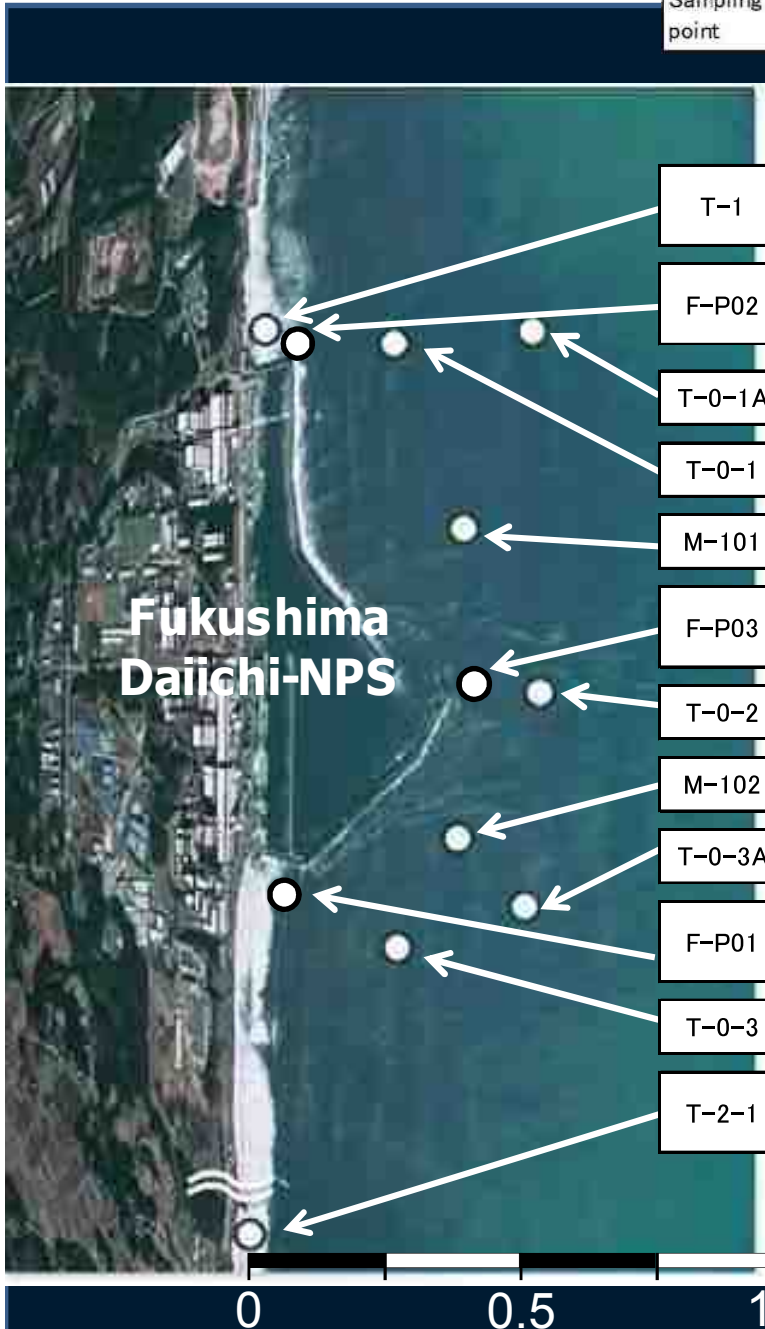


Sea Area Monitoring

February 10, 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+Pu-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	2015/1/26	ND(0.73)	ND(0.75)	15 ^{*1}	ND(1.5)				
	2014/12/8	ND(0.81)	0.77	9.9 ^{*1}	1.9	0.13	ND(1.5)		
	2014/10/21	ND(0.69)	ND(0.83)					ND(5.1×10^{-6})	ND(7×10^{-6})
F-P02	2014/12/8	ND(0.060)	0.095	0.06 ^{*2}	ND(0.43)	In progress		In progress	In progress
	2014/11/10	0.066	0.18	0.04 ^{*2}	ND(0.43)	0.039		In progress	In progress
	2014/10/20	ND(0.056)	ND(0.054)	0.04 ^{*2}	ND(0.45)	0.012		ND(7×10^{-6})	ND(7×10^{-6})
T-0-1A	2015/1/26	ND(0.70)	ND(0.74)	ND(15) ^{*1}	In progress				
	2015/1/20	ND(0.65)	ND(0.59)	ND(17) ^{*1}	ND(1.5)				
T-0-1	2015/1/26	ND(0.44)	ND(0.70)	ND(15) ^{*1}	In progress				
	2015/1/20	ND(0.60)	ND(0.68)	ND(17) ^{*1}	ND(1.5)				
M-101	2014/12/9	0.018	0.062		0.15	In progress			
	2014/11/6	0.021	0.070		0.18	0.0087			
F-P03	2014/12/8	ND(0.065)	ND(0.062)	0.05 ^{*2}	ND(0.43)	In progress		In progress	In progress
	2014/11/10	0.13	0.36	0.17 ^{*2}	1.7	0.14		In progress	In progress
