

Sea Area Monitoring

September 02, 2014

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km radius from the NPS

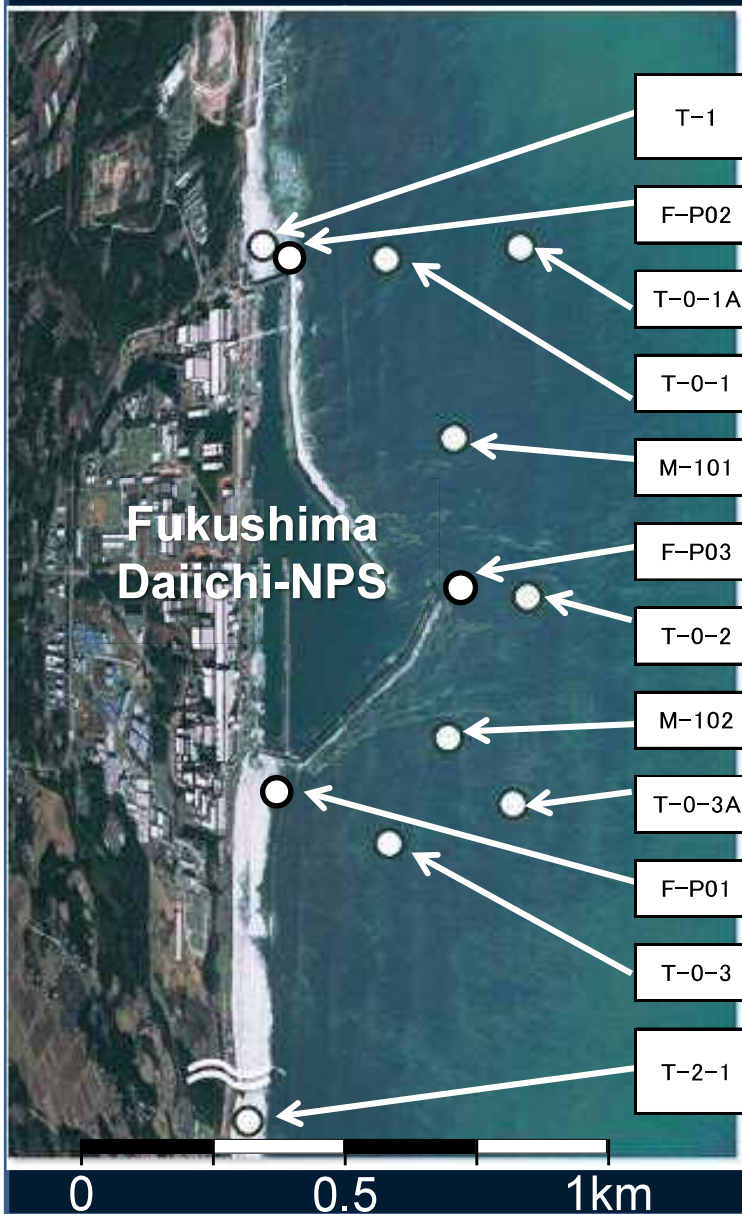
Sampling point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+Pu-240
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Sea water radioactivity (Bq/L):

