

## Nuclide Analysis Results of Radioactive Materials in Seawater <Coast>

Reference

( data aggregation : 3/23 )

Place of Sampling	North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel)		Around South Discharge Channel of 1F ( approx. 330m south of 1-4u Discharge Channel)		Around North Discharge Channel of 2F ( Around 3,4u Discharge Channel) ( approx. 10 km from 1F )		Around Iwasawa Shore of 2F ( approx. 7 km south of 1,2u Discharge Channel) ( approx. 16 km from 1F )		Density limit by the announcement of Reactor Regulation (Bq/L)  (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time of Sampling	Mar 22, 2012 08:40 am		Mar 22, 2012 08:20 am		Mar 22, 2012 08:30 am		Mar 22, 2012 08:05 am		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	2.9	0.05	0.89	0.01	ND	-	0.94	0.02	60
Cs-137 (about 30 years)	5.3	0.06	ND	-	ND	-	2.1	0.02	90

\* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L.

\* Data of other nuclides are under evaluation.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

I-131: approx. 0.77Bq/L, Cs-134: approx. 0.78Bq/L, Cs-137: approx. 1.0Bq/L

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

## Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore 1/2>

Reference

(data aggregation : 3/23)

Place of Sampling	3 km offshore of Haramachi Ward Upper Layer		3 km offshore of Haramachi Ward Lower Layer		3 km offshore of Odaka Ward Upper Layer		3 km offshore of Odaka Ward Lower Layer		3 km offshore of Iwasawa shore Upper Layer		3 km offshore of Iwasawa shore Lower Layer		② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time of Sampling	Mar 21, 2012 (Not sampled)		Mar 21, 2012 (Not sampled)		Mar 21, 2012 (Not sampled)		Mar 21, 2012 (Not sampled)		Mar 21, 2012 07:40 am		Mar 21, 2012 07:40 am		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (about 8 days)	-	-	-	-	-	-	-	-	ND	-	ND	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	ND	-	ND	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	ND	-	ND	-	90

Place of Sampling	8 km offshore of Odaka Ward Upper Layer		8 km offshore of Odaka Ward Lower Layer		8 km offshore of Iwasawa shore Upper Layer		8 km offshore of Iwasawa shore Lower Layer						② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time of Sampling	Mar 21, 2012 (Not sampled)		Mar 21, 2012 (Not sampled)		Mar 21, 2012 08:00 am		Mar 21, 2012 08:00 am		/		/		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (about 8 days)	-	-	-	-	ND	-	ND	-	/	/	/	/	40
Cs-134 (about 2 years)	-	-	-	-	ND	-	ND	-	/	/	/	/	60
Cs-137 (about 30 years)	-	-	-	-	ND	-	ND	-	/	/	/	/	90

\* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L.

\* Data of other nuclides are under evaluation.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

I-131: approx. 0.63Bq/L, Cs-134: approx. 0.95Bq/L, Cs-137: approx. 1.0Bq/L

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

3 out of 9 samplings were cancelled due to bad weather.

## Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore 2/2>

Reference

(data aggregation : 3/23)

Place of Sampling	3 km offshore of North of Iwaki Upper Layer		3 km offshore of North of Iwaki Lower Layer		3 km offshore of Natsui river Upper Layer		3 km offshore of Natsui river Lower Layer		3 km offshore of Onahama port Upper Layer		3 km offshore of Onahama port Lower Layer		② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
	Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	-	-	-	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	-	-	-	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	1.3	0.01	-	-	-	-	90

Place of Sampling	3 km offshore of Ena Upper Layer		3 km offshore of Ena Lower Layer		3 km offshore of Numanouchi Upper Layer		3 km offshore of Numanouchi Lower Layer		3 km offshore of Toyoma Upper Layer		3 km offshore of Toyoma Lower Layer		② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
	Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (about 8 days)	-	-	-	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	-	-	-	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	-	-	-	-	ND	-	ND	-	ND	-	ND	-	90

\* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L.

\* Data of other nuclides are under evaluation.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

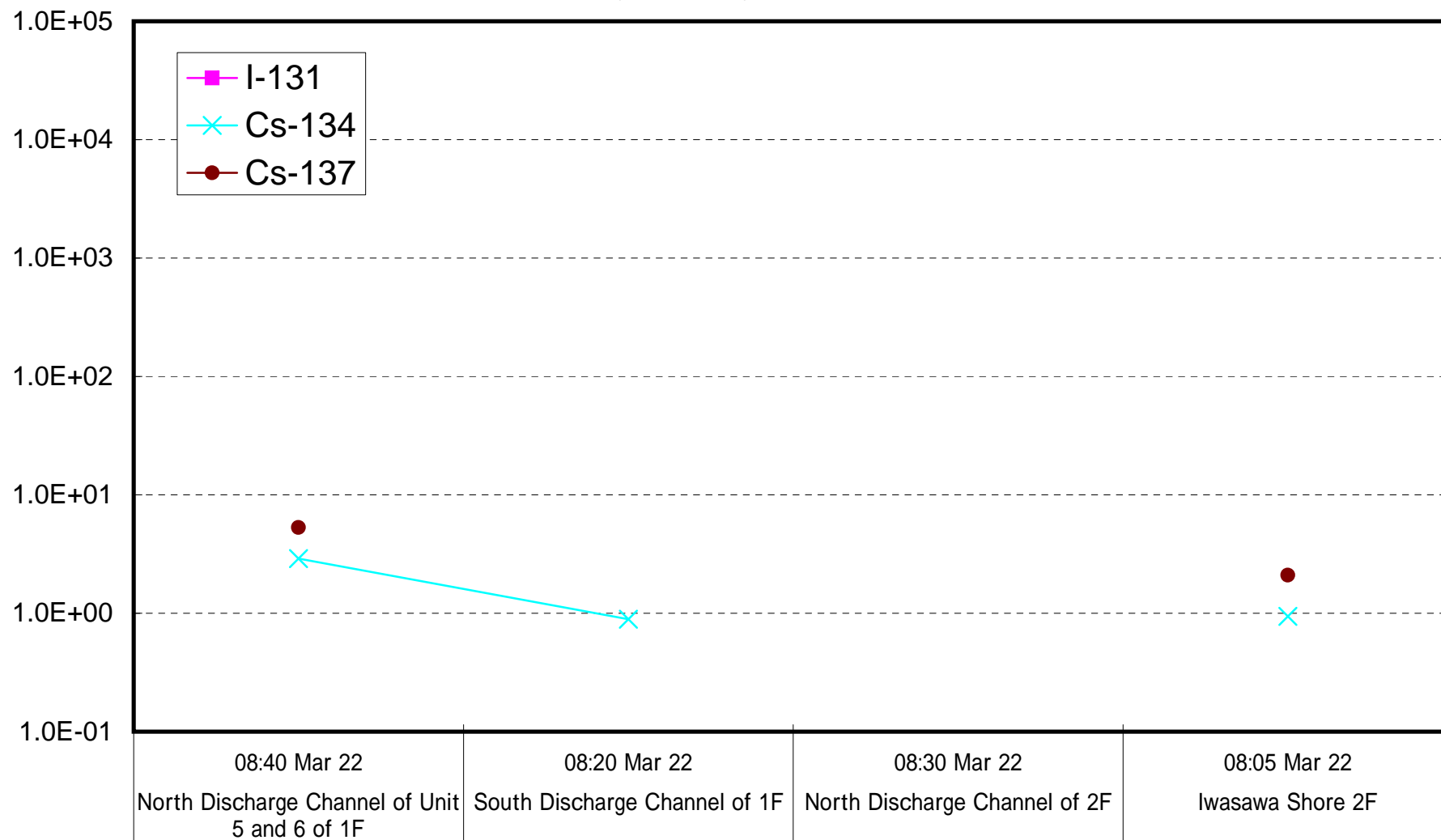
\* "ND" means the sampled data is below measurable limit.

