

Sea Area Monitoring

March 11 , 2014

Nuclear Regulation Authority (NRA), Japan

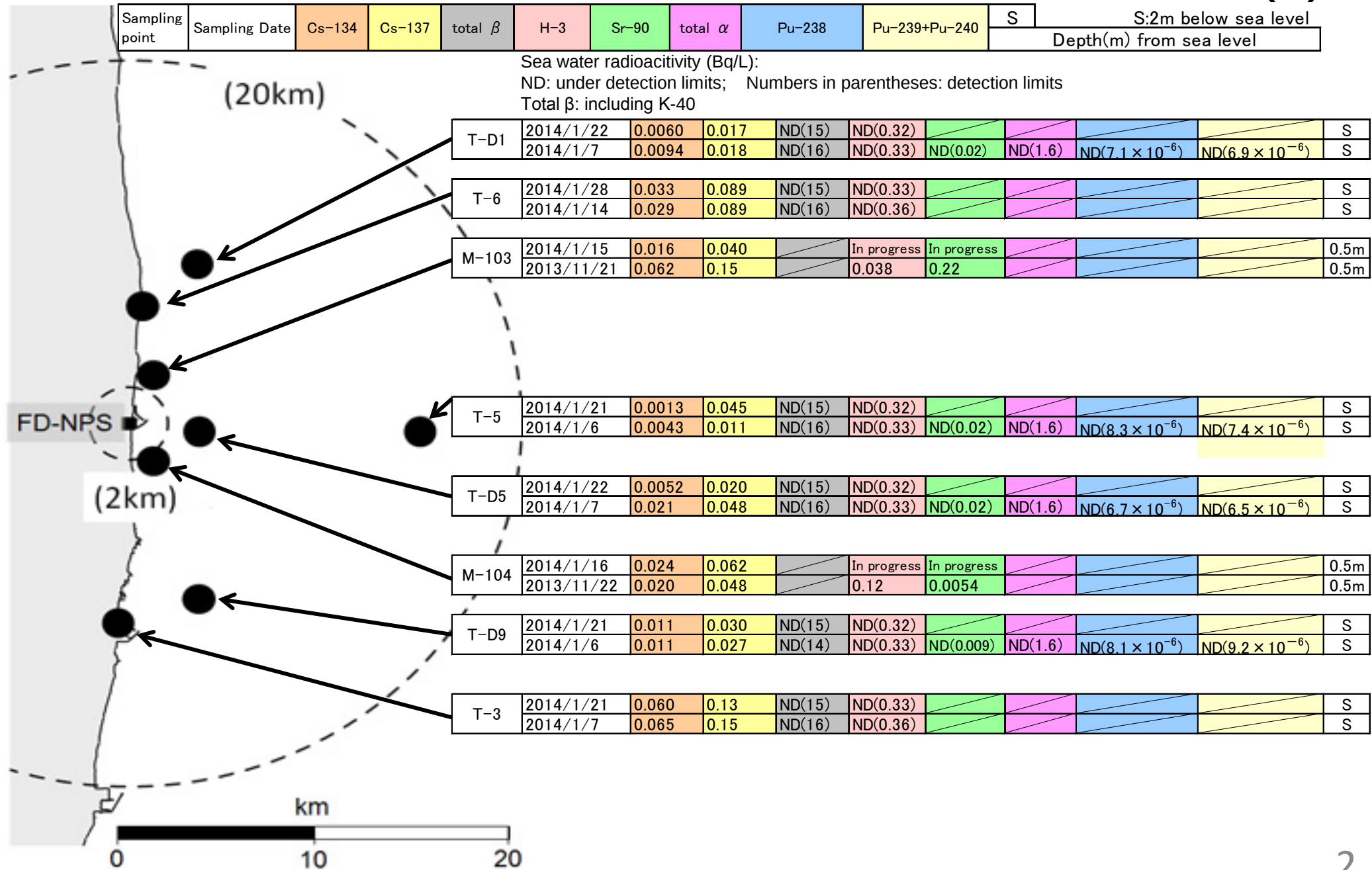
Sea area within 2km radius from the NPS



**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 Total β : including K-40									
T-1	2014/2/24	ND(0.76)	ND(0.85)	13	ND(1.5)				
	2014/1/13	ND(0.81)	ND(0.82)	11	ND(1.7)	0.13	ND(1.6)		
	2014/1/7	1.6	2.8					ND(5.6×10^{-6})	$(5.7 \pm 1.6) \times 10^{-6}$
T-0-1A	2014/2/26	ND(0.74)	ND(0.58)	ND(15)	In progress				
	2014/2/19	ND(0.76)	ND(0.63)	ND(15)	ND(1.5)				
T-0-1	2014/2/26	ND(0.66)	ND(0.53)	ND(15)	In progress				
	2014/2/19	ND(0.68)	ND(0.76)	ND(15)	ND(1.5)				
M-101	2014/1/15	0.030	0.078		In progress	In progress			
	2013/11/21	0.030	0.075		0.14	0.023			
T-0-2	2014/2/26	ND(0.78)	ND(0.72)	ND(15)	In progress				
	2014/2/19	ND(0.53)	ND(0.69)	ND(15)	ND(1.5)				
M-102	2014/1/16	0.054	0.13		In progress	In progress			
	2013/11/22	0.066	0.16		0.32	0.066			
T-0-3A	2014/2/26	ND(0.73)	ND(0.67)	ND(15)	In progress				
	2014/2/19	ND(0.78)	ND(0.73)	ND(15)	ND(1.5)				
T-0-3	2014/2/26	ND(0.68)	ND(0.73)	ND(15)	In progress				
	2014/2/19	ND(0.85)	ND(0.60)	ND(15)	ND(1.5)				
T-2-1	2014/2/24	ND(0.76)	ND(0.80)	13	ND(1.5)				
	2014/1/13	ND(0.81)	ND(0.82)	15	ND(1.7)	0.023	ND(1.6)		
	2014/1/7	ND(0.96)	ND(0.64)	11				ND(5.8×10^{-6})	ND(6.0×10^{-6})