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

*1: Total β : including K-40 *2: Total β : excluding K-40

T-1	2014/8/18	ND(0.76)	ND(0.62)	13 ^{*1}	ND(1.7)				
	2014/7/7	ND(0.62)	ND(0.57)	11 ^{*1}	ND(1.7)	0.067	ND(1.5)		
	2014/4/10	ND(0.85)	ND(0.82)					ND(5.6×10^{-6})	(9.4 ± 2.2) $\times 10^{-6}$
F-P02	2014/6/16	ND(0.066)	ND(0.050)	0.03 ^{*2}	ND(0.41)	In progress		In progress	In progress
	2014/4/14	ND(0.060)	ND(0.052)	0.04 ^{*2}	ND(0.41)	0.002		ND(6×10^{-6})	8×10^{-6}
T-0-1A	2014/8/18	ND(0.54)	ND(0.52)	ND(18) ^{*1}	In progress				
	2014/8/12	ND(0.66)	ND(0.58)	ND(16) ^{*1}	ND(1.7)				
T-0-1	2014/8/18	ND(0.66)	ND(0.83)	ND(18) ^{*1}	In progress				
	2014/8/12	ND(0.74)	ND(0.82)	ND(16) ^{*1}	ND(1.7)				
M-101	2014/6/17	0.012	0.039		0.12	In progress			
	2014/5/16	0.0037	0.0099		0.095	0.0010			
F-P03	2014/6/16	ND(0.080)	ND(0.071)	0.03 ^{*2}	ND(0.41)	In progress		In progress	In progress
	2014/4/14	ND(0.069)	ND(0.053)	0.03 ^{*2}	ND(0.41)	0.003		ND(9×10^{-6})	8×10^{-6}
T-0-2	2014/8/18	ND(0.61)	ND(0.57)	ND(18) ^{*1}	In progress				
	2014/8/12	ND(0.88)	ND(0.67)	ND(16) ^{*1}	ND(1.7)				
M-102	2014/6/16	0.021	0.057		0.15	In progress			
	2014/5/15	0.023	0.063		0.20	0.020			
T-0-3A	2014/8/18	ND(0.83)	ND(0.63)	ND(18) ^{*1}	In progress				
	2014/8/12	ND(0.65)	ND(0.56)	ND(16) ^{*1}	ND(1.7)				
F-P01	2014/6/16	ND(0.056)	0.074	0.04 ^{*2}	ND(0.41)	In progress		In progress	In progress
	2014/4/14	ND(0.065)	0.078	0.04 ^{*2}	ND(0.40)	0.006		ND(5×10^{-6})	6×10^{-6}
T-0-3	2014/8/18	ND(0.69)	ND(0.71)	ND(18) ^{*1}	In progress				
	2014/8/12	ND(0.64)	ND(0.50)	ND(16) ^{*1}	ND(1.7)				
T-2-1	2014/8/18	ND(0.54)	0.83	9.9 ^{*1}	ND(1.7)				
	2014/7/7	ND(0.74)	1.2	11 ^{*1}	ND(1.7)	ND(0.0088)	ND(1.5)		
	2014/4/10	ND(0.70)	ND(0.58)	9.0 ^{*1}				ND(5.6×10^{-6})	(3.1 ± 0.41) $\times 10^{-5}$



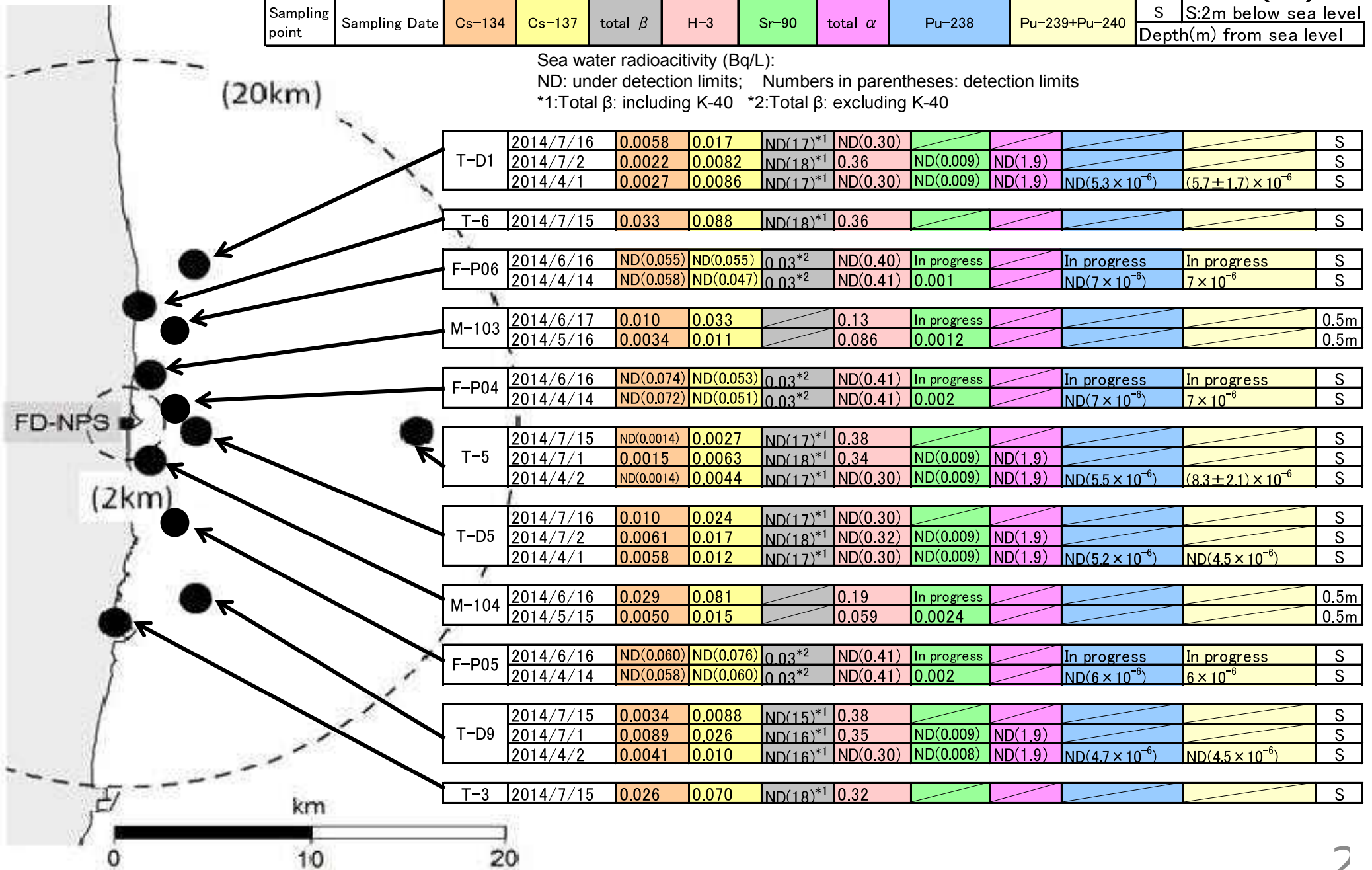
Sea area between 2-20km radius from the NPS (1)