I-131: approx. 0.70Bq/L, Cs-134: approx. 0.87Bq/L, Cs-137: approx. 1.1Bq/L

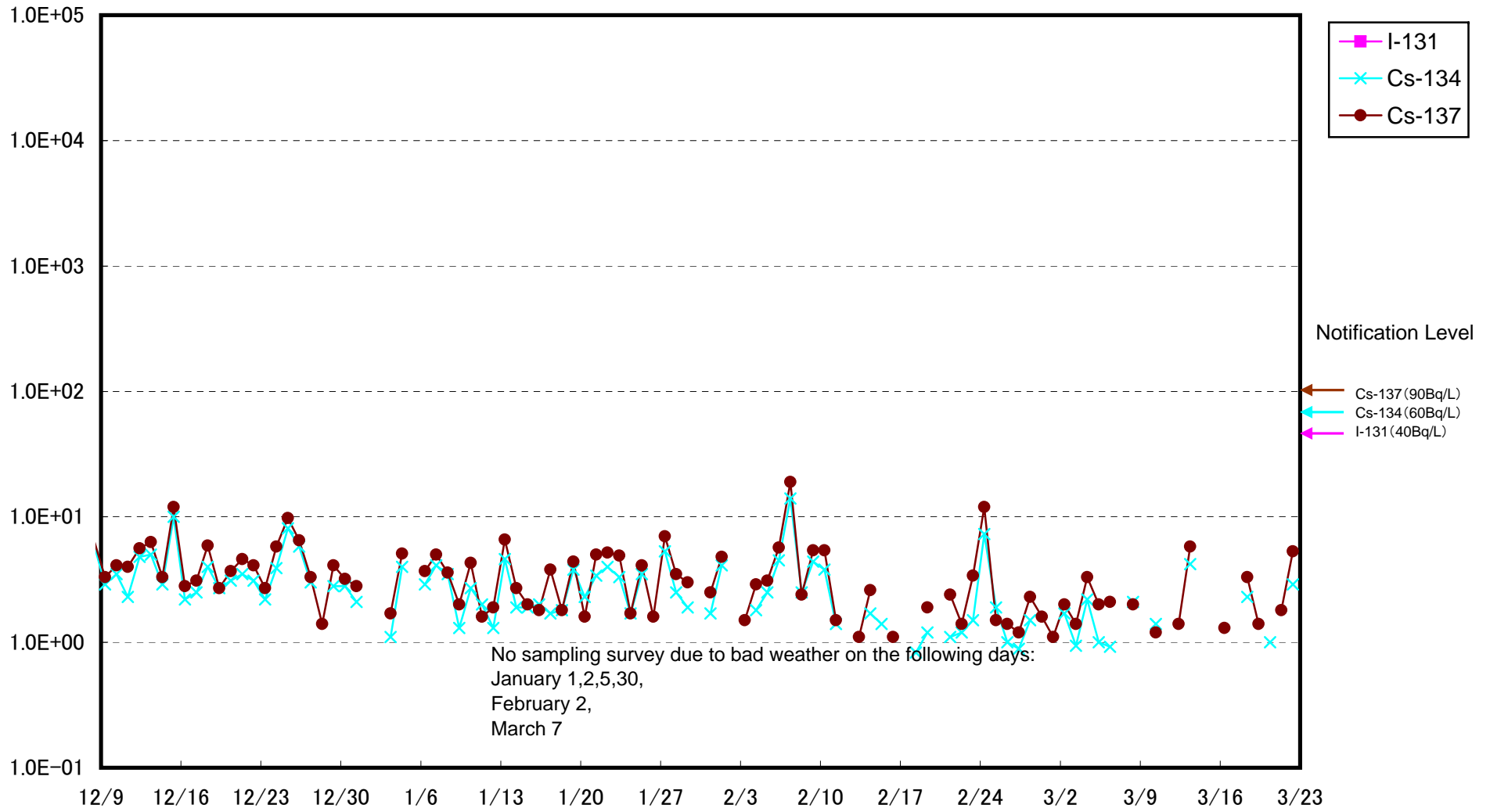
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

3 out of 9 samplings were cancelled due to bad weather.

