

# Sea Area Monitoring

December 27, 2021

Nuclear Regulation Authority (NRA), Japan

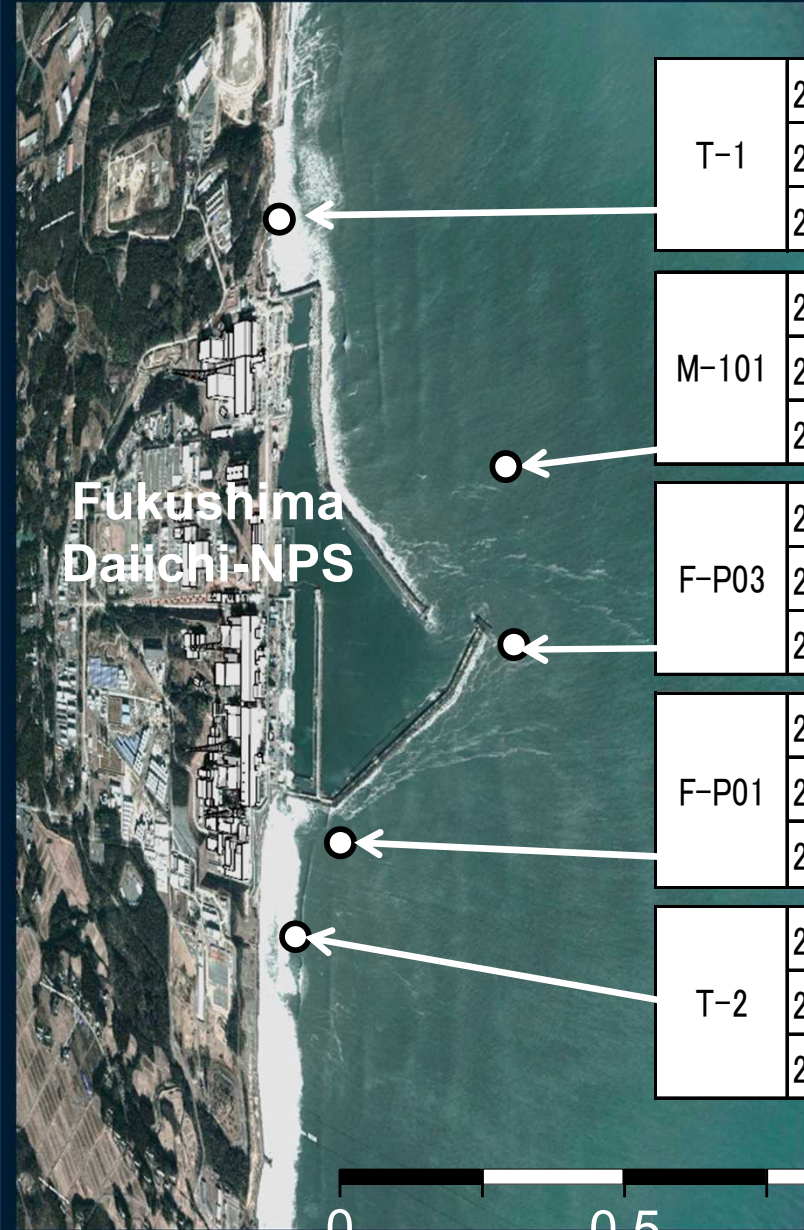
# The most recent radioactivity data of sea area within 2km from the NPS

Sampling point	Sampling Date	Cs-134	Cs-137	Gross $\beta$	H-3	Sr-90	Gross $\alpha$	Pu-238	Pu-239+Pu-240
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Seawater radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

\* 1 : Gross  $\beta$  : including K-40      \* 2 : Gross  $\beta$  : excluding K-40



