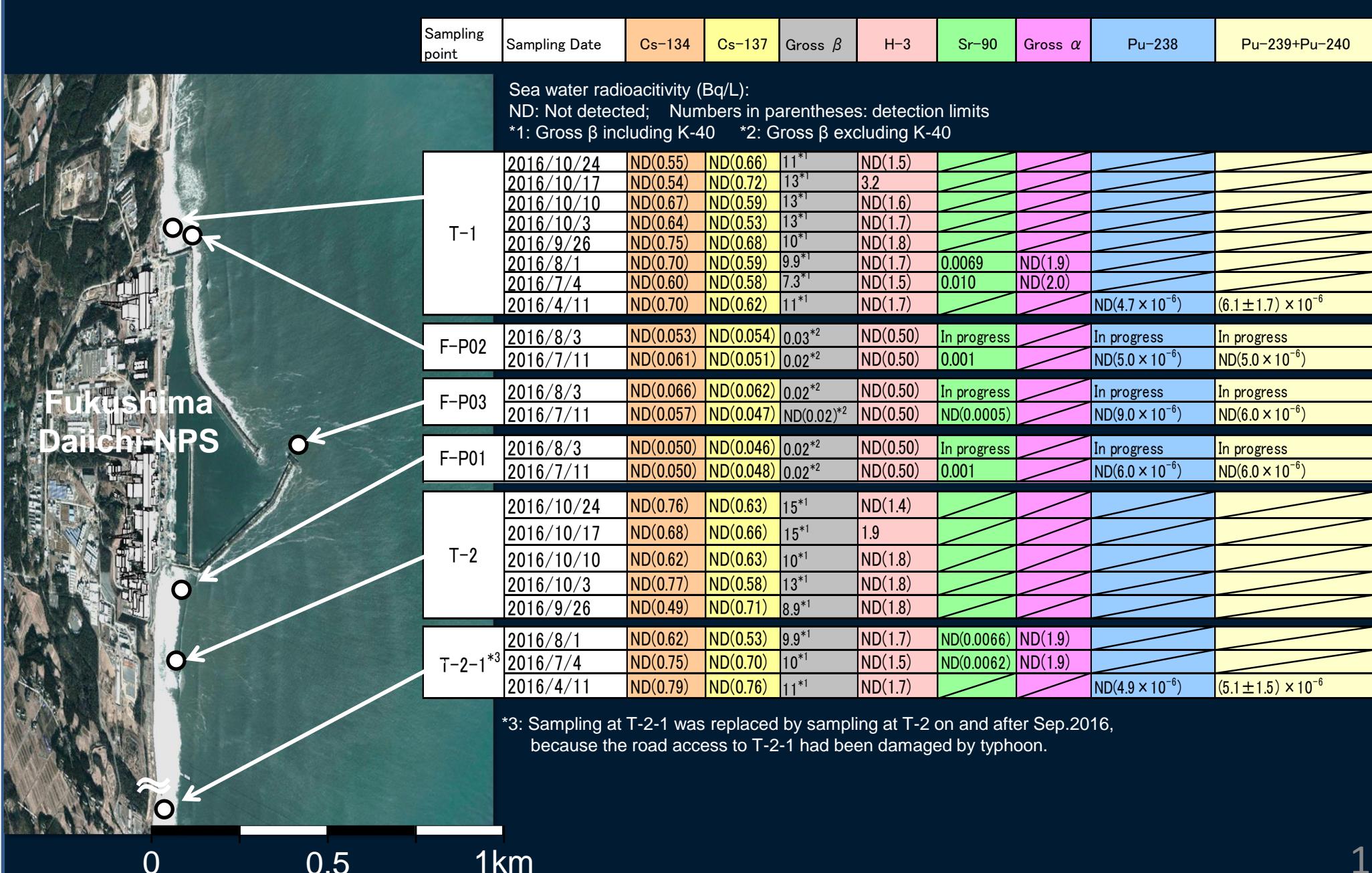


Sea Area Monitoring

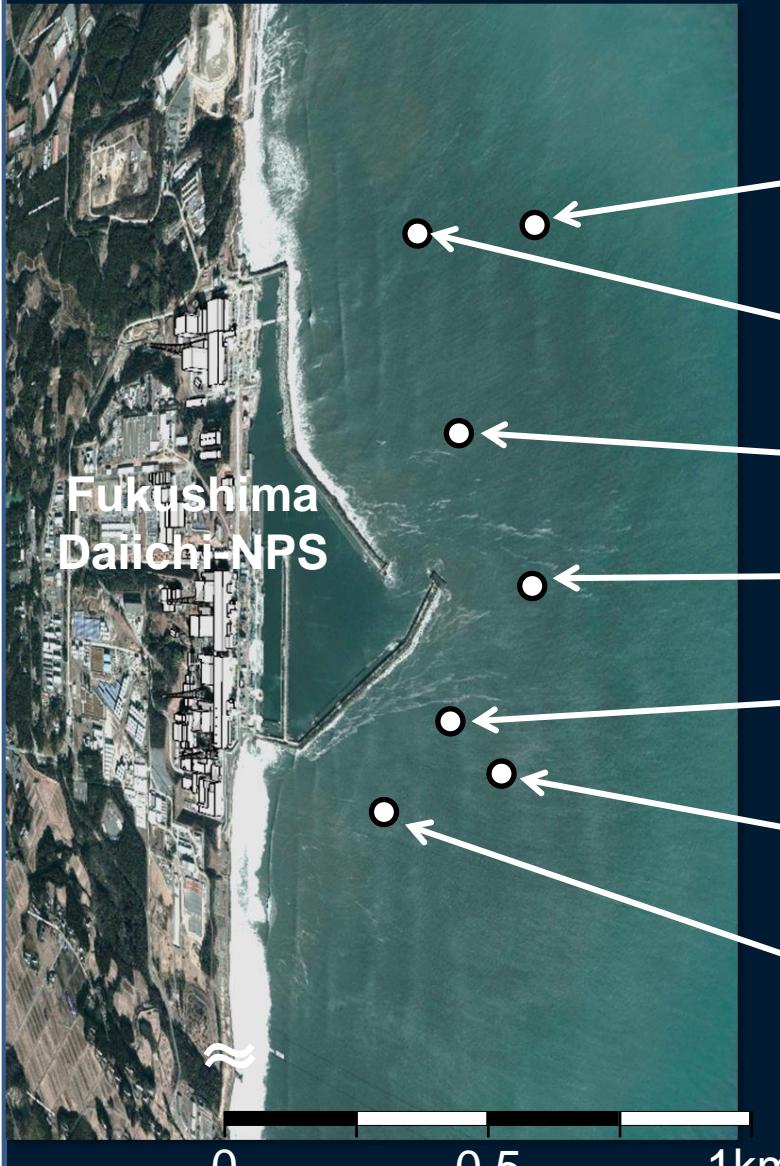
November 25, 2016

Nuclear Regulation Authority (NRA), Japan

Sea area within 2km from the NPS (1)



Sea area within 2km from the NPS (2)



Sampling point	Sampling Date	Cs-134	Cs-137	Gross β *	H-3	Sr-90
Sea water radioactivity (Bq/L):						
ND: Not detected; Numbers in parentheses: detection limits						
*: Gross β including K-40						
T-0-1A	2016/10/24	ND(0.51)	ND(0.50)	ND(17)	In progress	
	2016/10/17	ND(0.64)	ND(0.71)	ND(17)	ND(1.9)	
	2016/10/10	ND(0.64)	ND(0.76)	ND(18)	ND(1.7)	
	2016/10/3	ND(0.74)	ND(0.76)	ND(17)	ND(2.0)	
	2016/9/26	ND(0.73)	ND(0.64)	ND(17)	ND(1.9)	
T-0-1	2016/10/24	ND(0.66)	ND(0.68)	ND(17)	In progress	
	2016/10/17	ND(0.68)	ND(0.66)	ND(17)	ND(1.9)	
	2016/10/10	ND(0.84)	ND(0.56)	ND(18)	ND(1.7)	
	2016/10/3	ND(0.70)	ND(0.68)	ND(17)	ND(2.0)	
	2016/9/26	ND(0.76)	ND(0.58)	ND(17)	ND(1.9)	
M-101	2016/9/7	0.011	0.070		In progress	In progress
	2016/8/4	0.0022	0.012		0.11	In progress
	2016/7/13	0.0025	0.017		0.13	In progress
	2016/6/15	0.0024	0.012		0.071	0.0013
	2016/5/18	0.0027	0.013		0.089	0.0016
T-0-2	2016/10/24	ND(0.70)	ND(0.73)	ND(17)	In progress	
	2016/10/17	ND(0.61)	ND(0.64)	ND(17)	ND(1.9)	
	2016/10/10	ND(0.73)	ND(0.76)	ND(18)	ND(1.7)	
	2016/10/3	ND(0.63)	ND(0.72)	ND(17)	ND(2.0)	
	2016/9/26	ND(0.63)	ND(0.64)	ND(17)	ND(1.9)	
M-102	2016/9/7	0.011	0.066		In progress	In progress
	2016/8/3	0.0014	0.011		0.10	In progress
	2016/7/14	0.0012	0.067		0.11	In progress
	2016/6/16	0.0060	0.038		0.081	0.0023
	2016/5/19	0.0050	0.029		0.12	0.0038
T-0-3A	2016/10/24	ND(0.55)	ND(0.67)	ND(17)	In progress	
	2016/10/17	ND(0.81)	ND(0.75)	ND(17)	ND(1.9)	
	2016/10/10	ND(0.84)	ND(0.85)	ND(18)	ND(1.7)	
	2016/10/3	ND(0.71)	ND(0.73)	ND(17)	ND(2.0)	
	2016/9/26	ND(0.87)	ND(0.65)	ND(17)	ND(1.9)	
T-0-3	2016/10/24	ND(0.78)	ND(0.72)	ND(17)	In progress	
	2016/10/17	ND(0.57)	ND(0.49)	ND(17)	ND(1.9)	
	2016/10/10	ND(0.76)	ND(0.71)	ND(18)	ND(1.7)	
	2016/10/3	ND(0.66)	ND(0.73)	ND(17)	ND(2.0)	
	2016/9/26	ND(0.62)	ND(0.67)	ND(17)	ND(1.9)	

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

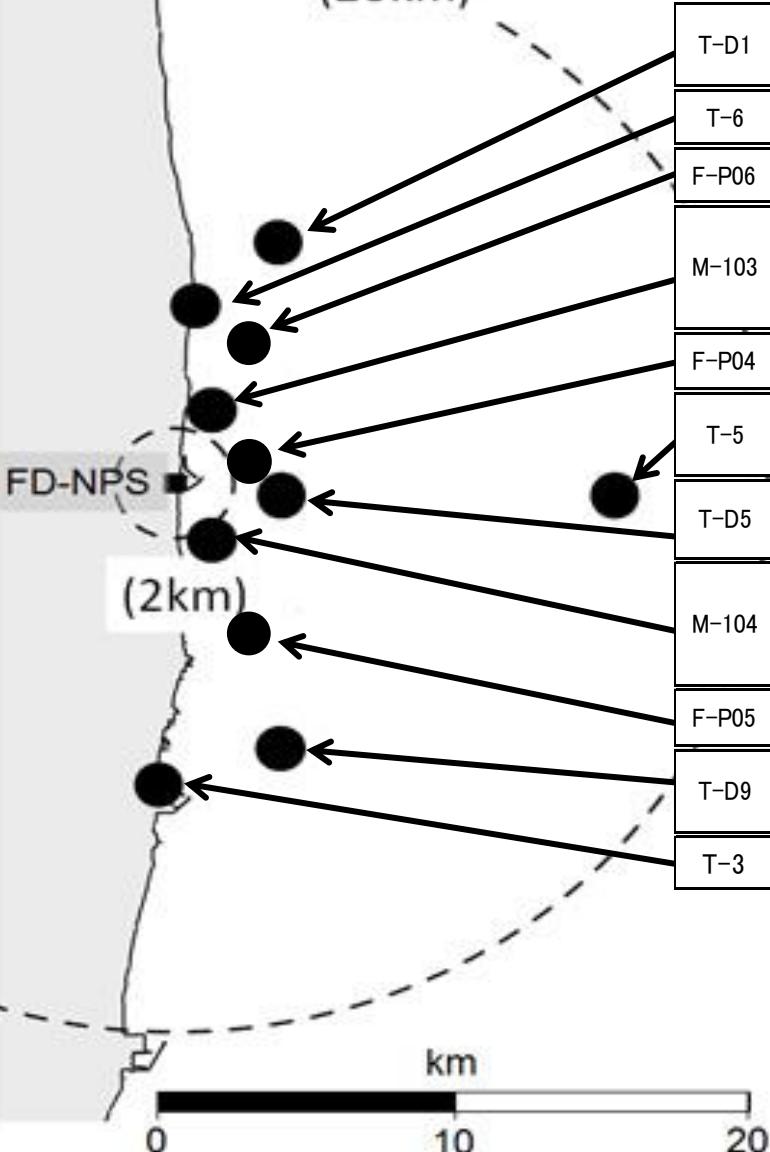
Sampling point	Sampling Date	Cs-134	Cs-137	Gross β	H-3	Sr-90	Gross α	Pu-238	Pu-239+240	S	S:2m below sea level Depth(m) from sea level
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Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

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

(20km)