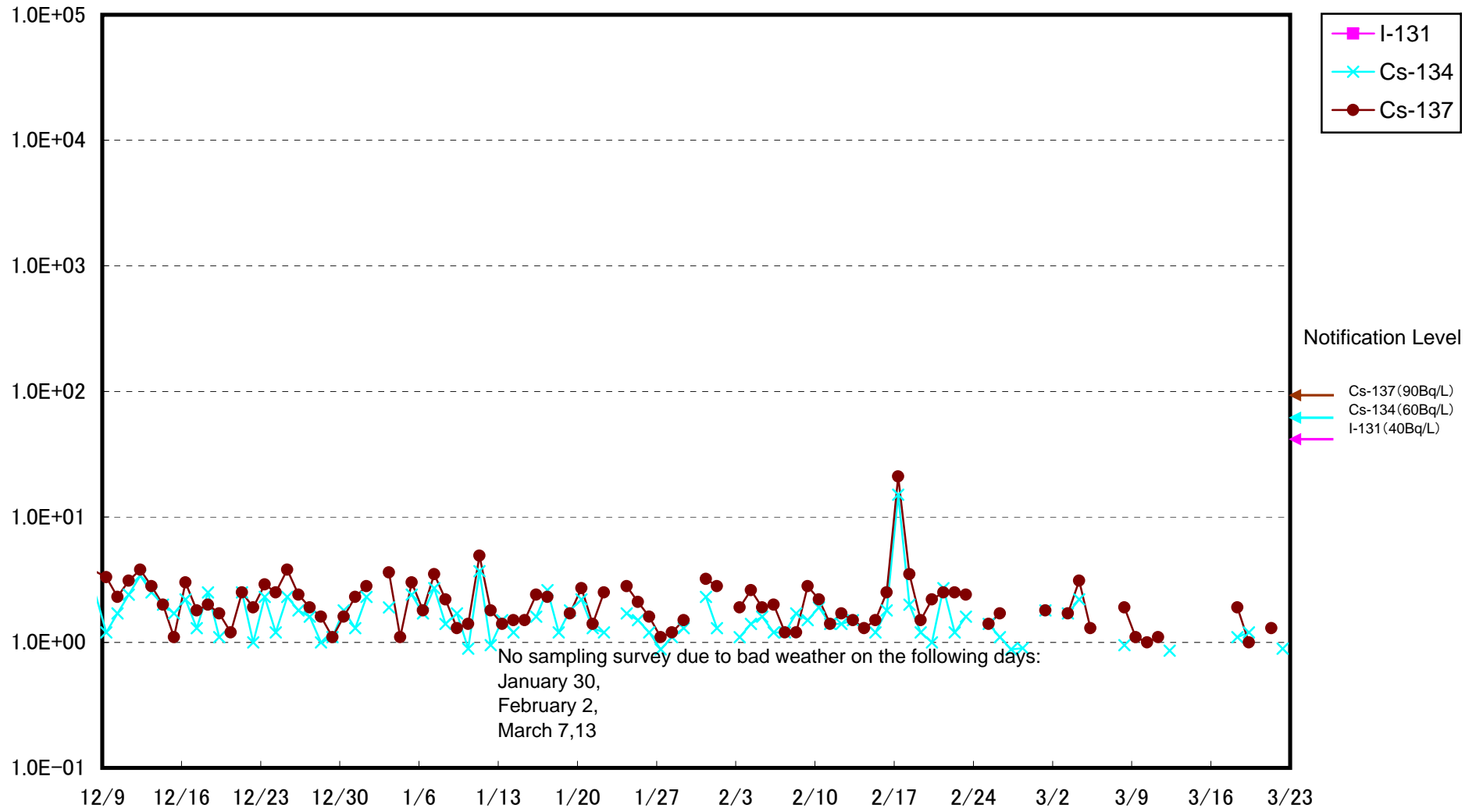
# Radioactivity Density of Seawater (Bq/L)



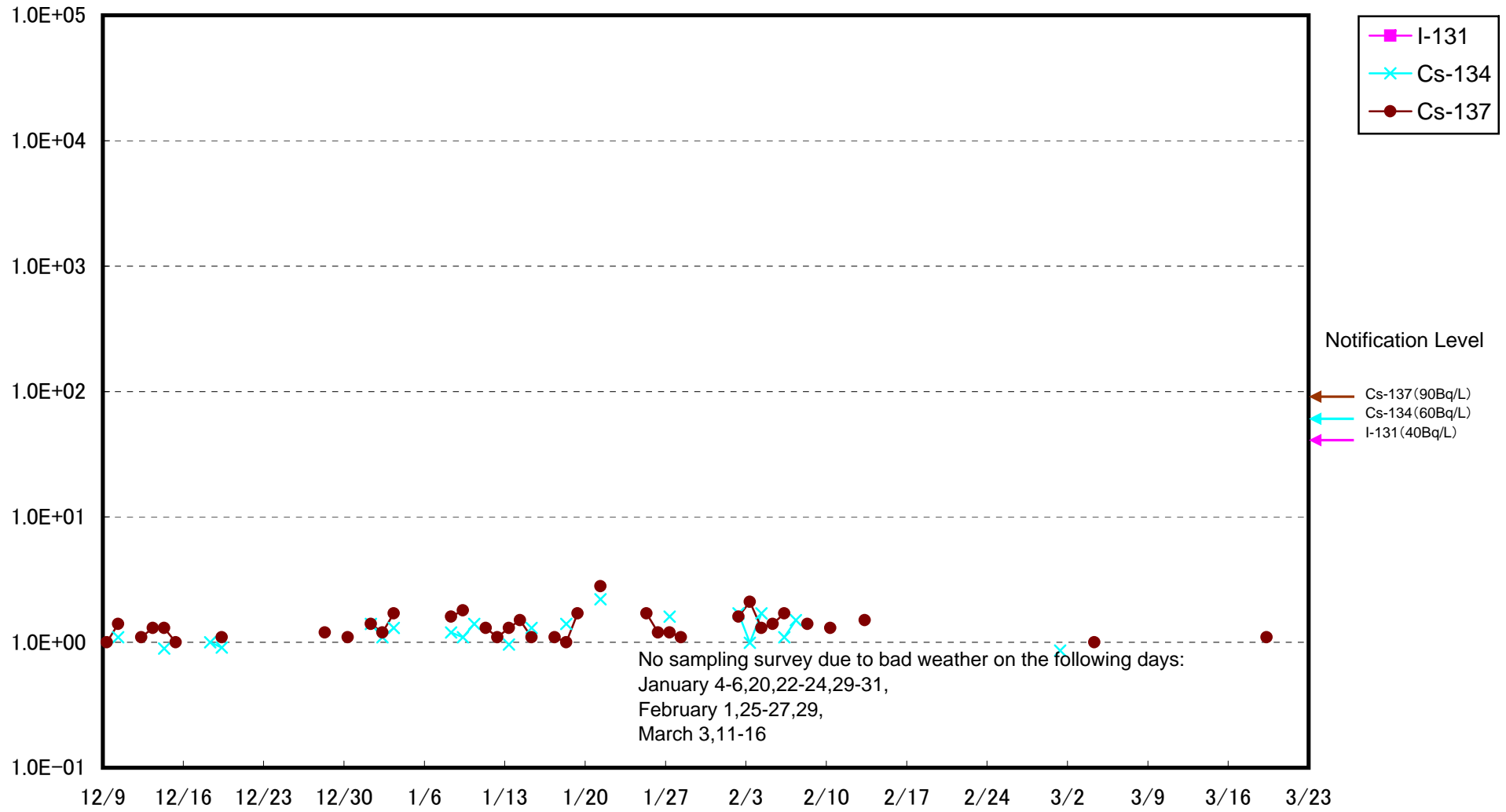
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



