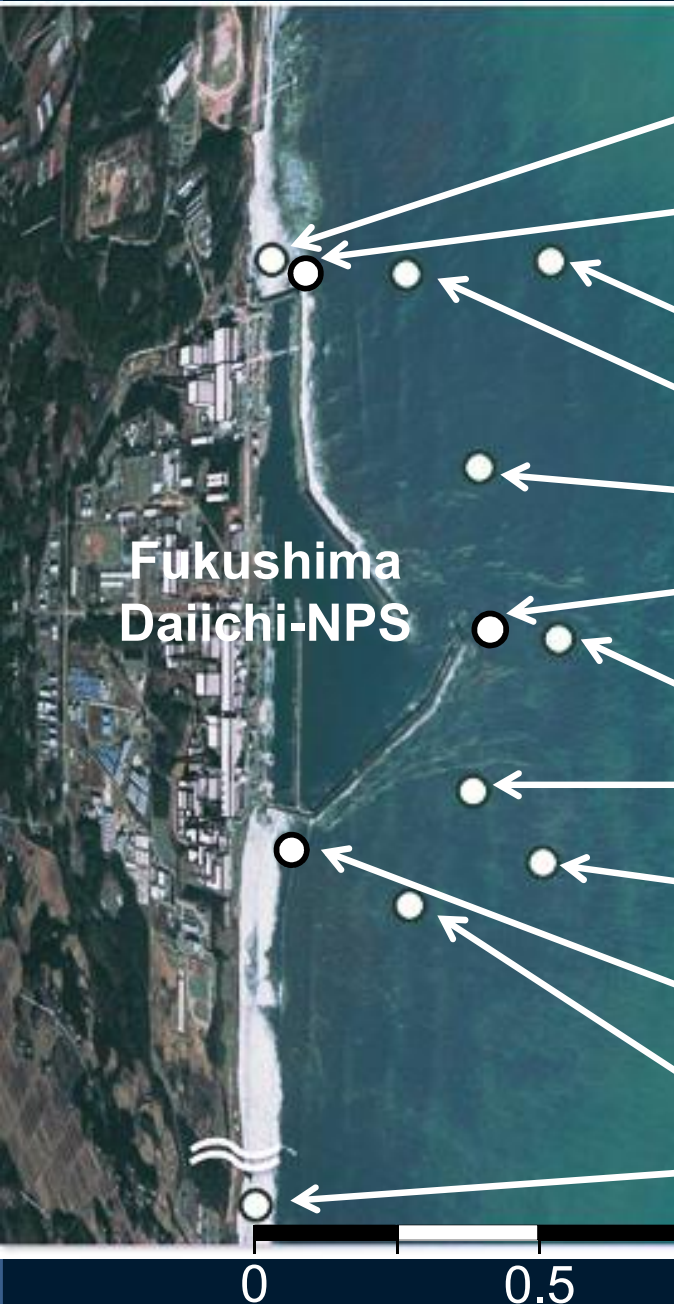


Sea Area Monitoring

January 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+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	2014/12/15	ND(0.80)	0.76	10 ^{*1}	3.7				
	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	2014/11/10	0.066	0.18	0.04 ^{*2}	In progress	In progress		In progress	In progress
	2014/10/20	ND(0.056)	ND(0.054)	0.04 ^{*2}	ND(0.45)	In progress		In progress	In progress
	2014/9/16	0.13	0.35	0.14 ^{*2}	0.84	0.17		ND(6 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)
T-0-1A	2014/12/15	ND(0.75)	ND(0.59)	ND(17) ^{*1}	In progress				
	2014/12/8	ND(0.68)	ND(0.64)	ND(17) ^{*1}	ND(1.7)				
T-0-1	2014/12/15	ND(0.71)	ND(0.70)	ND(17) ^{*1}	In progress				
	2014/12/8	ND(0.63)	ND(0.68)	ND(17) ^{*1}	ND(1.7)				
M-101	2014/11/6	0.021	0.070		In progress	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	2014/11/10	0.13	0.36	0.17 ^{*2}	In progress	In progress		In progress	In progress
	2014/10/20	0.11	0.33	0.08 ^{*2}	0.61	In progress		In progress	In progress
	2014/9/16	0.35	0.94	0.23 ^{*2}	2.5	0.40		ND(8 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)
T-0-2	2014/12/15	ND(0.72)	ND(0.59)	ND(17) ^{*1}	In progress				
	2014/12/8	ND(0.76)	ND(0.72)	ND(17) ^{*1}	ND(1.7)				
M-102	2014/11/5	0.015	0.047		In progress	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	2014/12/15	ND(0.91)	ND(0.50)	ND(17) ^{*1}	In progress				
	2014/12/8	ND(0.61)	ND(0.70)	ND(17) ^{*1}	ND(1.7)				
F-P01	2014/11/10	ND(0.065)	0.098	0.03 ^{*2}	In progress	In progress		In progress	In progress
	2014/10/20	ND(0.067)	0.054	0.04 ^{*2}	ND(0.45)	In progress		In progress	In progress
	2014/9/16	0.060	0.14	0.04 ^{*2}	0.51	0.009		ND(7 × 10 ⁻⁶)	ND(9 × 10 ⁻⁶)
T-0-3	2014/12/15	ND(0.49)	ND(0.60)	ND(17) ^{*1}	In progress				
	2014/12/8	ND(0.53)	ND(0.65)	ND(17) ^{*1}	ND(1.7)				
T-2-1	2014/12/15	ND(0.74)	ND(0.60)	13 ^{*1}	2.2				
	2014/10/21	ND(0.81)	1.1	11 ^{*1}				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)		