T-1	2021/9/8	0.019	0.48	8.9 <sup>*1</sup>	1.1	0.081	ND(2.2)		
	2021/10/4	0.018	0.47	12 <sup>*1</sup>	2.1	0.032	ND(1.9)	ND( $5.4 \times 10^{-6}$ )	ND( $5.1 \times 10^{-6}$ )
	2021/11/8	0.026	0.071						
M-101	2021/8/7	ND(0.00046)	0.016		0.14	0.0011			
	2021/9/9	0.0035	0.093		0.38	0.011			
	2021/10/8	0.0030	0.083			0.0043			
F-P03	2021/6/3	ND(0.003)	0.048	0.02 <sup>*2</sup>	ND(0.33)	0.0030		ND( $6 \times 10^{-6}$ )	0.000007
	2021/7/6	ND(0.003)	0.010	0.02 <sup>*2</sup>	ND(0.33)	0.0012		ND( $7 \times 10^{-6}$ )	ND( $8 \times 10^{-6}$ )
	2021/8/4	0.004	0.12	0.01 <sup>*2</sup>	0.34	0.0046		ND( $7 \times 10^{-6}$ )	0.000008
F-P01	2021/6/3	ND(0.002)	0.009	0.02 <sup>*2</sup>	ND(0.33)	0.0013		ND( $1 \times 10^{-5}$ )	0.000008
	2021/7/6	ND(0.002)	0.018	0.02 <sup>*2</sup>	ND(0.33)	0.0017		ND( $9 \times 10^{-6}$ )	ND( $9 \times 10^{-6}$ )
	2021/8/4	ND(0.003)	0.015	0.02 <sup>*2</sup>	ND(0.32)	0.0008		ND( $7 \times 10^{-6}$ )	ND( $9 \times 10^{-6}$ )
T-2	2021/9/8	0.0047	0.13	12 <sup>*1</sup>	ND(0.81)	0.018	ND(2.2)		
	2021/10/4	0.0036	0.097	7.2 <sup>*1</sup>	ND(0.80)	0.0039	ND(1.9)	ND( $5.2 \times 10^{-6}$ )	ND( $5.2 \times 10^{-6}$ )
	2021/11/8	0.0026	0.069						

0      0.5      1km

# Most recent radioactivity data of sea area between 2-20km from the NPS

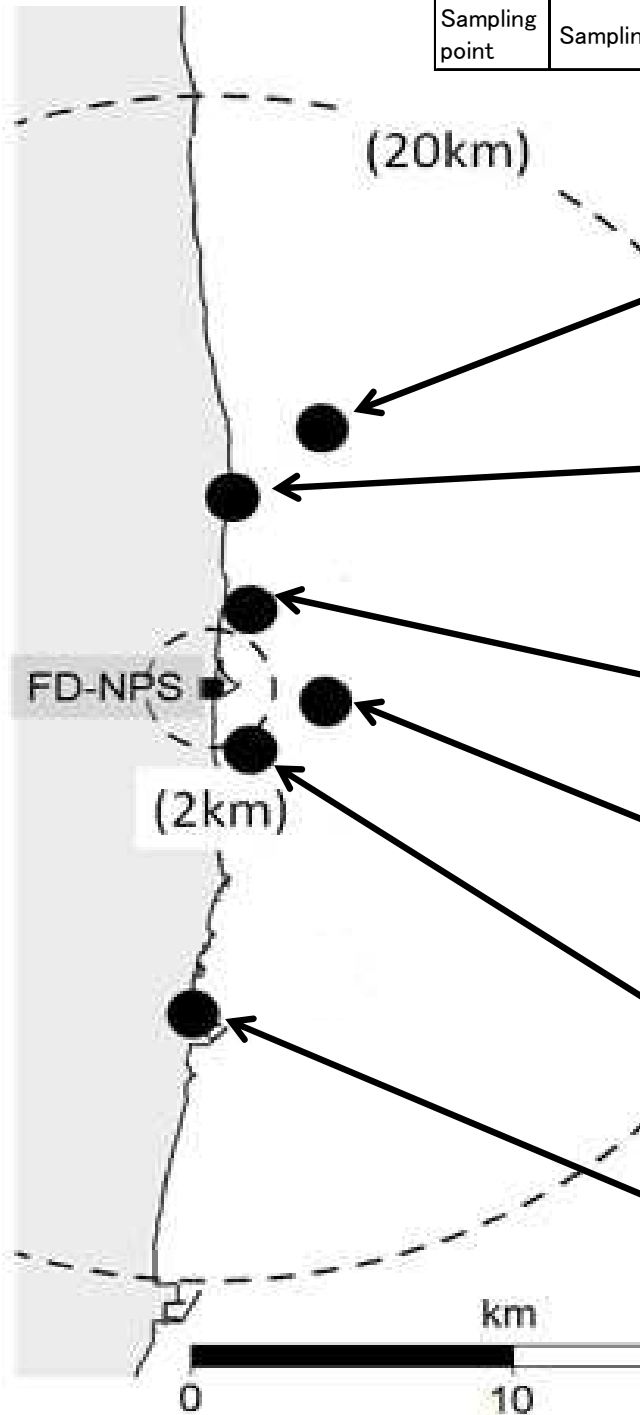
Sampling point	Sampling Date	Cs-134	Cs-137	Gross $\beta$	H-3	Sr-90	Gross $\alpha$	Pu-238	Pu-239+240	S	S:2m below sea level
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Seawater radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

