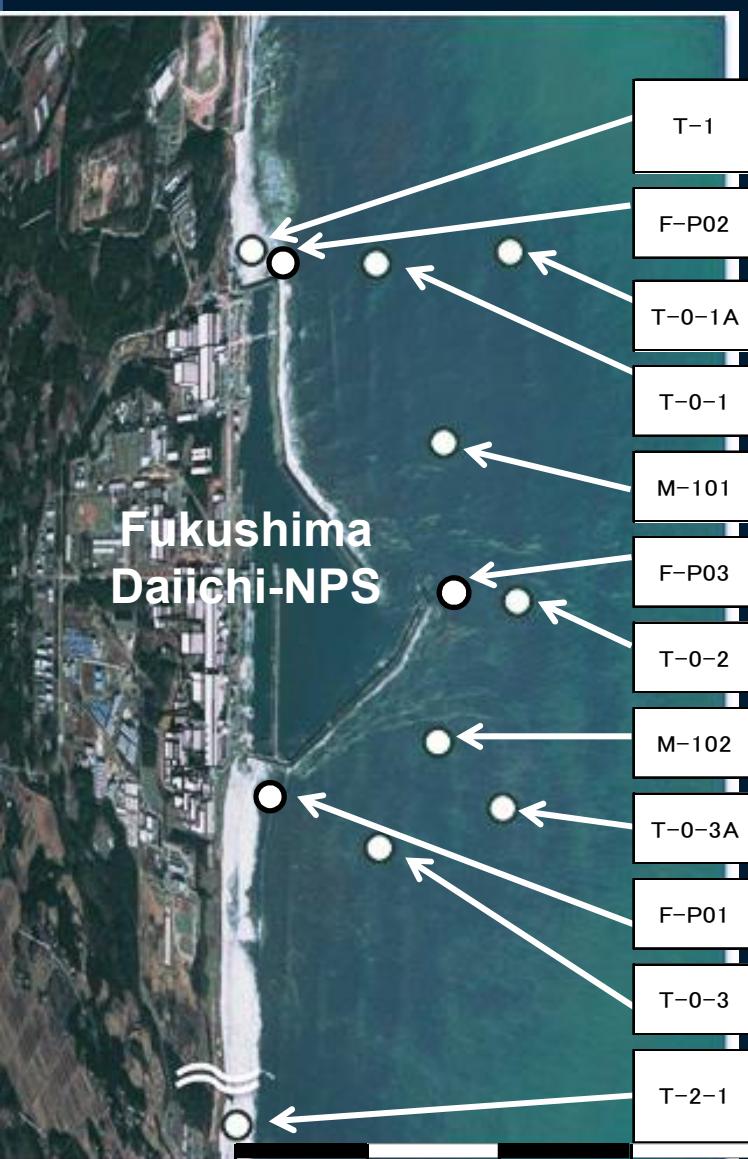


Sea Area Monitoring

January 13, 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
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	2014/12/29	ND(0.91)	ND(0.59)	15 ^{*1}	2.8				
	2014/12/22	ND(0.55)	ND(0.72)	14 ^{*1}	1.6				
	2014/10/21	ND(0.69)	ND(0.83)					ND(5.1 × 10 ⁻⁶)	ND(7 × 10 ⁻⁶)
	2014/11/3	ND(0.53)	ND(0.70)	14 ^{*1}	1.6	0.16	ND(2.1)		
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	2014/12/28	ND(0.74)	ND(0.69)	ND(17) ^{*1}	In progress				
	2014/12/22	ND(0.67)	ND(0.68)	ND(17) ^{*1}	ND(1.6)				
	2014/12/15	ND(0.75)	ND(0.59)	ND(17) ^{*1}	1.8				
T-0-1	2014/12/28	ND(0.69)	ND(0.71)	ND(17) ^{*1}	In progress				
	2014/12/22	ND(0.66)	ND(0.58)	ND(17) ^{*1}	3.0				
	2014/12/15	ND(0.71)	ND(0.70)	ND(17) ^{*1}	ND(1.6)				
M-101	2014/11/6	0.021	0.070		0.18	In progress			
	2014/10/20	0.10	0.33		1.7	In progress			
	2014/9/13	0.040	0.12		0.17	0.019			
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	2014/12/28	ND(0.73)	ND(0.68)	ND(17) ^{*1}	In progress				
	2014/12/22	ND(0.50)	ND(0.59)	ND(17) ^{*1}	ND(1.6)				