0 0.5 1km

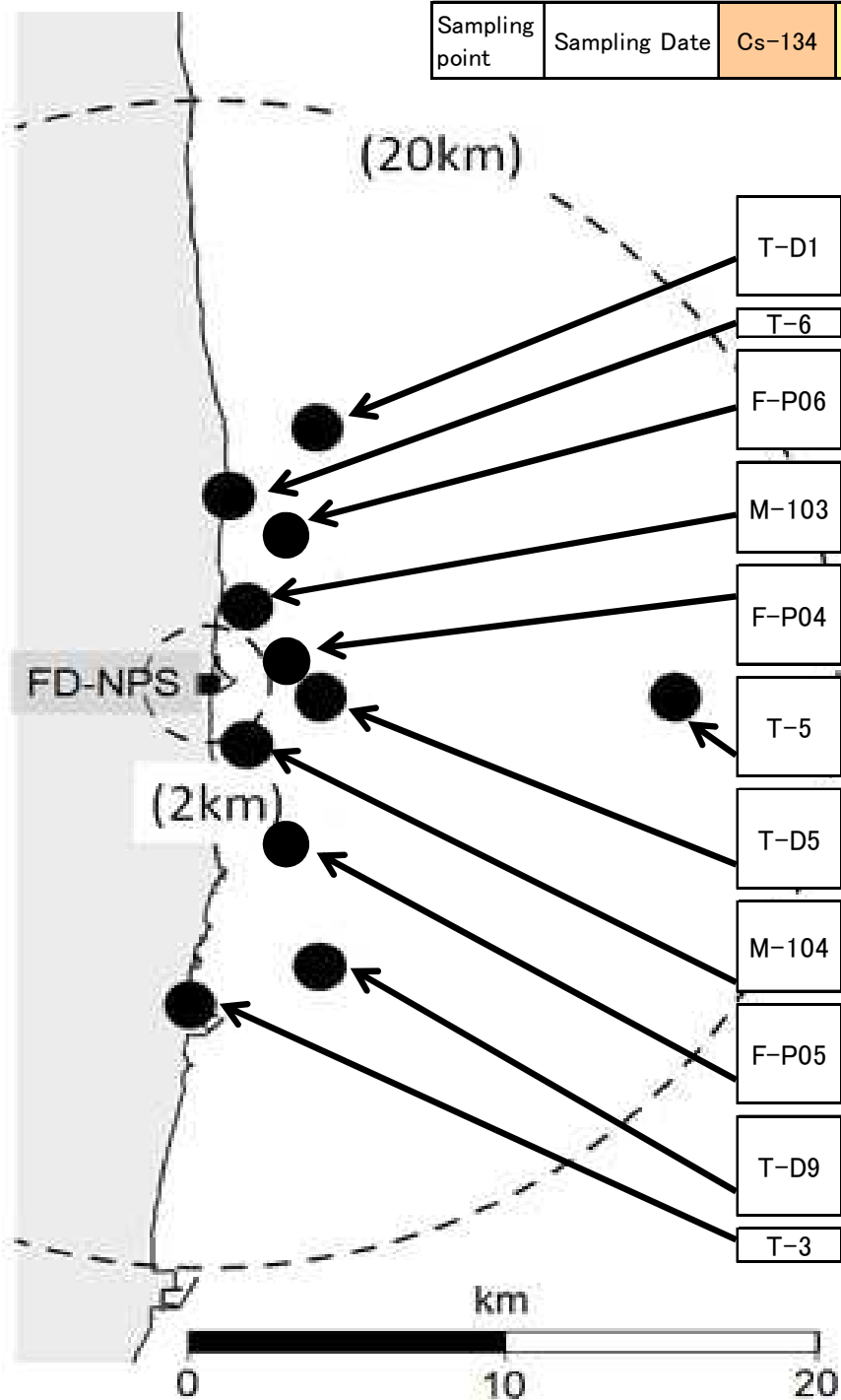
Sea area between 2-20km radius from the NPS (1)

