

Sea Area Monitoring

October 15, 2013

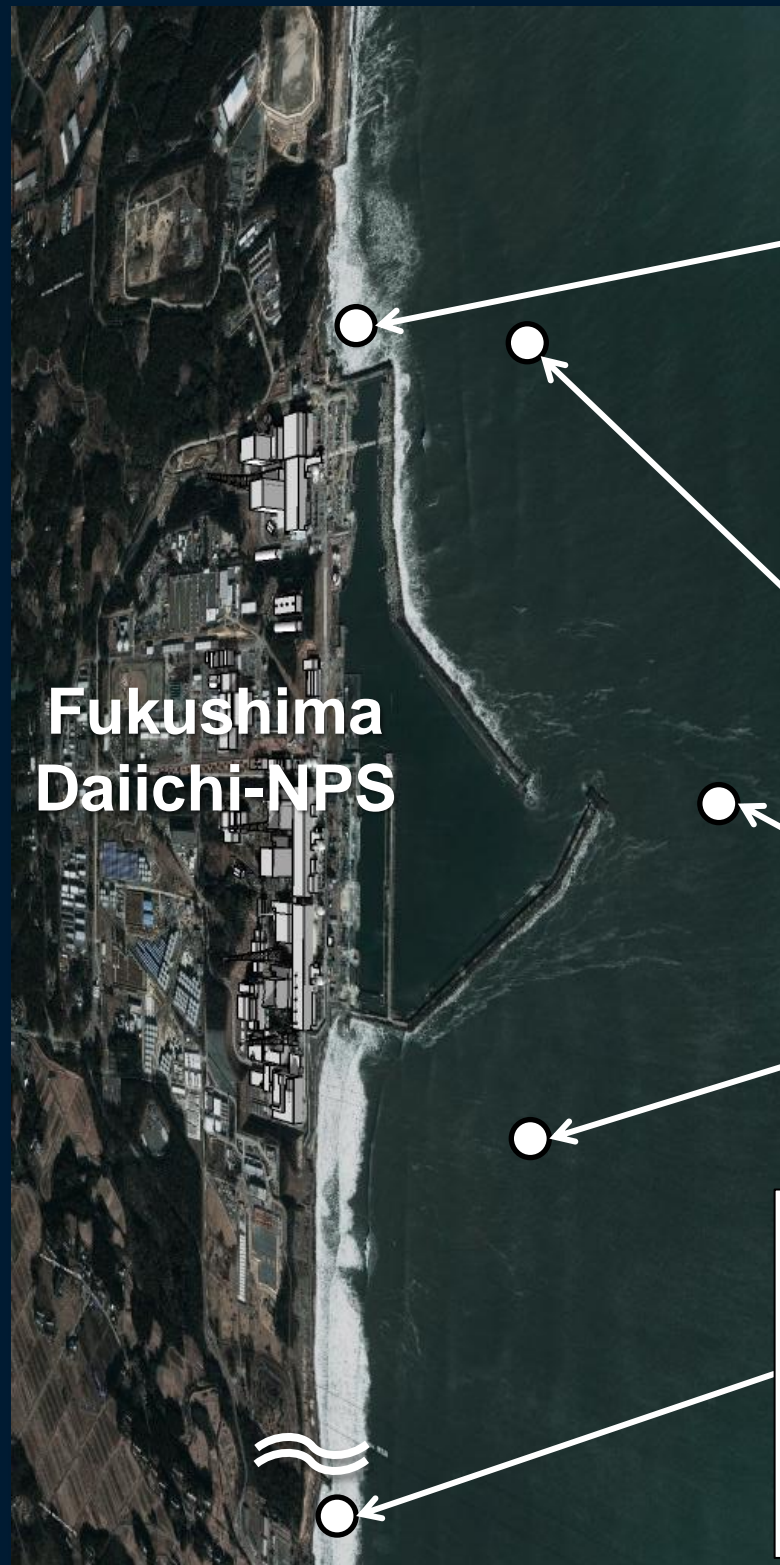
Nuclear Regulation Authority (NRA), Japan