Gross  $\beta$  : including K-40

Depth(m) from sea level



T-D1	2021/10/4	ND(0.0013)	0.032	ND(15)	0.34	0.0012	ND(2.4)			S
	2021/10/11	ND(0.0013)	0.097					ND( $4.3 \times 10^{-6}$ )	ND( $4.0 \times 10^{-6}$ )	S
	2021/11/1	ND(0.0014)	0.0066	ND(13)	ND(0.30)	0.00089	ND(1.9)			S
T-6	2021/9/7	ND(0.0011)	0.019	ND(12)	ND(0.29)					S
	2021/10/5	ND(0.0013)	0.025	ND(14)	ND(0.29)					S
	2021/11/2	ND(0.0013)	0.018	ND(13)	ND(0.29)					S
M-103	2021/8/7	ND(0.00045)	0.011		0.12	0.0010				0.5m
	2021/9/9	0.00064	0.019		0.12	0.0015				0.5m
	2021/10/8	0.00056	0.016			0.00072				0.5m
T-D5	2021/10/4	ND(0.0013)	0.0024	ND(15)	ND(0.30)	0.00077	ND(2.4)			S
	2021/10/11	ND(0.0013)	0.0085					ND( $4.4 \times 10^{-6}$ )	ND( $4.4 \times 10^{-6}$ )	S
	2021/11/1	ND(0.0014)	0.0095	ND(13)	ND(0.29)	0.0014	ND(1.9)			S
M-104	2021/8/6	ND(0.00050)	0.0039		0.075	0.00072				0.5m
	2021/9/10	ND(0.00049)	0.0058		ND(0.061)	0.0010				0.5m
	2021/10/7	ND(0.00045)	0.0059			0.00074				0.5m
T-3	2021/9/7	0.0015	0.035	ND(14)	ND(0.29)					S
	2021/10/5	0.0016	0.035	ND(14)	ND(0.29)					S
	2021/11/2	ND(0.0013)	0.025	ND(13)	ND(0.29)					S