	2014/12/15	ND(0.72)	ND(0.59)	ND(17) ^{*1}	ND(1.6)				
M-102	2014/11/5	0.015	0.047		0.11	In progress			
	2014/10/21	0.015	0.050		0.12	In progress			
	2014/9/12	0.039	0.12		0.13	0.010			
T-0-3A	2014/12/28	ND(0.80)	ND(0.76)	ND(17) ^{*1}	In progress				
	2014/12/22	ND(0.80)	ND(0.64)	ND(17) ^{*1}	ND(1.6)				
	2014/12/15	ND(0.91)	ND(0.50)	ND(17) ^{*1}	ND(1.6)				
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	2014/12/28	ND(0.63)	ND(0.49)	ND(17) ^{*1}	In progress				
	2014/12/22	ND(0.51)	ND(0.58)	ND(17) ^{*1}	ND(1.6)				
	2014/12/15	ND(0.49)	ND(0.60)	ND(17) ^{*1}	ND(1.6)				
T-2-1	2014/12/29	ND(0.56)	ND(0.63)	8.5 ^{*1}	ND(1.5)				
	2014/12/22	ND(0.58)	ND(0.58)	12 ^{*1}	ND(1.5)				
	2014/10/21	ND(0.81)	1.1	11 ^{*1}	ND(1.5)			ND(5.3 × 10 ⁻⁶)	(1.2 ± 0.25) × 10 ⁻⁵
	2014/11/3	ND(0.68)	1.3	7.4 ^{*1}	1.9	ND(0.0071)	ND(2.1)		

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	I:2m below sea level Depth(m) from 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

(20km)

T-D1	2014/11/11	0.0091	0.031	ND(17)*1	0.40	ND(0.009)	ND(2.0)				S