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



Sampling Point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+ Pu-240
		2013/09/30	ND (1.5)	ND(1.5)	ND (15)	ND(1.7)	/	/	/
T-1	2013/09/23	ND (1.2)	ND(1.4)	ND (17)	ND(1.8)	/	/	/	/
	2013/08/12	ND (1.2)	1.4	ND (19)	4.7	In progress	In progress	/	/
	2013/08/06	ND (1.4)	1.7	/	/	/	/	ND(6.6×10^{-6})	$(7.5 \pm 2.1) \times 10^{-6}$

Sampling Point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+ Pu-240
		2013/10/4	ND (0.68)	ND (0.52)	ND (15)	In progress	/	/	/
T-0-1	2013/09/28	ND (0.61)	ND (0.57)	ND (16)	ND (1.7)	/	/	/	/

Sampling Point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+ Pu-240
		2013/10/4	ND (0.80)	ND (0.69)	ND (15)	In progress	/	/	/
T-0-2	2013/09/28	ND (0.66)	ND (0.64)	ND (16)	ND(1.7)	/	/	/	/

Sampling Point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+ Pu-240
		2013/10/4	ND (0.61)	ND (0.85)	ND (15)	In progress	/	/	/
T-0-3	2013/09/28	ND (0.64)	ND (0.57)	ND (16)	ND (1.7)	/	/	/	/

Sampling Point	Sampling Date	Cs-134	Cs-137	total β	H-3	Sr-90	total α	Pu-238	Pu-239+ Pu-240
		2013/09/30	ND (1.5)	ND(1.5)	ND (18)	ND(1.7)	/	/	/
T-2-1	2013/09/23	ND (1.2)	ND(1.4)	ND (17)	ND(1.8)	/	/	/	/
	2013/08/12	ND (1.2)	ND(1.4)	ND (19)	ND(2.9)	In progress	In progress	/	/
	2013/08/06	ND (1.4)	ND(1.3)	ND(21)	/	/	/	ND(7.6×10^{-6})	$(1.1 \pm 0.29) \times 10^{-5}$



