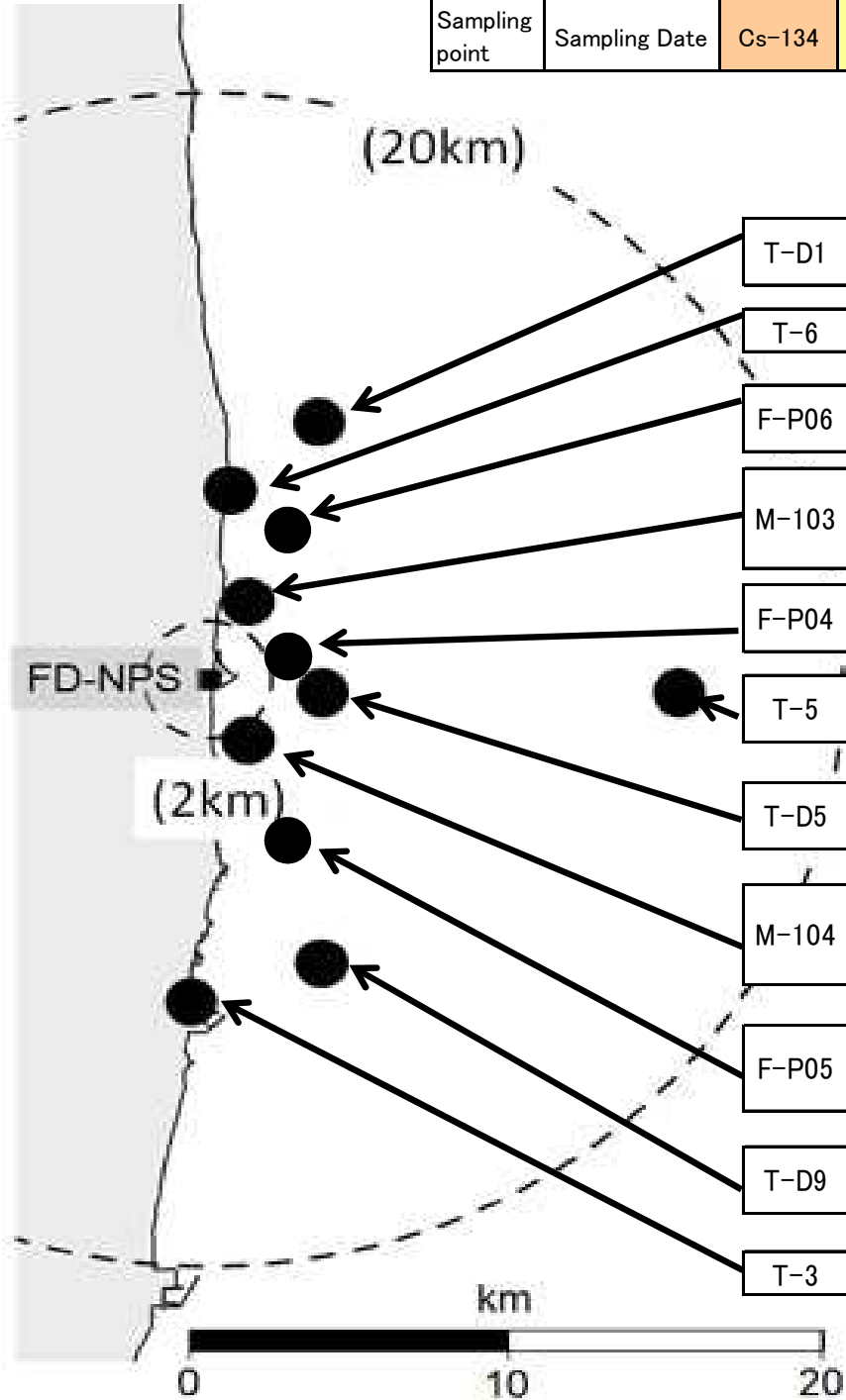
Sea area between 2-20km radius from the NPS (1)