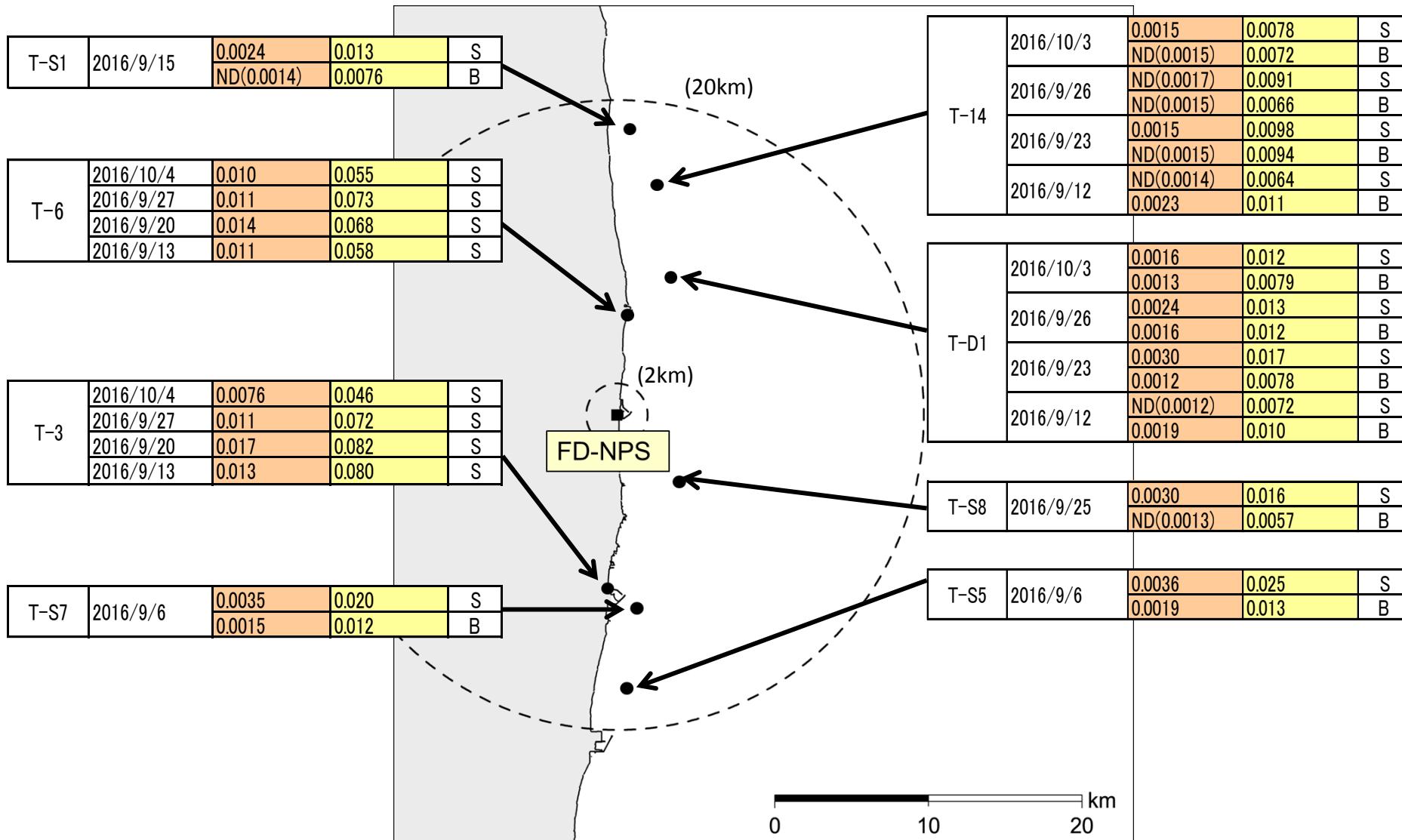
T-D1	2016/9/23	0.0030	0.017	ND(17) ^{*1}	ND(0.31)	In progress	In progress	In progress	(7.2±2.0)×10 ⁻⁶	S	
	2016/9/6	0.0083	0.046	ND(16) ^{*1}	ND(0.35)						
	2016/4/5	0.0027	0.014	ND(18) ^{*1}	ND(0.35)						
T-6	2016/9/20	0.014	0.068	ND(17) ^{*1}	ND(0.32)	In progress	In progress	In progress	(7.2±2.0)×10 ⁻⁶	S	
	2016/9/6	0.0087	0.053	ND(17) ^{*1}	ND(0.31)						
F-P06	2016/8/3	ND(0.061)	ND(0.050)	0.03 ^{*2}	ND(0.49)	In progress	In progress	In progress	In progress	S	
	2016/7/11	ND(0.068)	ND(0.049)	0.02 ^{*2}	ND(0.50)	0.001			ND(8.0×10 ⁻⁶)	ND(9.0×10 ⁻⁶)	S
M-103	2016/9/8	0.0026	0.020		In progress	In progress					0.5m
	2016/8/4	0.00085	0.0074		0.11	In progress					0.5m
	2016/7/13	0.0017	0.0077		0.12	In progress					0.5m
	2016/6/15	0.0032	0.017		0.090	0.0011					0.5m
	2016/5/18	0.0013	0.0082		0.065	0.0012					0.5m
F-P04	2016/8/3	ND(0.055)	ND(0.052)	0.02 ^{*2}	ND(0.50)	In progress			In progress	In progress	S
	2016/7/11	ND(0.054)	ND(0.051)	0.02 ^{*2}	ND(0.50)	0.001			ND(9.0×10 ⁻⁶)	ND(9.0×10 ⁻⁶)	S
T-5	2016/9/23	ND(0.0012)	0.0028	ND(17) ^{*1}	ND(0.31)	In progress	In progress	In progress	(7.2±2.0)×10 ⁻⁶	S	
	2016/9/7	ND(0.0013)	0.0064	ND(16) ^{*1}	ND(0.29)						
	2016/4/5	ND(0.0011)	0.0055	ND(18) ^{*1}	ND(0.35)						
T-D5	2016/9/23	0.0022	0.015	ND(17) ^{*1}	ND(0.31)	In progress	In progress	In progress	(7.2±2.0)×10 ⁻⁶	S	
	2016/9/6	0.0067	0.036	ND(16) ^{*1}	ND(0.35)						
	2016/4/5	0.0018	0.012	ND(18) ^{*1}	ND(0.35)						
M-104	2016/9/7	0.0047	0.031		In progress	In progress					0.5m
	2016/8/3	0.0010	0.0063		0.12	In progress					0.5m
	2016/7/14	0.0014	0.0096		0.11	In progress					0.5m
	2016/6/16	0.0021	0.011		0.069	0.0012					0.5m
	2016/5/19	0.0012	0.0066		0.074	0.0010					0.5m
F-P05	2016/8/3	ND(0.055)	ND(0.050)	0.02 ^{*2}	ND(0.49)	In progress			In progress	In progress	S
	2016/7/11	ND(0.064)	ND(0.063)	0.03 ^{*2}	ND(0.50)	ND(0.0004)			ND(8.0×10 ⁻⁶)	ND(9.0×10 ⁻⁶)	S
T-D9	2016/9/23	0.0018	0.0094	ND(17) ^{*1}	ND(0.31)	In progress	In progress	In progress	(7.2±2.0)×10 ⁻⁶	S	
	2016/9/6	0.0034	0.018	ND(16) ^{*1}	ND(0.35)						
	2016/4/5	0.0015	0.010	ND(18) ^{*1}	ND(0.35)						
T-3	2016/9/20	0.017	0.082	ND(17) ^{*1}	ND(0.37)	In progress	In progress	In progress	(7.2±2.0)×10 ⁻⁶	S	
	2016/9/6	0.011	0.069	ND(17) ^{*1}	ND(0.30)						

Sea area between 2-20km 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: Not detected; Numbers in parentheses: detection limits



Sea area between 2-20km from the NPS (3)

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

Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

T-S3	2016/9/15	0.0017 ND(0.0012)	0.013 0.0059	S B
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T-S4	2016/9/15	ND(0.0015) 0.0019	0.0099 0.0058	S B
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T-5	2016/10/4	ND(0.0014) ND(0.0014)	0.0058 0.0030	S B
	2016/9/26	ND(0.0014) ND(0.0013)	0.0029 0.0033	S B
	2016/9/23	ND(0.0012) ND(0.0013)	0.028 0.027	S B
	2016/9/16	ND(0.0013) ND(0.0014)	0.0058 0.0055	S B

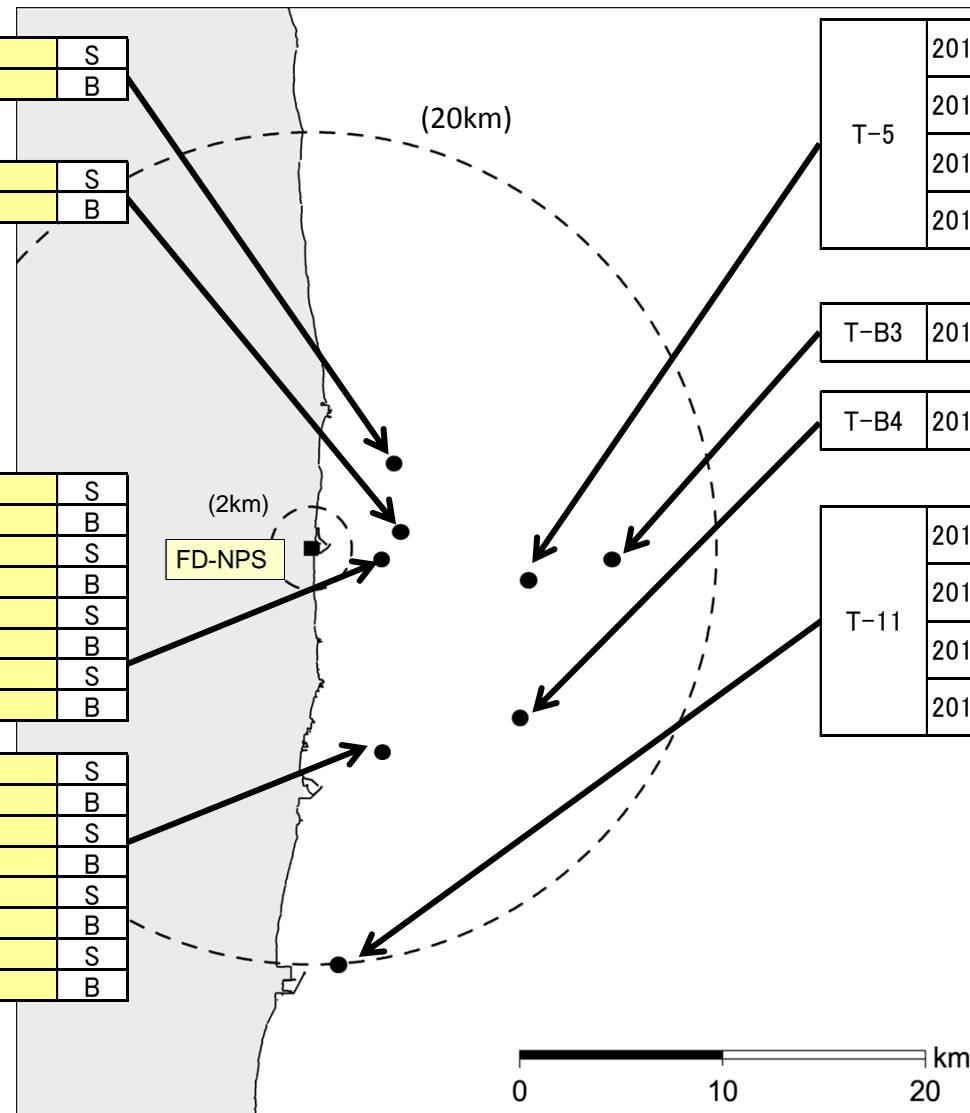
T-B3	2016/9/24	ND(0.0013) ND(0.0013)	0.0048 0.0033	S B
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T-B4	2016/9/24	ND(0.0012) ND(0.0013)	0.0043 0.0027	S B
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T-D5	2016/10/3	ND(0.0013) ND(0.0012)	0.0091 0.0087	S B
	2016/9/26	0.0023 0.0013	0.014 0.0074	S B
	2016/9/23	0.0022 ND(0.0014)	0.015 0.0054	S B
	2016/9/12	0.0019 0.0030	0.012 0.016	S B

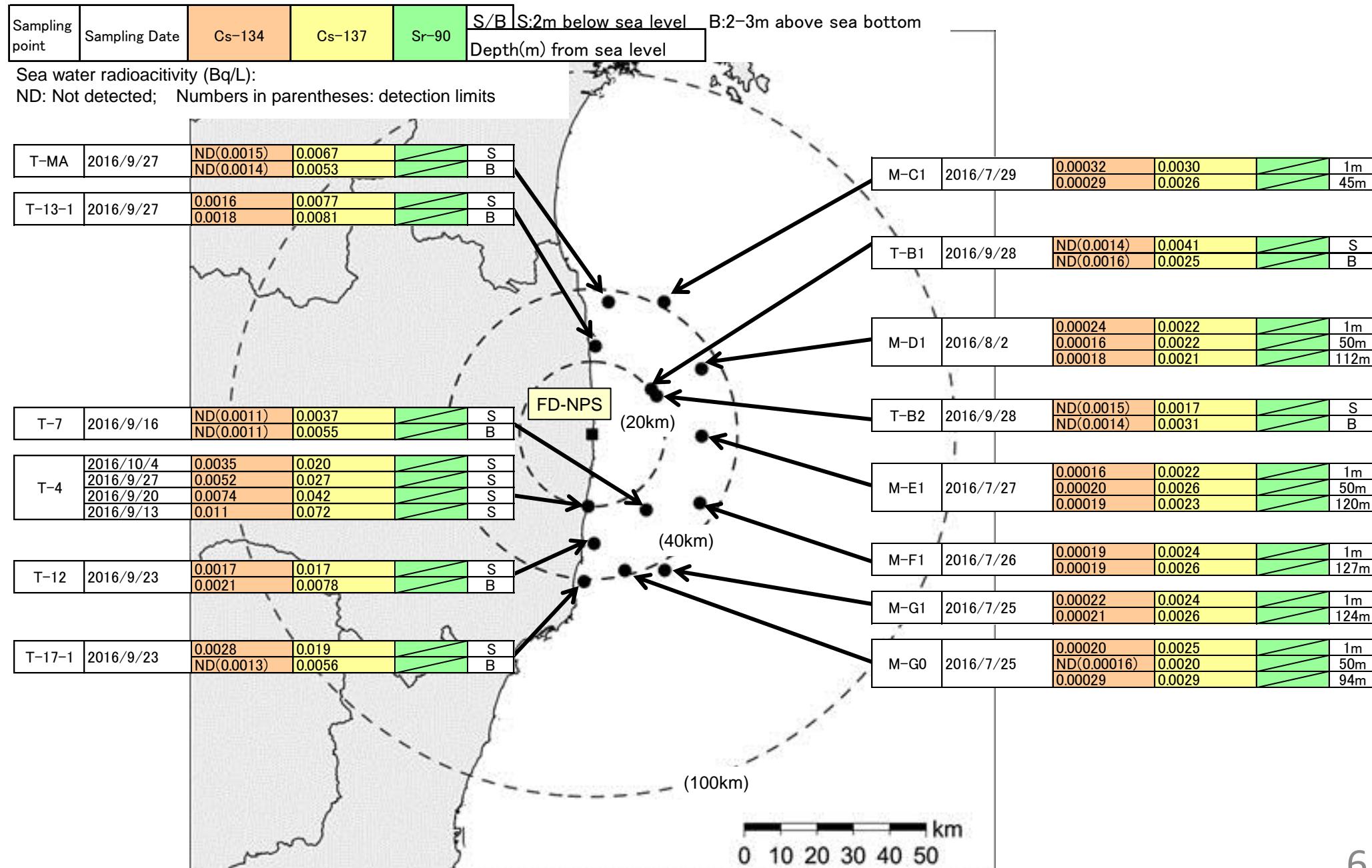
T-11	2016/10/4	0.0013 ND(0.0013)	0.011 0.0054	S B
	2016/9/26	0.0030 0.0016	0.021 0.0097	S B
	2016/9/23	0.0054 ND(0.0013)	0.031 0.0049	S B
	2016/9/12	0.0017 0.0017	0.011 0.012	S B