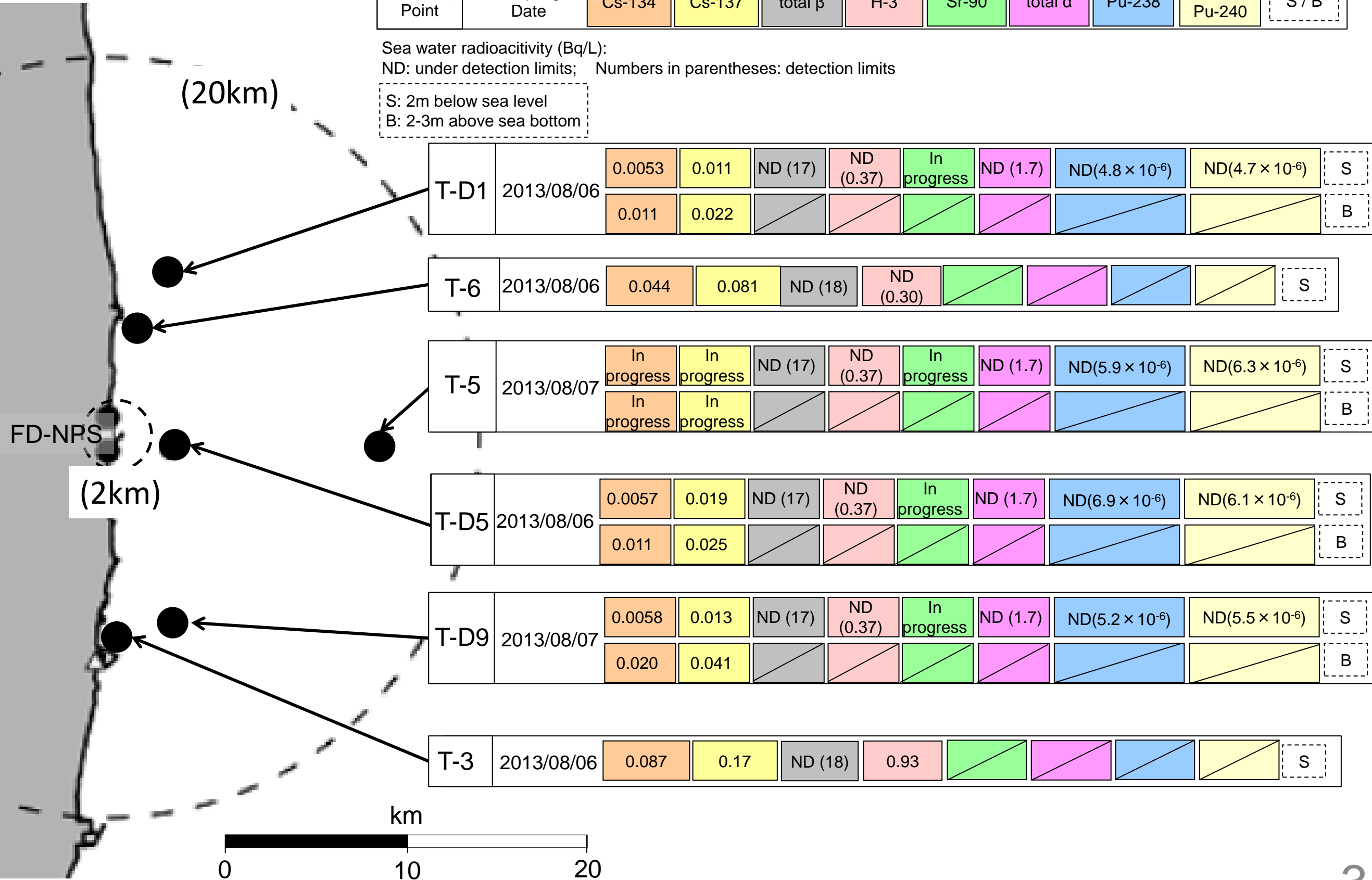
Sea area between 2-20km radius from the NPS (1)