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

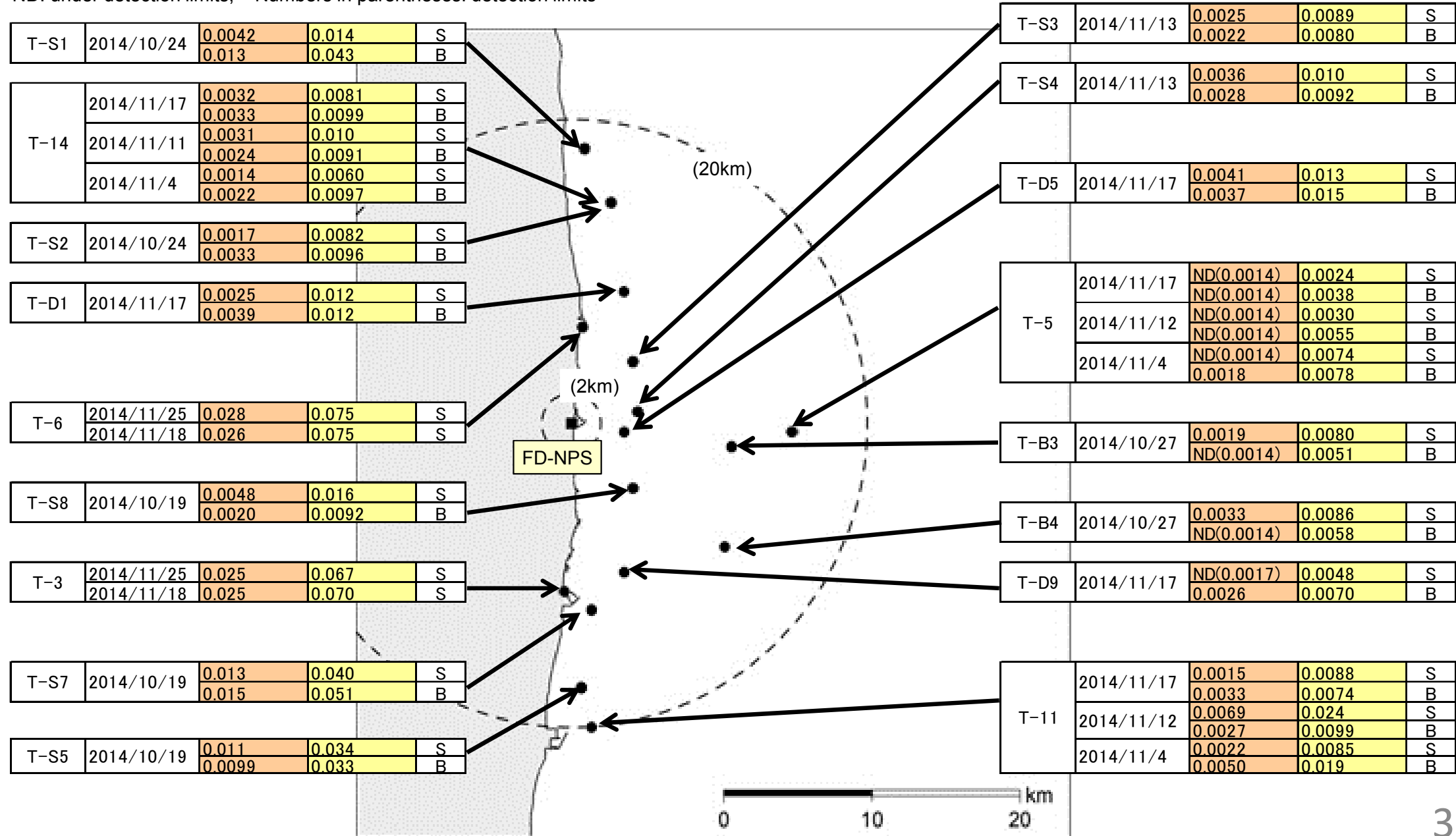


T-D1	2014/10/24	0.0026	0.011	ND(17) ^{*1}	0.49						S
	2014/10/8	0.022	0.070						ND(6.2 × 10 ⁻⁶)	(5.5 ± 1.7) × 10 ⁻⁶	S
	2014/10/1	0.0033	0.0087	ND(17) ^{*1}	ND(0.32)	ND(0.009)	ND(1.9)				S
T-6	2014/11/4	0.021	0.071	ND(18) ^{*1}	0.33						S
F-P06	2014/11/10	ND(0.065)	ND(0.065)	0.03 ^{*2}	In progress	In progress			In progress	In progress	S
	2014/10/20	ND(0.056)	ND(0.049)	0.03 ^{*2}	ND(0.45)	In progress			In progress	In progress	S
	2014/9/16	ND(0.053)	ND(0.046)	0.04 ^{*2}	ND(0.42)	0.001			ND(1.3 × 10 ⁻⁵)	ND(1.0 × 10 ⁻⁵)	S
M-103	2014/11/6	0.0094	0.035		In progress	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	2014/11/10	ND(0.080)	ND(0.054)	0.03 ^{*2}	In progress	In progress			In progress	In progress	S
	2014/10/20	ND(0.062)	0.092	0.03 ^{*2}	ND(0.45)	In progress			In progress	In progress	S
	2014/9/16	ND(0.061)	0.058	0.03 ^{*2}	ND(0.43)	0.005			ND(6 × 10 ⁻⁶)	ND(6 × 10 ⁻⁶)	S
T-5	2014/10/25	0.0019	0.0072	ND(17) ^{*1}	0.50						S
	2014/10/18	ND(0.0013)	0.0026						ND(5.4 × 10 ⁻⁶)	(6.6 ± 1.8) × 10 ⁻⁶	S
	2014/10/2	ND(0.0017)	0.0030	ND(17) ^{*1}	ND(0.32)	ND(0.009)	ND(1.9)				S
T-D5	2014/10/24	0.0045	0.010	ND(17) ^{*1}	ND(0.34)						S
	2014/10/8	0.024	0.067						ND(6.1 × 10 ⁻⁶)	(8.4 ± 2.2) × 10 ⁻⁶	S
	2014/10/1	ND(0.0017)	0.0057	ND(17) ^{*1}	ND(0.32)	ND(0.009)	ND(1.9)				S