	2014/10/20	0.11	0.33	0.08 ^{*2}	0.61	0.12		ND(7×10^{-6})	ND(8×10^{-6})
T-0-2	2015/1/26	ND(0.76)	ND(0.67)	ND(15) ^{*1}	In progress				
	2015/1/20	ND(0.43)	ND(0.72)	ND(17) ^{*1}	ND(1.5)				
M-102	2014/12/10	0.057	0.18		0.31	In progress			
	2014/11/5	0.015	0.047		0.11	0.0036			
T-0-3A	2015/1/26	ND(0.87)	ND(0.78)	ND(15) ^{*1}	In progress				
	2015/1/20	ND(0.74)	ND(0.71)	ND(17) ^{*1}	ND(1.5)				
F-P01	2014/12/8	ND(0.067)	0.091	0.06 ^{*2}	ND(0.43)	In progress		In progress	In progress
	2014/11/10	ND(0.065)	0.098	0.03 ^{*2}	0.48	0.006		In progress	In progress
	2014/10/20	ND(0.067)	0.054	0.04 ^{*2}	ND(0.45)	0.011		ND(6×10^{-6})	ND(8×10^{-6})
T-0-3	2015/1/26	ND(0.77)	ND(0.65)	ND(15) ^{*1}	In progress				
	2015/1/20	ND(0.94)	ND(0.65)	ND(17) ^{*1}	ND(1.5)				
T-2-1	2015/1/26	ND(0.79)	ND(0.60)	13 ^{*1}	ND(1.5)				
	2014/12/8	ND(0.67)	ND(0.64)	12 ^{*1}	1.8	0.013	ND(1.5)		
	2014/10/21	ND(0.81)	1.1	11 ^{*1}				ND(5.3×10^{-6})	(1.2 ± 0.25) $\times 10^{-5}$

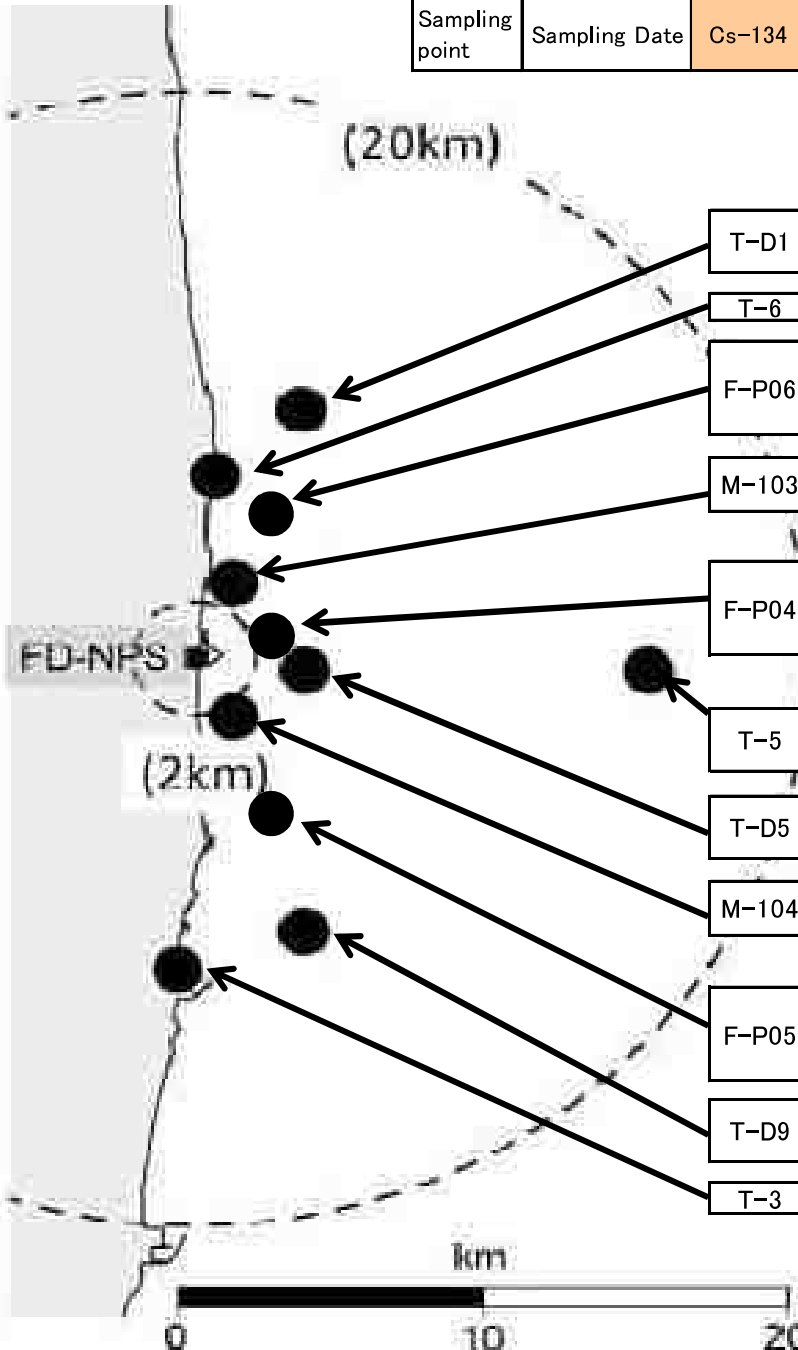
Sea area between 2-20km radius from the NPS (1)

Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+Pu-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



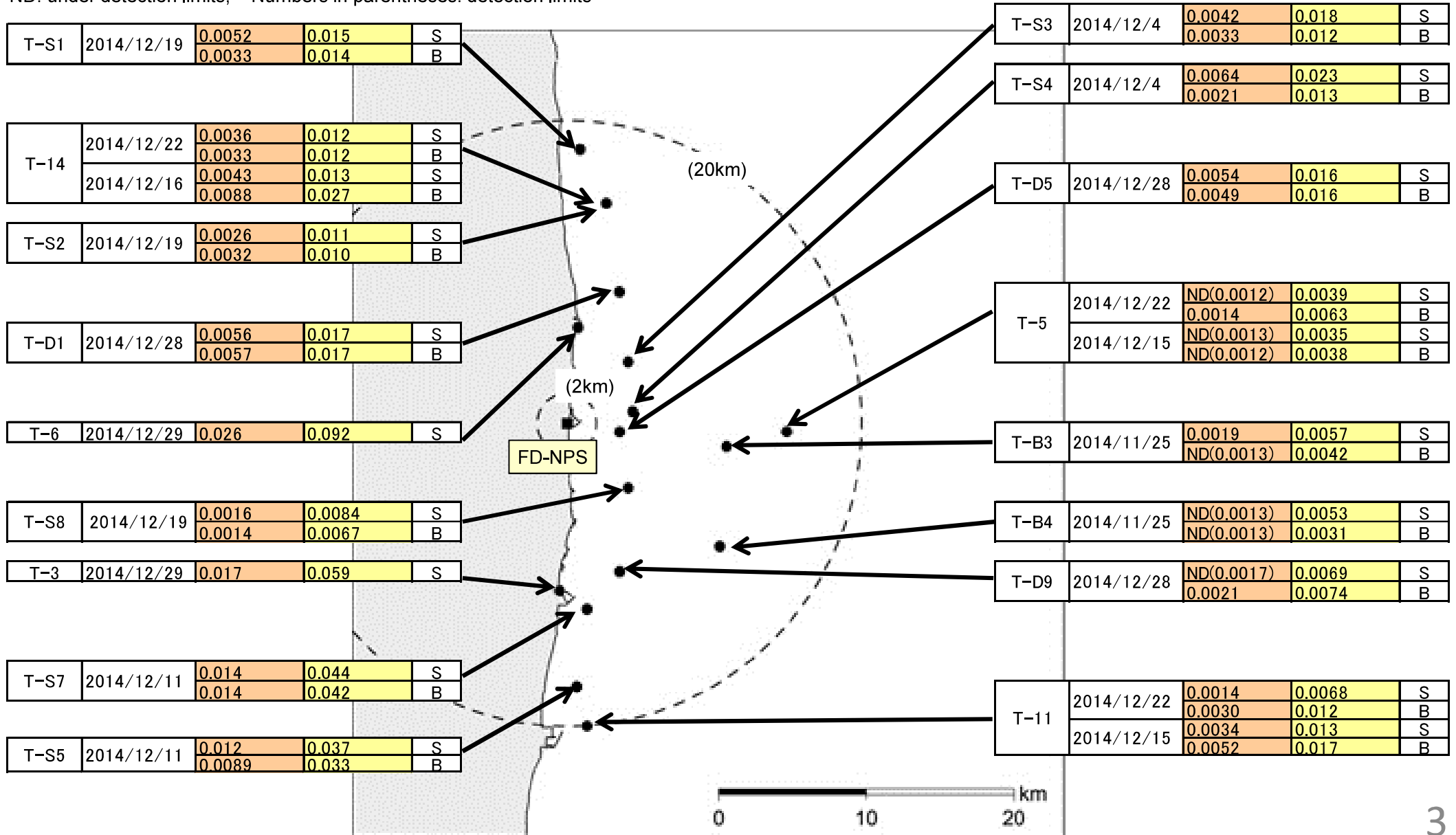
T-D1	2014/12/6	0.0020	0.0094	ND(17)*1	ND(0.31)	ND(0.0085)	ND(1.6)			S
	2014/10/8	0.022	0.070					ND(6.2 × 10 ⁻⁶)	(5.5 ± 1.7) × 10 ⁻⁶	S
T-6	2014/12/2	0.045	0.13	ND(17)*1	ND(0.34)					S
F-P06	2014/12/8	ND(0.070)	ND(0.064)	0.03*2	ND(0.43)	In progress		In progress	In progress	S
	2014/11/10	ND(0.065)	ND(0.065)	0.03*2	ND(0.43)	0.001		In progress	In progress	S
	2014/10/20	ND(0.056)	ND(0.049)	0.03*2	ND(0.45)	0.001		ND(6 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)	S
M-103	2014/12/9	0.010	0.035		0.093	In progress				0.5m
	2014/11/6	0.0094	0.035		0.12	0.0025				0.5m
F-P04	2014/12/8	ND(0.058)	0.13	0.04*2	ND(0.43)	In progress		In progress	In progress	S
	2014/11/10	ND(0.080)	ND(0.054)	0.03*2	ND(0.42)	0.005		In progress	In progress	S
	2014/10/20	ND(0.062)	0.092	0.03*2	ND(0.45)	0.016		ND(6 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)	S
T-5	2014/12/4	ND(0.0013)	0.0043	ND(15)*1	ND(0.31)	ND(0.0095)	ND(1.6)			S
	2014/10/18	ND(0.0013)	0.0026					ND(5.4 × 10 ⁻⁶)	(6.6 ± 1.8) × 10 ⁻⁶	S
T-D5	2014/12/6	0.0057	0.017	ND(17)*1	ND(0.31)	ND(0.0086)	ND(1.6)			S
	2014/10/8	0.024	0.067					ND(6.1 × 10 ⁻⁶)	(8.4 ± 2.2) × 10 ⁻⁶	S
M-104	2014/12/10	0.0081	0.028		0.090	In progress				0.5m
	2014/11/5	0.0096	0.035		0.12	0.0039				0.5m
F-P05	2014/12/8	ND(0.057)	ND(0.065)	0.03*2	ND(0.44)	In progress		In progress	In progress	S
	2014/11/10	ND(0.066)	ND(0.060)	0.03*2	ND(0.42)	0.004		In progress	In progress	S
	2014/10/20	ND(0.062)	ND(0.058)	0.03*2	ND(0.45)	0.003		ND(7 × 10 ⁻⁶)	ND(7 × 10 ⁻⁶)	S
T-D9	2014/12/4	0.0036	0.012	ND(15)*1	ND(0.31)	ND(0.0098)	ND(1.6)			S
	2014/10/18	0.012	0.036					ND(4.8 × 10 ⁻⁶)	(5.0 ± 1.6) × 10 ⁻⁶	S
T-3	2014/12/2	0.040	0.14	ND(16)*1	ND(0.32)					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):