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

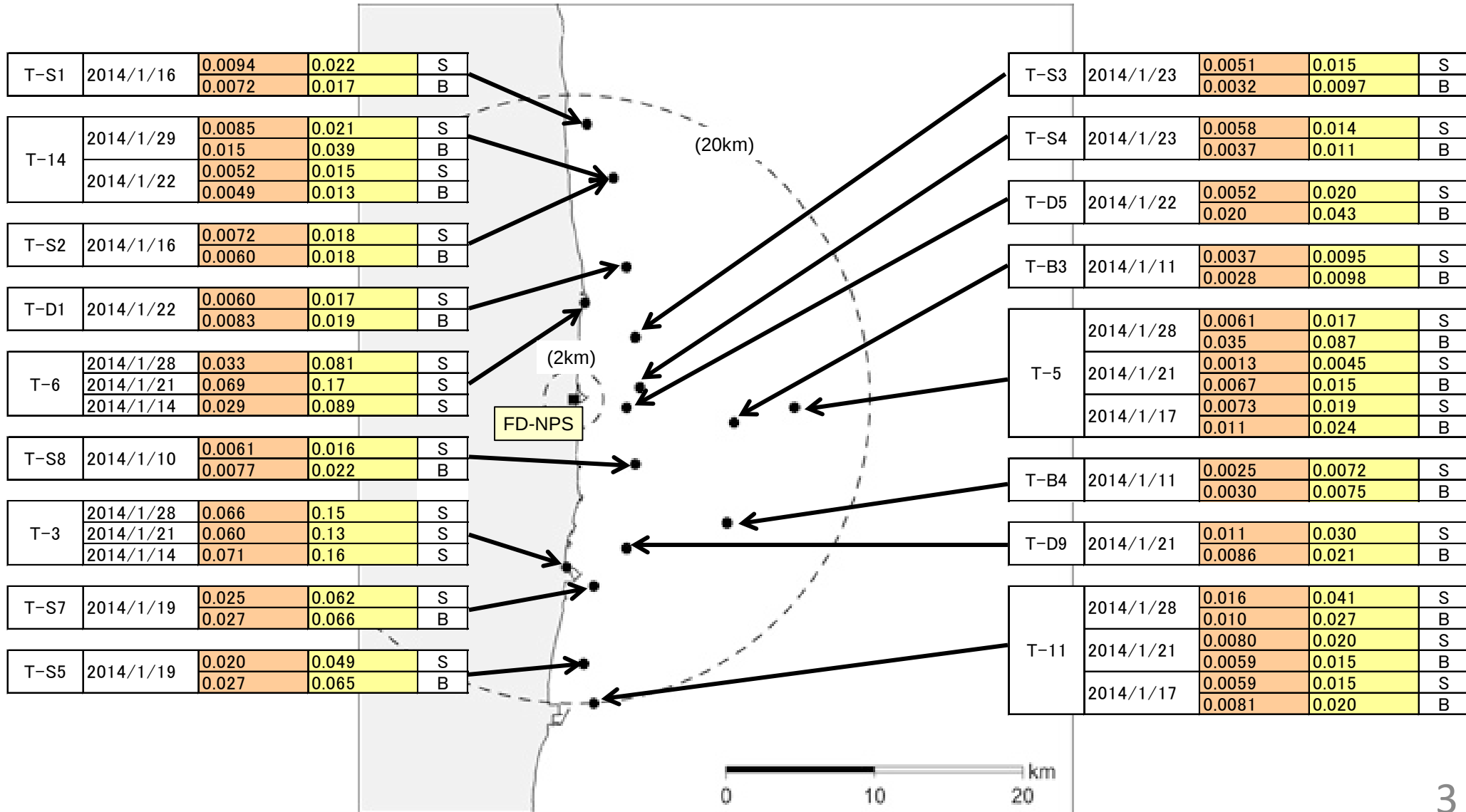


Sea area between 2-20km radius from the NPS (2)

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	2014/1/10	0.037	0.089		S
		0.0067	0.019		B

T-13-1	2014/1/10	0.013	0.030		S
		0.015	0.036		B

T-7	2014/1/8	0.0026	0.0063		S
		0.0039	0.013		B

T-4	2014/1/28	0.049	0.12		S
	2014/1/21	0.035	0.094		S
	2014/1/14	0.039	0.089		S

T-12	2014/1/18	0.053	0.14		S
		0.0096	0.024		B

T-17-1	2014/1/18	0.015	0.038		S
		0.0089	0.024		B

M-C1	2013/11/7	0.0025	0.0066		1m
		0.0015	0.0045		51m

T-B1	2014/1/15	0.0060	0.016		S
		0.0050	0.015		B

M-D1	2013/11/8	0.0014	0.0030		1m
		ND(0.00065)	0.0021		50m
		0.00079	0.0026		118m