M-104	2014/11/5	0.0096	0.035		In progress	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	2014/11/10	ND(0.066)	ND(0.060)	0.03 ^{*2}	In progress	In progress			In progress	In progress	S
	2014/10/20	ND(0.062)	ND(0.058)	0.03 ^{*2}	ND(0.45)	In progress			In progress	In progress	S
	2014/9/16	ND(0.058)	ND(0.061)	0.04 ^{*2}	ND(0.42)	0.003			ND(8 × 10 ⁻⁶)	ND(8 × 10 ⁻⁶)	S
T-D9	2014/10/25	0.0066	0.020	ND(17) ^{*1}	0.52						S
	2014/10/18	0.012	0.036						ND(4.8 × 10 ⁻⁶)	(5.0 ± 1.6) × 10 ⁻⁶	S
	2014/10/2	0.0081	0.023	ND(17) ^{*1}	ND(0.32)	ND(0.008)	ND(1.9)				S
T-3	2014/11/4	0.025	0.073	ND(18) ^{*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	
					Depth(m) from sea level		

Sea water radioactivity (Bq/L):

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

T-MA	2014/11/5	0.0014	0.0052		S
		0.0015	0.0047		B

T-13-1	2014/11/5	0.0021	0.0081		S
		0.0020	0.0082		B

T-7	2014/11/19	ND(0.0014)	0.0027		S
		ND(0.0014)	0.0037		B

T-4	2014/11/25	0.012	0.030		S
	2014/11/18	0.012	0.046		S

T-12	2014/11/8	ND(0.0014)	0.0063		S
		0.0044	0.017		B

T-17-1	2014/11/8	ND(0.0014)	0.0063		S
		0.0017	0.0083		B

M-C1	2014/8/16	ND(0.00093)	0.0022		1m
		ND(0.00059)	0.0020		47m

T-B1	2014/11/18	0.0013	0.0048		S
		ND(0.0014)	0.0052		B

M-D1	2014/8/23	ND(0.00069)	0.0020		1m
		ND(0.00067)	0.0023		50m
		ND(0.00070)	0.0024		113m