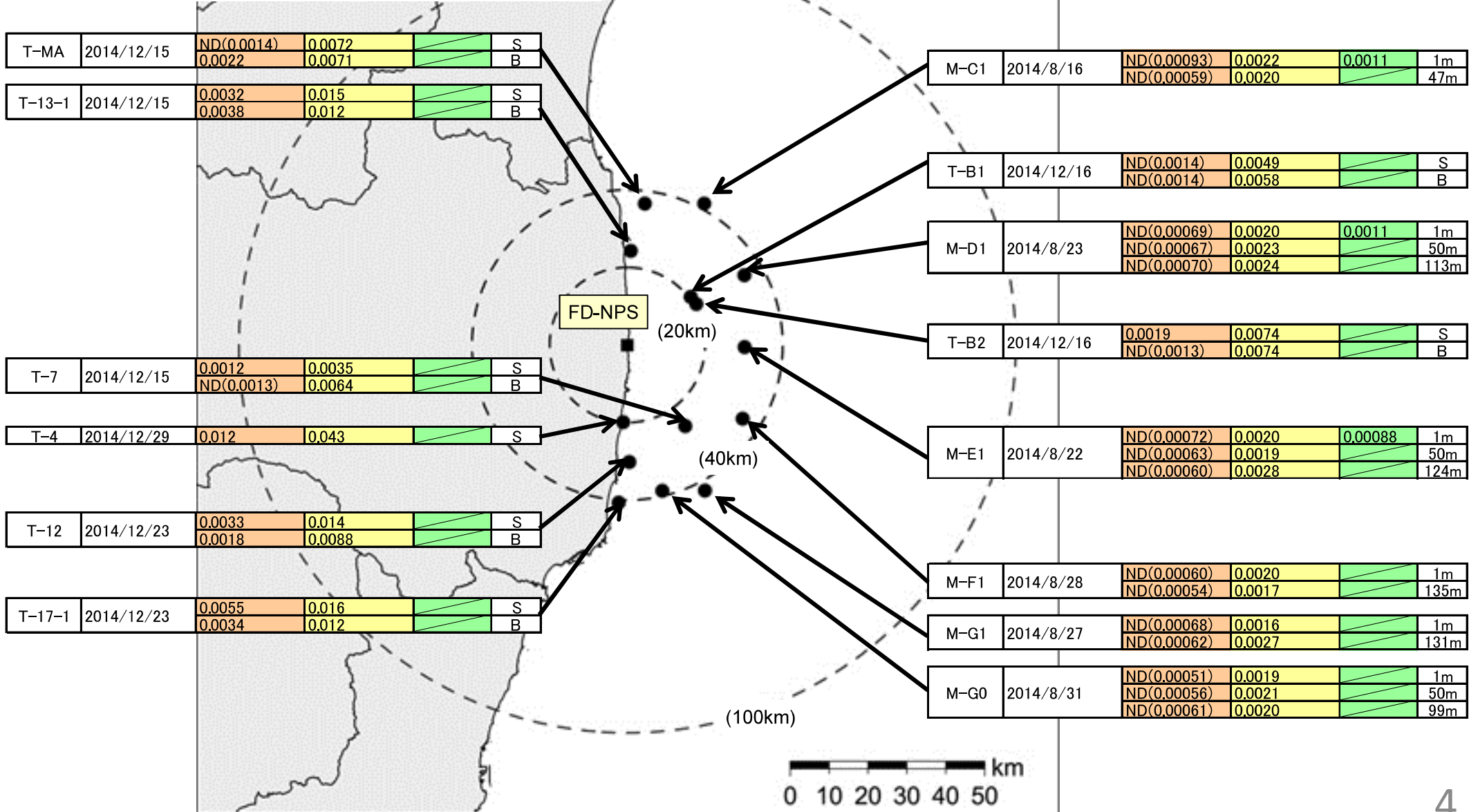
ND: under detection limits; Numbers in parentheses: detection limits