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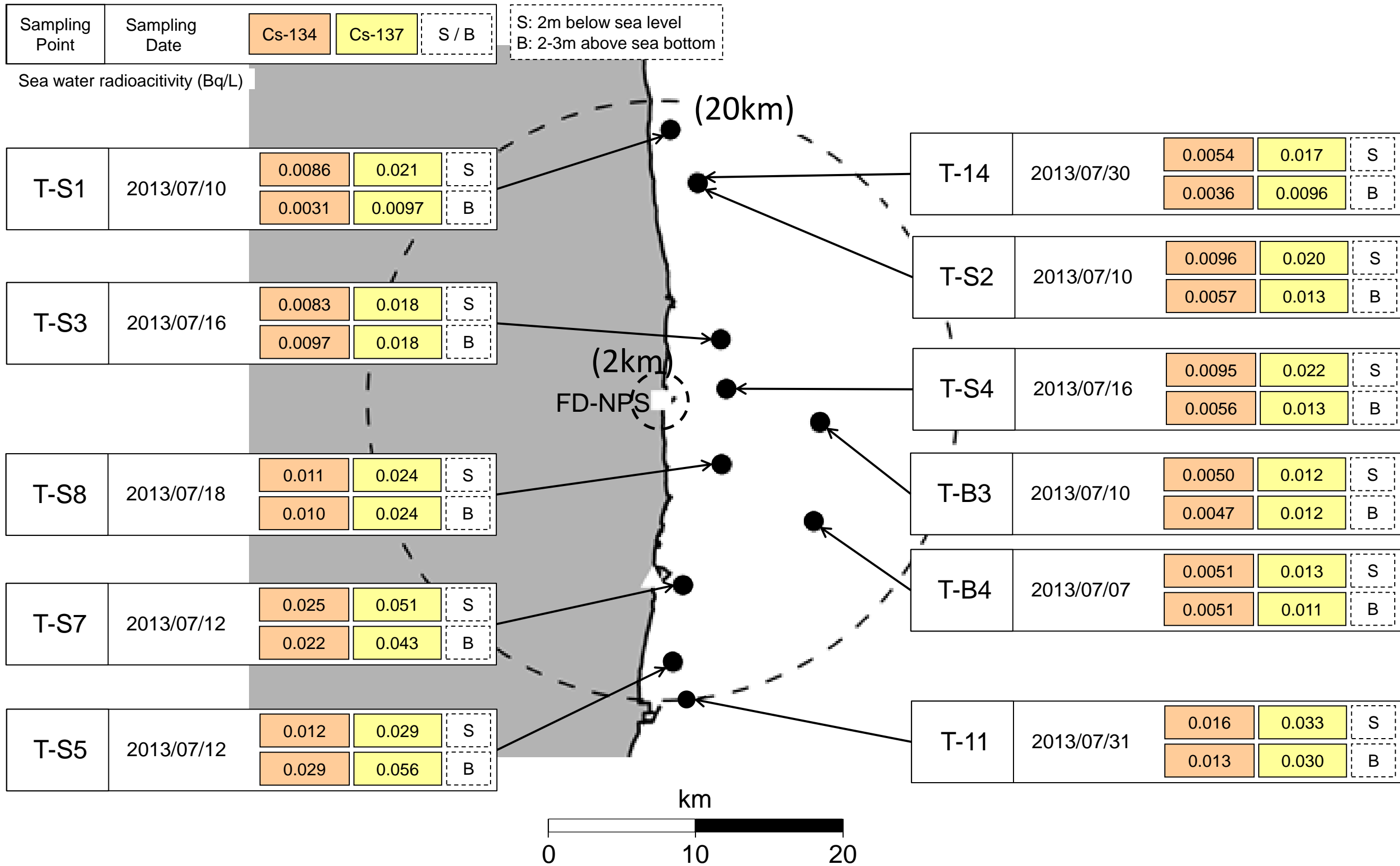
Sea water radioactivity (Bq/L):