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
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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	2016/2/1	0.0060	0.027	ND(17) ^{*1}	ND(0.31)	ND(0.0080)	ND(1.9)			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	2016/1/21	0.012	0.063	ND(16) ^{*1}	ND(0.37)					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	In progress				0.5m
	2015/12/9	0.011	0.051		0.10	In progress				0.5m
	2015/11/11	0.0042	0.022		0.085	0.0011				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	2016/2/2	ND(0.0012)	0.0039	ND(15) ^{*1}	ND(0.30)	ND(0.0073)	ND(1.9)			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	2016/2/1	0.0027	0.012	ND(17) ^{*1}	ND(0.31)	ND(0.0078)	ND(1.9)			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	In progress				0.5m
	2015/12/10	0.0045	0.022		0.061	In progress				0.5m
	2015/11/12	0.0066	0.029		0.11	0.00099				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	2016/2/1	0.0019	0.0097	ND(17) ^{*1}	ND(0.31)	ND(0.0082)	ND(1.9)			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	2016/1/21	0.026	0.11	ND(17) ^{*1}	ND(0.37)					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	2016/2/18	ND(0.0015)	0.0079	S
		0.0030	0.017	B

T-14	2016/2/16	0.0015	0.0079	S
		0.0020	0.0089	B

T-D1	2016/2/16	0.0029	0.014	S
		0.0025	0.012	B

T-6	2016/2/16	0.012	0.047	S
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T-S8	2016/2/7	0.0026	0.013	S
		0.0017	0.011	B

T-3	2016/2/16	0.012	0.049	S
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T-S7	2016/2/9	0.0050	0.022	S
		0.0038	0.017	B

T-S5	2016/2/9	0.0035	0.022	S
		0.0033	0.018	B

T-S3	2016/2/16	0.0028	0.0086	S
		0.0051	0.028	B

T-S4	2016/2/16	ND(0.0014)	0.010	S
		0.0027	0.013	B

T-D5	2016/2/16	0.0023	0.011	S
		0.0048	0.019	B

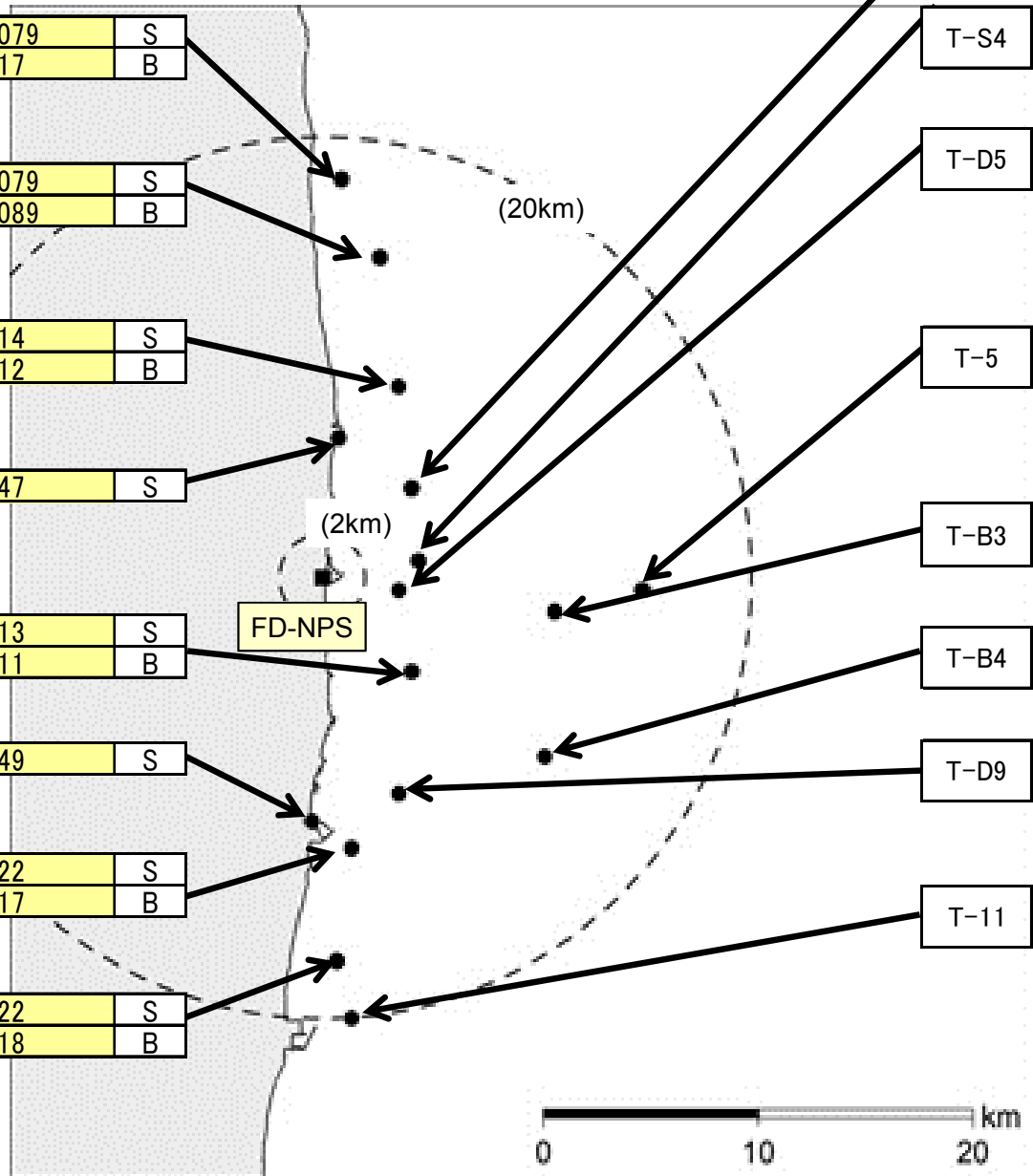
T-5	2016/2/18	ND(0.0014)	0.0047	S
		ND(0.0013)	0.0054	B