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

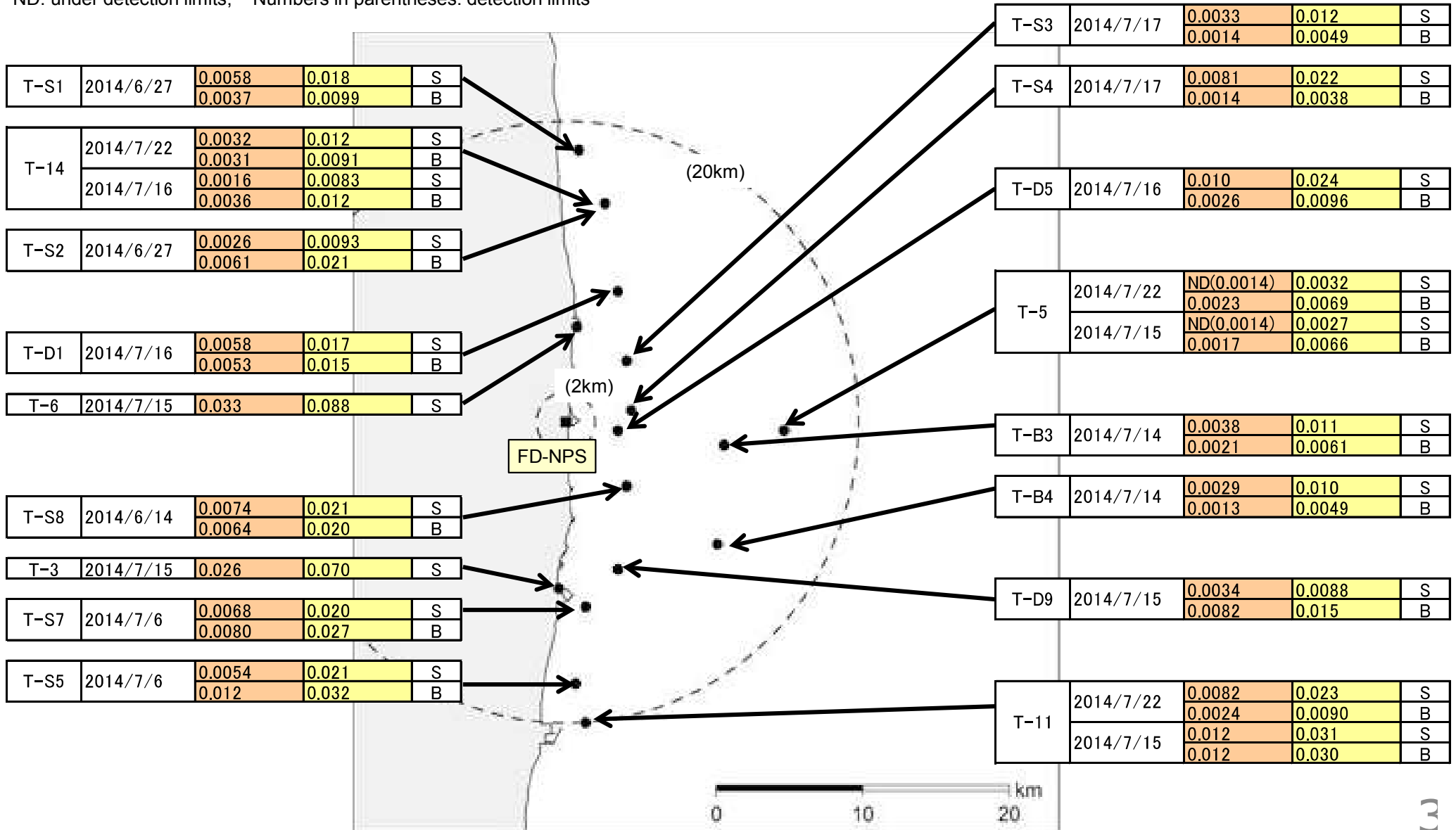


Sea area between 2-20km radius from the NPS (2)