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

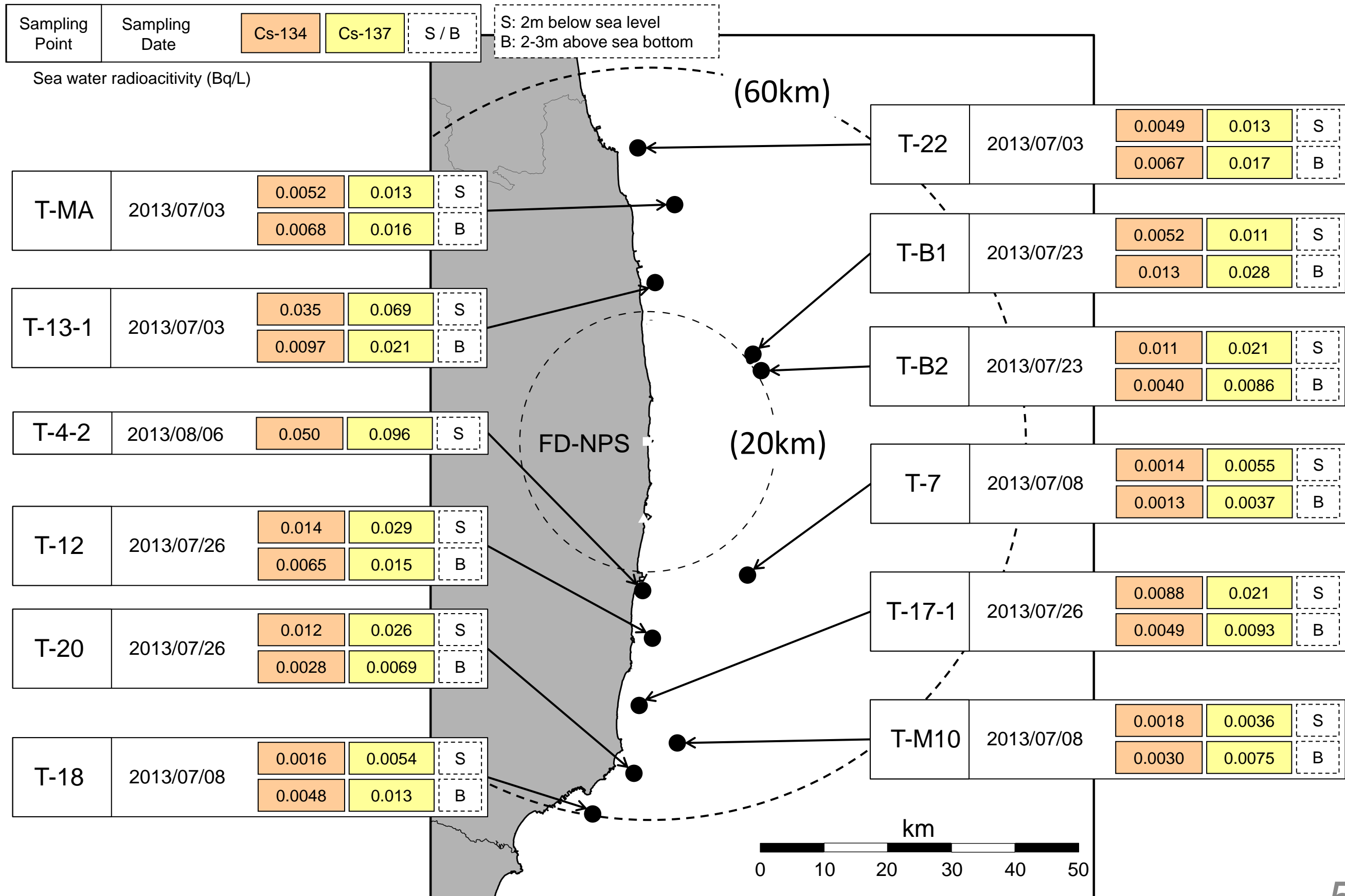
S: 2m below sea level
B: 2-3m above sea bottom