T-D9	2016/10/4	0.0015 ND(0.0014)	0.0085 0.0047	S B
	2016/9/26	0.0052 ND(0.0014)	0.035 0.0079	S B
	2016/9/23	0.0018 ND(0.0011)	0.0094 0.0047	S B
	2016/9/12	0.0018 0.0015	0.011 0.011	S B

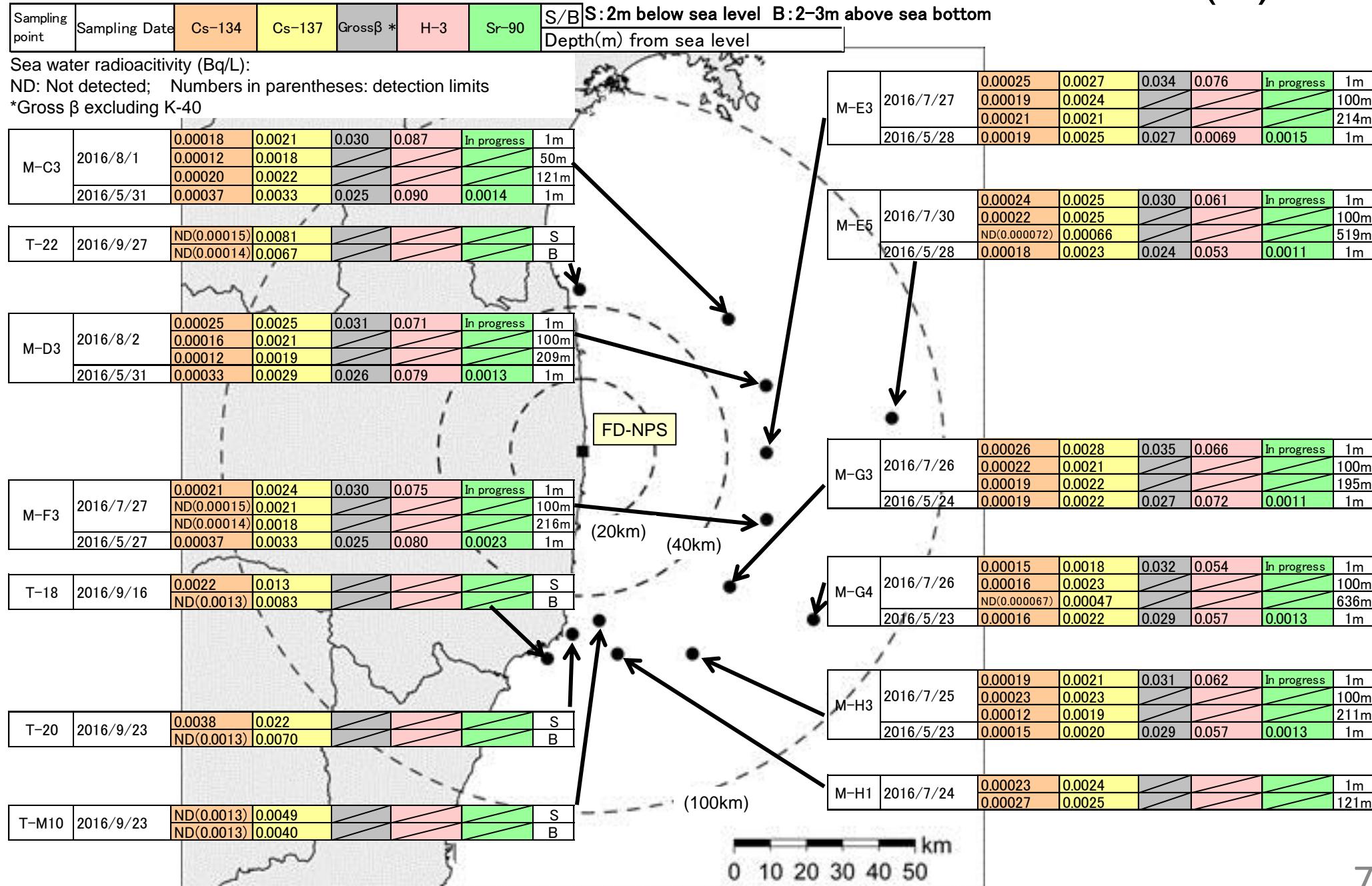


0 10 20 km

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



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



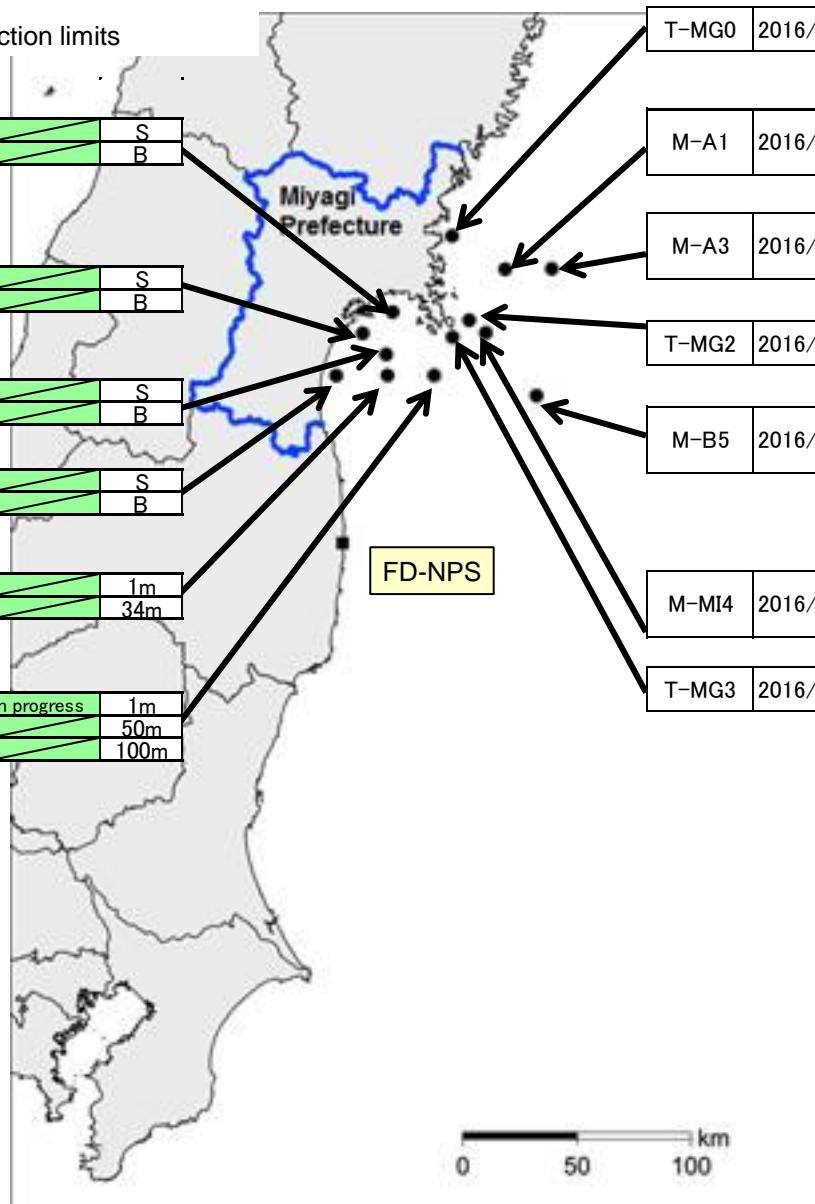
Sea area along and off the coast of Miyagi Prefecture

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

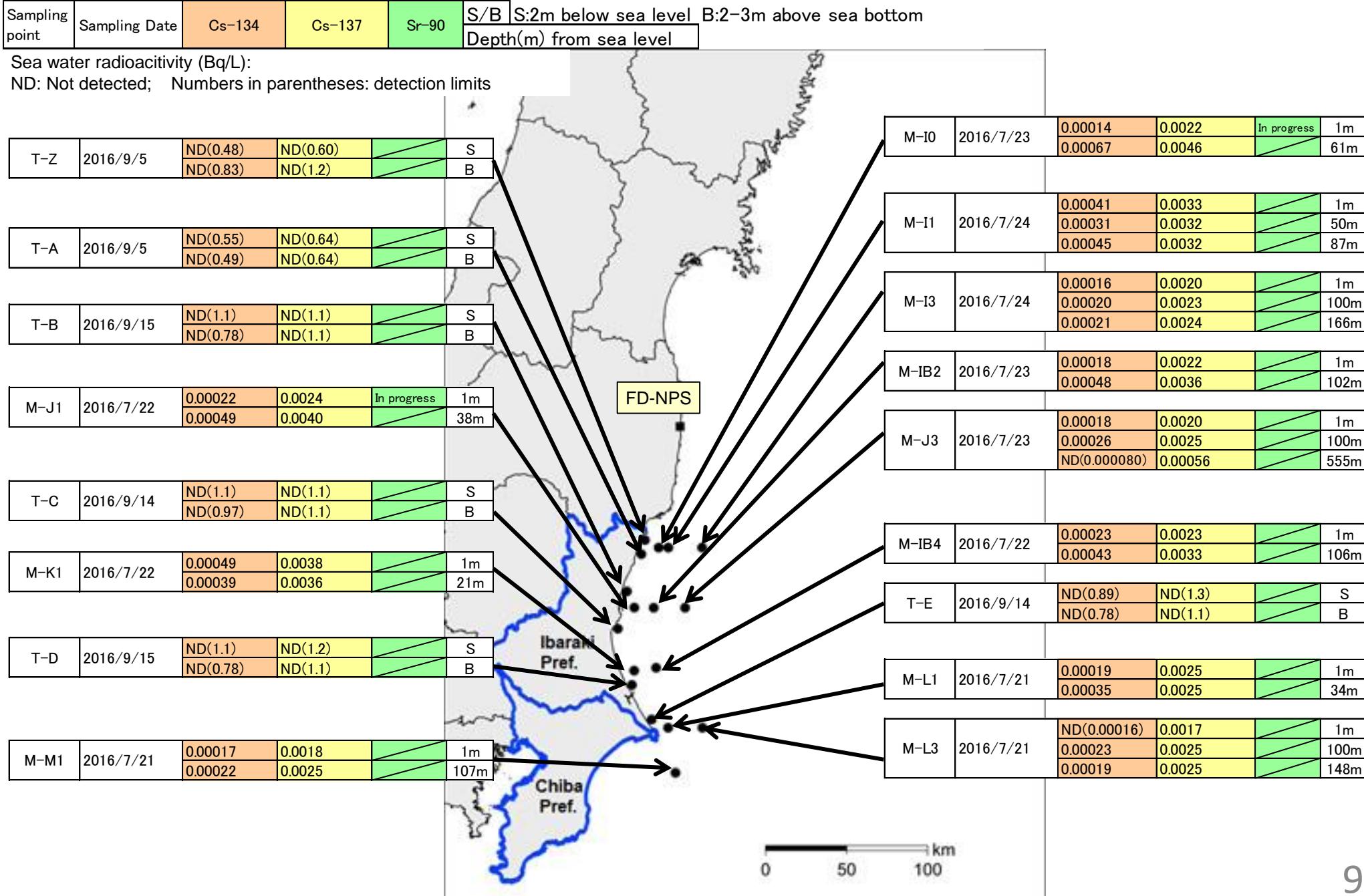
Sea water radioactivity (Bq/L):

ND: Not detected; Numbers in parentheses: detection limits

T-MG0	2016/9/16	ND(0.0012)	0.0016	ND(0.0014)	0.0019	S	B
T-MG1	2016/9/3	ND(0.0015)	0.0062	S	B		
		ND(0.0013)	0.0036				
M-A1	2016/7/31	ND(0.00013)	0.0019	ND(0.00015)	0.0020	1m	
				0.000083	0.0016	100m	
M-A3	2016/7/31	0.00019	0.0018	0.00013	0.0018	1m	
				ND(0.000076)	0.00088	100m	
T-MG4	2016/9/4	ND(0.0014)	0.0070	S	B		
		ND(0.0015)	0.0041				
T-MG2	2016/9/3	ND(0.0013)	0.0016	ND(0.0014)	0.0016	S	B
T-MG5	2016/9/4	ND(0.0015)	0.0077	S	B		
		0.0015	0.0078				
M-B5	2016/7/30	0.00019	0.0023	0.00016	0.0025	1m	
				ND(0.000082)	0.0014	100m	
						345m	
T-MG6	2016/9/4	ND(0.0015)	0.0061	S	B		
		ND(0.0013)	0.0047				
M-B1	2016/7/29	0.00023	0.0029	1m			
		0.00012	0.0019	34m			
M-MI4	2016/7/31	0.00017	0.0022	0.00021	0.0020	1m	
				0.00017	0.0020	100m	
						141m	
T-MG3	2016/9/3	ND(0.0014)	0.0023	ND(0.0014)	0.0021	S	B
M-B3	2016/8/1	0.00014	0.0022	In progress	1m		
		0.00013	0.0019		50m		
		0.00016	0.0021		100m		