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

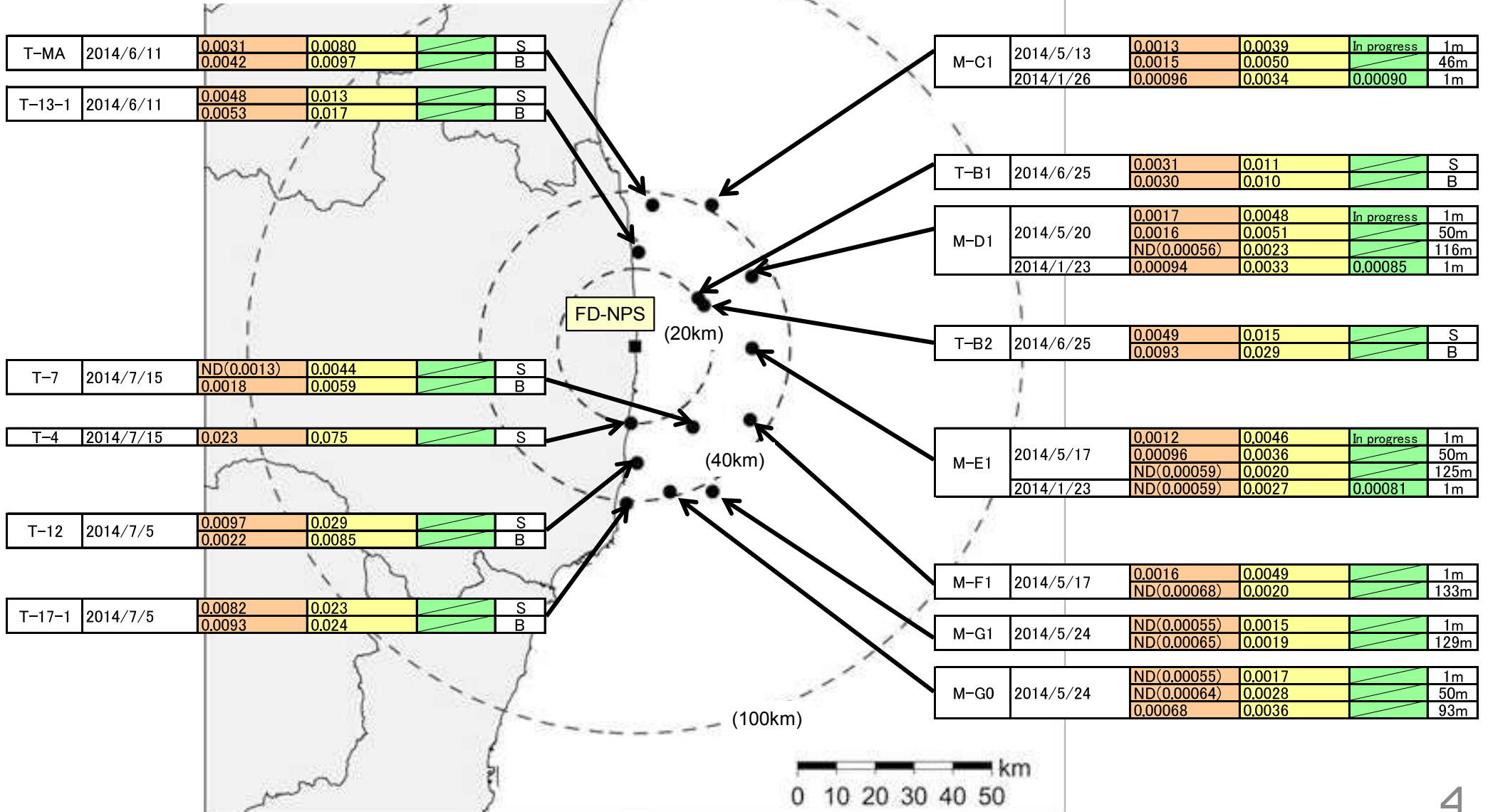


Sea area between 20-100km radius from the NPS(1)

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



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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Sea water radioactivity (Bq/L):