	2014/10/8	0.022	0.070								$(5.5 \pm 1.7) \times 10^{-6}$
T-6	2014/11/4	0.021	0.071	ND(18)*1	0.33						S
F-P06	2014/12/8	ND(0.070)	ND(0.064)	0.03*2	ND(0.43)	In progress					S
	2014/11/10	ND(0.065)	ND(0.065)	0.03*2	ND(0.43)	0.001					$ND(6 \times 10^{-6})$
	2014/10/20	ND(0.056)	ND(0.049)	0.03*2	ND(0.45)	0.001					$ND(6 \times 10^{-6})$
M-103	2014/11/6	0.0094	0.035		0.12	In progress					0.5m
	2014/10/20	0.0068	0.020		0.10	In progress					0.5m
	2014/9/13	0.016	0.052		0.10	0.0011					0.5m
F-P04	2014/12/8	ND(0.058)	0.13	0.04*2	ND(0.43)	In progress					S
	2014/11/10	ND(0.080)	ND(0.054)	0.03*2	ND(0.42)	0.005					S
	2014/10/20	ND(0.062)	0.092	0.03*2	ND(0.45)	0.016					$ND(6 \times 10^{-6})$
T-5	2014/11/4	ND(0.0013)	0.0074	ND(17)*1	ND(0.34)	ND(0.009)	ND(2.0)				S
	2014/10/18	ND(0.0013)	0.0026								$(6.6 \pm 1.8) \times 10^{-6}$
T-D5	2014/11/11	0.0083	0.027	ND(17)*1	0.43	ND(0.009)	ND(2.0)				S
	2014/10/8	0.024	0.067								$(8.4 \pm 2.2) \times 10^{-6}$
M-104	2014/11/5	0.0096	0.035		0.12	In progress					0.5m
	2014/10/21	0.014	0.045		0.098	In progress					0.5m
	2014/9/12	0.030	0.094		0.15	0.0069					0.5m