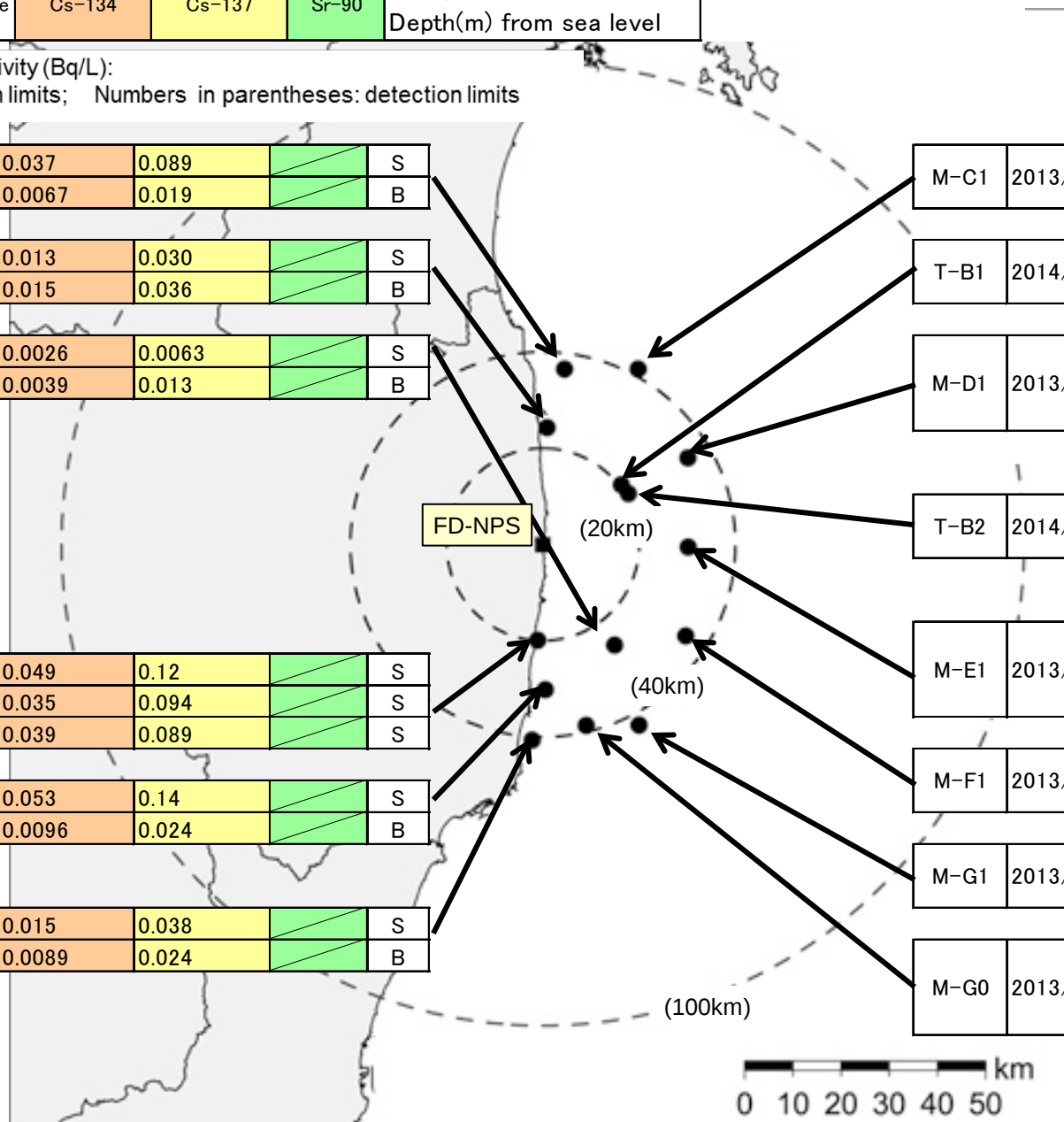
T-B2	2014/1/15	0.0085	0.019		S
		0.0020	0.0061		B

M-E1	2013/11/9	0.00062	0.0030		1m
		0.00073	0.0026		50m
		0.0010	0.0035		125m

M-F1	2013/11/9	0.0041	0.010		1m
		ND(0.00080)	0.0021		130m

M-G1	2013/11/15	0.00066	0.0028		1m
		ND(0.00077)	0.0027		123m

M-G0	2013/11/19	ND(0.00081)	0.0021		1m
		ND(0.00065)	0.0023		50m
		0.0016	0.0037		100m