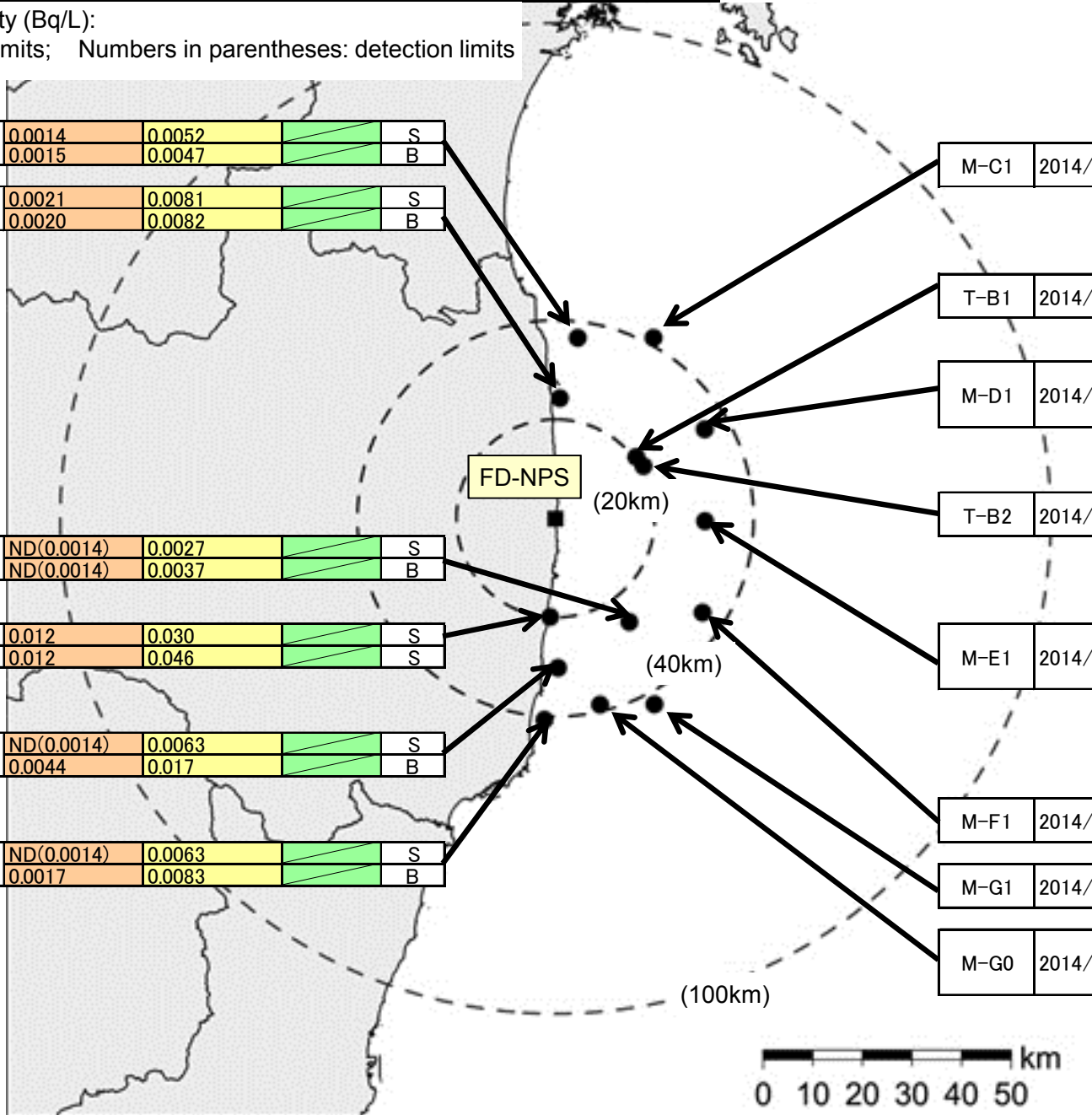
T-B2	2014/11/18	ND(0.0014)	0.0050		S
		ND(0.0014)	0.0077		B

M-E1	2014/8/22	ND(0.00072)	0.0020		1m
		ND(0.00063)	0.0019		50m
		ND(0.00060)	0.0028		124m

M-F1	2014/8/28	ND(0.00060)	0.0020		1m
		ND(0.00054)	0.0017		135m

M-G1	2014/8/27	ND(0.00068)	0.0016		1m
		ND(0.00062)	0.0027		131m

M-G0	2014/8/31	ND(0.00051)	0.0019		1m
		ND(0.00056)	0.0021		50m
		ND(0.00061)	0.0020		99m