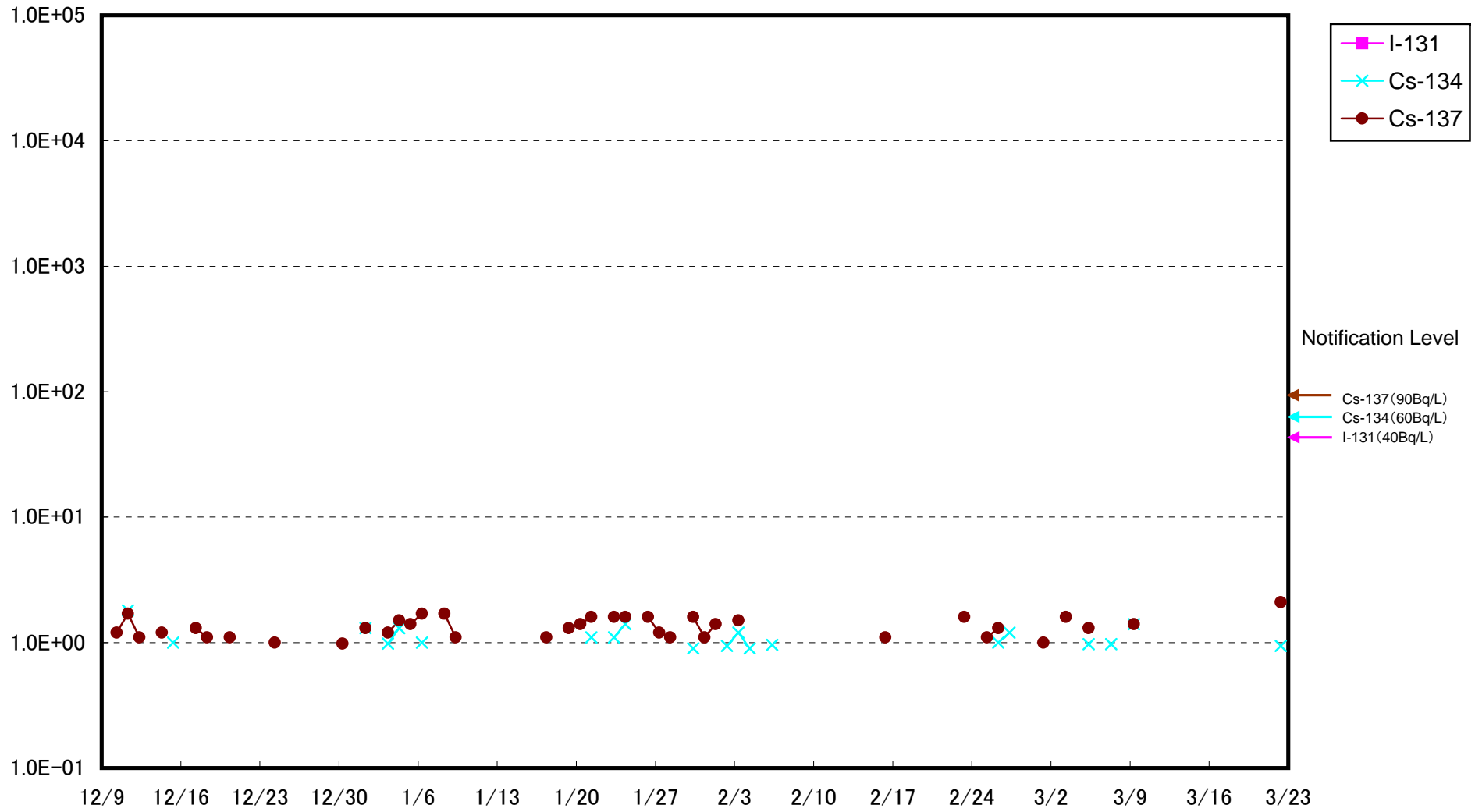
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)



Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)