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



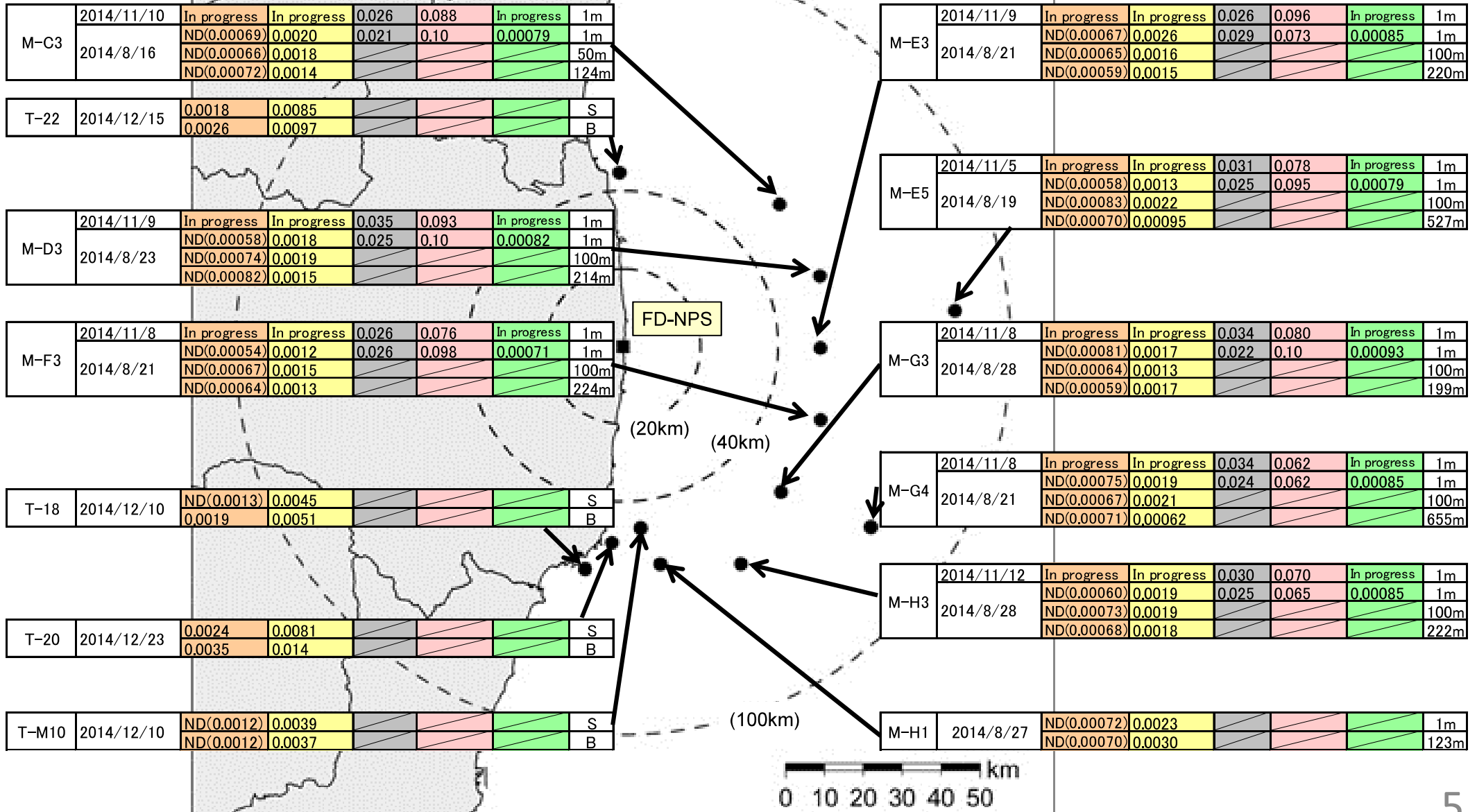
Sea area between 20-100km radius from the NPS(2)