T-B3	2016/2/12	0.0013	0.0047	S
		0.0017	0.0053	B

T-B4	2016/2/12	ND(0.0013)	0.0054	S
		ND(0.0014)	0.0052	B

T-D9	2016/2/18	0.0027	0.013	S
		0.0055	0.022	B

T-11	2016/2/18	0.0027	0.015	S
		ND(0.0051)	0.012	B

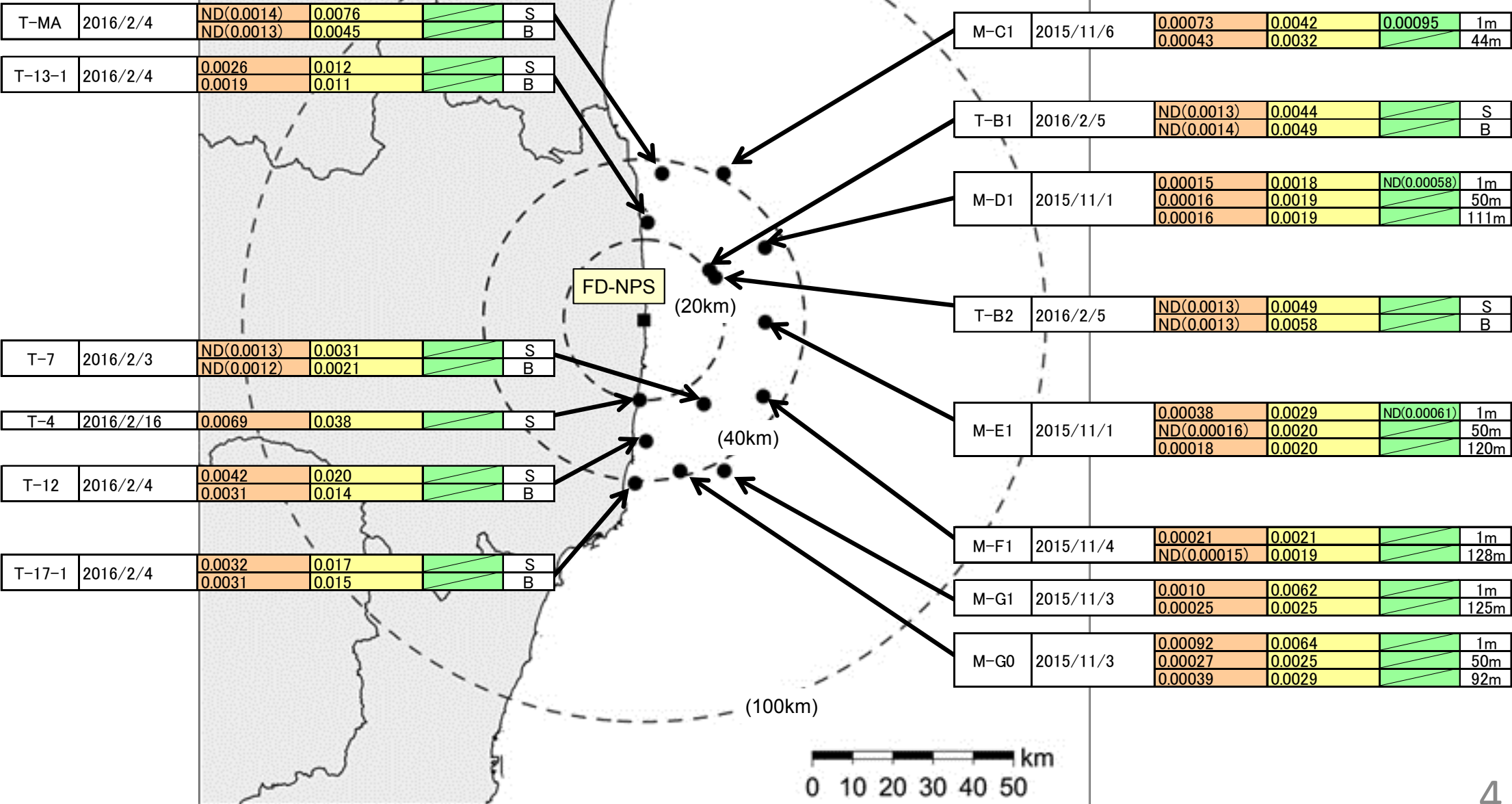


Sea area between 20-100km radius from the NPS(1)

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



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
							S/B	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	2016/2/1	In progress	In progress	0.024	In progress	In progress	1m
	2015/10/31	ND(0.00016)	0.0019	0.028	0.088	0.0011	1m
		0.00015	0.0018				50m
		0.00014	0.0018				120m

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-22	2016/2/4	ND(0.0014)	0.0065				S
		0.0013	0.0064				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-D3	2016/2/1	In progress	In progress	0.029	In progress	In progress	1m
	2015/10/31	ND(0.00016)	0.0020	0.028	0.073	ND(0.00056)	1m
		0.00020	0.0018				100m
		0.00018	0.0017			204m	

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-F3	2016/2/2	In progress	In progress	0.023	In progress	In progress	1m
	2015/11/4	ND(0.00015)	0.0020	0.028	0.091	0.00096	1m
		0.00021	0.0023				100m
		0.00018	0.0023			213m	

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-18	2016/2/3	0.0037	0.020				S
		0.0051	0.023				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-20	2016/2/4	0.0036	0.020				S
		0.0031	0.018				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
T-M10	2016/2/3	ND(0.0012)	0.0059				S
		ND(0.0013)	0.0028				B

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-E3	2016/2/2	In progress	In progress	0.029	In progress	In progress	1m
	2015/11/4	0.00016	0.0021	0.027	0.076	ND(0.00053)	1m
		ND(0.00014)	0.0017				100m
		ND(0.00012)	0.0017			209m	