F-P05	2014/12/8	ND(0.057)	ND(0.065)	0.03*2	ND(0.44)	In progress					S
	2014/11/10	ND(0.066)	ND(0.060)	0.03*2	ND(0.42)	0.004					S
	2014/10/20	ND(0.062)	ND(0.058)	0.03*2	ND(0.45)	0.003					$ND(7 \times 10^{-6})$
T-D9	2014/11/4	0.0032	0.011	ND(17)*1	ND(0.34)	ND(0.009)	ND(2.0)				S
	2014/10/18	0.012	0.036								(4.8×10^{-6})
T-3	2014/11/4	0.025	0.073	ND(18)*1	ND(0.32)						S

km

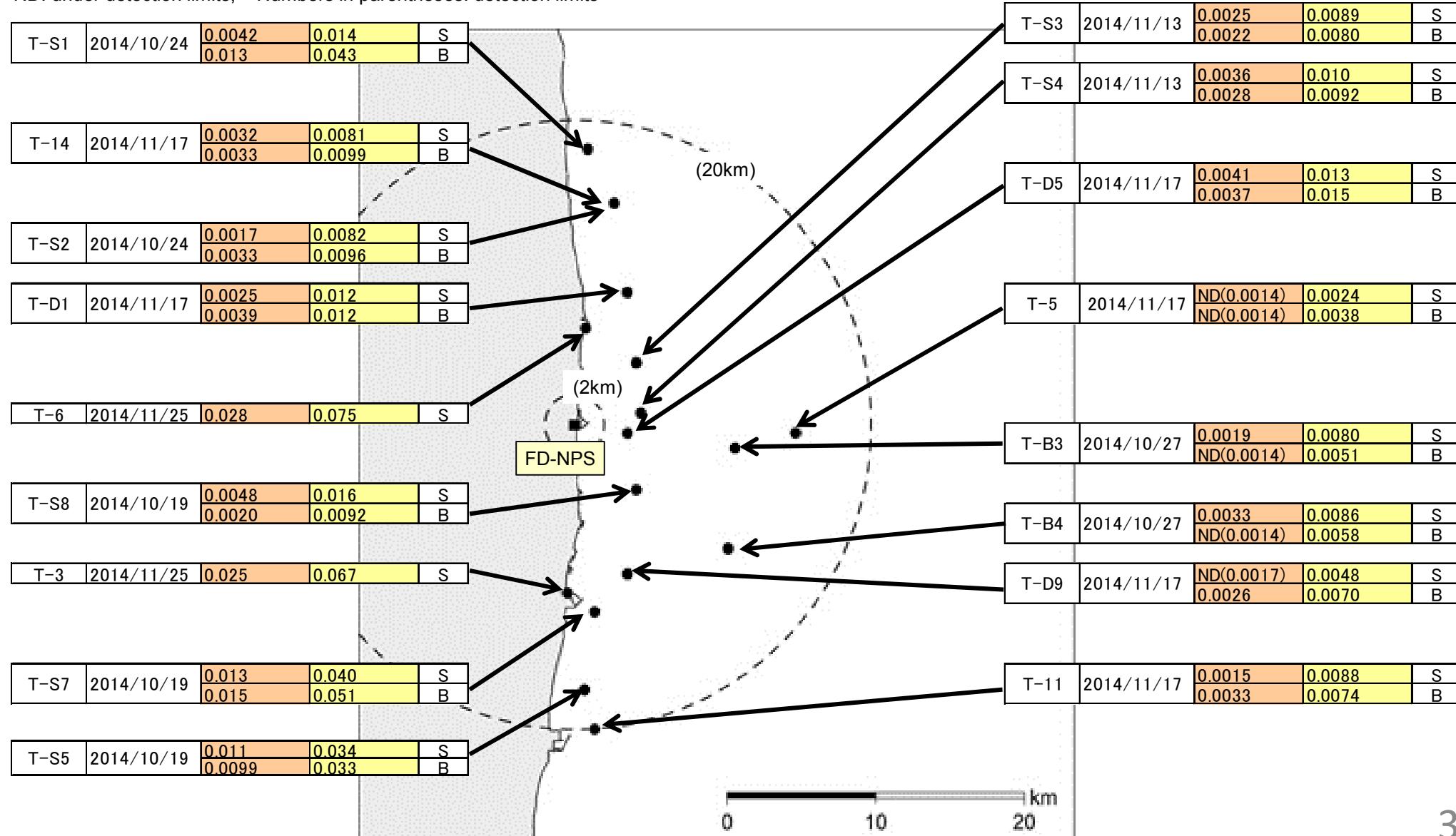
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Sea area between 2-20km radius from the NPS (2)

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
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Sea water radioactivity (Bq/L):

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

T-MA	2014/11/5	0.0014 0.0015	0.0052 0.0047		S B	
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T-13-1	2014/11/5	0.0021 0.0020	0.0081 0.0082		S B	
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T-7	2014/11/19	ND(0.0014) ND(0.0014)	0.0027 0.0037		S B	
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T-4	2014/11/25	0.012	0.030		S	