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
					Depth(m) from sea level

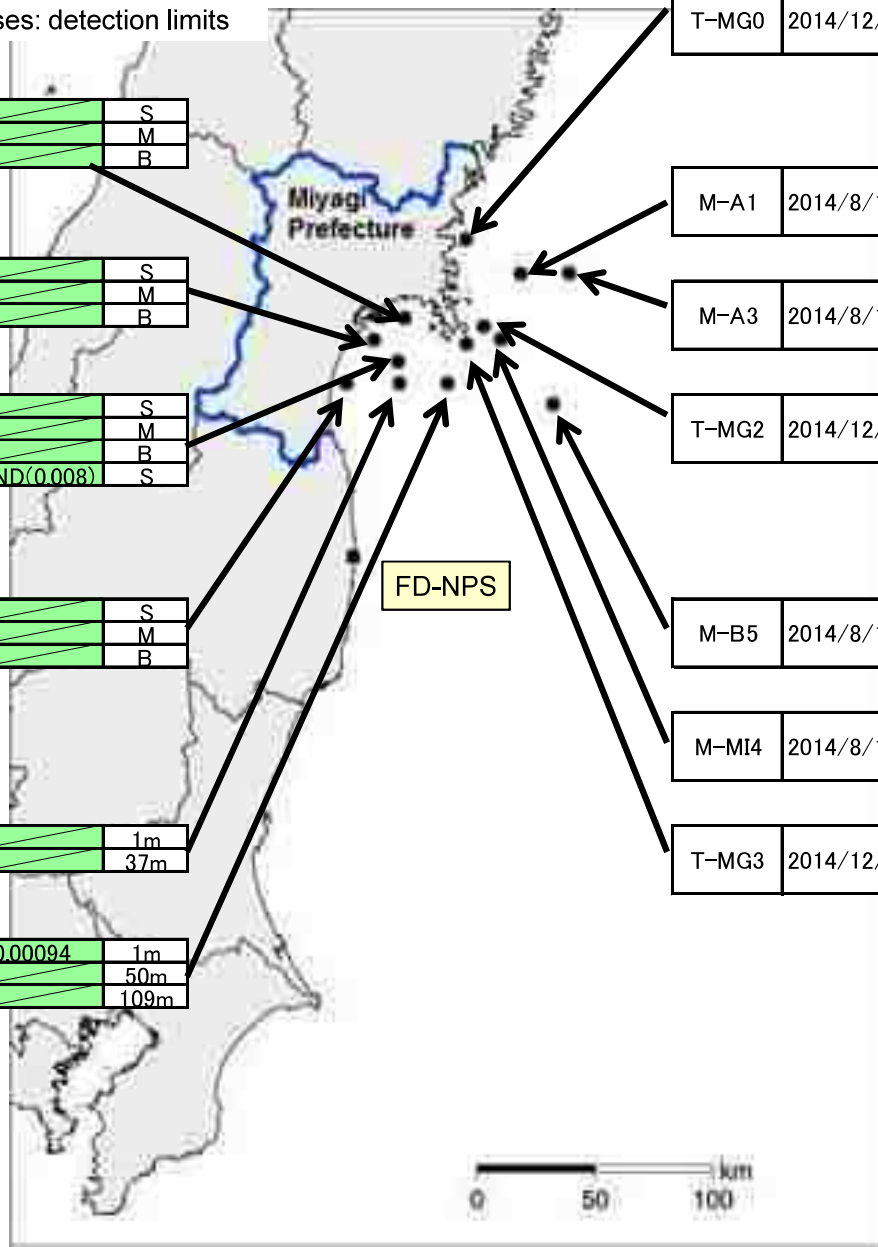
S:2m below sea level

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



T-MG1	2014/12/19	0.0020	0.0074		S
		ND(0.0019)	0.0086		M
		0.0030	0.0073		B

T-MG4	2014/12/16	ND(0.0017)	0.0071		S
		ND(0.0021)	0.0074		M
		0.0018	0.0064		B

T-MG5	2014/12/16	ND(0.0017)	0.0043		S
		ND(0.0018)	0.0050		M
		ND(0.0019)	0.0055		B
	2014/11/5	0.0021	0.0070	ND(0.008)	S

T-MG6	2014/12/16	0.0015	0.0064		S
		0.0023	0.0065		M
		ND(0.0016)	0.0045		B

M-B1	2014/8/16	0.00092	0.0035		1m
		ND(0.00055)	0.0024		37m

M-B3	2014/8/17	ND(0.00061)	0.0017	0.00094	1m
		ND(0.00059)	0.0017		50m
		ND(0.00065)	0.0019		109m