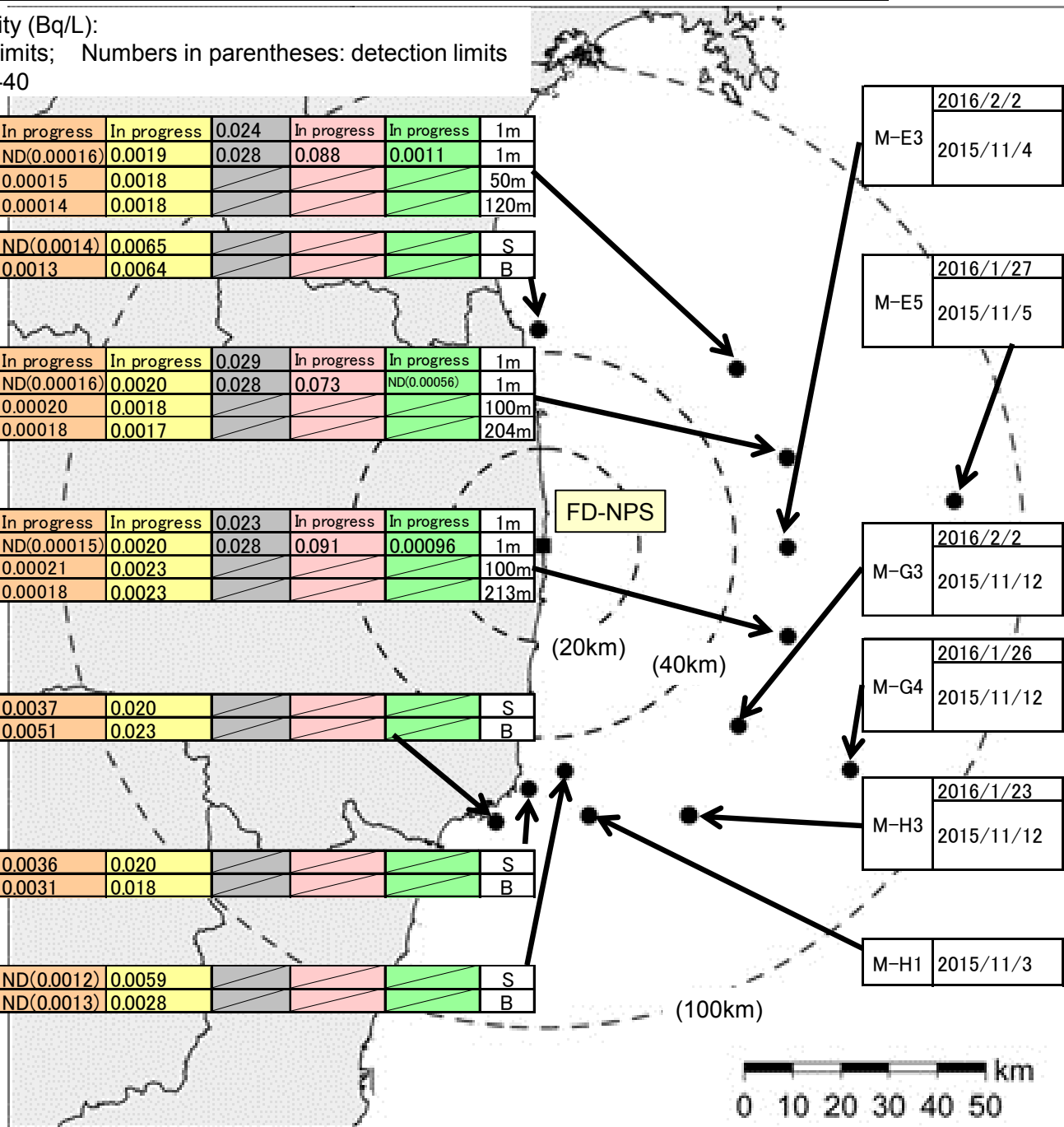
Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-E5	2016/1/27	In progress	In progress	0.032	In progress	In progress	1m
	2015/11/5	ND(0.00013)	0.0019	0.035	0.069	0.00095	1m
		0.00024	0.0024				100m
		ND(0.000077)	0.00066			512m	

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-G3	2016/2/2	In progress	In progress	0.025	In progress	In progress	1m
	2015/11/12	0.00025	0.0021	0.032	0.080	0.00095	1m
		0.00016	0.0019				100m
		0.00022	0.0021			188m	

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-G4	2016/1/26	In progress	In progress	0.029	In progress	In progress	1m
	2015/11/12	ND(0.00015)	0.0019	0.030	0.072	0.00088	1m
		ND(0.00015)	0.0019				100m
		ND(0.000083)	0.00055			645m	