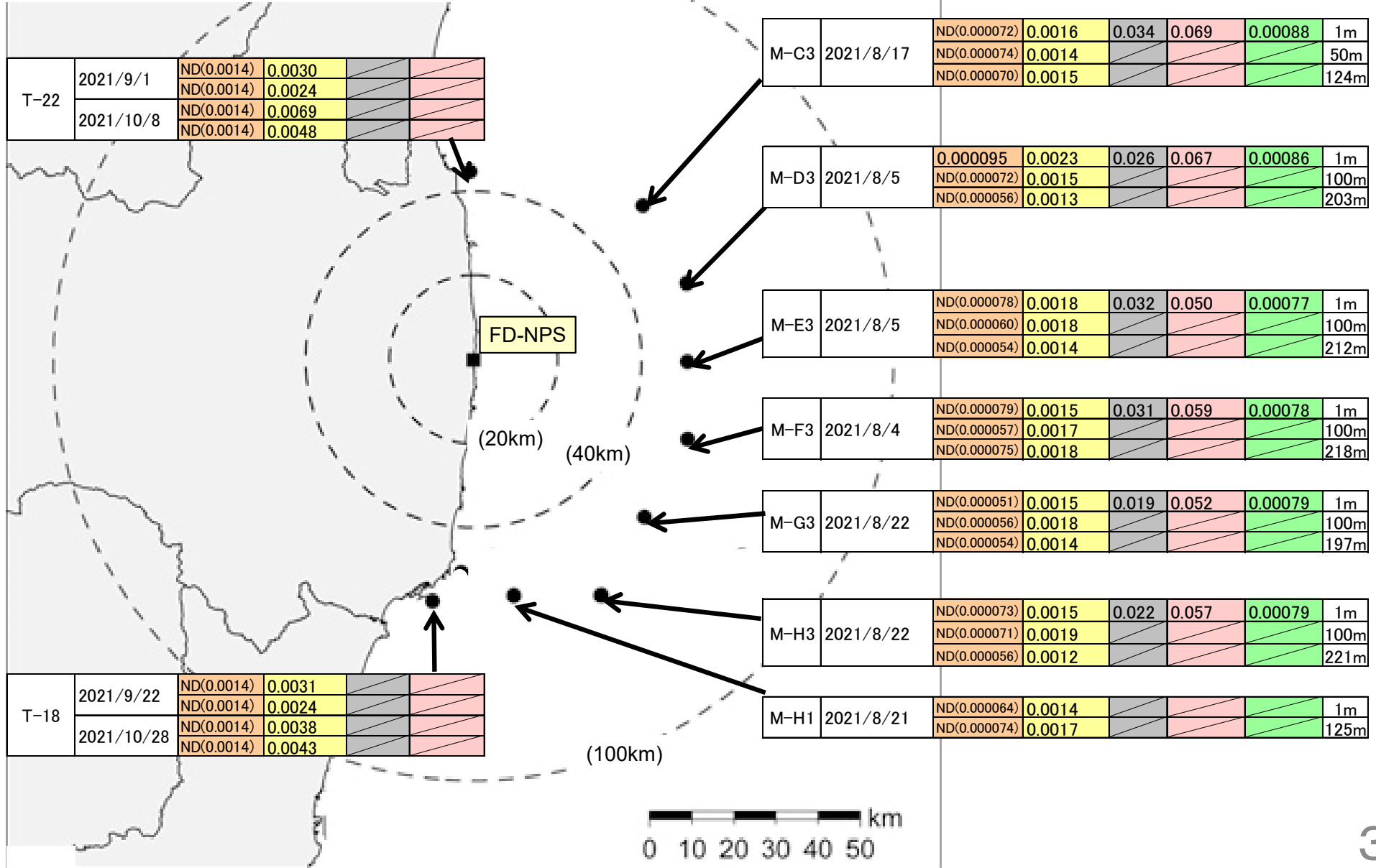
# Most recent radioactivity data of sea area between 40-100km from the NPS

Sampling point	Sampling Date	Cs-134	Cs-137	Gross $\beta$	H-3	Sr-90	S/B
							S:2m below sea level B:2-3m above sea bottom
							Depth(m) from sea level

Seawater radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

Gross  $\beta$ : excluding K-40



# Most recent radioactivity data of sea area along and off the coast of Miyagi Prefecture

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

Sampling point	Sampling Date	Cs-134	Cs-137	S/B
		Depth(m) from sea level		

Seawater radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

Sampling point	Sampling Date	Cs-134	Cs-137	S/B
		2021/10/18	ND(0.0014)	0.0031
T-MG1	2021/11/17	ND(0.0013)	0.0026	B
		ND(0.0012)	0.0027	S
T-MG1	2021/11/17	ND(0.0015)	0.0022	B