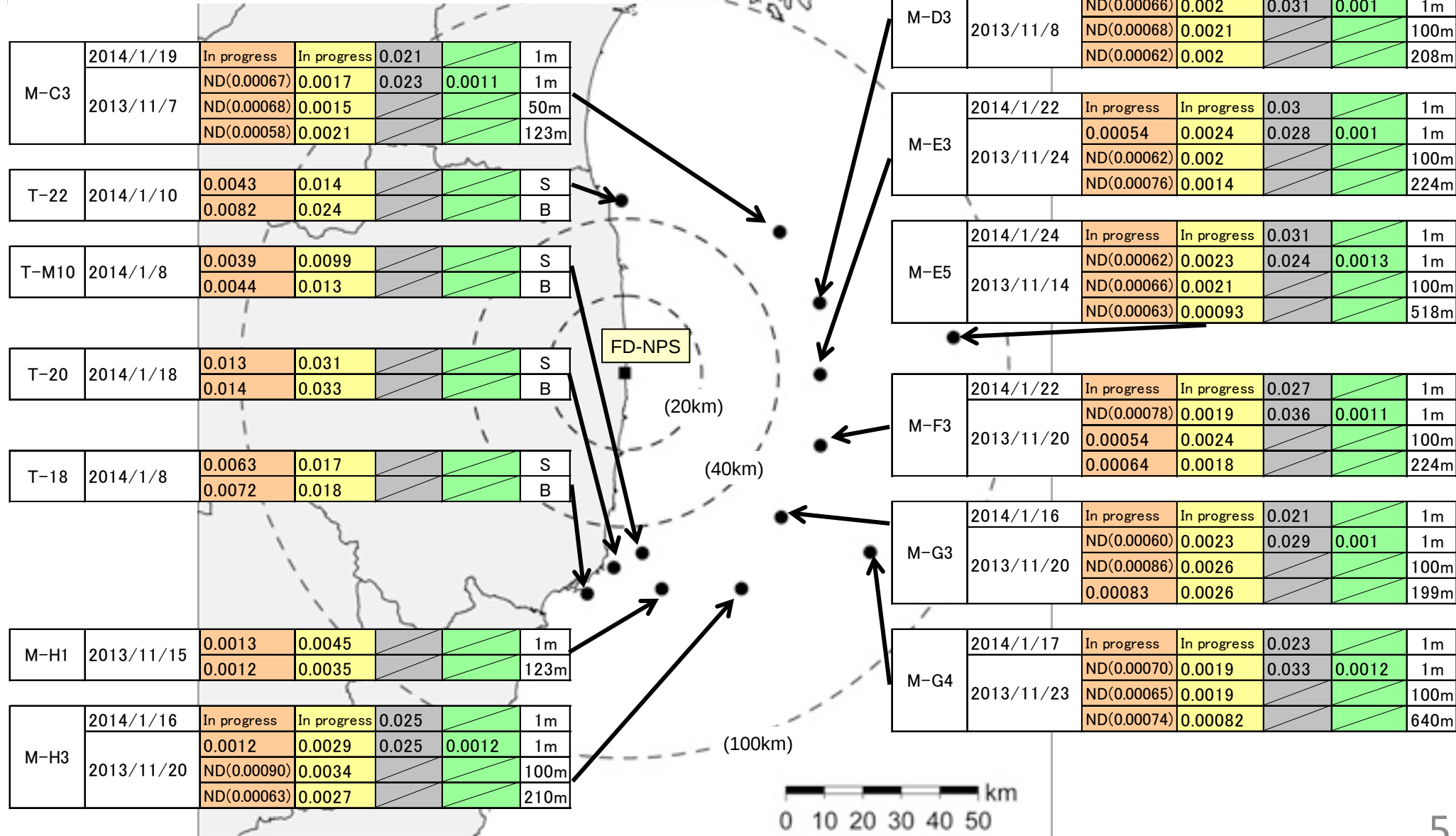


Sea area between 20-100km radius from the NPS(2)

Sampling point	Sampling Date	Cs-134	Cs-137	Total β^*	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 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	2014/1/7	0.0040	0.0096		S
		0.0024	0.0095		M
		0.0027	0.0079		B

T-MG4	2014/1/7	0.0019	0.0081		S
		0.0024	0.0078		M
		0.0027	0.0081		B

T-MG5	2014/1/7	ND(0.0015)	0.0043	ND(0.02)	S
		ND(0.0015)	0.0045		M
		0.0015	0.0044		B

T-MG6	2014/1/7	0.0031	0.0094		S
		0.0038	0.0084		M
		0.0032	0.0092		B

M-B1	2013/11/5	0.0031	0.0085		1m
		0.00097	0.0034		34m

M-B3	2013/11/5	0.0016	0.0032		1m
		ND(0.00051)	0.0020		50m
		ND(0.00067)	0.0019		104m

T-MG0	2014/1/8	ND(0.0015)	0.0032		S
		ND(0.0015)	0.0011		M
		ND(0.0015)	0.0016		B

M-A1	2013/11/4	ND(0.00059)	0.0019		1m
		ND(0.00072)	0.0017		101m
		ND(0.00059)	0.0020		190m