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-H3	2016/1/23	In progress	In progress	0.027	In progress	In progress	1m
	2015/11/12	0.00024	0.0024	0.030	0.087	0.0010	1m
		0.00015	0.0017				100m
		0.00027	0.0024			216m	

Sampling point	Sampling Date	Cs-134	Cs-137	Total β*	H-3	Sr-90	Depth
M-H1	2015/11/3	0.00030	0.0023				1m
		0.00014	0.0021				120m

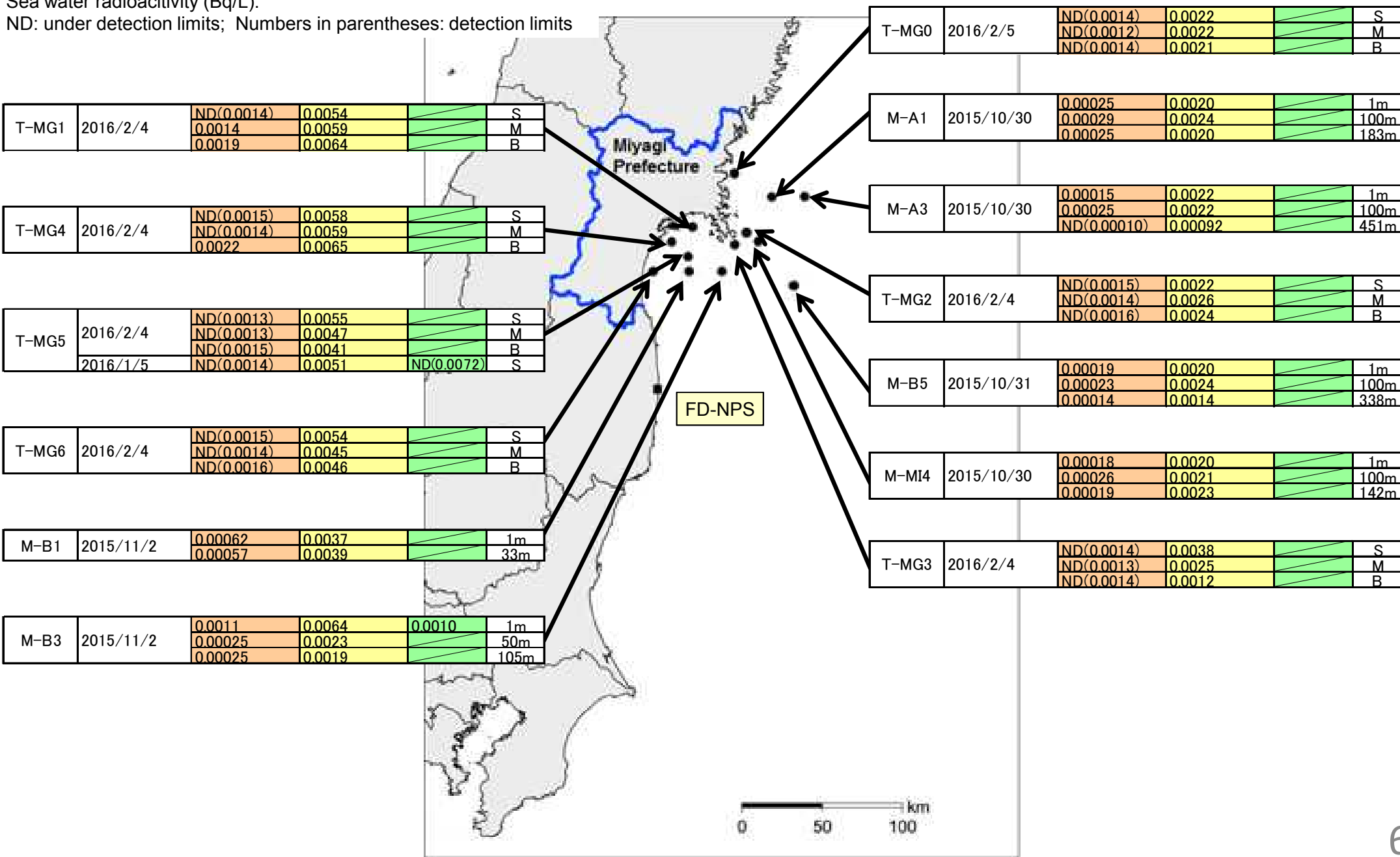


Sea area along and off the coast of Miyagi Prefecture

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

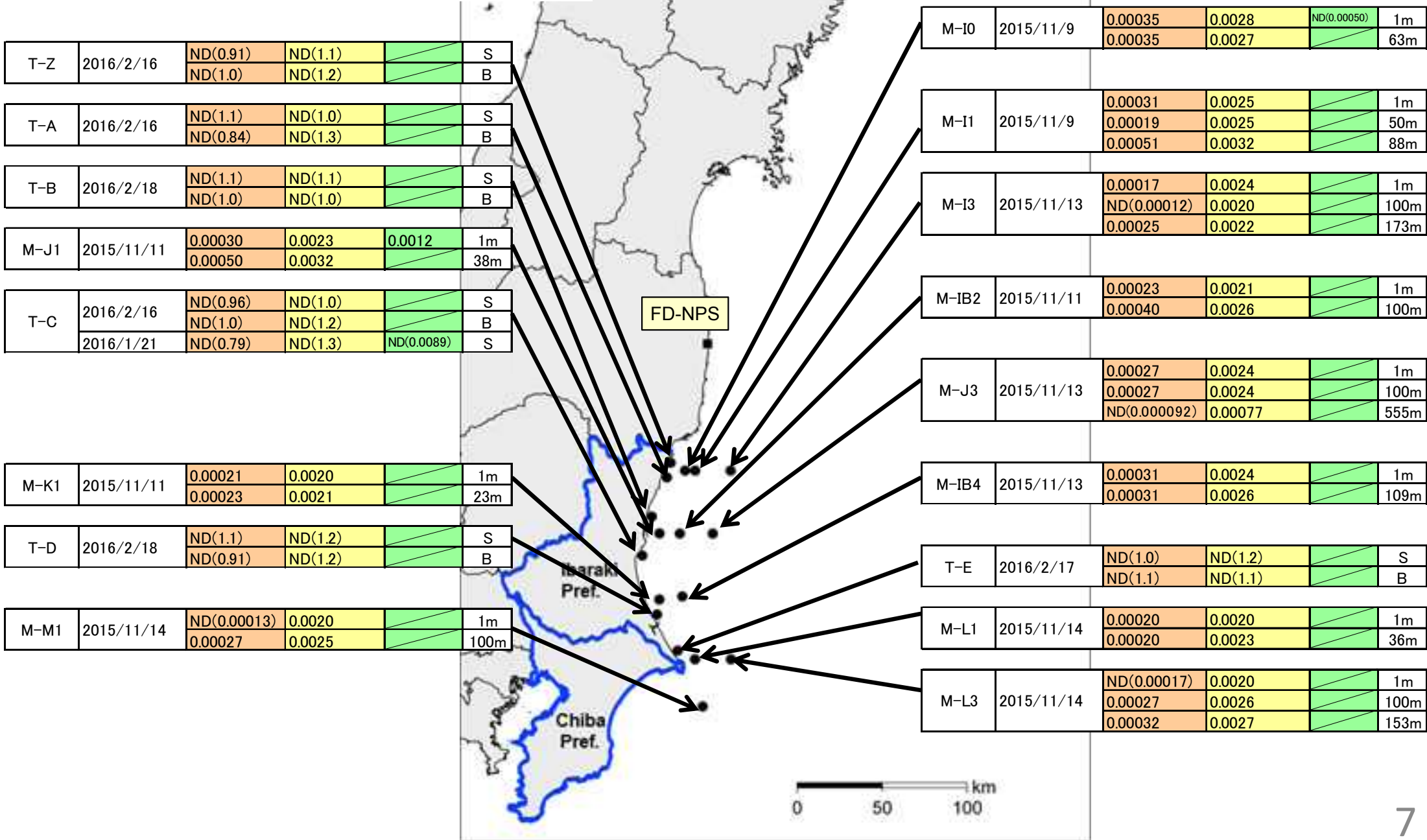


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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	2015/10/21	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