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

*Total β: excluding K-40

M-C3	2014/5/13	0.0017	0.0063	0.024	0.11	In progress	1m
		0.00071	0.0023				50m
		ND(0.00061)	0.0015				124m
	2014/1/19	0.00086	0.0024	0.021	0.045	0.0011	1m

T-22	2014/6/11	0.0051	0.013				S
		0.0055	0.017				B

M-D3	2014/5/16	0.0017	0.0061	0.018	0.080	In progress	1m
		ND(0.00061)	0.0020				100m
		ND(0.00061)	0.0014				210m
	2014/1/22	ND(0.00064)	0.0025	0.021	0.073	0.00099	1m

M-F3	2014/5/18	0.0016	0.0048	0.027	0.089	In progress	1m
		ND(0.00057)	0.0015				100m
		ND(0.00066)	0.0015				222m
	2014/1/22	ND(0.00058)	0.0020	0.027	0.066	0.0011	1m

T-18	2014/7/15	0.0020	0.0075				S
		0.0025	0.010				B

T-20	2014/7/5	0.0023	0.010				S
		0.0039	0.012				B

T-M10	2014/7/15	0.0032	0.0081				S
		ND(0.0013)	0.0035				B

M-E3	2014/5/18	0.0015	0.0038	0.024	0.10	In progress	1m
		ND(0.00064)	0.0019				100m
		ND(0.00064)	0.0014				218m
	2014/1/22	ND(0.00055)	0.0018	0.030	0.056	0.00099	1m

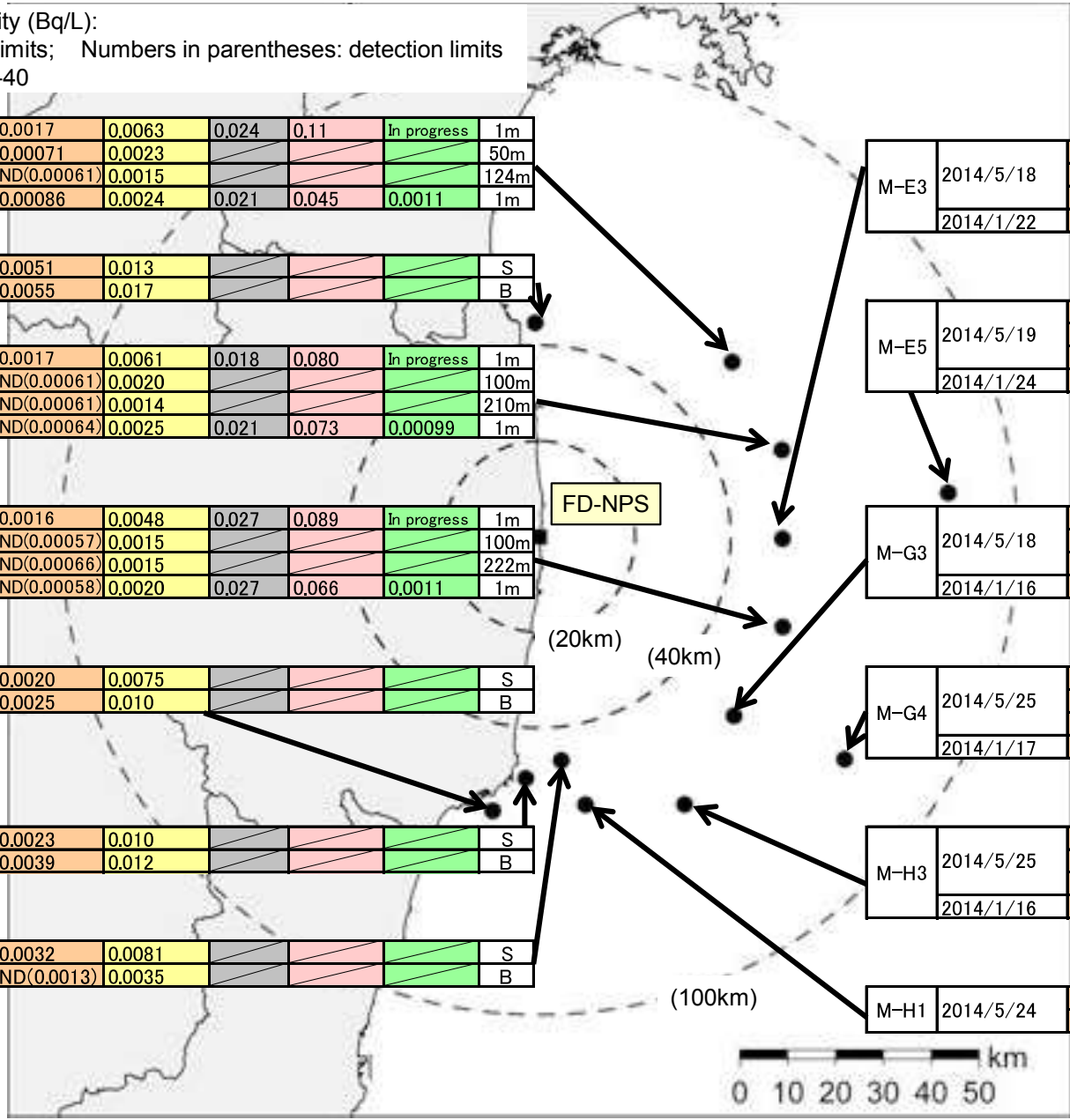
M-E5	2014/5/19	ND(0.00059)	0.0015	0.021	0.076	In progress	1m
		ND(0.00056)	0.0018				100m
		ND(0.00075)	0.00062				522m
	2014/1/24	ND(0.00071)	0.0024	0.031	0.055	0.0011	1m