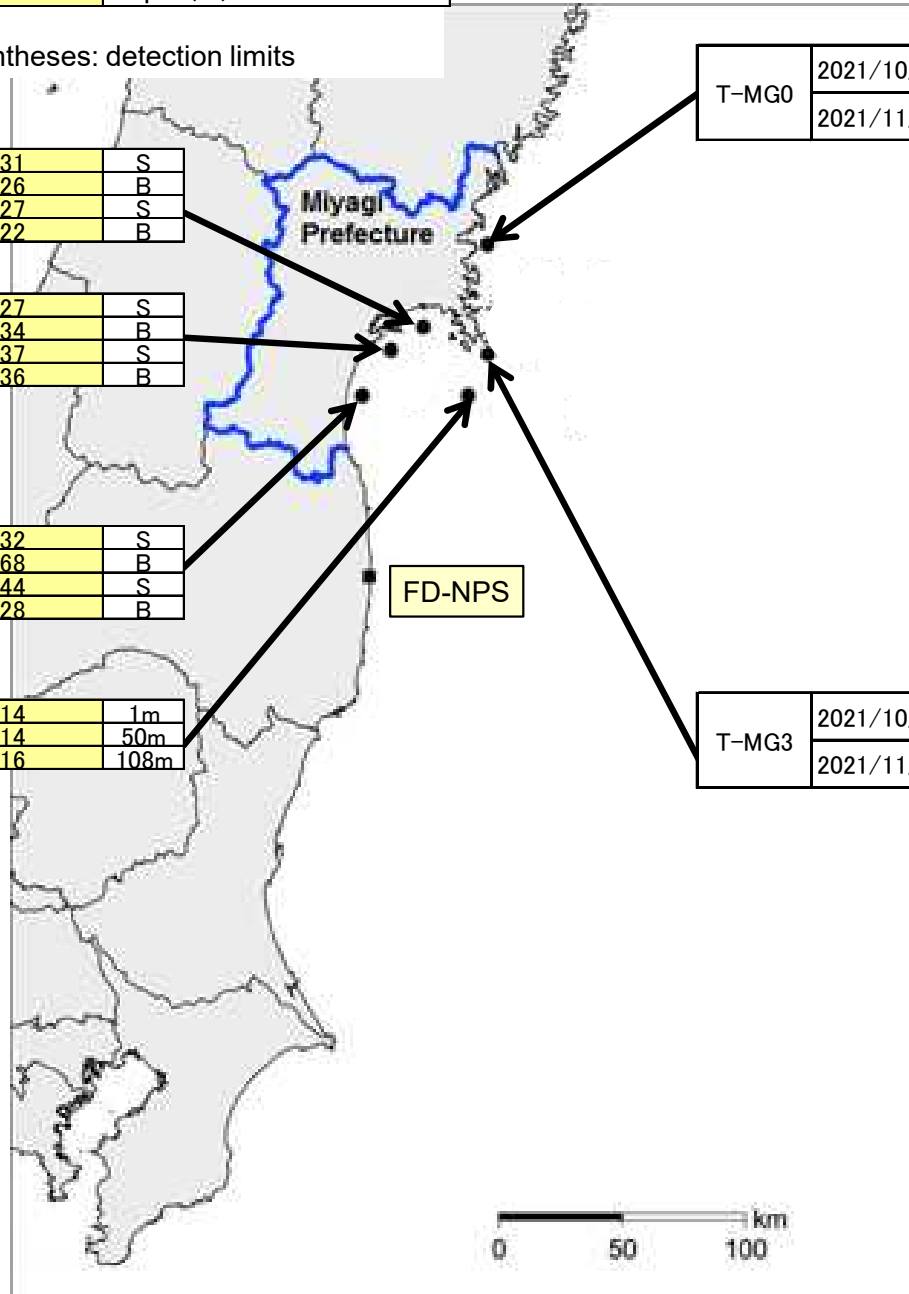
Sampling point	Sampling Date	Cs-134	Cs-137	S/B
		2021/10/7	ND(0.0014)	0.0027
T-MG4	2021/11/18	ND(0.0013)	0.0034	B
		ND(0.0015)	0.0037	S
T-MG4	2021/11/18	ND(0.0013)	0.0036	B