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



Sea area between 20-60km radius from the NPS



Sea area along 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

T-MG0	2013/07/10	ND (0.0017)	0.0019		S
		ND (0.0017)	0.0014		M
		ND (0.0017)	0.0016		B

T-MG1	2013/07/10	0.0056	0.011		S
		0.0039	0.0089		M
		ND (0.0017)	0.0046		B

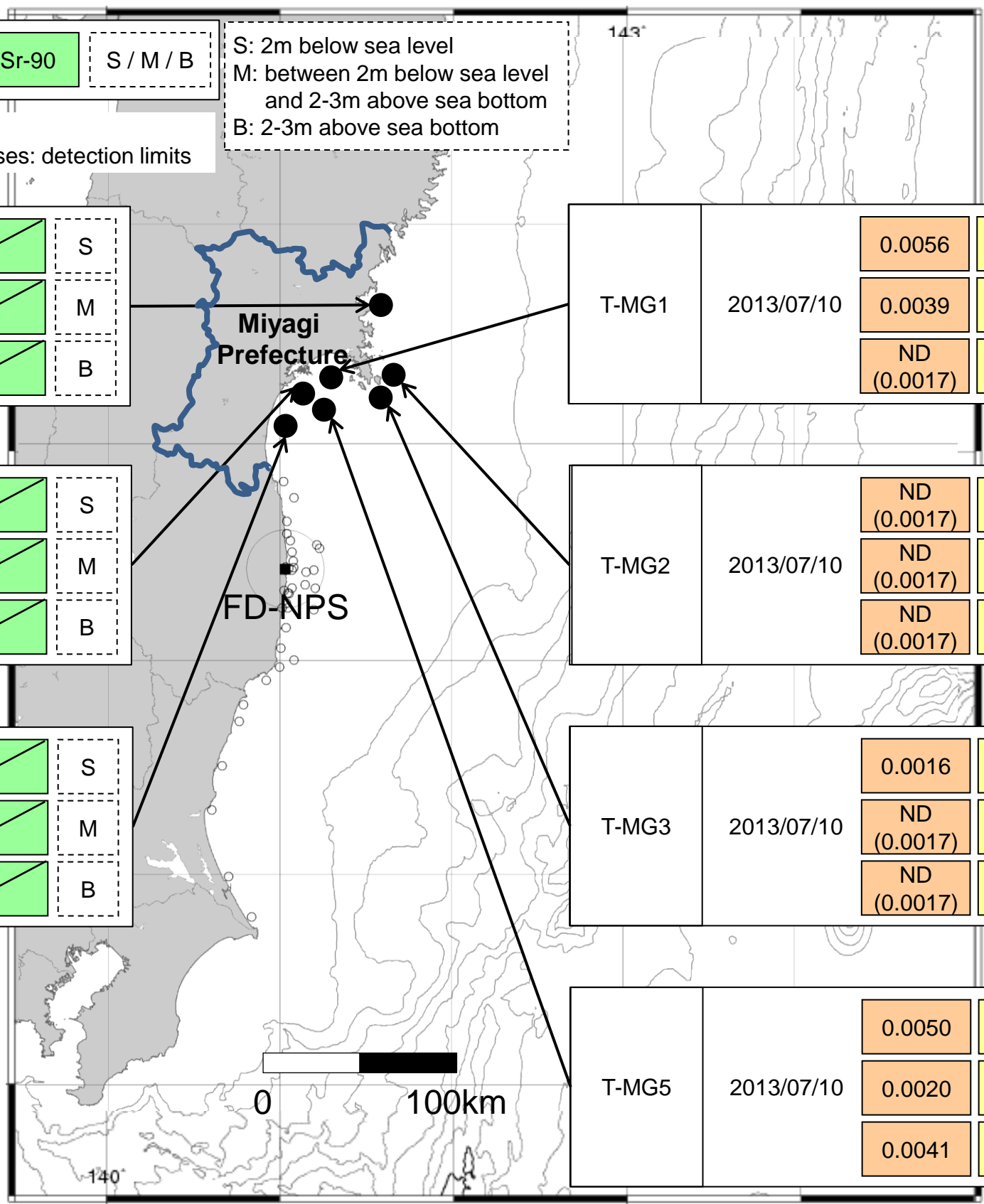
T-MG4	2013/07/10	0.0040	0.010		S
		0.0027	0.0083		M
		0.0036	0.0074		B