T-MG0	2014/12/16	ND(0.0018)	0.0020		S
		ND(0.0017)	0.0024		M
		ND(0.0018)	0.0024		B

M-A1	2014/8/18	ND(0.00051)	0.0018		1m
		ND(0.00057)	0.0016		100m
		ND(0.00052)	0.0015		195m

M-A3	2014/8/18	ND(0.00060)	0.0018		1m
		ND(0.00052)	0.0013		100m
		ND(0.00053)	0.00073		482m

T-MG2	2014/12/19	ND(0.0013)	0.0020		S
		ND(0.0012)	0.0020		M
		ND(0.0013)	0.0019		B

M-B5	2014/8/19	ND(0.00068)	0.0018		1m
		ND(0.00069)	0.0013		100m
		ND(0.00068)	0.00082		351m

M-MI4	2014/8/18	ND(0.00063)	0.0017		1m
		ND(0.00063)	0.0019		100m
		ND(0.00065)	0.0018		145m

T-MG3	2014/12/19	ND(0.0013)	0.0026		S
		ND(0.0014)	0.0028		M
		ND(0.0013)	0.0024		B

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

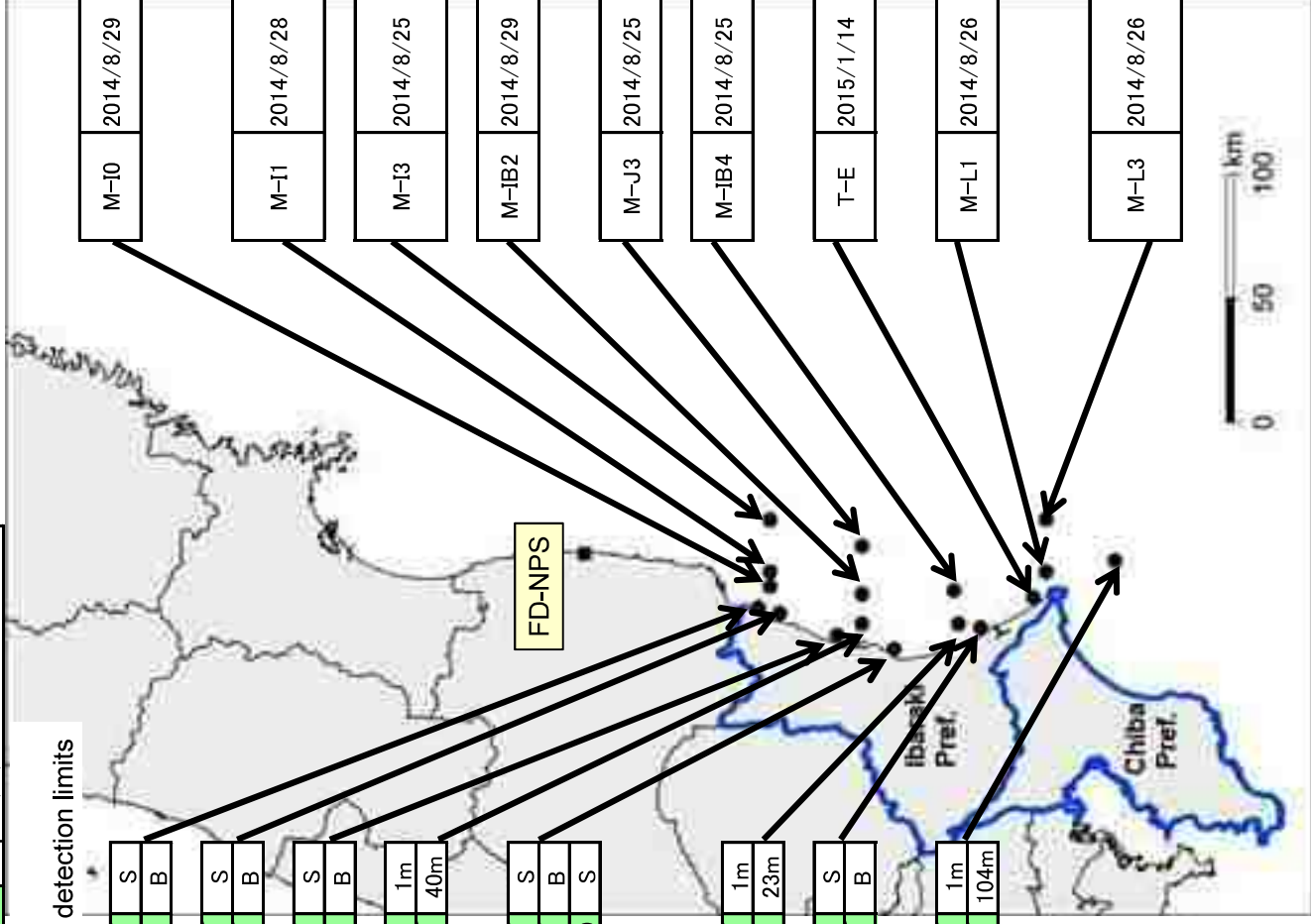
Sampling point	Sampling Date	Cs-134		Cs-137		Sr-90	
		S/B	S/B	S/B	S/B	S/B	S/B
		S:2m below sea level		S:2m below sea level		B:2-3m above sea bottom	
		Depth(m) from sea level					