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

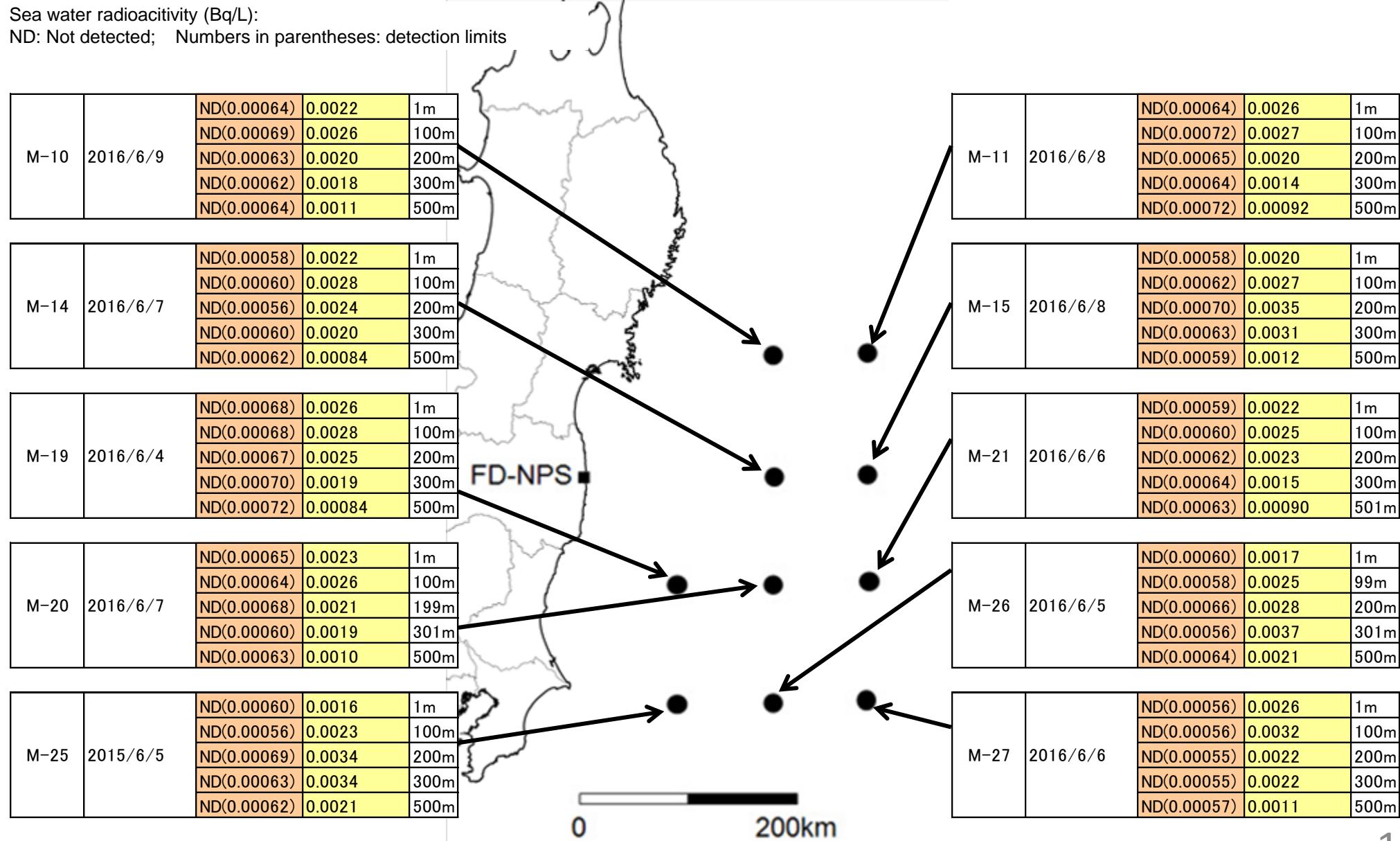


Open sea off the coast of Eastern Japan

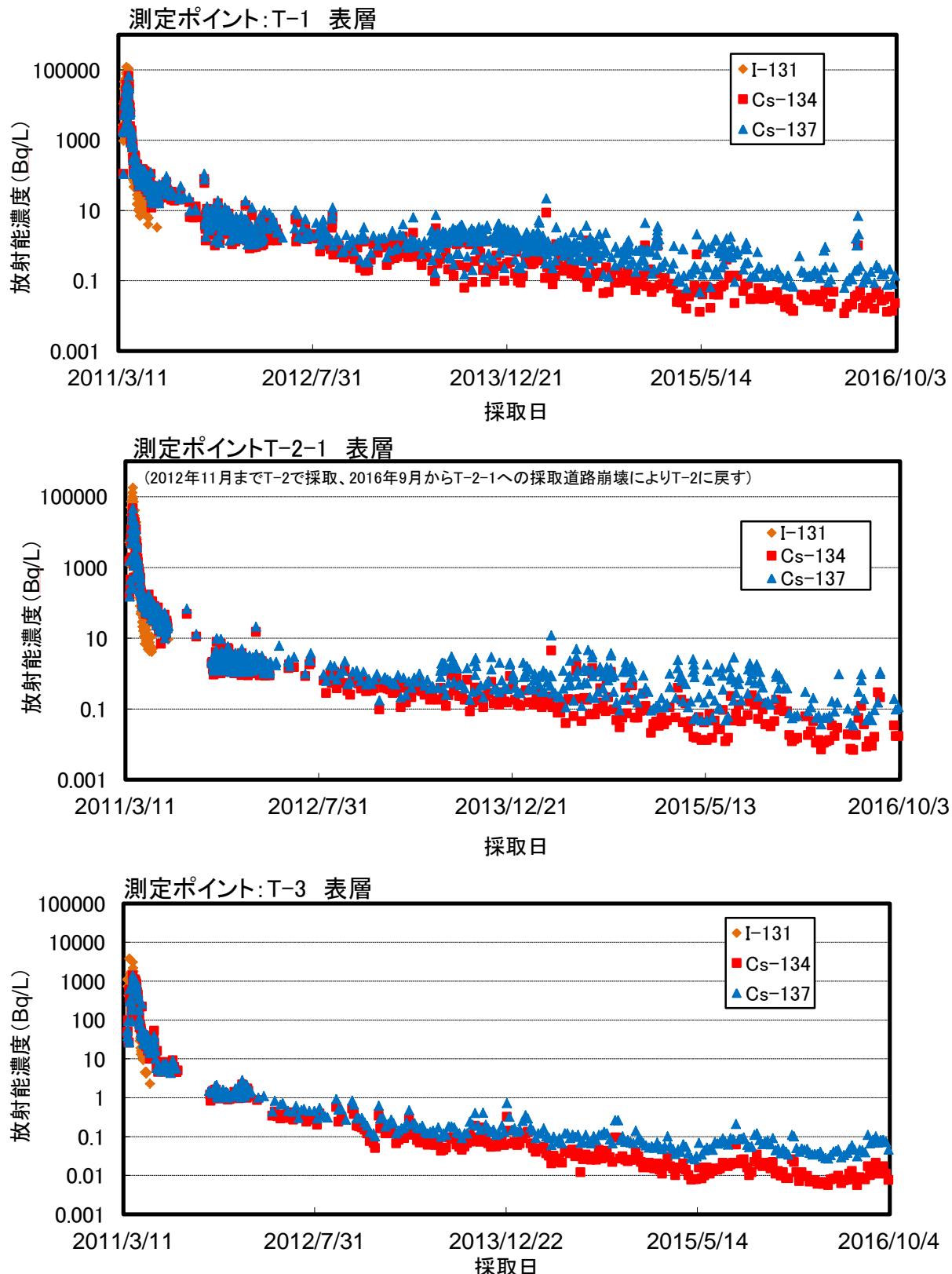
Sampling point	Sampling Date	Cs-134	Cs-137	Depth(m) from sea level
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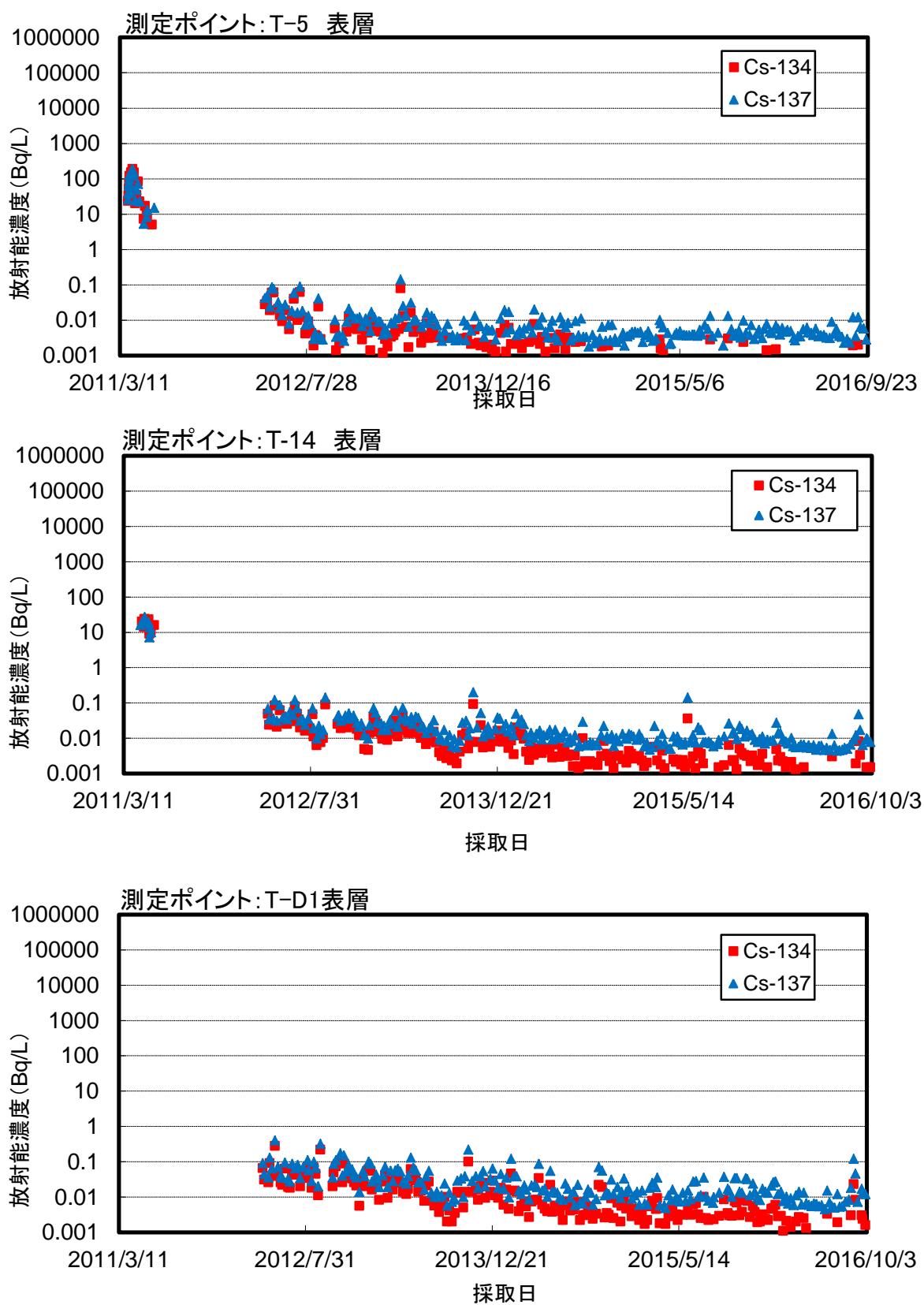
Sea water radioactivity (Bq/L):

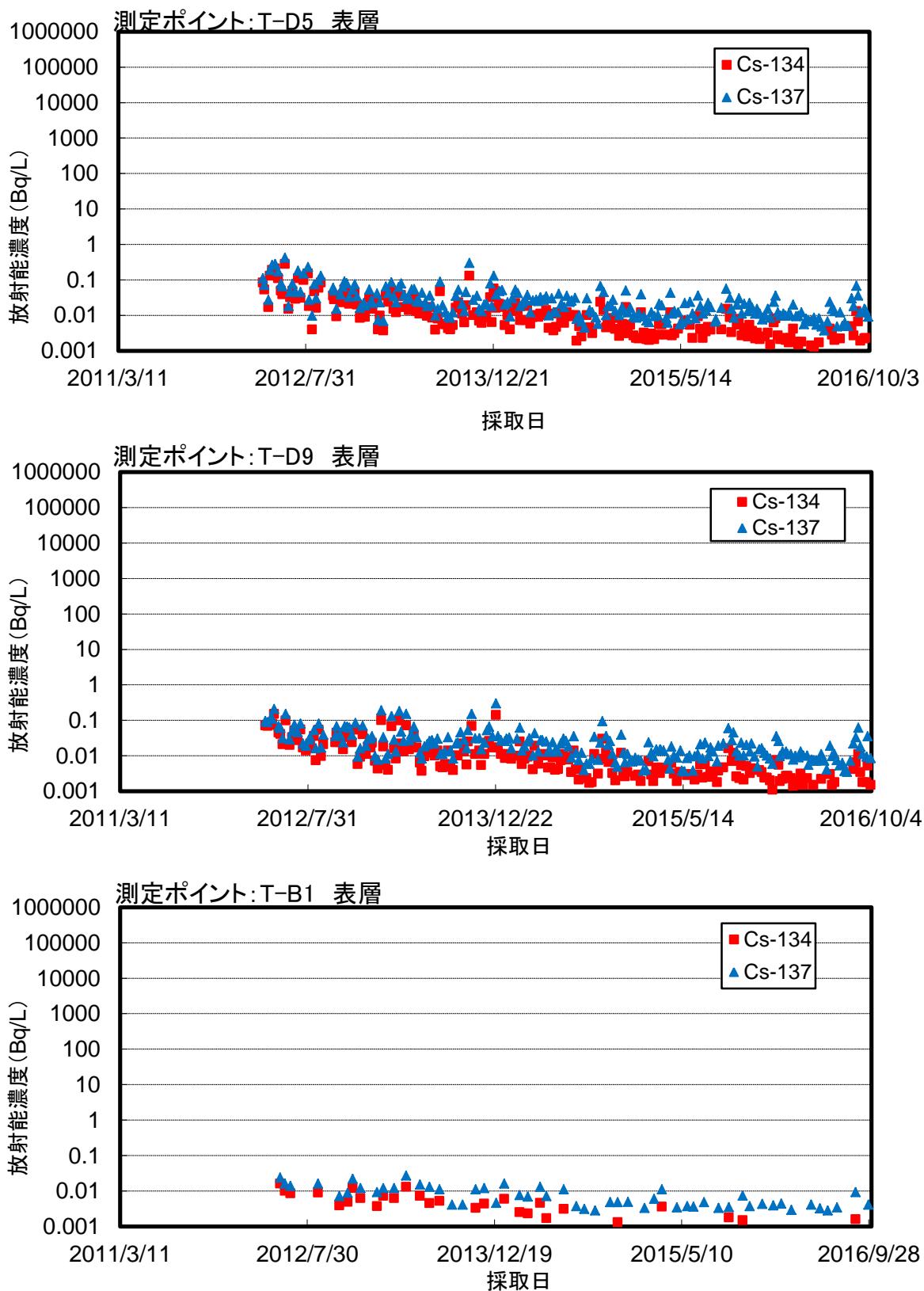
ND: Not detected; Numbers in parentheses: detection limits