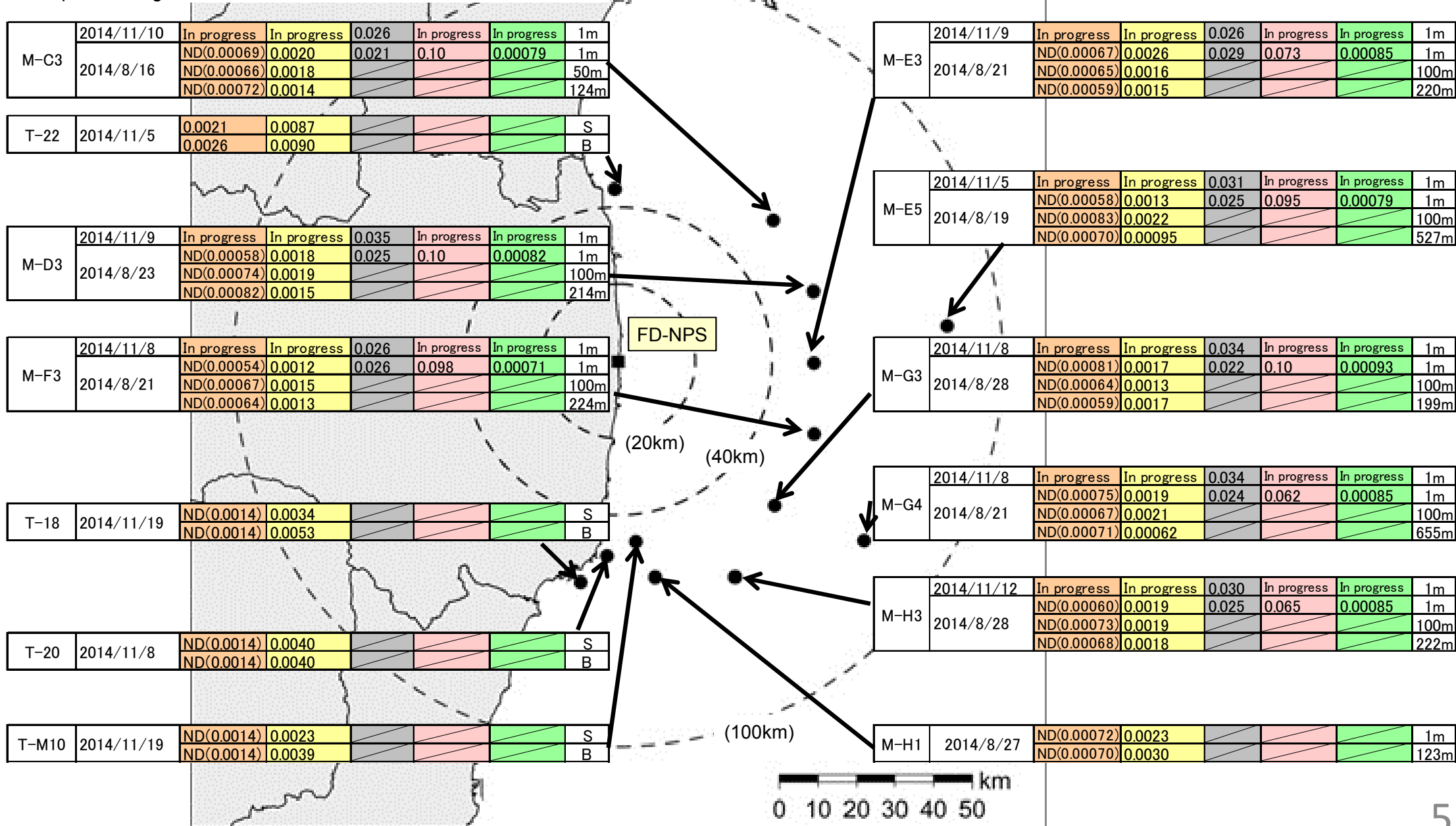
Sea area between 20-100km radius from the NPS(2)