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T-12	2014/11/8	ND(0.0014) 0.0044	0.0063 0.017		S B	
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T-17-1	2014/11/8	ND(0.0014) 0.0017	0.0063 0.0083		S B	
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M-C1	2014/8/16	ND(0.00093) ND(0.00059)	0.0022 0.0020		1m 47m
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T-B1	2014/11/18	0.0013 ND(0.0014)	0.0048 0.0052		S B
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M-D1	2014/8/23	ND(0.00069) ND(0.00067) ND(0.00070)	0.0020 0.0023 0.0024		1m 50m 113m
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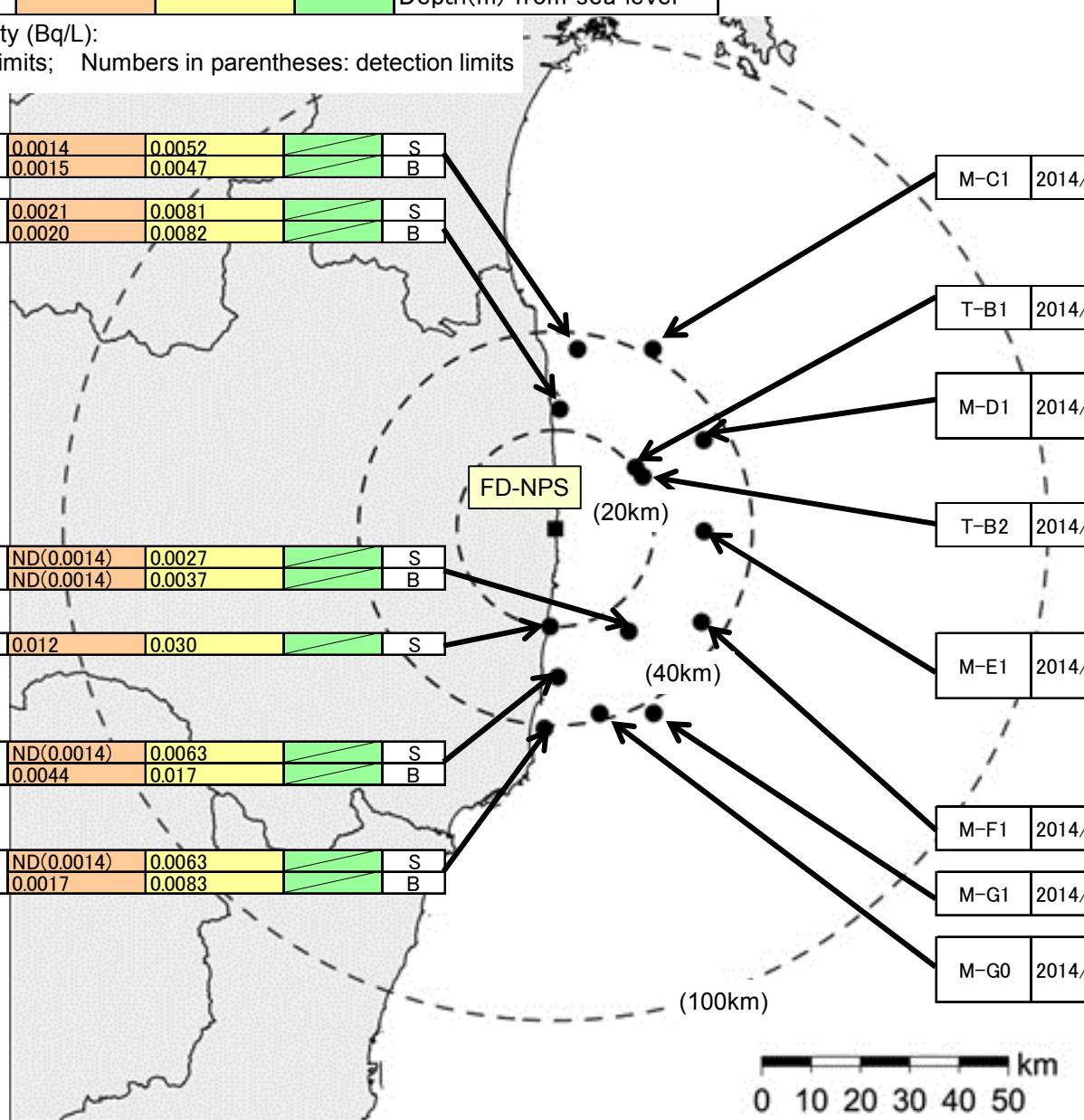
T-B2	2014/11/18	ND(0.0014) ND(0.0014)	0.0050 0.0077		S B
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M-E1	2014/8/22	ND(0.00072) ND(0.00063) ND(0.00060)	0.0020 0.0019 0.0028		1m 50m 124m
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M-F1	2014/8/28	ND(0.00060) ND(0.00054)	0.0020 0.0017		1m 135m
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M-G1	2014/8/27	ND(0.00068) ND(0.00062)	0.0016 0.0027		1m 131m