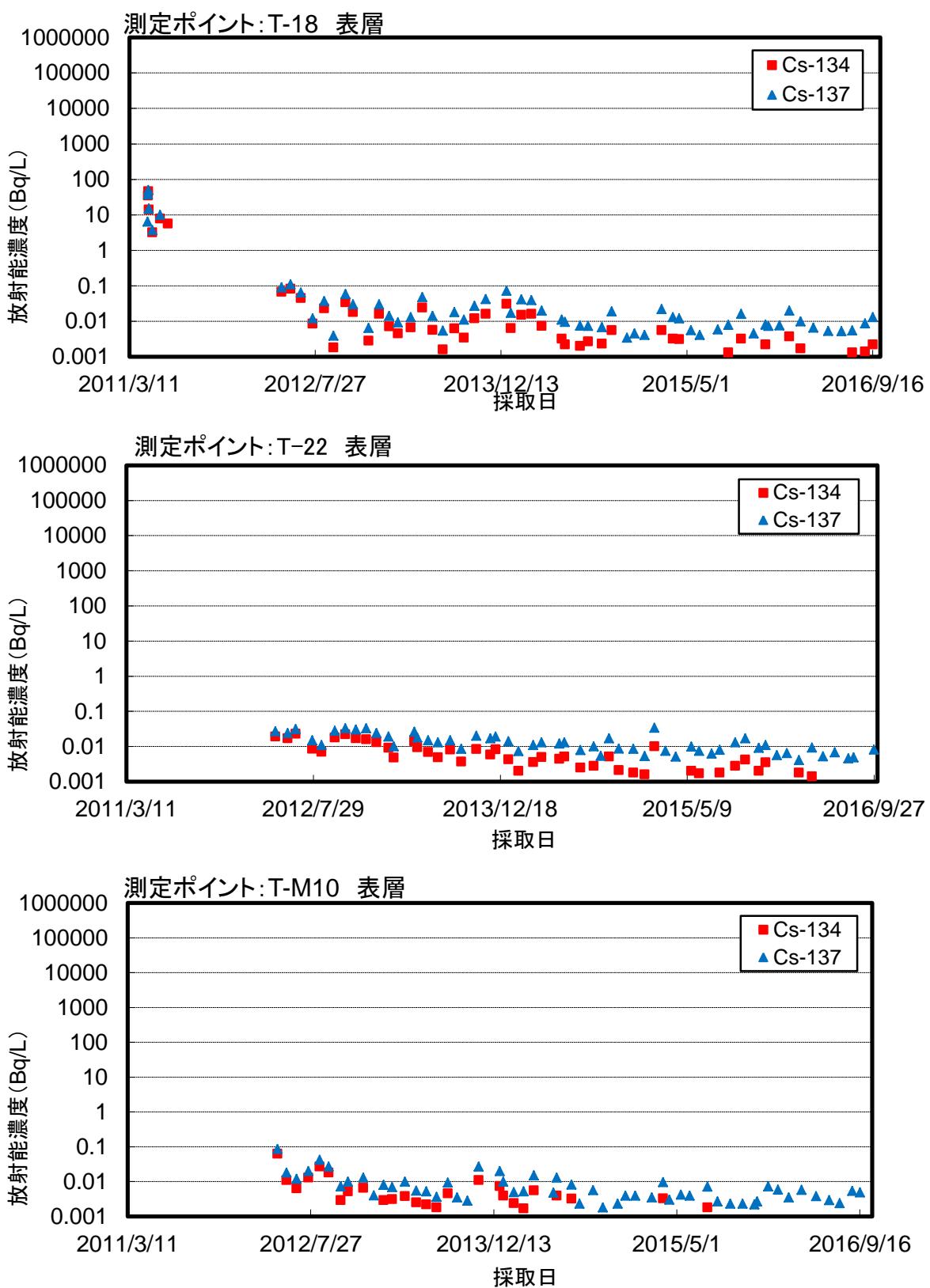


福島沿岸の海水の放射能濃度の推移



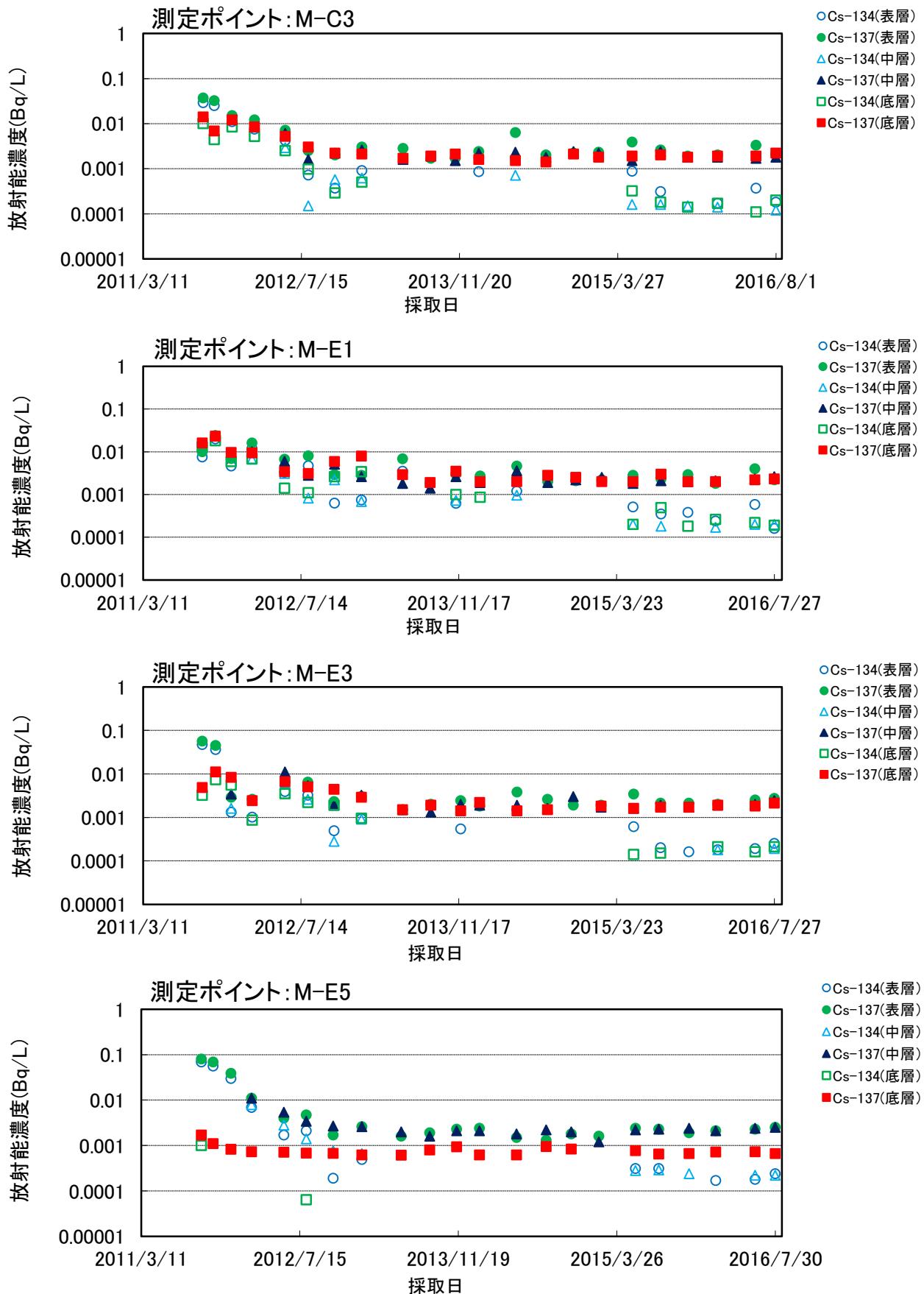


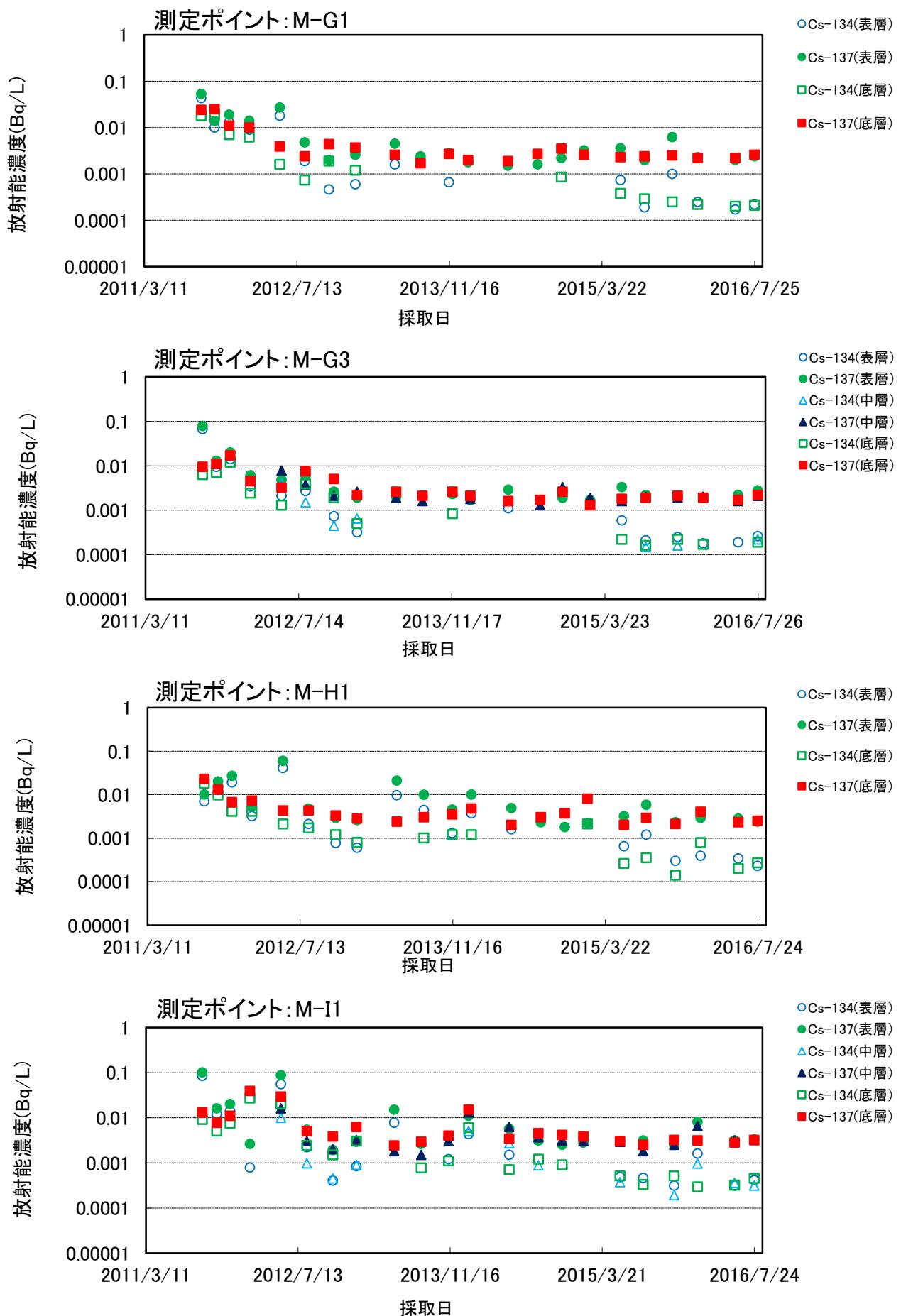




福島県沖合の海水の放射能濃度の推移

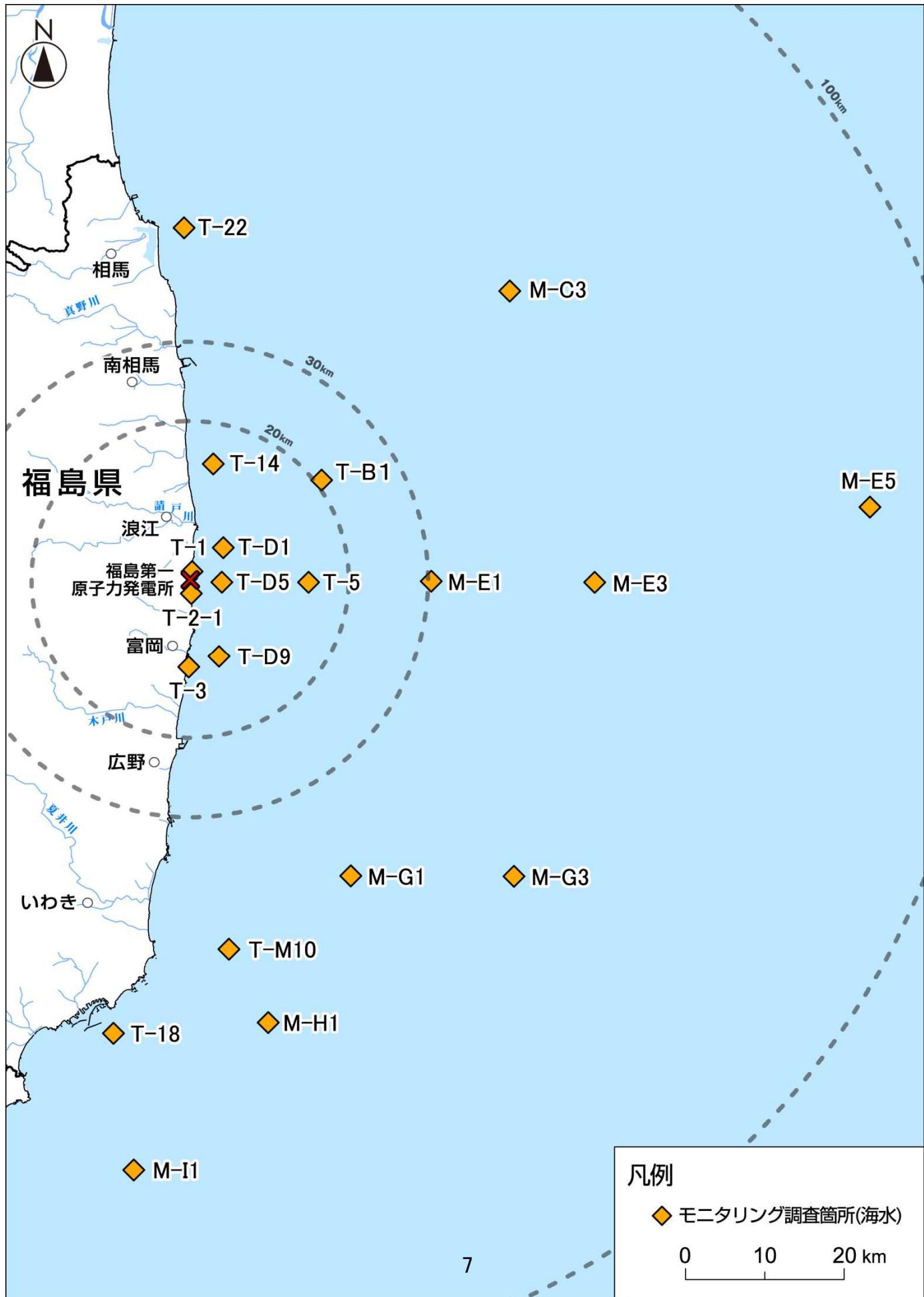
表層:海面～2m程度、中層:深度50mまたは100m、底層:海底～40m程度



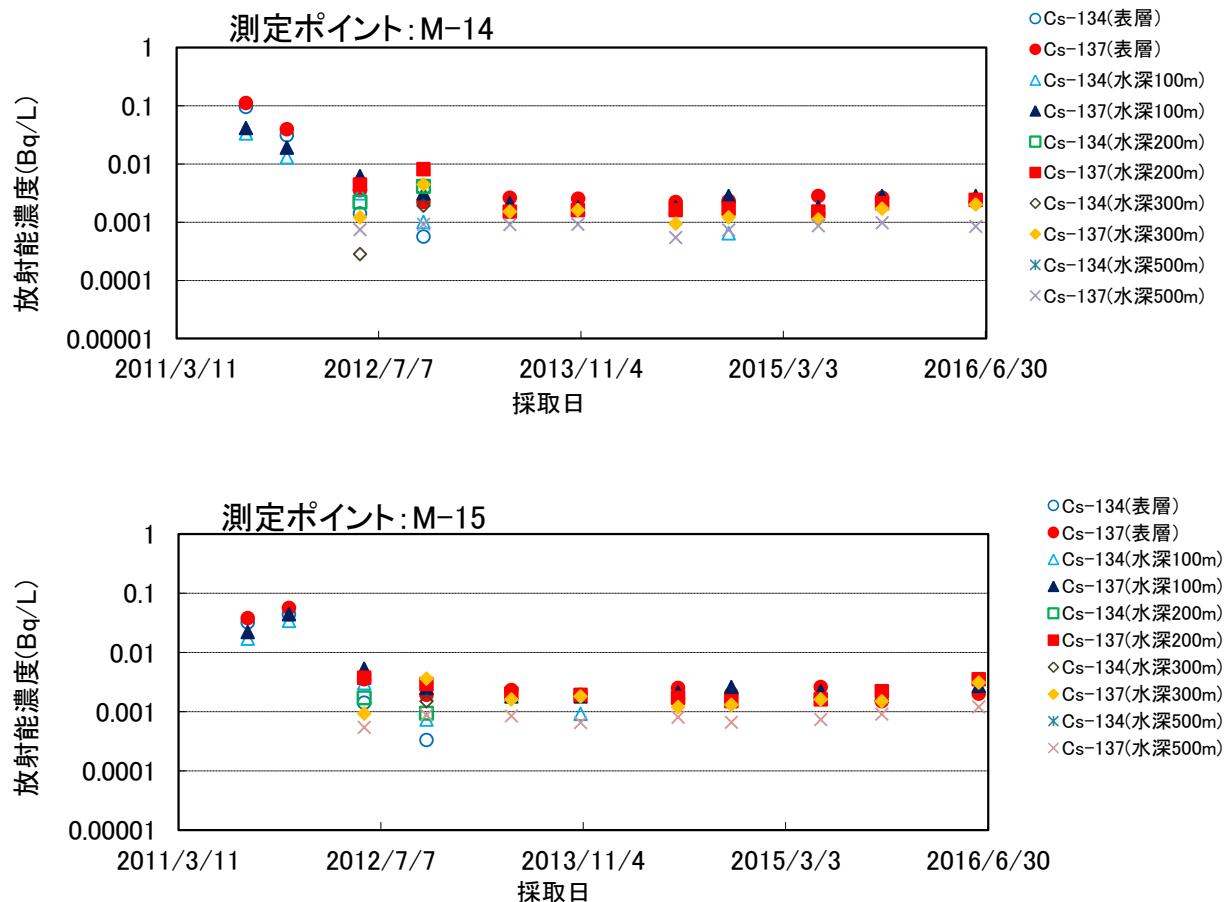