T-MG2	2013/07/10	ND (0.0017)	0.0016		S
		ND (0.0017)	0.0016		M
		ND (0.0017)	0.0020		B

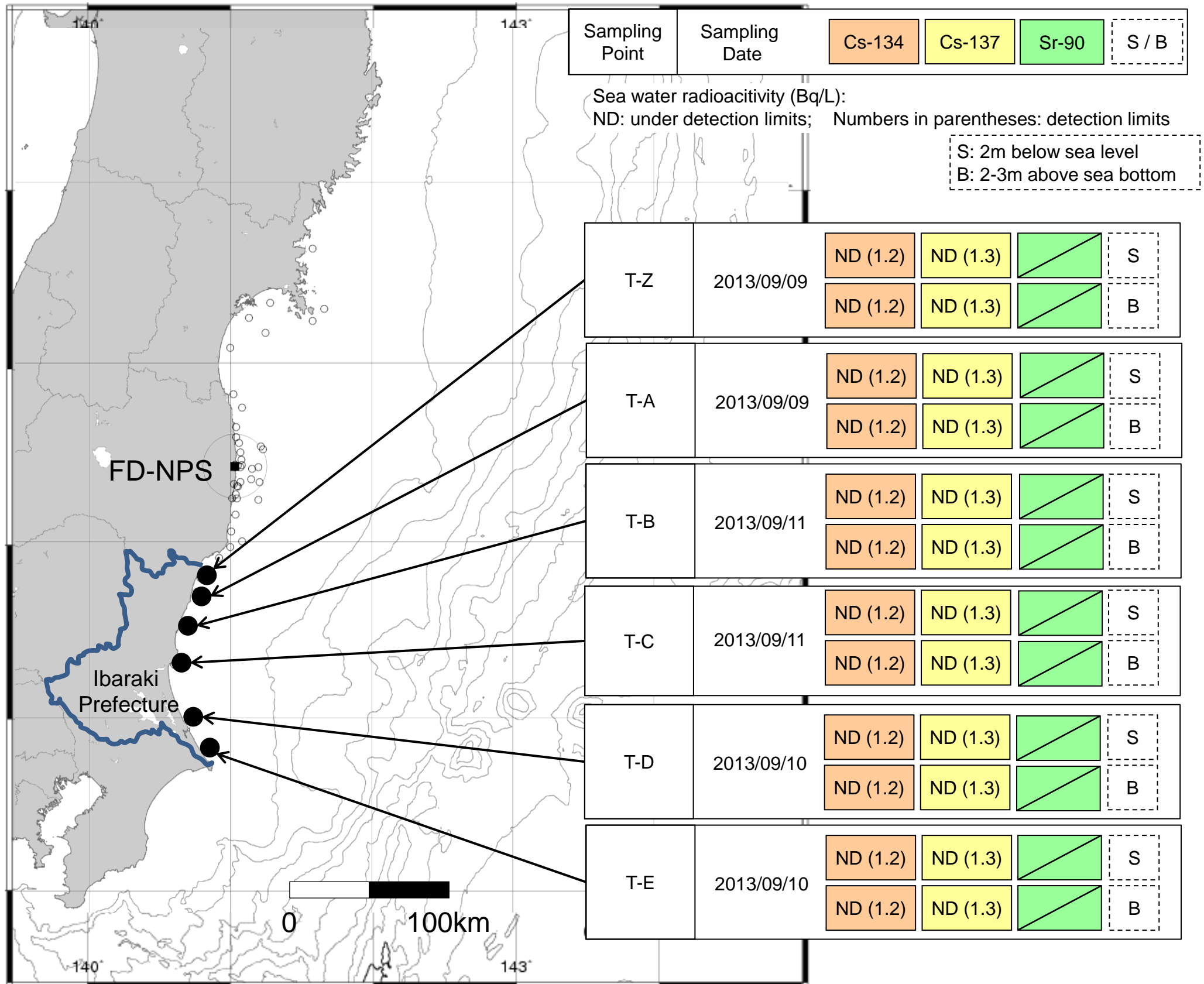
T-MG6	2013/07/10	0.0040	0.010		S
		ND (0.0017)	0.0021		M
		0.0046	0.010		B