Sampling point	Sampling Date	Cs-134	Cs-137	S/B
		2021/10/7	ND(0.0014)	0.0032
T-MG6	2021/11/18	ND(0.0013)	0.0068	B
		ND(0.0014)	0.0044	S
T-MG6	2021/11/18	ND(0.0012)	0.0028	B

Sampling point	Sampling Date	Cs-134	Cs-137	Depth
		ND(0.000058)	0.0014	1m
		ND(0.000065)	0.0014	50m
M-B3	2021/5/10	ND(0.000070)	0.0016	108m

Sampling point	Sampling Date	Cs-134	Cs-137	S/B
		2021/10/15	ND(0.0014)	0.0018
T-MG0	2021/11/19	ND(0.0013)	0.0018	B
		ND(0.0013)	0.0015	S
T-MG0	2021/11/19	ND(0.0014)	0.0015	B

Sampling point	Sampling Date	Cs-134	Cs-137	S/B
		2021/10/18	ND(0.0013)	0.0016
T-MG3	2021/11/17	ND(0.0014)	0.0018	B
		ND(0.0014)	0.0018	S
T-MG3	2021/11/17	ND(0.0014)	0.0018	B



# Most recent radioactivity data of sea area along and off the coast of Ibaraki Pref. and Chiba Pref.

Sampling point	Sampling Date	Cs-134	Cs-137	S/B	S:2m below sea level	B:2-3m above sea bottom
				Depth(m) from sea level		

Ibaraki Pref. and Chiba Pref.

Seawater radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses:detection limits

T-A	2021/10/7	ND(1.1)	ND(1.1)	S
		ND(0.94)	ND(1.2)	B
	2021/11/12	ND(0.67)	ND(1.1)	S
		ND(0.67)	ND(1.0)	B

T-B	2021/10/6	ND(1.1)	ND(1.2)	S
		ND(0.83)	ND(1.0)	B
	2021/11/11	ND(1.1)	ND(0.98)	S
		ND(0.87)	ND(1.2)	B

T-C	2021/10/8	ND(1.0)	ND(1.1)	S
		ND(0.87)	ND(1.2)	B
	2021/11/15	ND(0.81)	ND(1.0)	S
		ND(0.87)	ND(1.0)	B

T-D	2021/10/7	ND(0.81)	ND(1.0)	S
		ND(0.87)	ND(1.2)	B
	2021/11/11	ND(1.1)	ND(1.1)	S
		ND(0.97)	ND(1.2)	B

M-M1	2021/8/23	ND(0.000055)	0.0015	1m
		ND(0.000074)	0.0018	107m

M-I3	2021/8/21	ND(0.000071)	0.0015	1m
		ND(0.000069)	0.0018	100m
		ND(0.000070)	0.0015	175m

M-J3	2021/8/20	ND(0.000049)	0.0013	1m
		ND(0.000074)	0.0019	100m
		ND(0.000042)	0.00059	555m

M-IB4	2021/8/20	ND(0.000075)	0.0016	1m
		ND(0.000071)	0.0019	111m

T-E	2021/10/6	ND(0.97)	ND(0.91)	S
		ND(0.91)	ND(1.1)	B
	2021/11/12	ND(1.1)	ND(1.2)	S
		ND(0.92)	ND(1.1)	B

M-L1	2021/8/23	ND(0.000066)	0.0016	1m
		ND(0.000064)	0.0017	35m