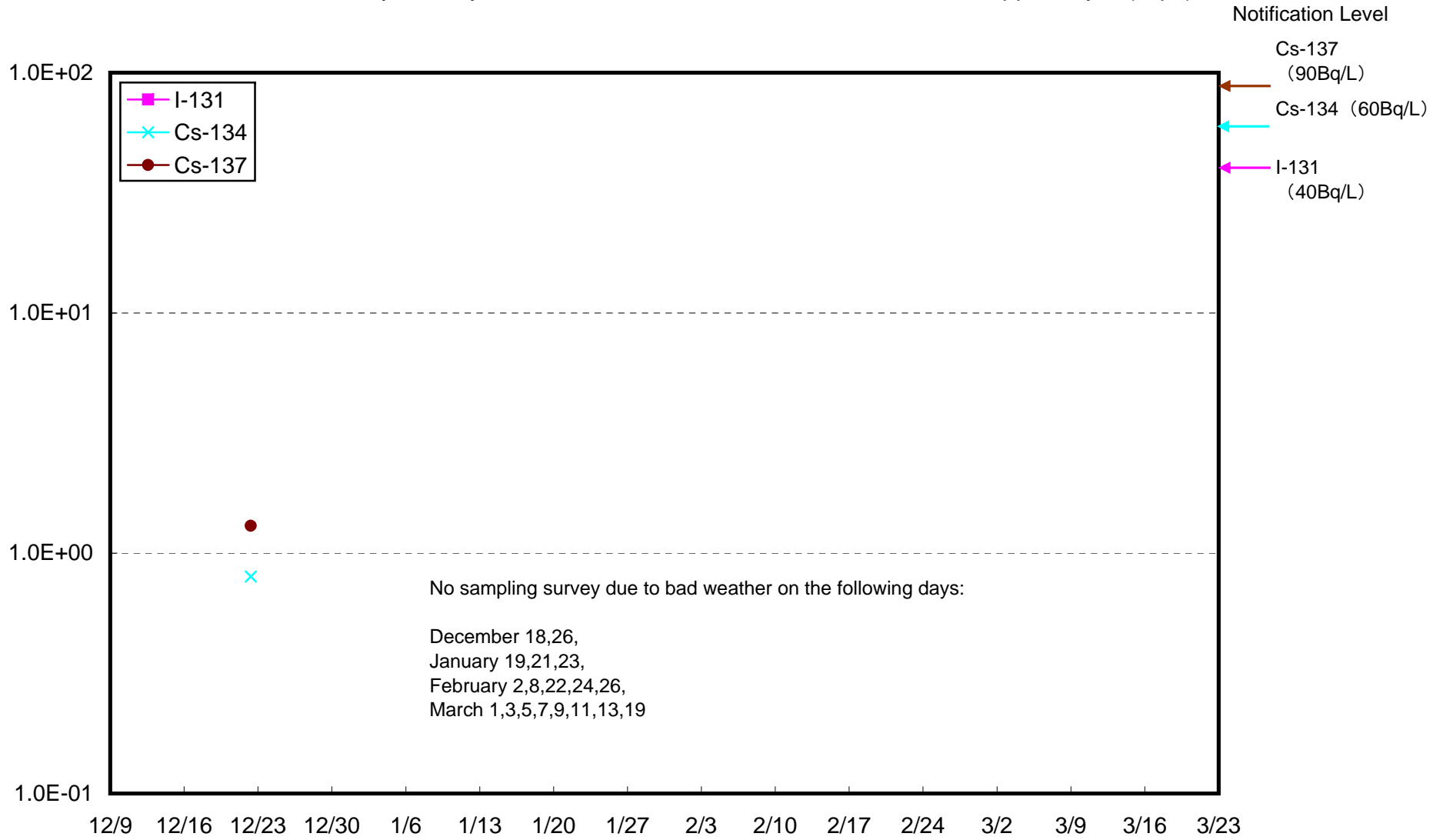


Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

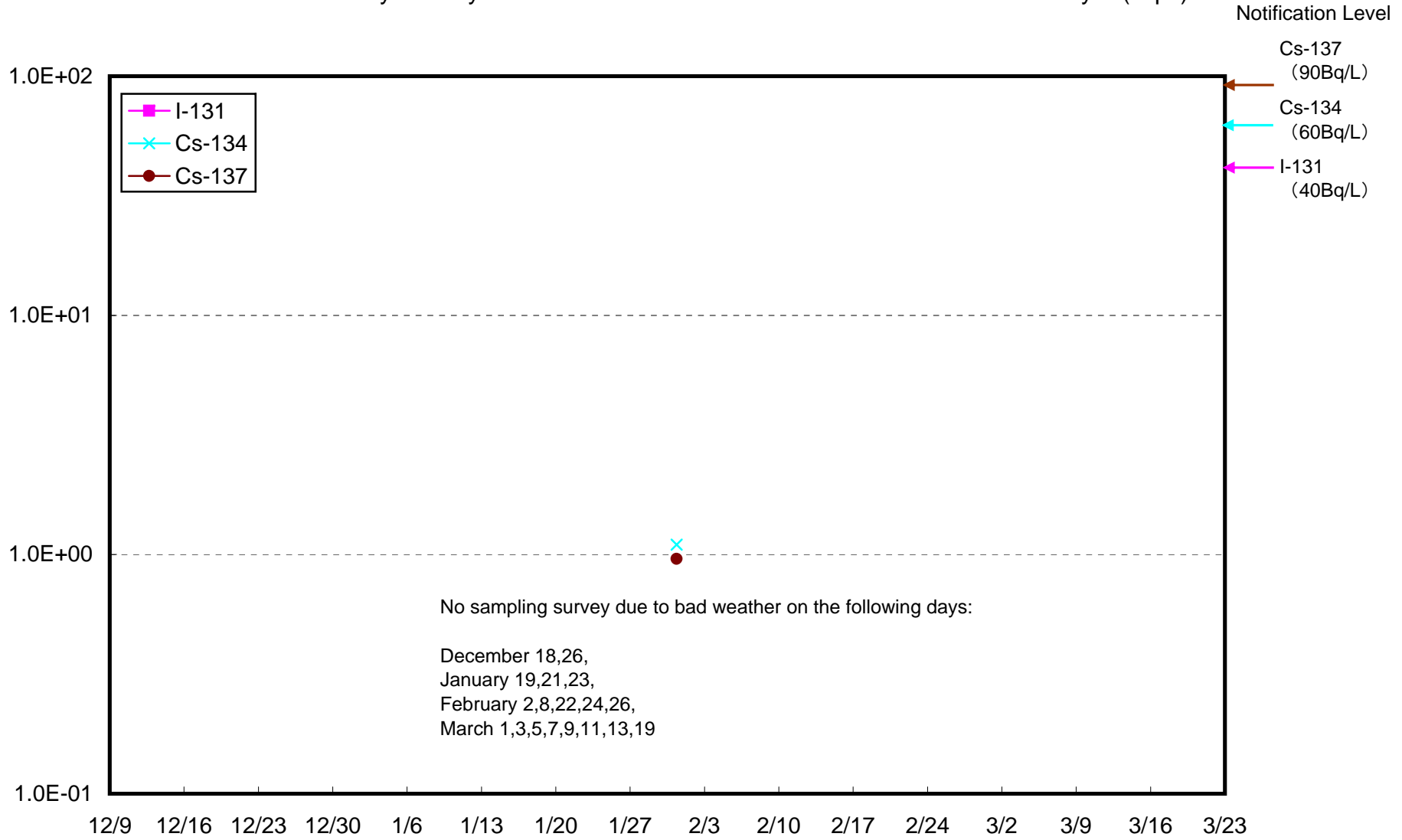




Radioactivity Density of Seawater 3km Offshore of Iwasawa Shore Upper Layer (Bq/L)



# Radioactivity Density of Seawater 3km Offshore of Iwasawa Shore Lower Layer (Bq/L)



Radioactivity Density of Seawater 8km Offshore of Iwasawa Shore Upper Layer (Bq/L)

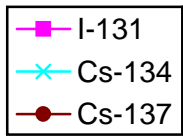
Notification Level

Cs-137  
(90Bq/L)

Cs-134  
(60Bq/L)

I-131 (40Bq/L)

1.0E+02



1.0E+01

There is no plot data after December 11 as no nuclide detected.

1.0E+00

No sampling survey due to bad weather on the following days:

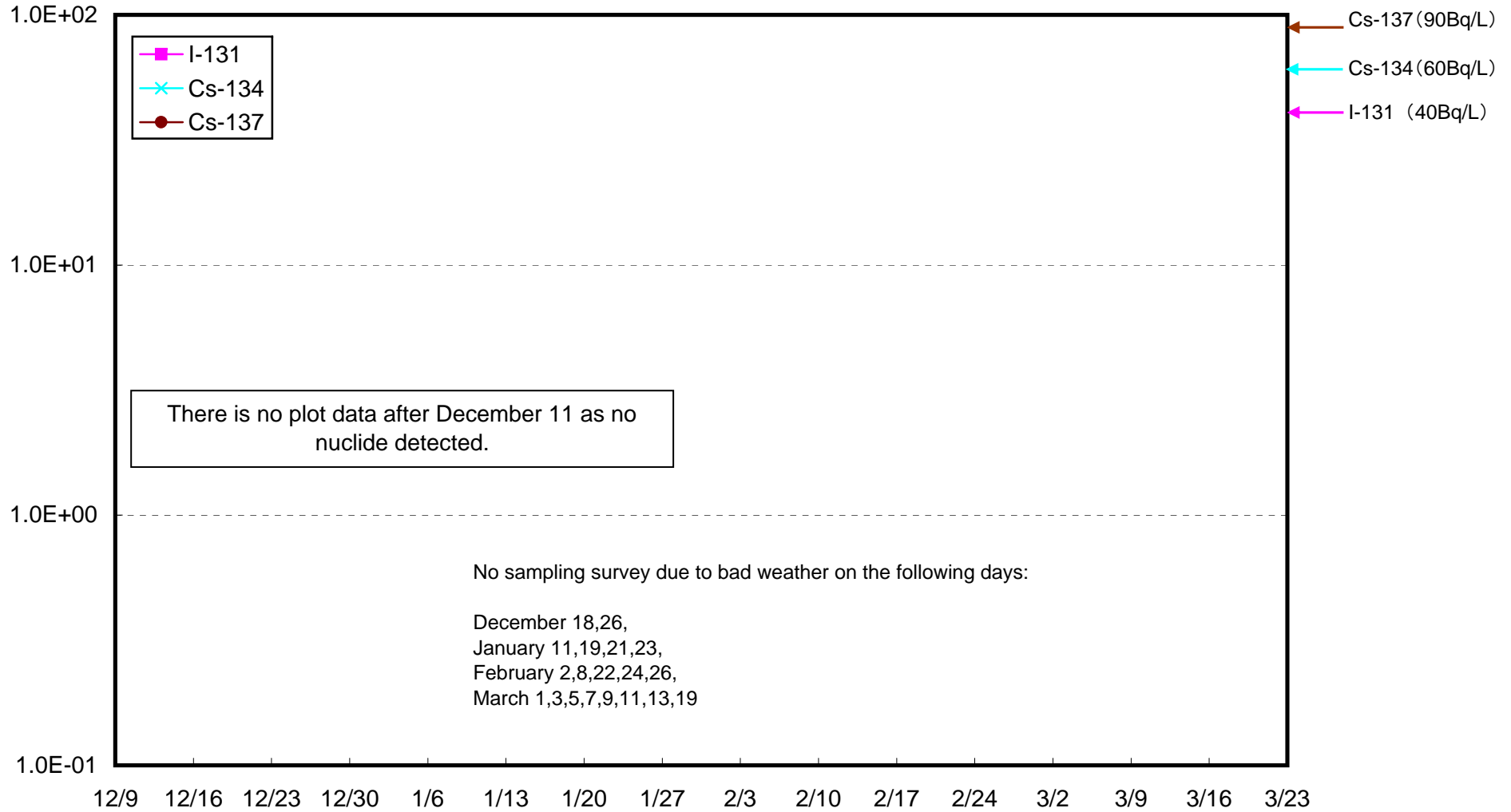
December 18,26,  
January 11,19,21,23,  
February 2,8,22,24,26,  
March 1,3,5,7,9,11,13,19

1.0E-01

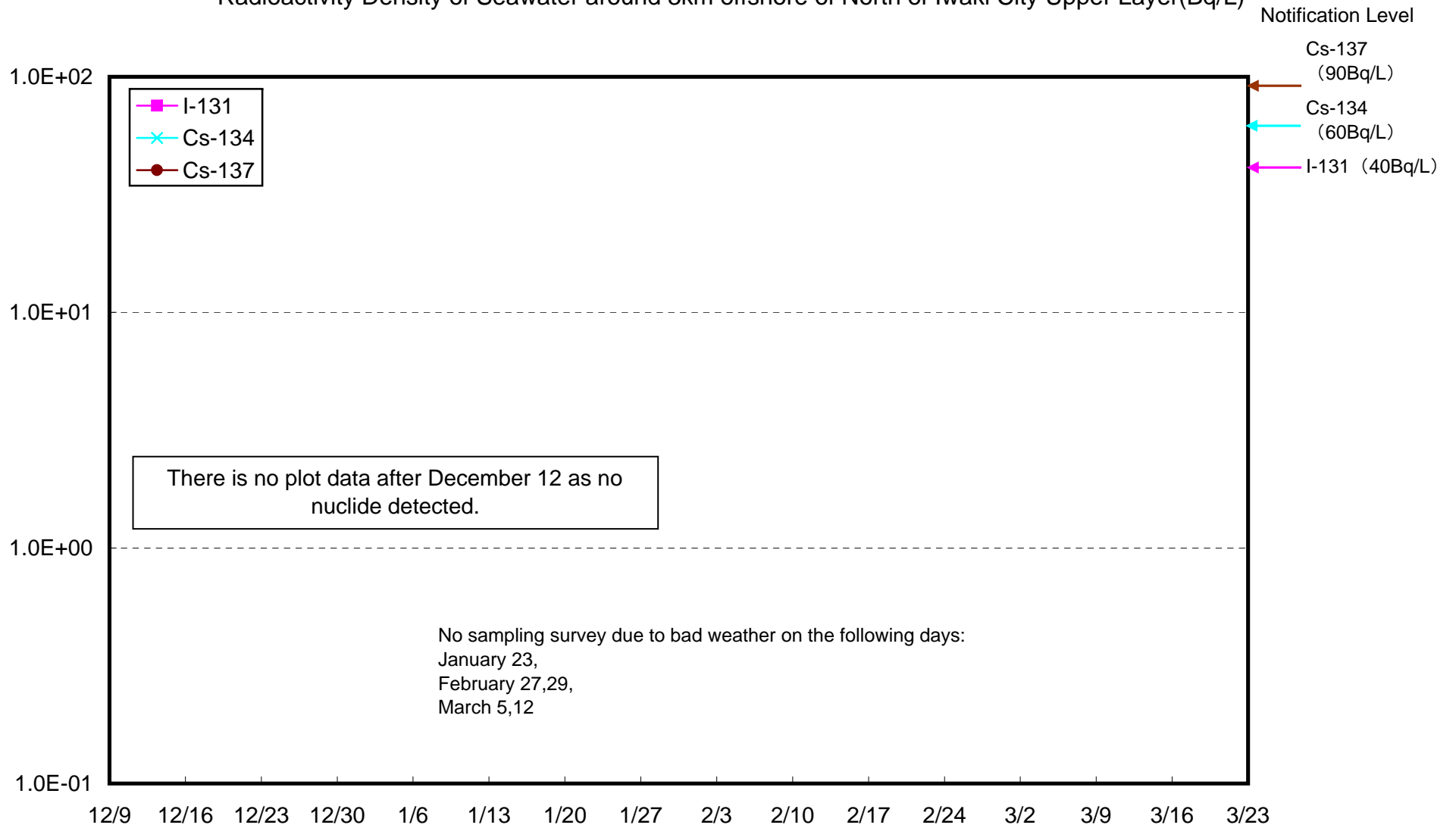
12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24 3/2 3/9 3/16 3/23

Radioactivity Density of Seawater 8km Offshore of Iwasawa Shore Lower Layer (Bq/L)

Notification Level



Radioactivity Density of Seawater around 3km offshore of North of Iwaki City Upper Layer(Bq/L)



Radioactivity Density of Seawater around 3km offshore of North of Iwaki City Lower Layer(Bq/L)

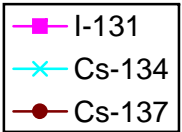
Notification Level

Cs-137  
(90Bq/L)

Cs-134  
(60Bq/L)

I-131 (40Bq/L)

1.0E+02



1.0E+01

There is no plot data after December 12 as no nuclide detected.