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

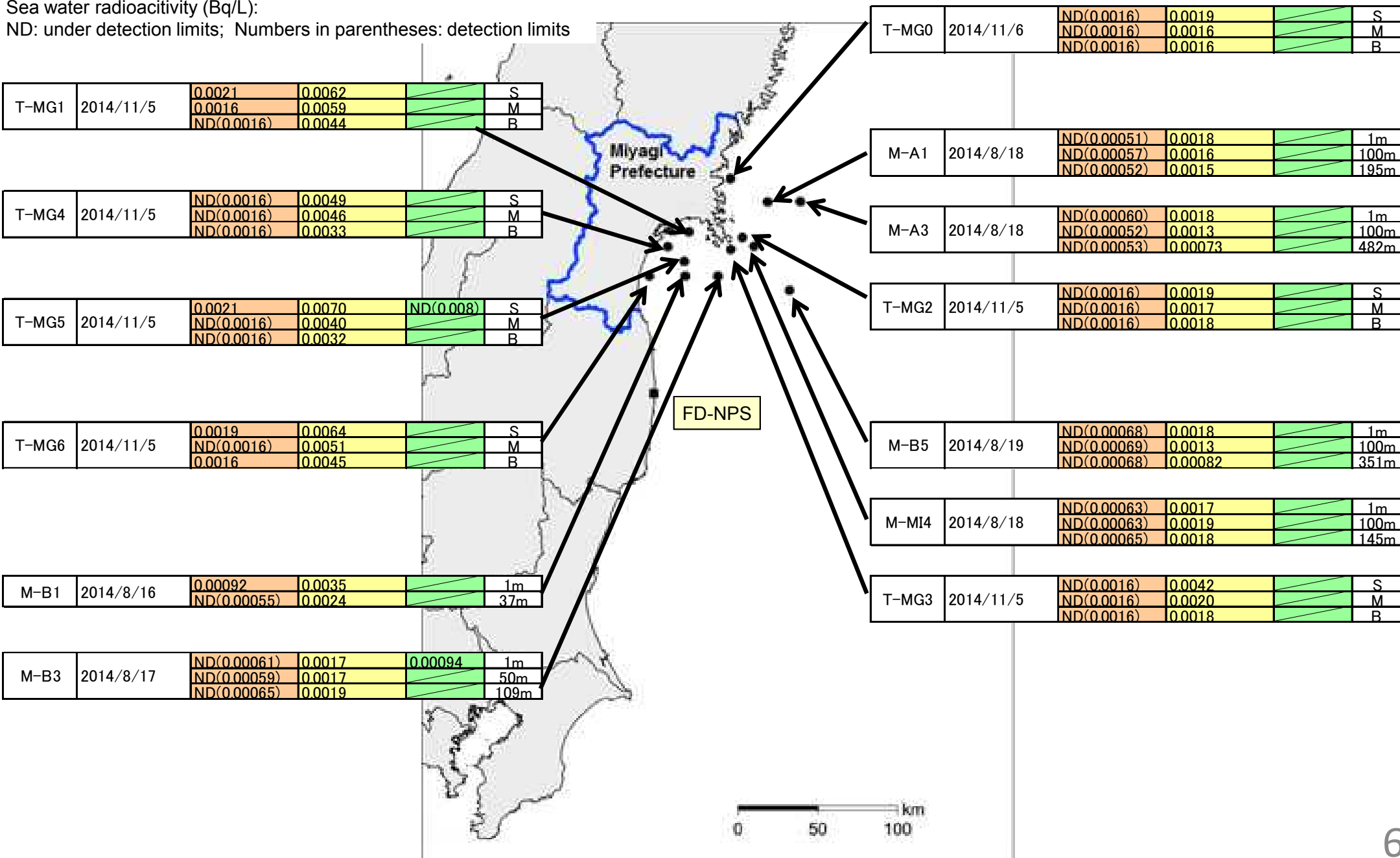


Sea area along and off the coast of Miyagi Prefecture

Sampling point	Sampling Date	Cs-134	Cs-137	Sr-90	S/M/B
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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