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M-G0	2014/8/31	ND(0.00051) ND(0.00056) ND(0.00061)	0.0019 0.0021 0.0020		1m 50m 99m
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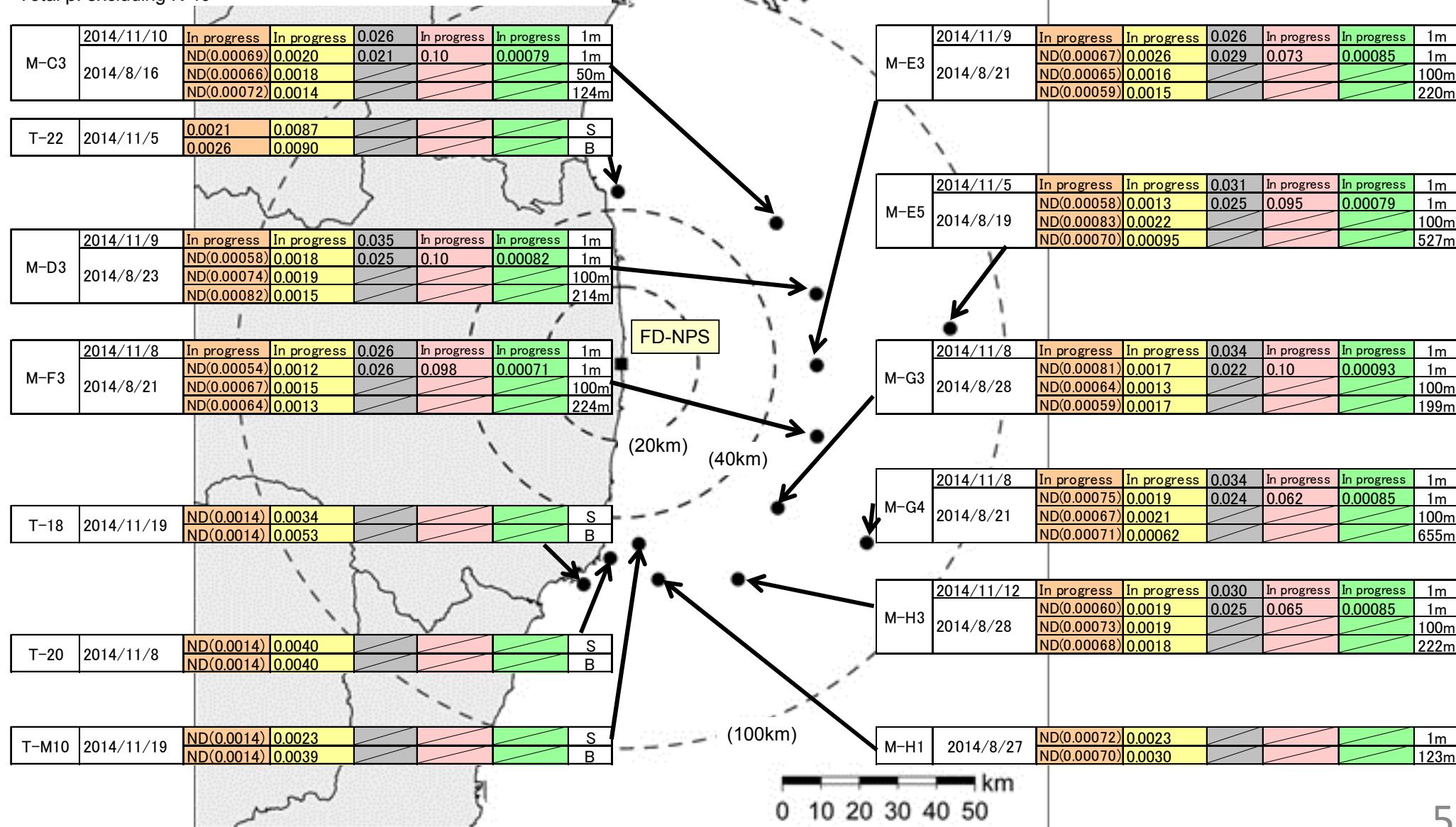
Sea area between 20-100km radius from the NPS(2)

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
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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	2014/11/5	0.0021 0.0016 ND(0.0016)	0.0062 0.0059 0.0044		S M B
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T-MG0	2014/11/6	ND(0.0016) ND(0.0016) ND(0.0016)	0.0019 0.0016 0.0016		S M B
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T-MG4	2014/11/5	ND(0.0016) ND(0.0016) ND(0.0016)	0.0049 0.0046 0.0033		S M B
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M-A1	2014/8/18	ND(0.00051) ND(0.00057) ND(0.00052)	0.0018 0.0016 0.0015		1m 100m 195m
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T-MG5	2014/11/5	0.0021 ND(0.0016) ND(0.0016)	0.0070 0.0040 0.0032	ND(0.008)	S M B