Sea water radioactivity (Bq/L):

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

T-Z	2015/1/13	ND(1.0)	ND(1.0)	S
		ND(1.1)	ND(1.1)	B
T-A	2015/1/13	ND(0.94)	ND(1.2)	S
		ND(1.1)	ND(1.2)	B
T-B	2015/1/15	ND(0.99)	ND(1.0)	S
		ND(0.93)	ND(1.1)	B
M-J1	2014/8/30	0.00080	0.0033	1m
		ND(0.00071)	0.0024	40m
T-C	2015/1/14	ND(1.1)	ND(1.2)	S
	2014/11/12	ND(0.90)	ND(1.1)	B
		ND(1.2)	ND(1.3)	S
M-K1	2014/8/29	ND(0.00083)	0.0029	1m
		ND(0.00075)	0.0027	23m
T-D	2015/1/15	ND(1.2)	ND(1.1)	S
		ND(1.3)	ND(1.1)	B
M-M1	2014/8/26	ND(0.00069)	0.0027	1m
		ND(0.00061)	0.0029	104m

M-I0	2014/8/29	0.00087	0.0046	0.0011	1m
		0.00099	0.0053		65m
M-I1	2014/8/28	ND(0.00071)	0.0031		1m
		0.00088	0.0037		50m
		0.0012	0.0045		92m
M-I3	2014/8/25	ND(0.00065)	0.0014		1m
		ND(0.00058)	0.0019		100m
		ND(0.00064)	0.0017		176m
M-IB2	2014/8/29	ND(0.00064)	0.0026		1m
		ND(0.00069)	0.0029		108m
M-J3	2014/8/25	ND(0.00061)	0.0017		1m
		ND(0.00058)	0.00089		561m
M-IB4	2014/8/25	ND(0.00083)	0.0017		1m
		ND(0.00079)	0.0027		111m
T-E	2015/1/14	ND(1.1)	ND(1.0)	S	
		ND(0.84)	ND(1.2)	B	
M-L1	2014/8/26	0.0012	0.0038	1m	
		ND(0.00078)	0.0032	36m	
M-L3	2014/8/26	ND(0.00068)	0.0022	1m	
		ND(0.00058)	0.0024	100m	
		ND(0.00055)	0.0018	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	2014/10/22	ND(0.00073)	0.0018	1m
		ND(0.00061)	0.0017	103m
		ND(0.00065)	0.0013	200m
		ND(0.00066)	0.0010	301m
		ND(0.00061)	0.00060	498m

M-14	2014/10/24	ND(0.00065)	0.0023	1m
		0.00064	0.0028	100m
		ND(0.00061)	0.0017	200m
		ND(0.00071)	0.0012	300m
		ND(0.00067)	0.00073	500m

M-19	2014/10/28	ND(0.00058)	0.0018	1m
		ND(0.00052)	0.0027	100m
		0.0013	0.0045	200m
		ND(0.00063)	0.0034	300m
		ND(0.00055)	0.0017	500m

M-20	2014/10/29	ND(0.00066)	0.0016	1m
		ND(0.00062)	0.0027	100m
		0.0016	0.0046	200m
		ND(0.00078)	0.0045	300m
		ND(0.00069)	0.0014	500m

M-25	2014/10/27	ND(0.00061)	0.0016	1m
		ND(0.00056)	0.0029	100m
		ND(0.00058)	0.0029	200m
		ND(0.00071)	0.0021	300m
		ND(0.00056)	0.00083	500m

M-11	2014/10/25	ND(0.00065)	0.0018	1m
		ND(0.00060)	0.0031	100m
		ND(0.00059)	0.0020	200m
		ND(0.00057)	0.0014	300m
		ND(0.00059)	0.0011	500m

M-15	2014/10/25	ND(0.00057)	0.0020	1m
		ND(0.00064)	0.0026	100m
		ND(0.00061)	0.0015	200m
		ND(0.00059)	0.0013	300m
		ND(0.00058)	0.00066	500m

M-21	2014/10/26	ND(0.00058)	0.0015	1m
		ND(0.00065)	0.0026	100m
		0.0010	0.0041	200m
		0.00080	0.0042	300m
		0.00068	0.0029	500m

M-26	2014/10/27	ND(0.00070)	0.0016	1m
		0.00095	0.0030	100m
		0.00074	0.0027	200m
		ND(0.00062)	0.0026	300m
		ND(0.00065)	0.00093	500m

M-27	2014/10/26	ND(0.00063)	0.0016	1m
		ND(0.00062)	0.0025	100m
		0.00070	0.0030	200m
		ND(0.00063)	0.0024	300m
		ND(0.00056)	0.0014	500m