1.0E+00

No sampling survey due to bad weather on the following days:  
January 23,  
February 27,29,  
March 5,12

1.0E-01

12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24 3/2 3/9 3/16 3/23

Radioactivity Density of Seawater around 3km offshore of Natsui River Upper Layer(Bq/L)

Notification Level

Cs-137  
(90Bq/L)

Cs-134  
(60Bq/L)

I-131 (40Bq/L)

1.0E+02

I-131  
Cs-134  
Cs-137

1.0E+01

There is no plot data after December 12 as no nuclide detected.

1.0E+00

No sampling survey due to bad weather on the following days:

January 23,  
February 27,29,  
March 5,12

1.0E-01

12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24 3/2 3/9 3/16 3/23

Radioactivity Density of Seawater around 3km offshore of Natsui River Lower Layer(Bq/L)

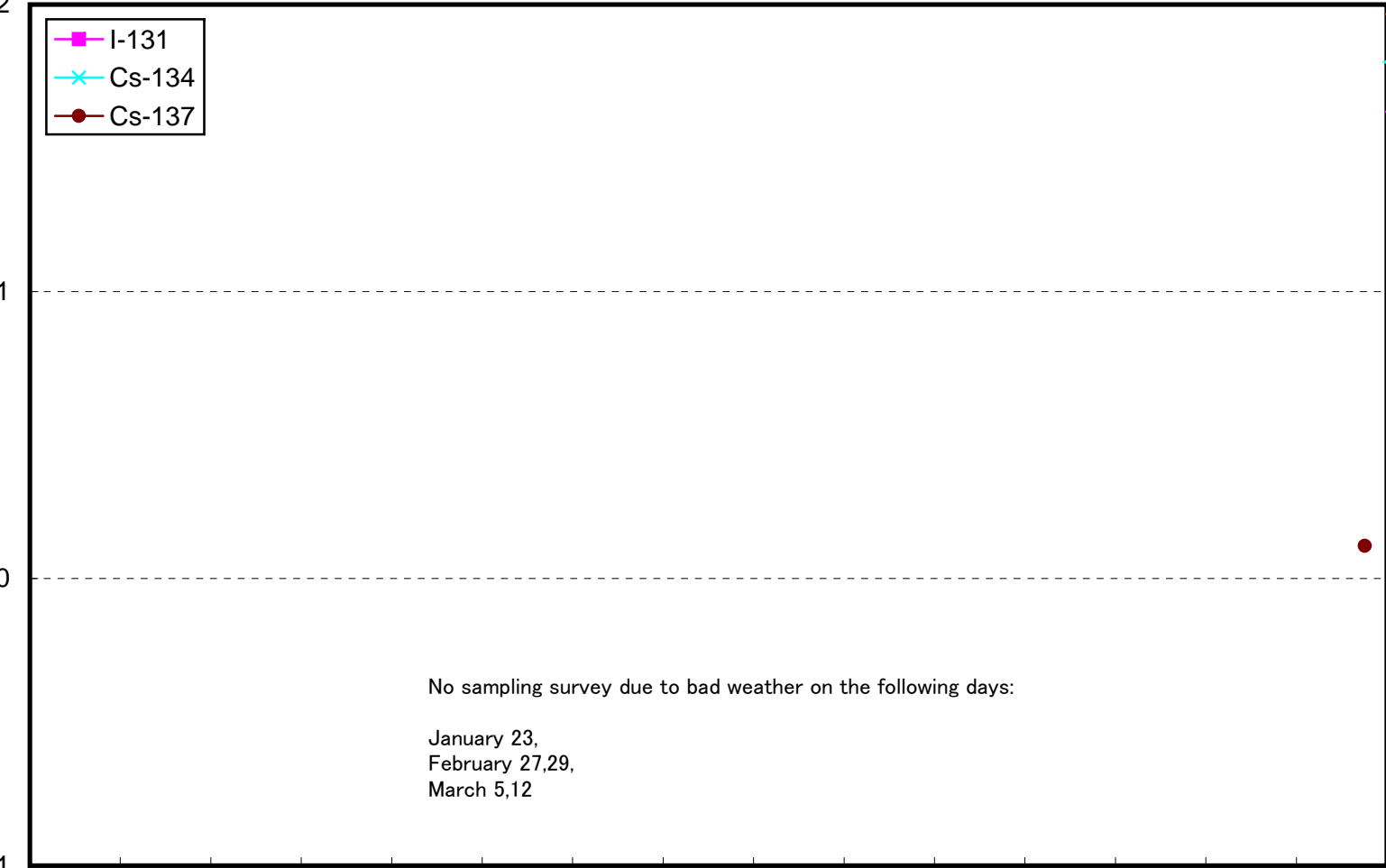
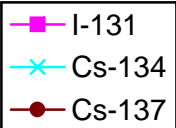
Notification Level

Cs-137  
(90Bq/L)

Cs-134  
(60Bq/L)

I-131 (40Bq/L)

1.0E+02  
1.0E+01  
1.0E+00  
1.0E-01



No sampling survey due to bad weather on the following days:  
January 23,  
February 27,29,  
March 5,12

12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24 3/2 3/9 3/16 3/23



# Radioactivity Density of Seawater around 3km offshore of Numanouchi Upper Layer(Bq/L)

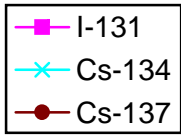
Notification Level

Cs-137  
(90Bq/L)

Cs-134  
(60Bq/L)

I-131 (40Bq/L)

1.0E+02



1.0E+01

There is no plot data after December 12 as no nuclide detected.