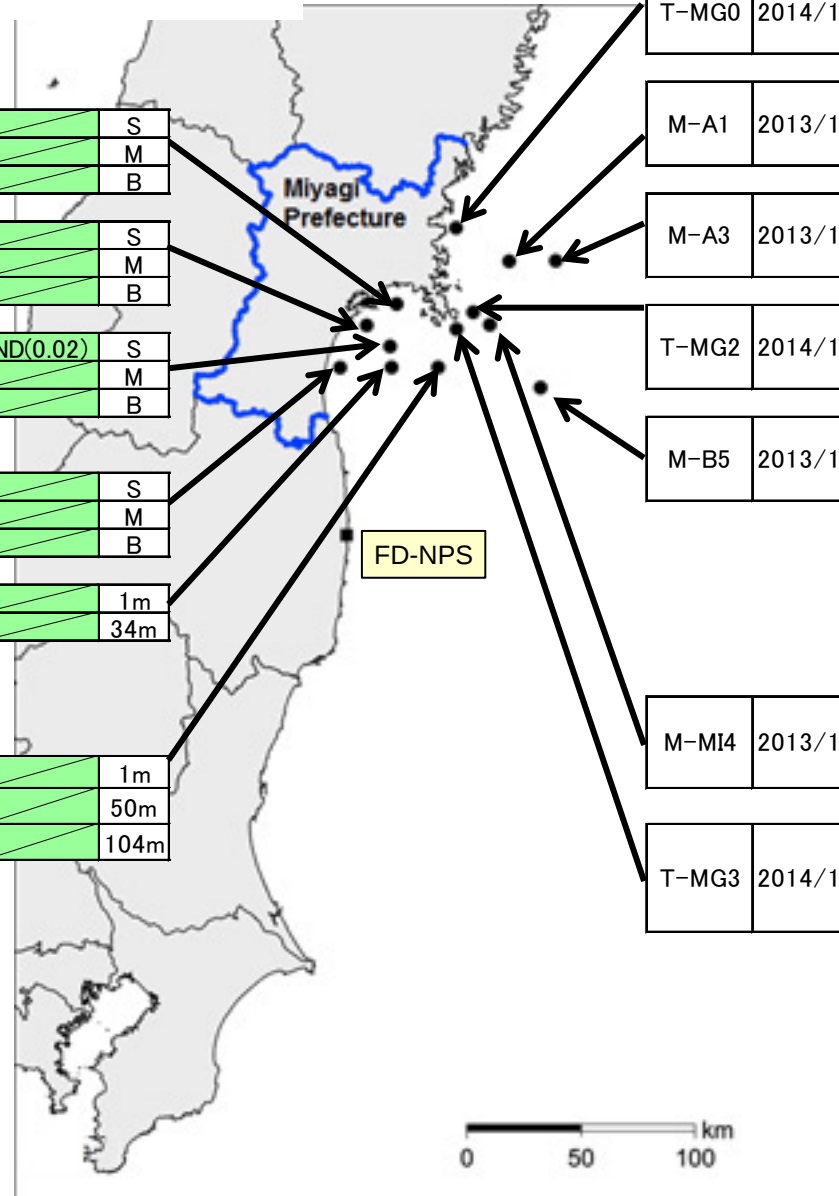
M-A3	2013/11/4	ND(0.00058)	0.0017		1m
		ND(0.00076)	0.0022		100m
		ND(0.00058)	0.00089		475m

T-MG2	2014/1/7	ND(0.0015)	0.0021		S
		ND(0.0015)	0.0022		M
		ND(0.0015)	0.0015		B

M-B5	2013/11/6	ND(0.00071)	0.0019		1m
		ND(0.00072)	0.0020		100m
		ND(0.00056)	0.0017		350m

M-MI4	2013/11/6	ND(0.00067)	0.0022		1m
		ND(0.00068)	0.0018		100m
		ND(0.00058)	0.0025		150m

T-MG3	2014/1/7	ND(0.0015)	0.0025		S
		ND(0.0015)	0.0019		M
		0.0063	0.012		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:2m below sea level	B:2-3m above	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	2014/2/18	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