※計測値が不検出(ND)であった場合は、それをグラフ上に表示していない。

福島県沖



外洋の海水の放射能濃度の推移

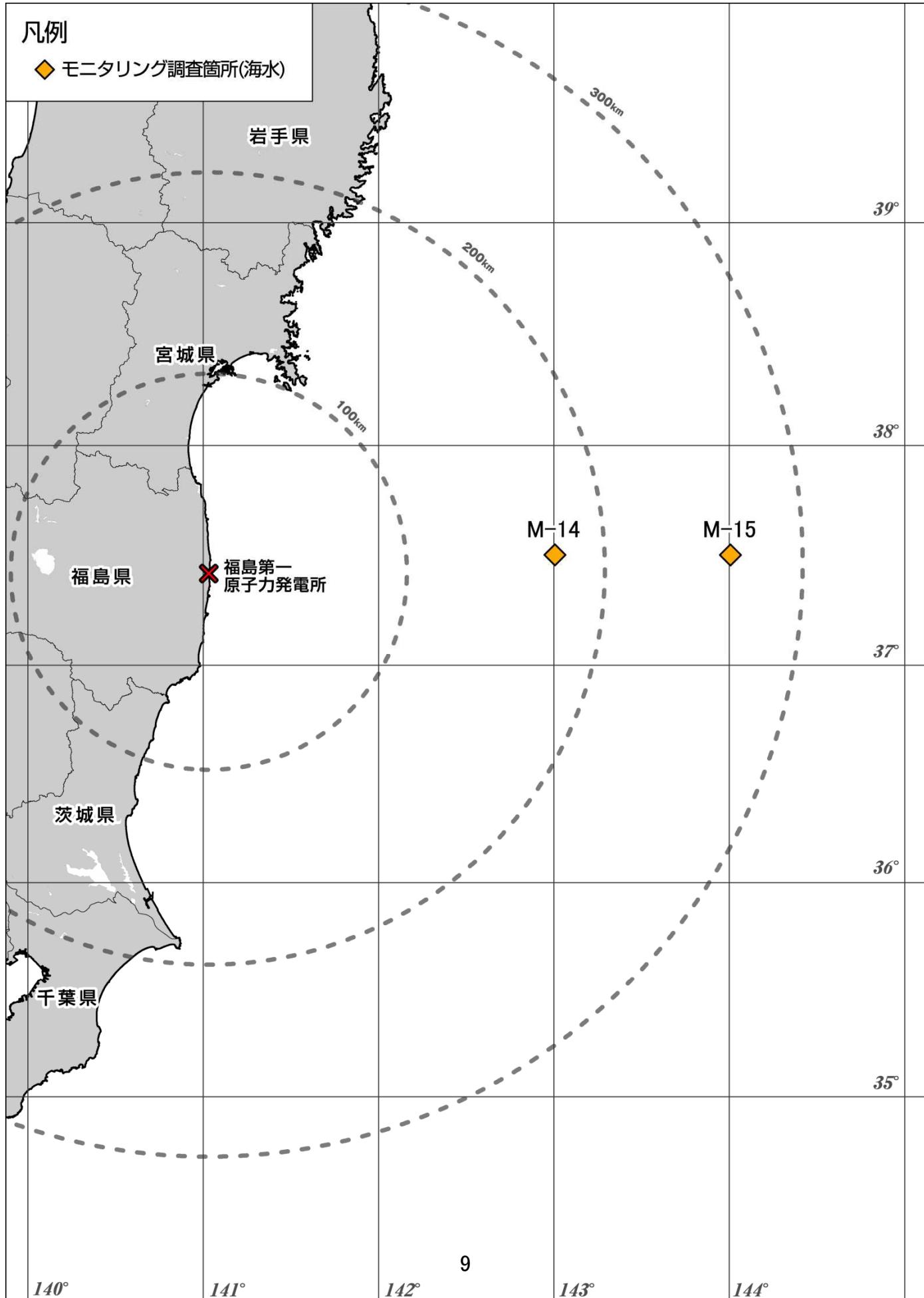


※計測値が不検出(ND)であった場合は、それをグラフ上に表示していない。

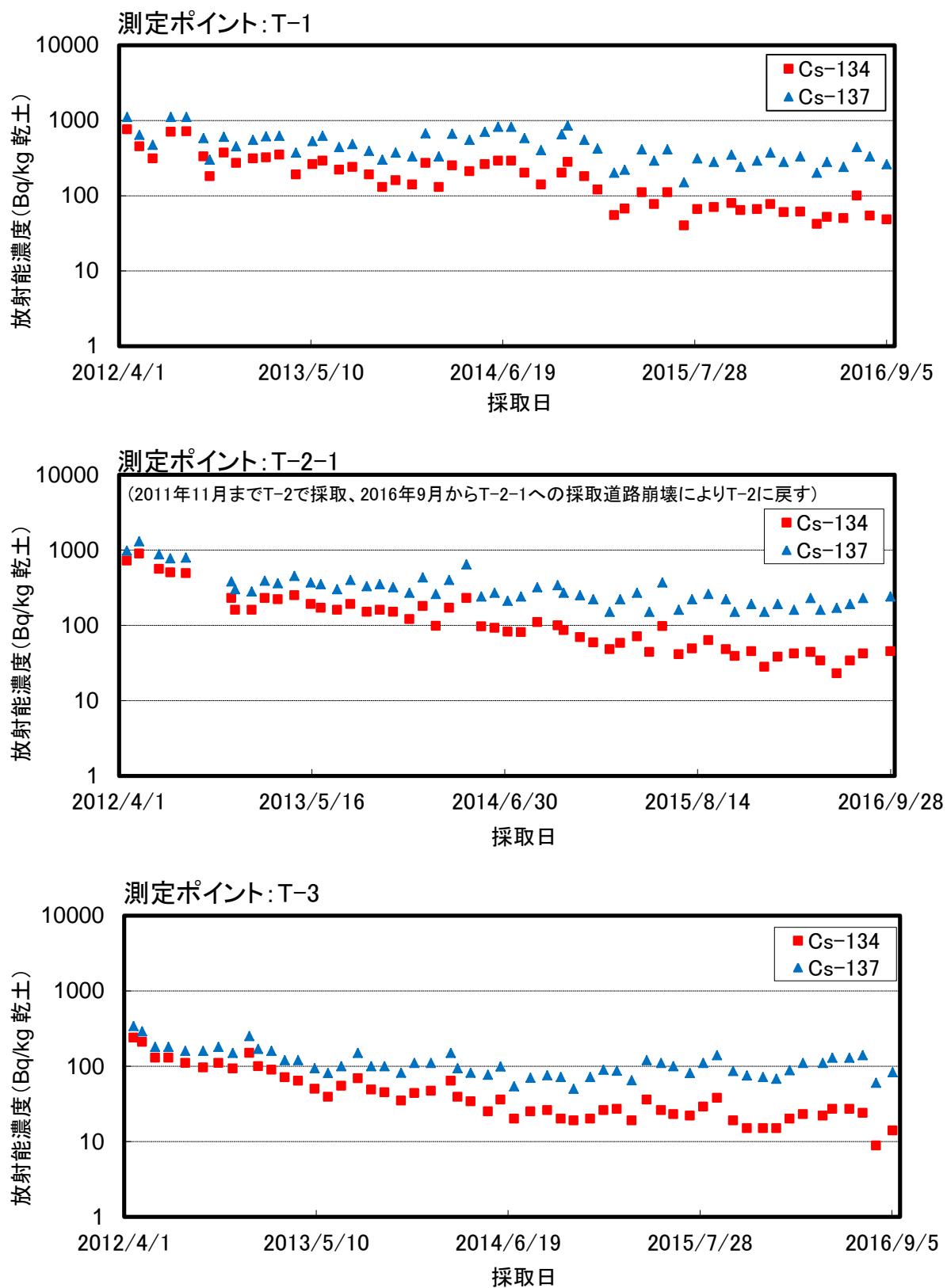
外洋海域

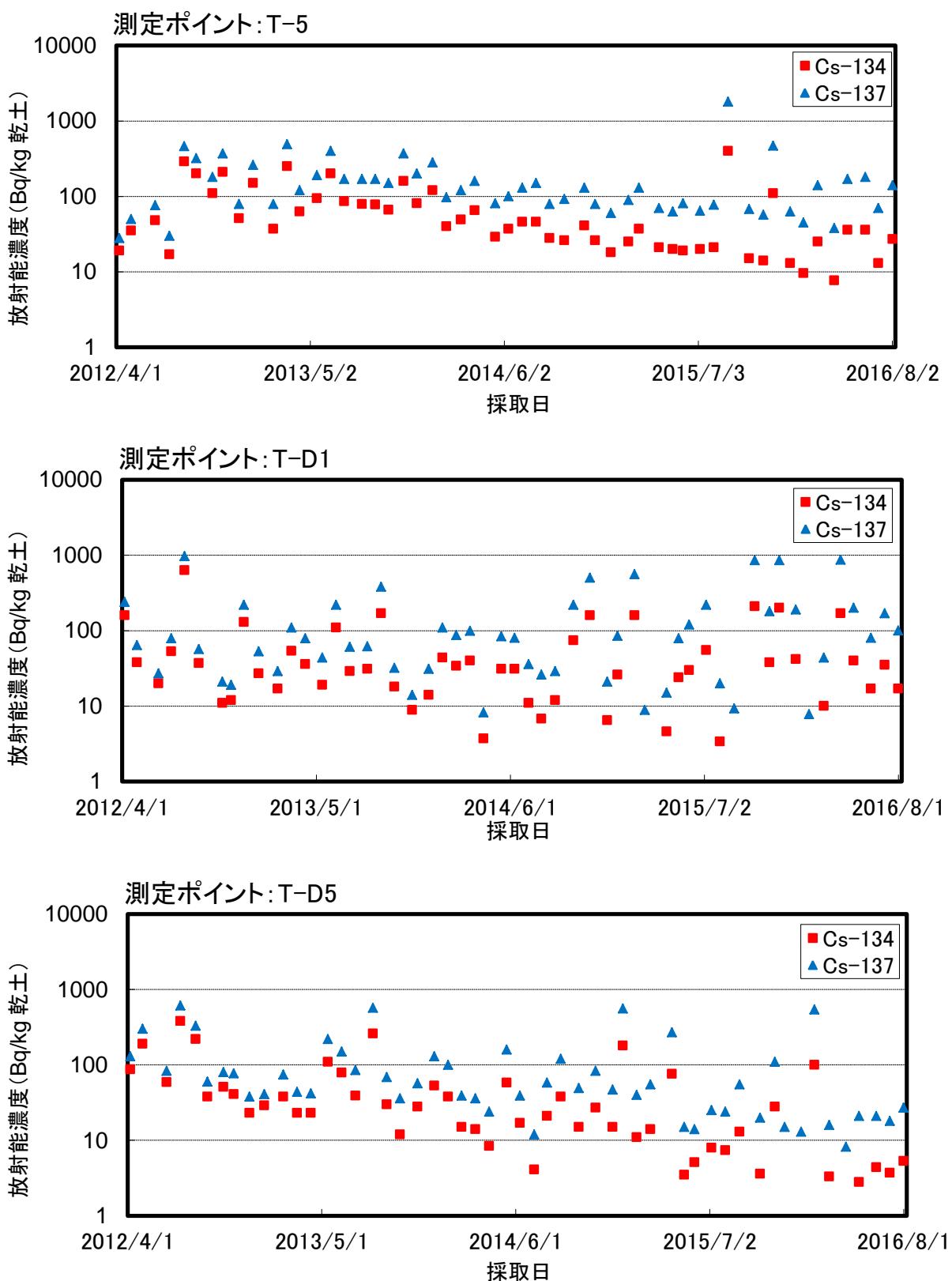
凡例

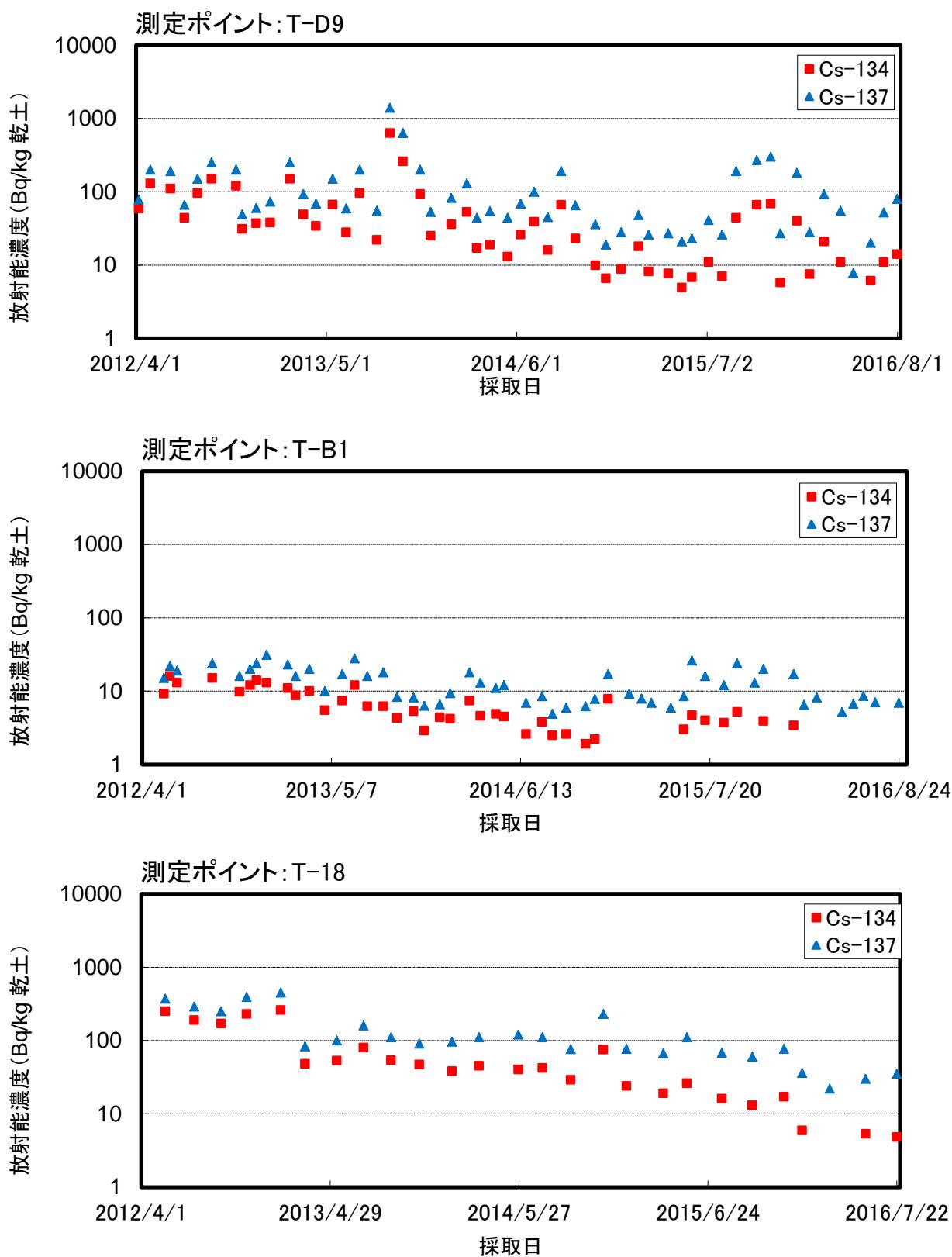
◆ モニタリング調査箇所(海水)