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M-A3	2014/8/18	ND(0.00060) ND(0.00052) ND(0.00053)	0.0018 0.0013 0.00073		1m 100m 482m
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T-MG6	2014/11/5	0.0019 ND(0.0016) 0.0016	0.0064 0.0051 0.0045		S M B
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M-B5	2014/8/19	ND(0.00068) ND(0.00069) ND(0.00068)	0.0018 0.0013 0.00082		1m 100m 351m
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M-B1	2014/8/16	0.00092 ND(0.00055)	0.0035 0.0024		1m 37m
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M-MI4	2014/8/18	ND(0.00063) ND(0.00063) ND(0.00065)	0.0017 0.0019 0.0018		1m 100m 145m
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M-B3	2014/8/17	ND(0.00061) ND(0.00059) ND(0.00065)	0.0017 0.0017 0.0019		1m 50m 109m
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T-MG3	2014/11/5	ND(0.0016) ND(0.0016) ND(0.0016)	0.0042 0.0020 0.0018		S M B
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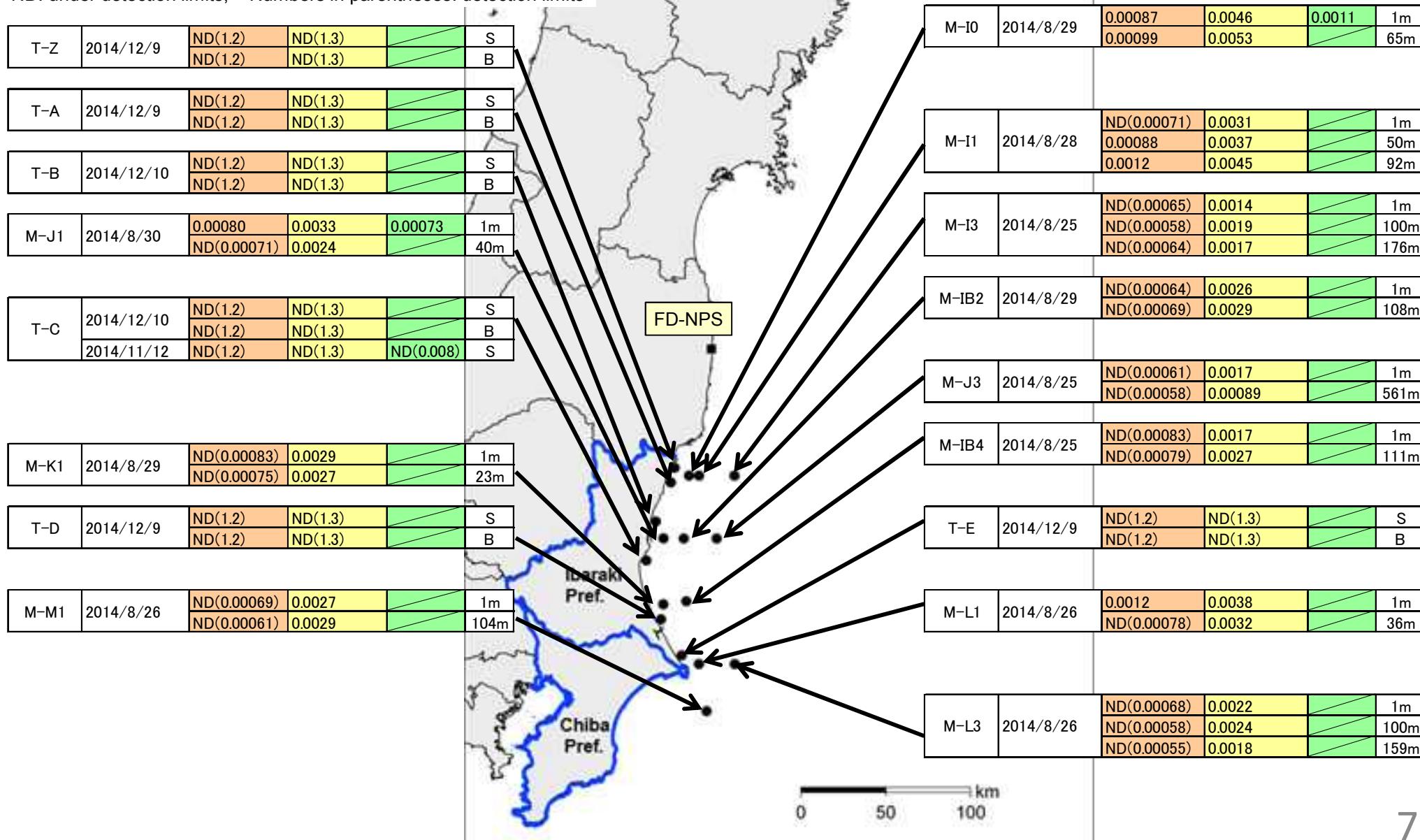
0 50 100 km

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