1.0E+00

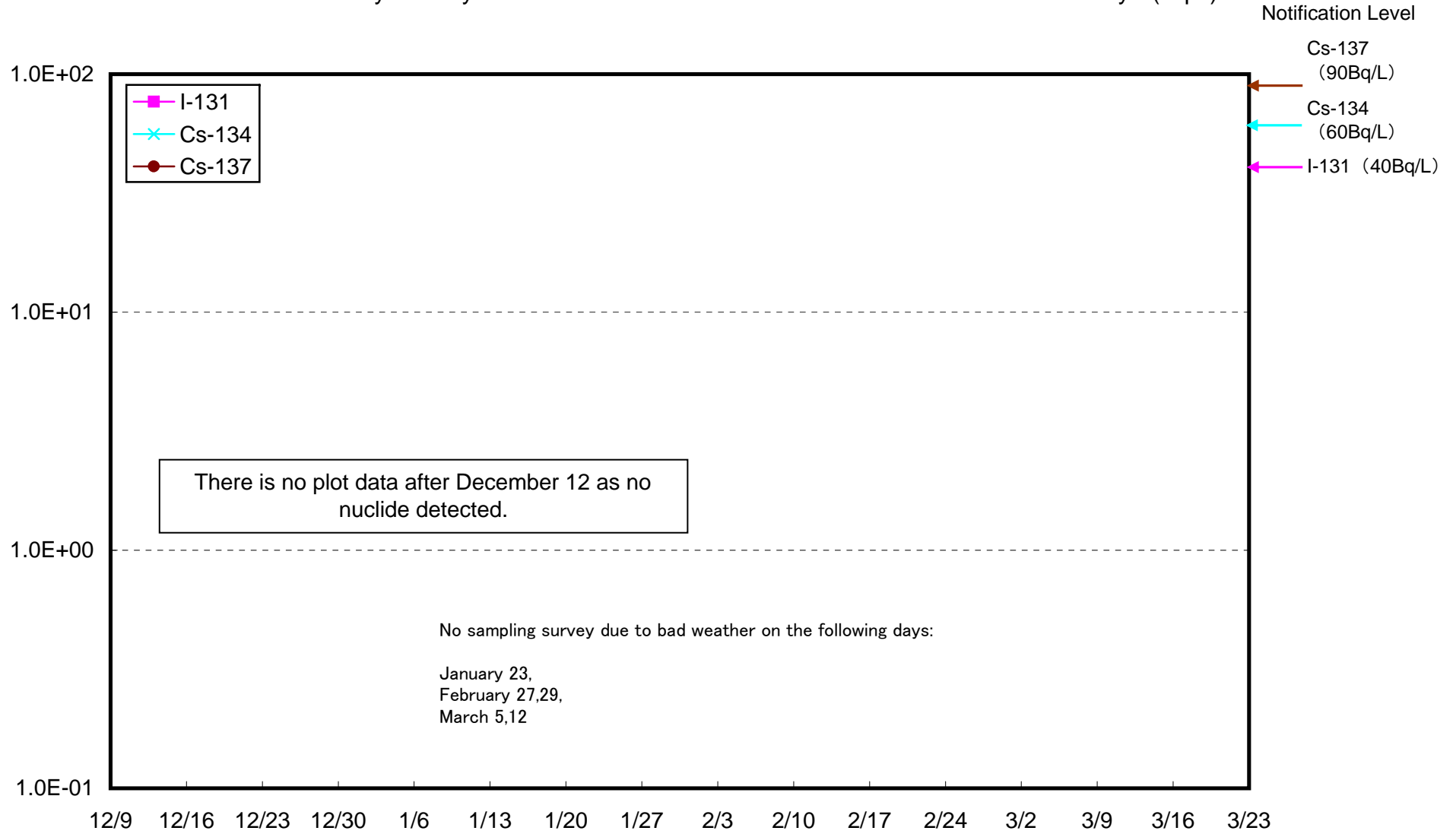
No sampling survey due to bad weather on the following days:

January 23,  
February 27,29,  
March 5,12

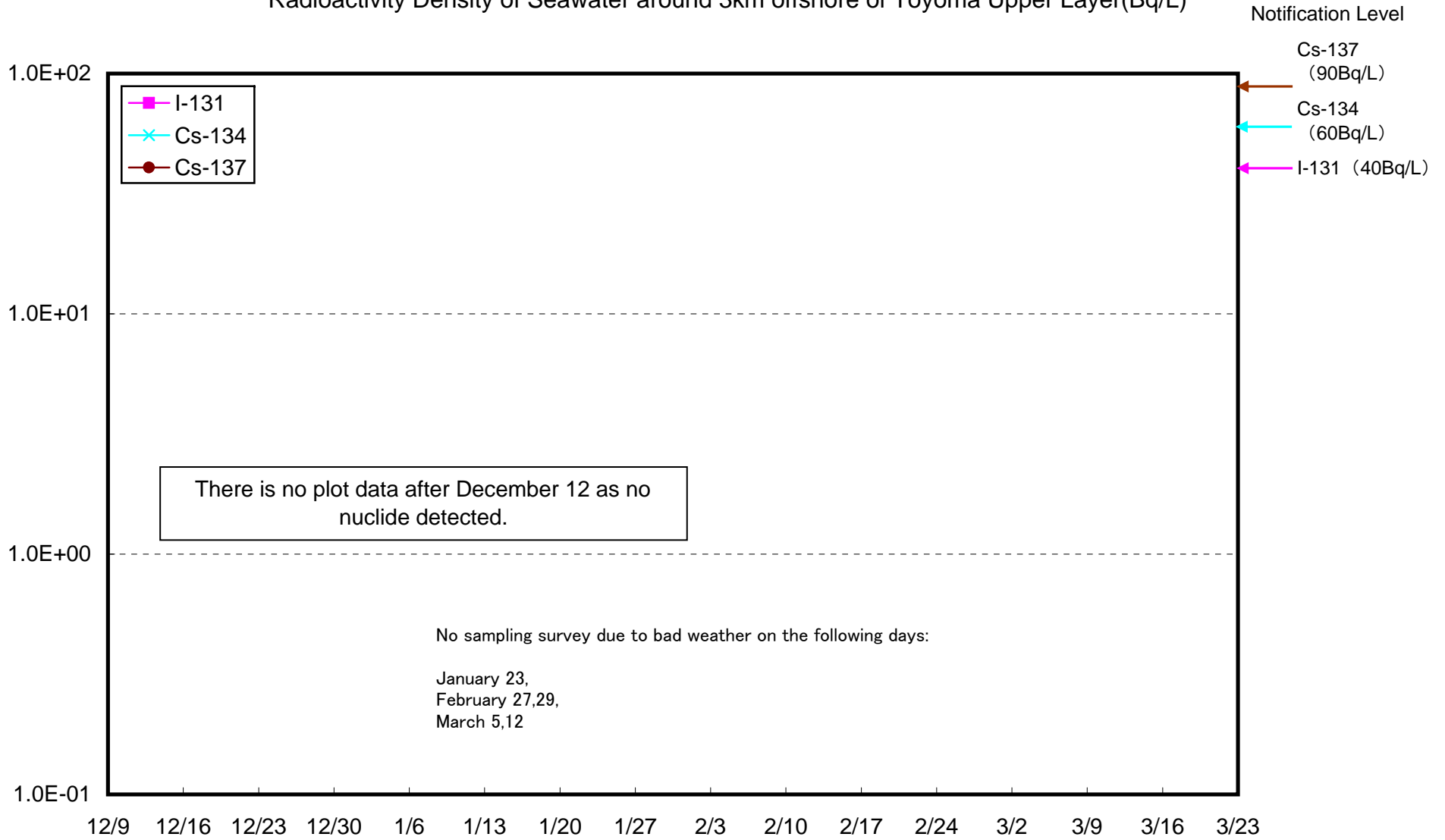
1.0E-01

12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24 3/2 3/9 3/16 3/23

Radioactivity Density of Seawater around 3km offshore of Numanouchi Lower Layer(Bq/L)



# Radioactivity Density of Seawater around 3km offshore of Toyoma Upper Layer(Bq/L)



# Radioactivity Density of Seawater around 3km offshore of Toyoma Lower Layer(Bq/L)