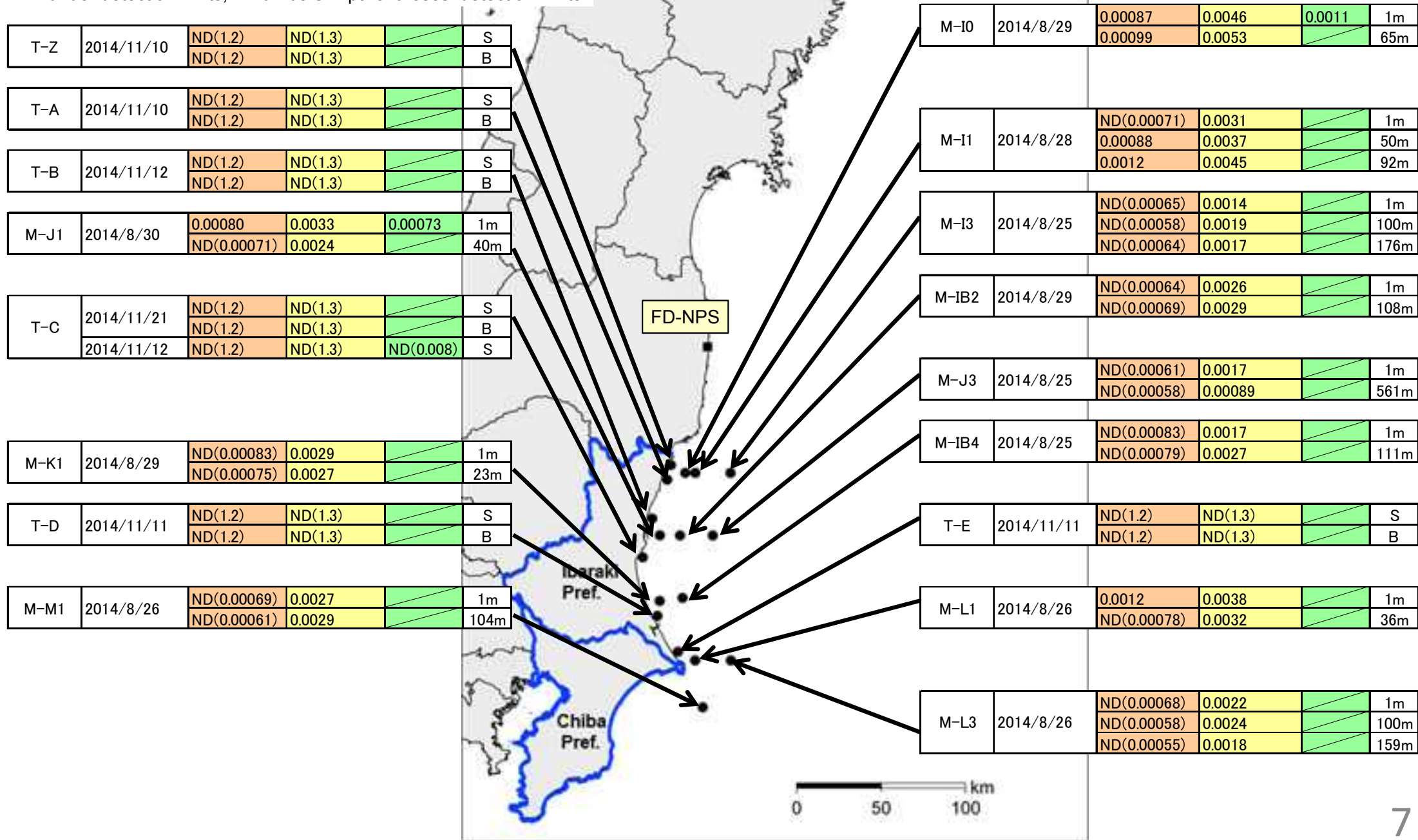


Sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

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	2014/6/18	ND(0.00054)	0.0020	1m
		ND(0.00073)	0.0017	100m
		ND(0.00052)	0.0013	200m
		ND(0.00058)	0.0011	300m
		ND(0.00051)	0.00059	500m

M-11	2014/6/18	0.00062	0.0030	1m
		0.00078	0.0028	100m
		ND(0.00052)	0.0020	200m
		ND(0.00054)	0.0014	300m
		ND(0.00059)	0.0012	500m

M-14	2014/6/19	ND(0.00056)	0.0022	1m
		ND(0.00057)	0.0018	100m
		ND(0.00053)	0.0016	200m
		ND(0.00058)	0.00093	300m
		ND(0.00059)	0.00054	500m

M-15	2014/6/19	ND(0.00056)	0.0025	1m
		ND(0.00055)	0.0021	100m
		ND(0.00060)	0.0017	200m
		ND(0.00052)	0.0012	300m
		ND(0.00061)	0.00080	500m

M-19	2014/6/20	0.00095	0.0033	1m
		ND(0.00057)	0.0020	100m
		ND(0.00063)	0.0014	200m
		ND(0.00053)	0.0012	300m
		ND(0.00057)	0.00086	500m

M-21	2014/6/21	ND(0.00057)	0.0020	1m
		ND(0.00056)	0.0029	100m
		0.00063	0.0032	200m
		ND(0.00065)	0.0021	300m
		ND(0.00053)	0.0015	500m

M-20	2014/6/21	0.00067	0.0026	1m
		ND(0.00059)	0.0028	100m
		ND(0.00073)	0.0024	200m
		ND(0.00057)	0.0015	300m
		ND(0.00055)	0.00070	500m

M-26	2014/6/23	ND(0.00056)	0.0022	1m
		ND(0.00069)	0.0031	100m
		0.00099	0.0038	200m
		0.0013	0.0047	300m
		0.00066	0.0032	500m

M-25	2014/6/24	ND(0.00057)	0.0016	1m
		ND(0.00055)	0.0019	100m
		0.00069	0.0033	200m
		0.00097	0.0043	300m
		ND(0.00060)	0.0023	500m

M-27	2014/6/22	ND(0.00057)	0.0028	1m
		ND(0.00070)	0.0027	100m
		0.0010	0.0033	200m
		ND(0.00056)	0.0035	300m
		0.0011	0.0051	500m