M-G3	2014/5/18	0.0011	0.0029	0.027	0.076	In progress	1m
		ND(0.00056)	0.0016				100m
		ND(0.00064)	0.0016				196m
	2014/1/16	ND(0.00071)	0.0017	0.021	0.097	0.0011	1m

M-G4	2014/5/25	ND(0.00063)	0.0028	0.024	0.059	In progress	1m
		ND(0.00059)	0.0016				100m
		ND(0.00080)	0.00057				645m
	2014/1/17	ND(0.00063)	0.0019	0.023	0.063	0.0010	1m

M-H3	2014/5/25	ND(0.00060)	0.0021	0.020	0.084	In progress	1m
		ND(0.00056)	0.0017				100m
		ND(0.00053)	0.0017				214m
	2014/1/16	ND(0.00087)	0.0018	0.025	0.077	0.0010	1m

M-H1	2014/5/24	0.0016	0.0049				1m
		ND(0.00059)	0.0020				121m



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

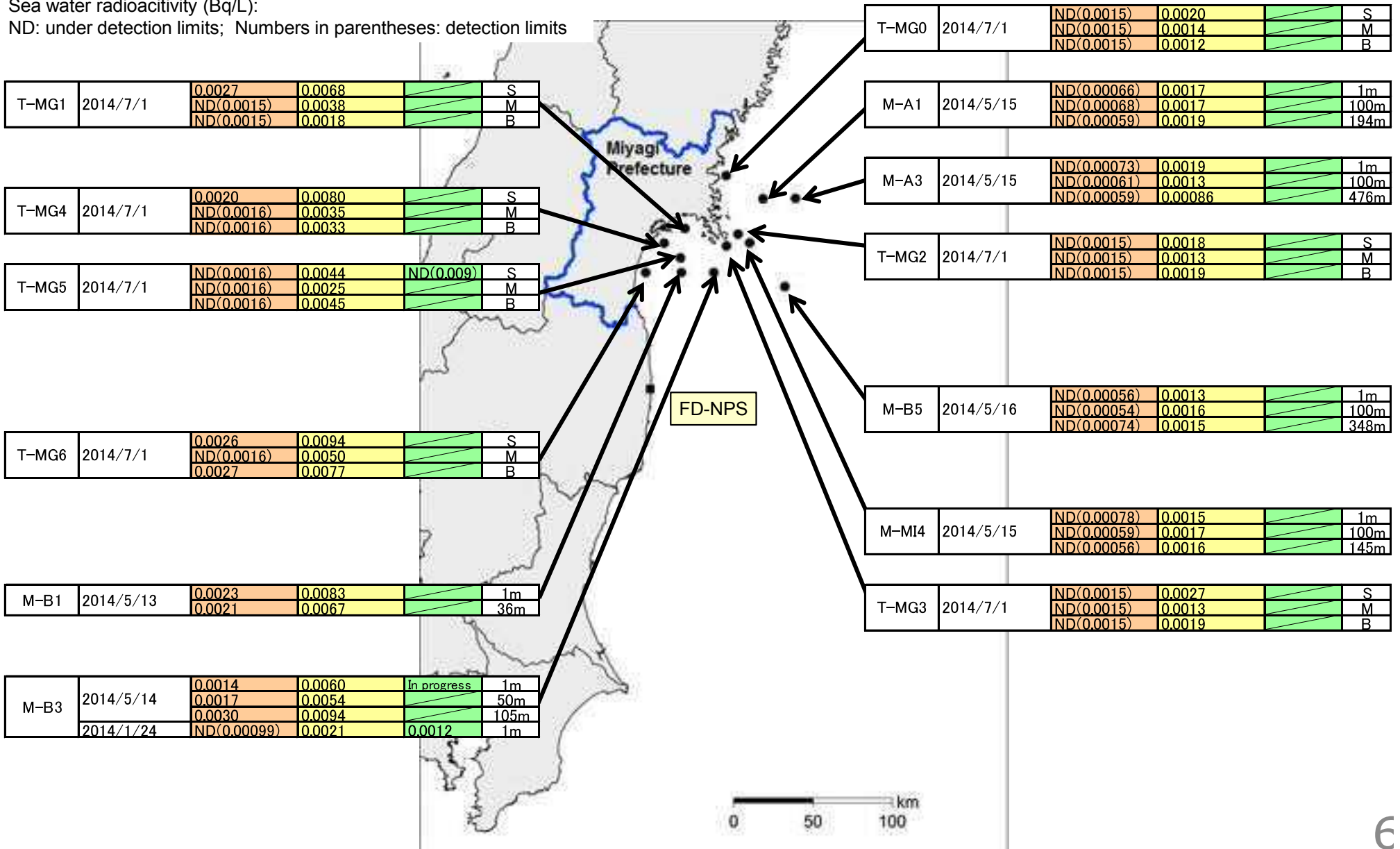
S:2m below sea level

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



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

T-Z	2014/7/7	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

T-A	2014/7/7	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

T-B	2014/7/7	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

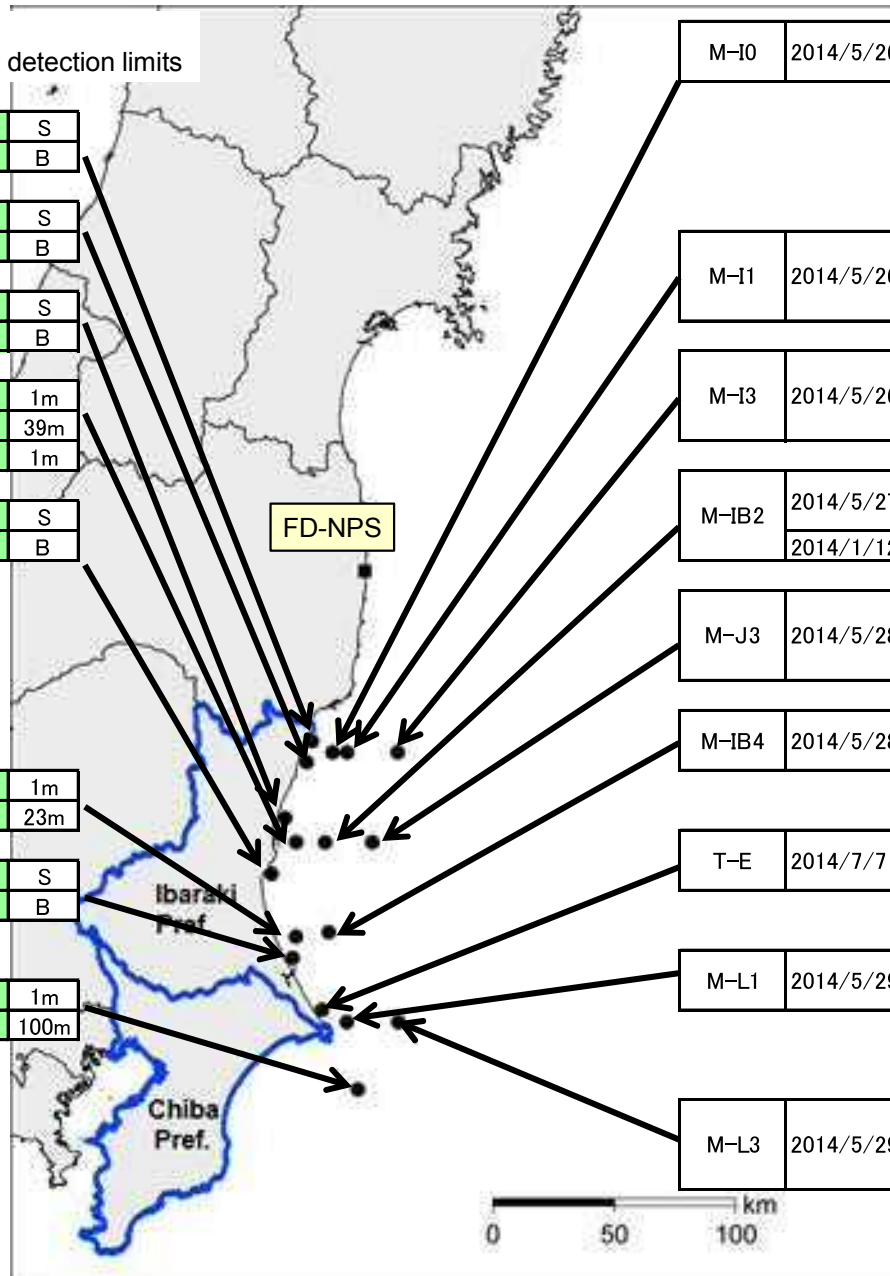
M-J1	2014/5/27	0.0015	0.0053	In progress	1m
		0.0015	0.0045		39m
	2014/1/13	0.0027	0.0076	0.00079	1m