T-A	2014/2/18	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

T-B	2014/2/20	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

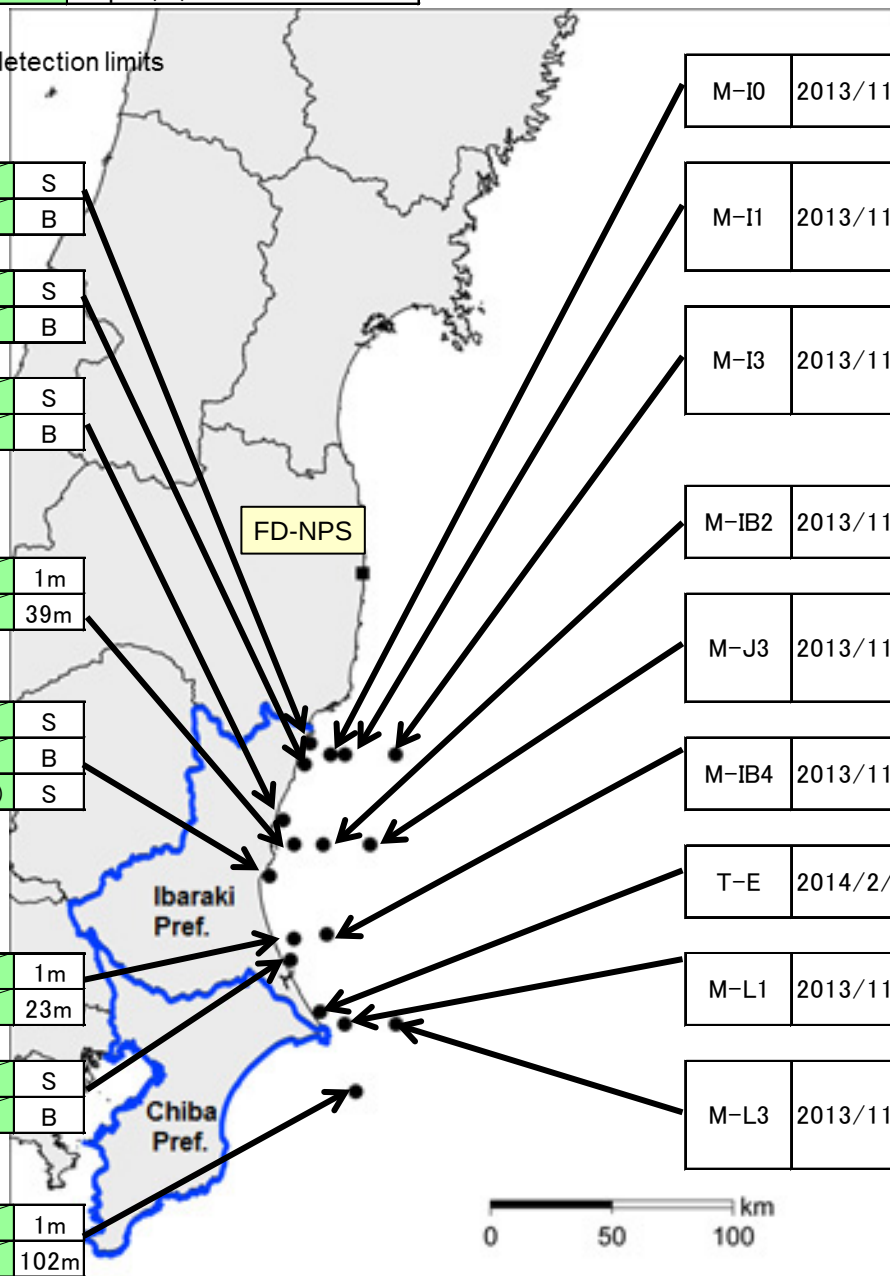
M-J1	2013/11/18	0.00085	0.0029		1m
		ND(0.00087)	0.0026		39m

T-C	2014/2/20	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B
	2014/1/22	ND(1.2)	ND(1.3)	ND(0.02)	S

M-K1	2013/11/18	0.0040	0.010		1m
		0.0043	0.010		23m

T-D	2014/2/19	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

M-M1	2013/11/22	ND(0.00060)	0.0024		1m
		0.00095	0.0023		102m



M-I0	2013/11/11	ND(0.00064)	0.0033		1m
		ND(0.00062)	0.0034		63m

M-I1	2013/11/11	0.0012	0.0036		1m
		ND(0.00071)	0.003		50m
		0.0011	0.004		89m

M-I3	2013/11/19	0.0018	0.0053		1m
		0.00080	0.0027		100m
		ND(0.00067)	0.0029		170m

M-IB2	2013/11/18	ND(0.00070)	0.0024		1m
		0.00079	0.0026		104m

M-J3	2013/11/21	0.00063	0.003		1m
		ND(0.00068)	0.0026		100m
		ND(0.00060)	0.00089		558m

M-IB4	2013/11/18	ND(0.00061)	0.0024		1m
		0.0012	0.0032		110m

T-E	2014/2/19	ND(1.2)	ND(1.3)		S
		ND(1.2)	ND(1.3)		B

M-L1	2013/11/22	0.00085	0.0028		1m
		ND(0.00070)	0.0032		36m

M-L3	2013/11/22	ND(0.00084)	0.0024		1m
		0.00082	0.0029		100m
		0.00061	0.0029		155m

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