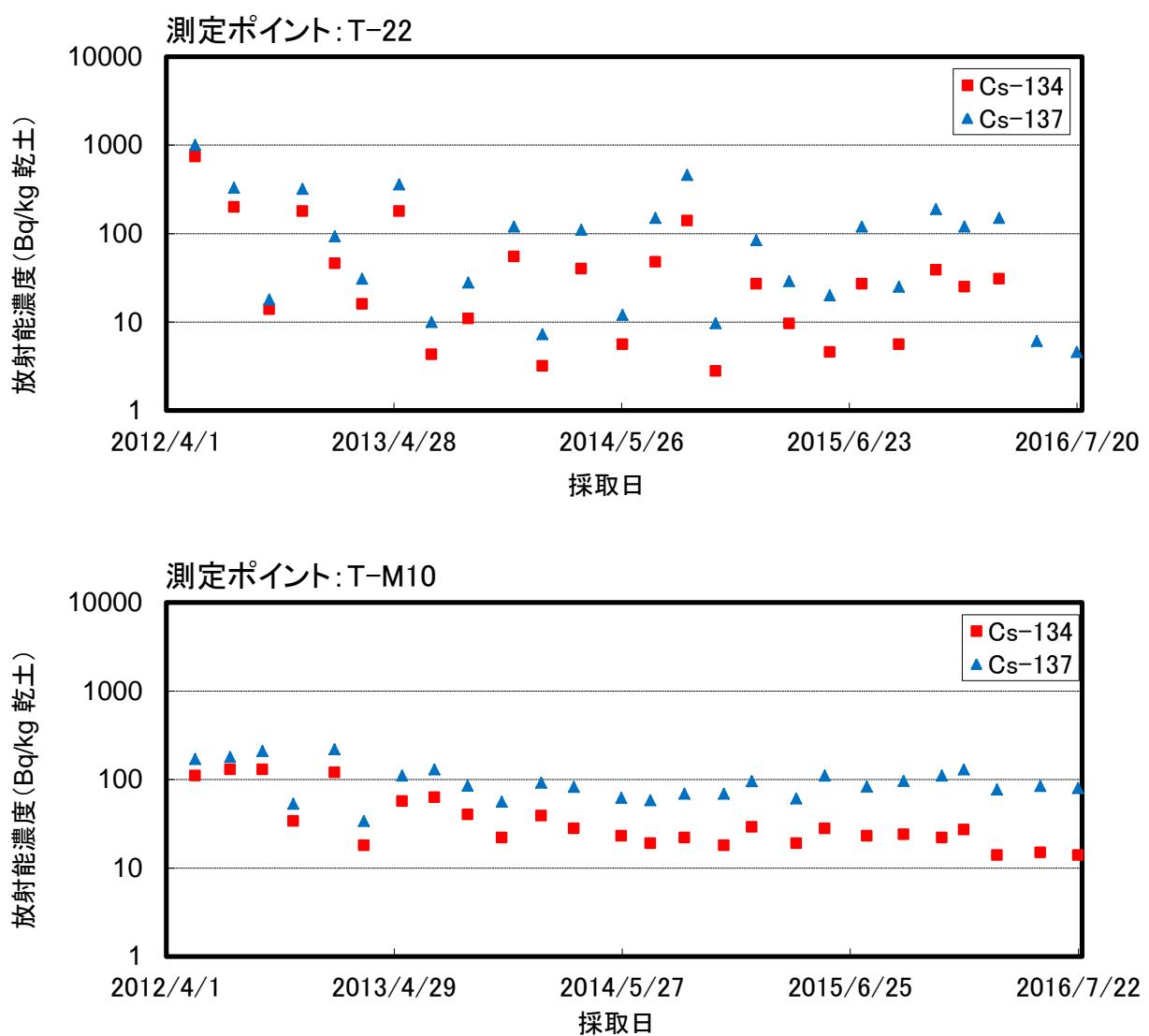


福島沿岸の海底土の放射能濃度の推移



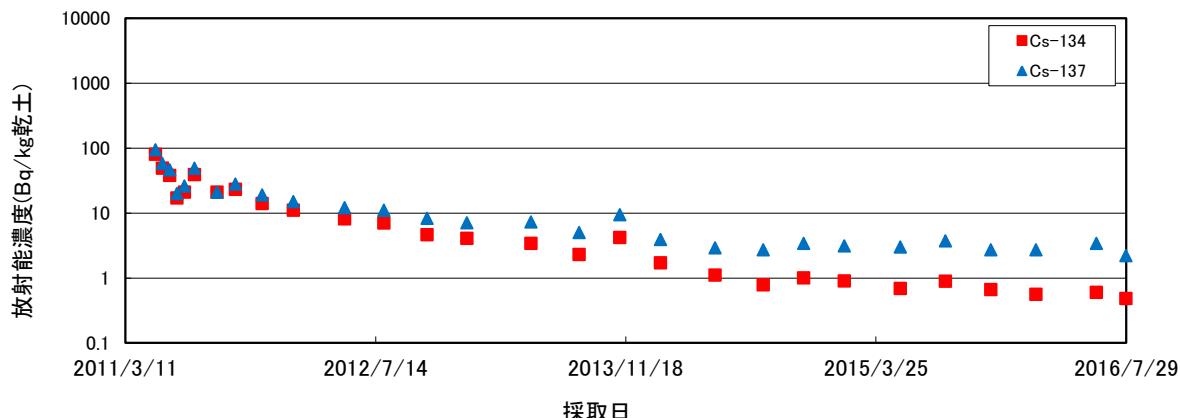




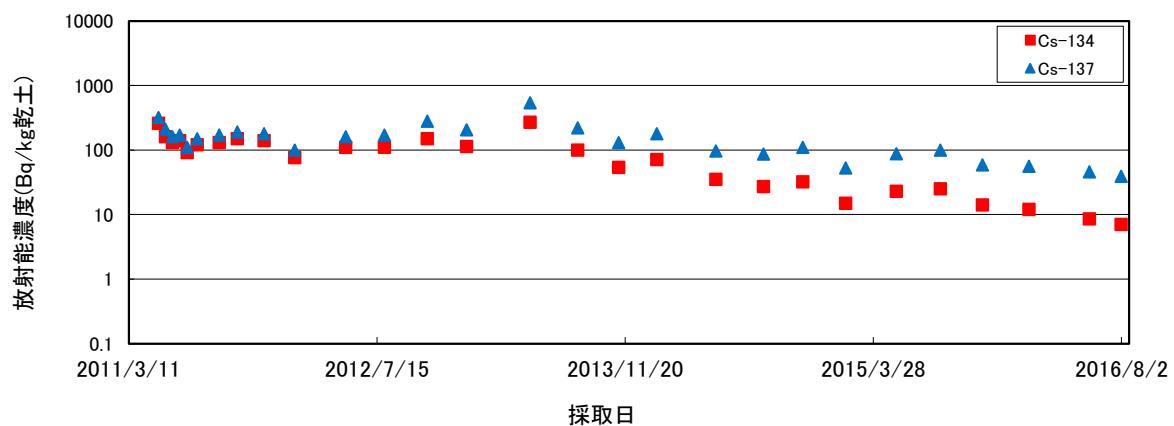


福島県沖合の海底土の放射能濃度の推移

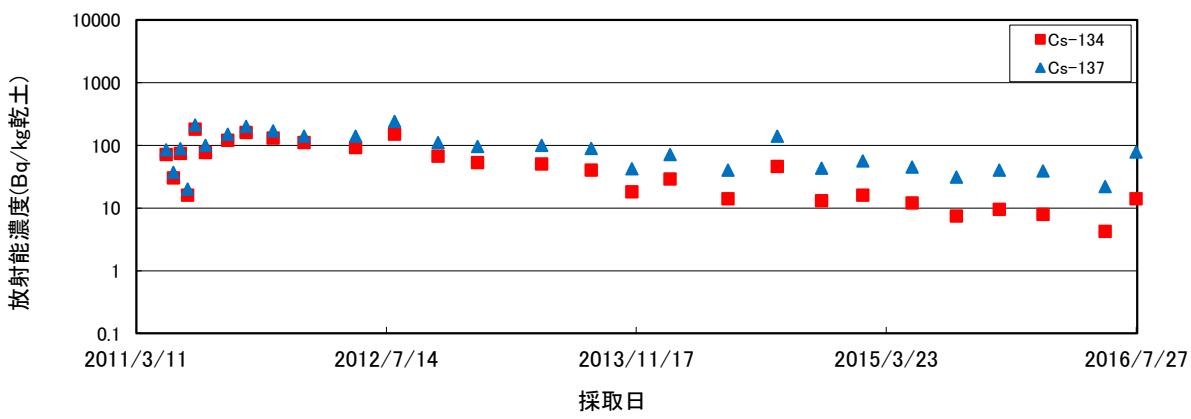
測定ポイント:M-C1

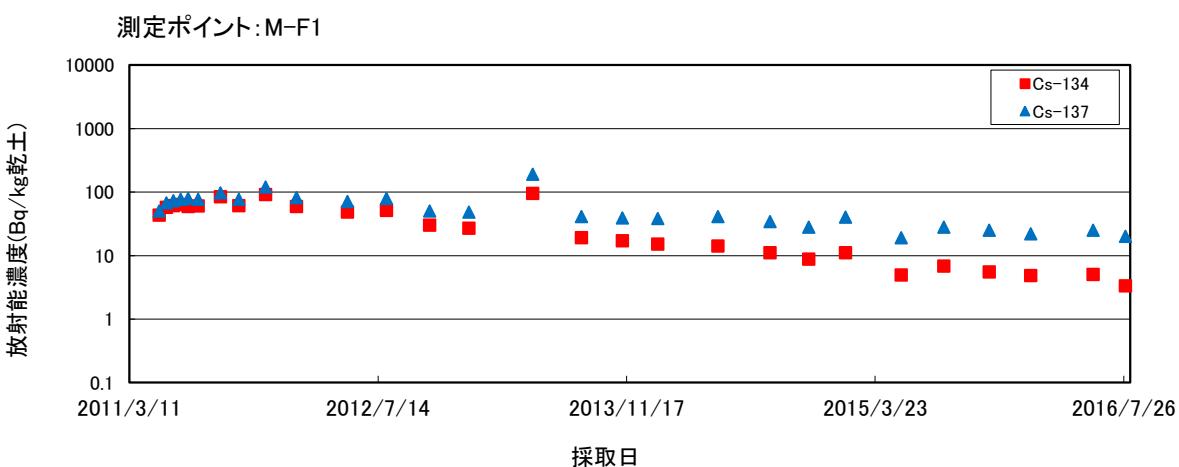
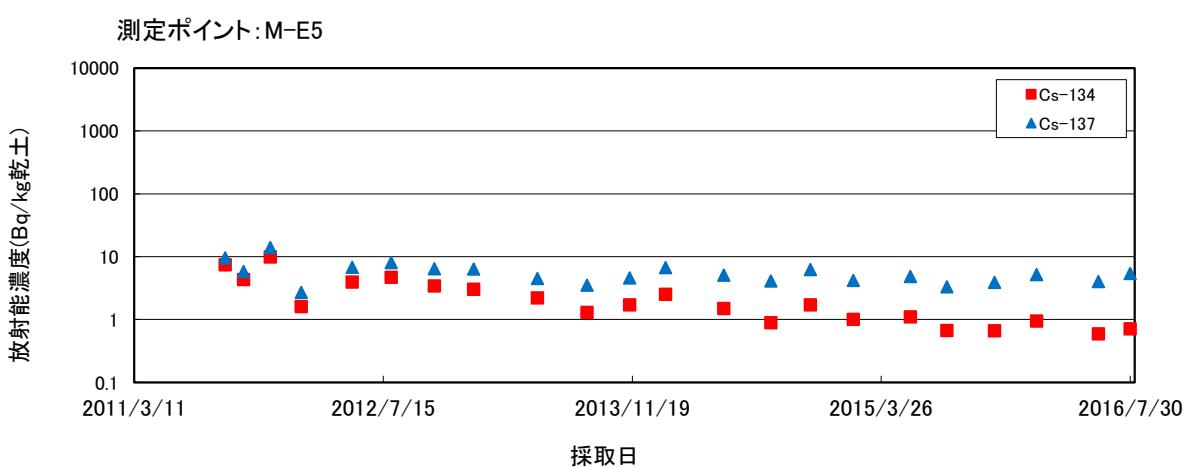