T-MG3	2013/07/10	0.0016	0.0064		S
		ND (0.0017)	0.0020		M
		ND (0.0017)	0.0015		B

T-MG5	2013/07/10	0.0050	0.010	ND (0.01)	S
		0.0020	0.0048		M
		0.0041	0.0069		B



Sea area along the coast of Ibaraki Prefecture



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

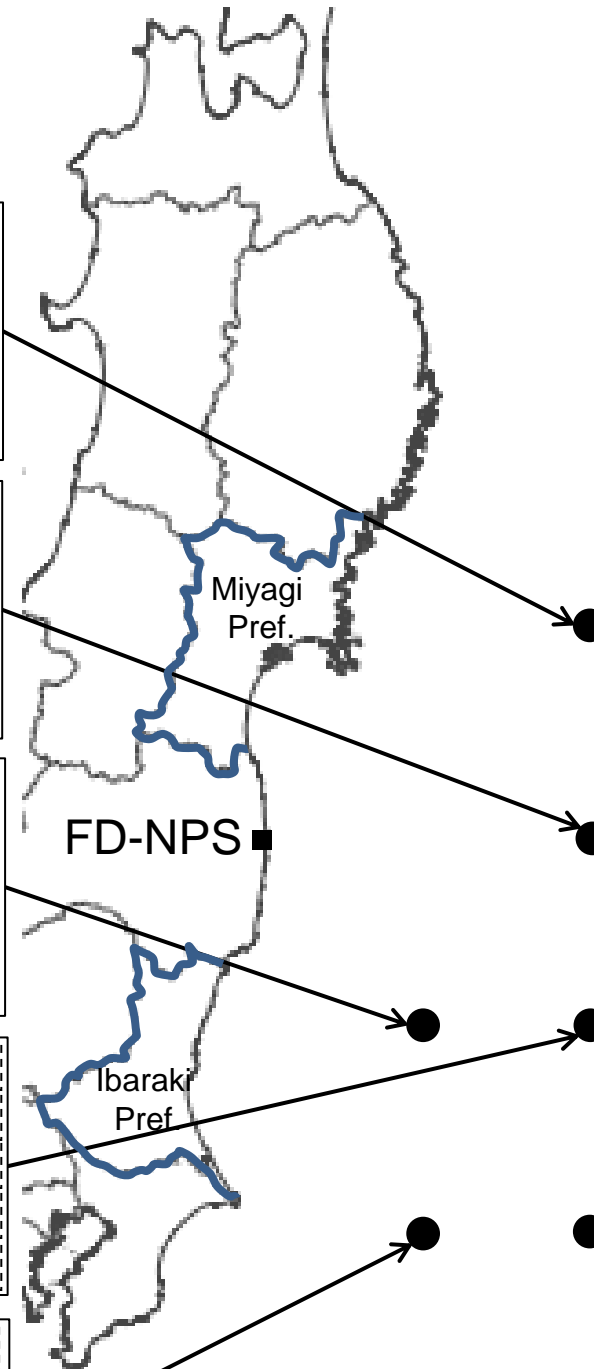
M-10	2013/05/19	0.0011	0.0029	1m
		ND (0.00068)	0.0021	100m
		ND (0.00064)	0.0022	200m
		ND (0.00065)	0.0019	300m
		ND (0.00061)	0.00091	500m

M-14	2013/05/18	ND (0.00079)	0.0026	1m
		ND (0.00074)	0.0021	100m
		ND (0.00074)	0.0015	200m
		ND (0.00066)	0.0015	300m
		ND (0.00068)	0.00090	500m

M-19	2013/05/17	0.0010	0.0028	1m
		ND (0.00061)	0.0014	100m
		ND (0.00059)	0.0017	200m
		ND (0.00069)	0.0014	300m
		ND (0.00059)	0.0010	500m

M-20	2013/05/18	ND (0.00082)	0.0025	1m
		ND (0.00095)	0.0019	100m
		ND (0.00092)	0.0018	200m
		ND (0.00096)	0.0014	300m
		ND (0.00084)	0.00080	500m

M-25	2013/05/14	ND (0.0010)	0.0016	1m
		ND (0.00092)	0.0022	100m
		0.0020	0.0044	200m
		ND (0.00094)	0.0031	300m
		ND (0.00087)	0.0012	500m



M-11	2013/05/16	ND (0.00096)	0.0025	1m
		ND (0.00095)	0.0023	100m
		0.0010	0.0018	200m
		ND (0.00092)	0.00095	300m
		ND (0.00097)	0.00068	500m

M-15	2013/05/16	ND (0.00095)	0.0023	1m
		ND (0.00088)	0.0018	100m
		ND (0.00097)	0.0020	200m
		ND (0.00096)	0.0016	300m
		ND (0.00085)	0.00084	500m

M-21	2013/05/15	ND (0.00068)	0.0019	1m
		ND (0.00069)	0.0026	100m
		0.0026	0.0056	200m
		0.0013	0.0043	300m
		ND (0.00064)	0.0015	500m

M-26	2013/05/14	ND (0.00069)	0.0020	1m
		ND (0.00065)	0.0025	100m
		0.0011	0.0036	200m
		0.0011	0.0034	300m
		ND (0.00085)	0.0015	500m

M-27	2013/05/15	ND (0.00094)	0.0022	1m
		ND (0.00096)	0.0030	100m
		0.0012	0.0044	200m
		ND (0.0010)	0.0027	300m
		ND (0.00089)	0.0021	500m