T-C	2014/7/8	ND(1.2)	ND(1.3)	ND(0.009)	S
		ND(1.2)	ND(1.3)		B

M-K1	2014/5/27	0.00084	0.0035		1m
		0.0012	0.0040		23m

T-D	2014/7/7	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

M-M1	2014/5/29	ND(0.00074)	0.0025		1m
		ND(0.00057)	0.0029		100m



M-I0	2014/5/26	0.0015	0.0054		1m
		0.0014	0.0046		63m

M-I1	2014/5/26	0.0015	0.0056		1m
		0.0027	0.0062		50m
		0.00070	0.0034		89m

M-I3	2014/5/26	ND(0.00079)	0.0022		1m
		ND(0.00059)	0.0017		100m
		ND(0.00074)	0.0019		170m

M-IB2	2014/5/27	0.0019	0.0076	In progress	1m
		ND(0.00075)	0.0025		104m
	2014/1/12	0.00092	0.0029	0.0011	1m

M-J3	2014/5/28	0.00084	0.0032		1m
		ND(0.00061)	0.0015		100m
		ND(0.00054)	0.00055		548m

M-IB4	2014/5/28	0.0017	0.0055		1m
		0.0012	0.0039		107m

T-E	2014/7/7	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

M-L1	2014/5/29	ND(0.00062)	0.0030		1m
		0.00080	0.0032		34m

M-L3	2014/5/29	0.00062	0.0026		1m
		ND(0.00064)	0.0027		100m
		ND(0.00063)	0.0027		154m

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	2013/10/19	ND(0.00080)	0.0026	1m
		ND(0.00079)	0.0029	100m
		ND(0.00056)	0.0018	200m
		ND(0.00064)	0.0012	300m
		ND(0.00071)	0.00080	500m

M-14	2013/10/28	ND(0.00078)	0.0025	1m
		ND(0.00069)	0.0018	100m
		ND(0.00058)	0.0016	200m
		ND(0.00058)	0.0016	300m
		ND(0.00065)	0.00091	500m

M-19	2013/10/30	ND(0.00082)	0.0018	1m
		ND(0.00069)	0.0025	100m
		ND(0.00058)	0.0021	200m
		ND(0.00069)	0.0015	300m
		ND(0.00066)	0.00093	500m

M-20	2013/10/30	ND(0.00060)	0.0017	1m
		ND(0.00071)	0.0022	100m
		0.0014	0.0050	200m
		ND(0.00089)	0.0038	300m
		ND(0.00060)	0.0014	500m

M-25	2013/10/31	ND(0.00080)	0.0014	1m
		ND(0.00065)	0.0019	100m
		0.00084	0.0034	200m
		0.0025	0.0068	300m
		ND(0.00057)	0.0022	500m

M-11	2013/10/19	ND(0.00064)	0.0022	1m
		0.0020	0.0061	100m
		0.00071	0.0029	200m
		ND(0.00077)	0.0025	300m
		ND(0.00054)	0.0013	500m

M-15	2013/10/29	ND(0.00069)	0.0019	1m
		0.00091	0.0018	100m
		ND(0.00070)	0.0019	200m
		ND(0.00050)	0.0018	300m
		ND(0.00057)	0.00065	500m

M-21	2013/10/29	ND(0.00083)	0.0017	1m
		ND(0.00060)	0.0015	100m
		0.00097	0.0039	200m
		0.00078	0.0028	300m
		ND(0.00072)	0.0011	500m

M-26	2013/10/31	ND(0.00085)	0.0024	1m
		ND(0.00068)	0.0026	100m
		0.0012	0.0038	200m
		0.0022	0.0061	300m
		ND(0.00081)	0.0034	500m

M-27	2013/11/1	ND(0.00068)	0.0021	1m
		ND(0.00060)	0.0016	100m
		0.00083	0.0029	200m
		0.0015	0.0047	300m
		0.0011	0.0038	500m