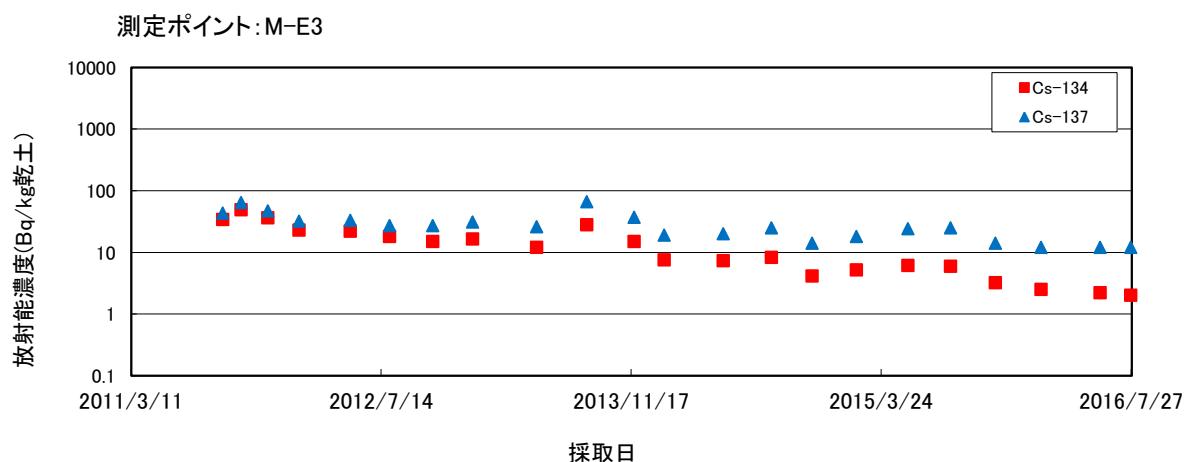


測定ポイント:M-D1

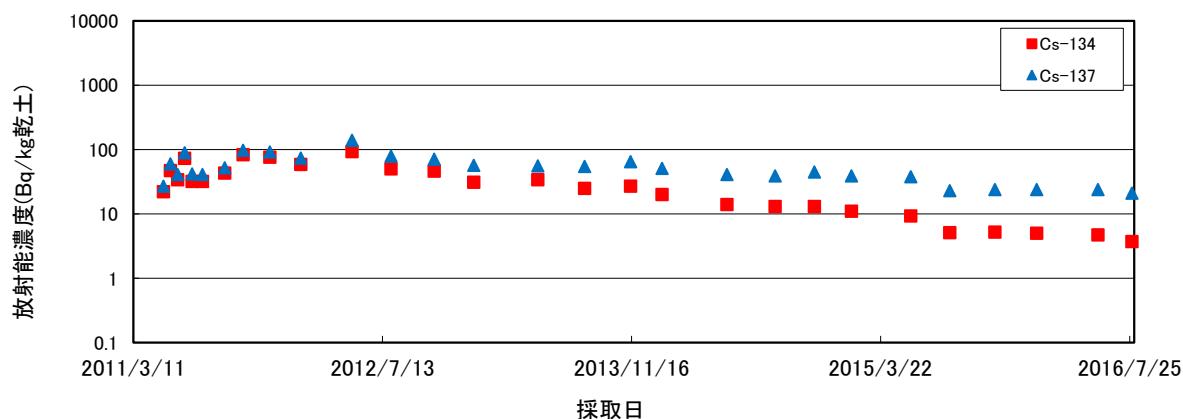


測定ポイント:M-E1

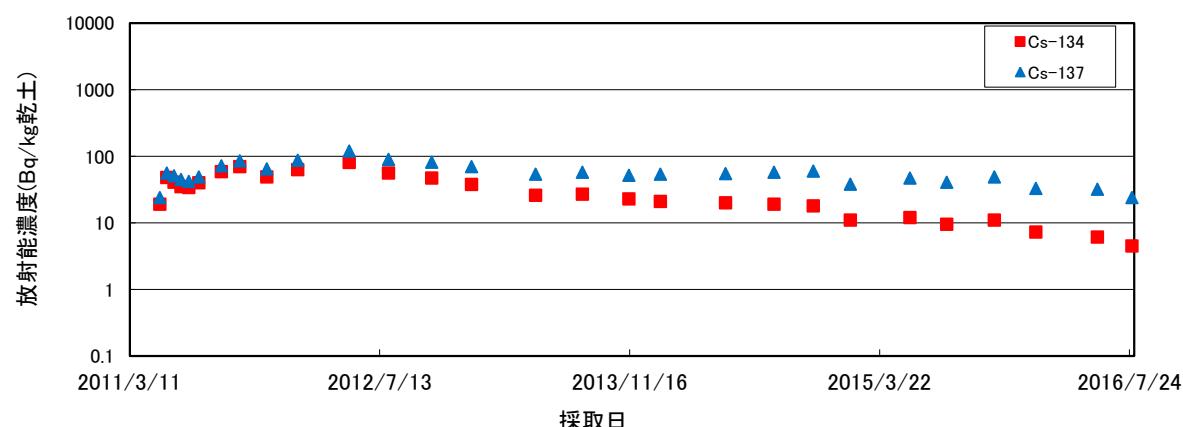




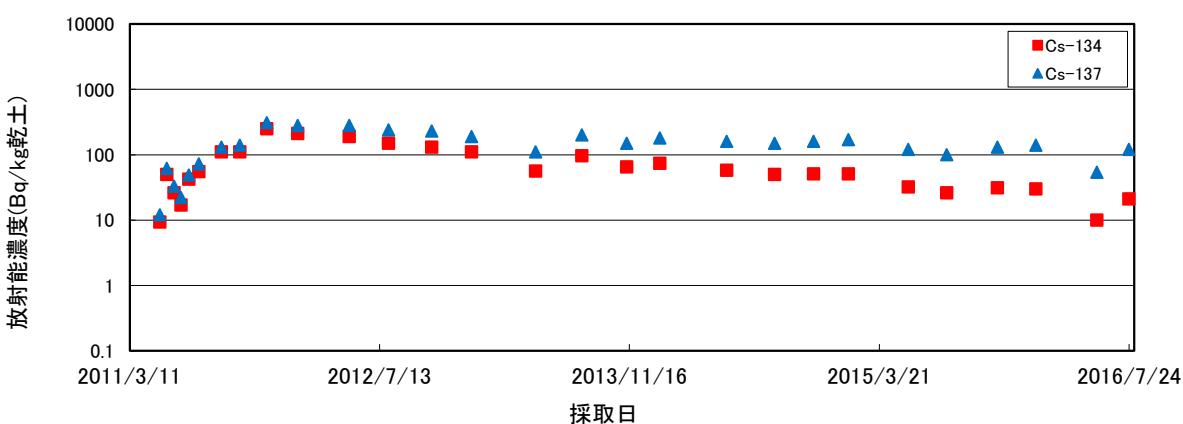
測定ポイント:M-G1



測定ポイント:M-H1

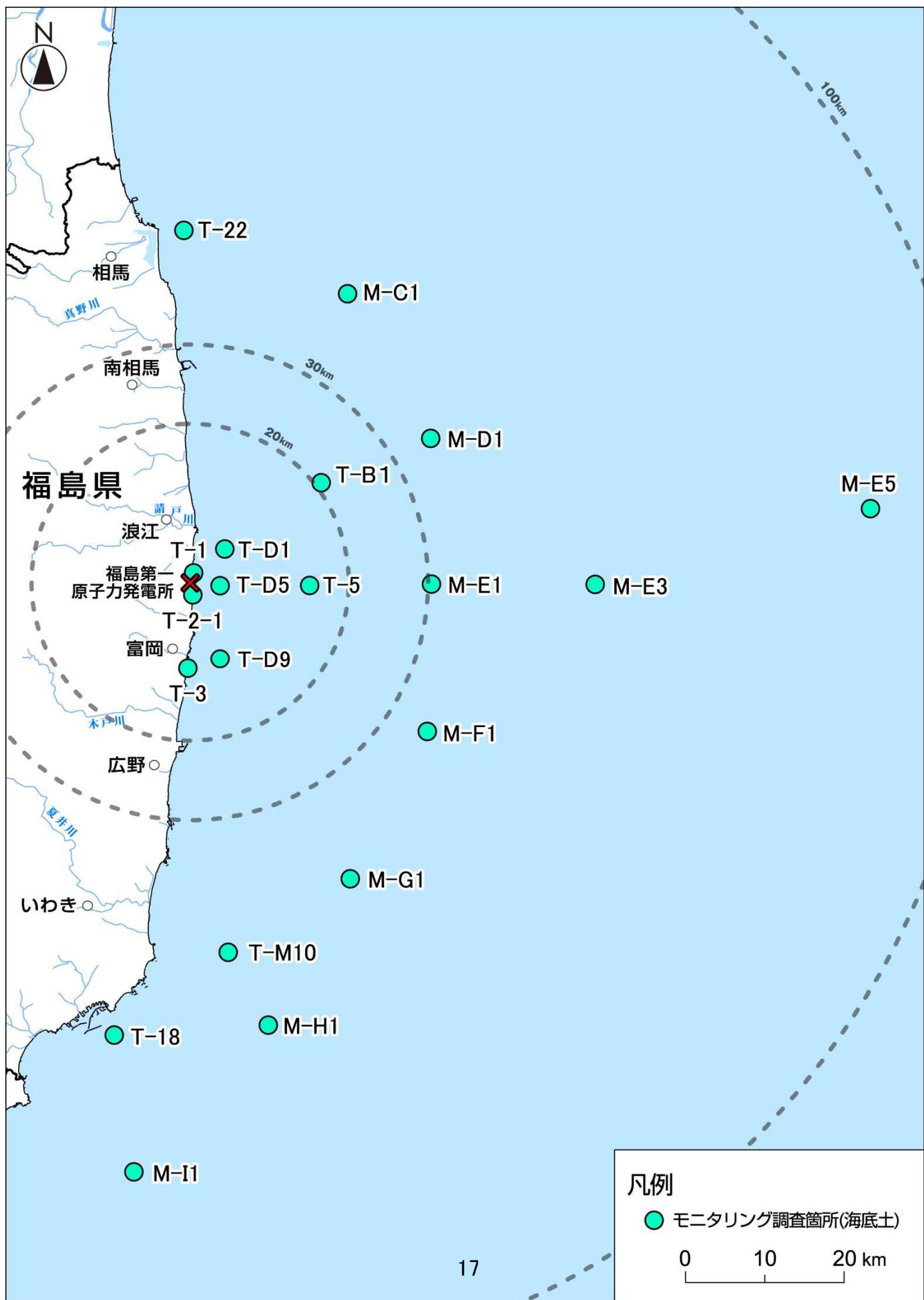


測定ポイント:M-I1



※計測値が不検出(ND)であった場合は、それをグラフ上に表示していない。

福島県沖



凡例

● モニタリング調査箇所(海底土)