

Nuclide Analysis Results of Radioactive Materials in Seawater <Coast>

Reference

(Data summarized on February 20)

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	Feb 19, 2012 08:45 am		Feb 19, 2012 08:20 am		Feb 19, 2012 08:20 am		Feb 19, 2012 08:00 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)	1.2	0.02	1.2	0.02	ND	-	ND	-	60
Cs-137 (about 30 years)	1.9	0.02	1.5	0.02	ND	-	ND	-	90

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm³ 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. 0.71Bq/L, Cs-134: approx. 0.82Bq/L, Cs-137: approx. 0.96Bq/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>

Reference

(Data summarized on February 20)

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		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	Feb 18, 2012 10:05 am		Feb 18, 2012 10:05 am		Feb 18, 2012 09:45 am		Feb 18, 2012 09:45 am		Feb 18, 2012 08:00 am		Feb 18, 2012 08:00 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 (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	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		/		/		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	Feb 18, 2012 10:25 am		Feb 18, 2012 10:25 am		Feb 18, 2012 08:20 am		Feb 18, 2012 08:20 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 (/)	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)	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/cm³ to Bq/L.

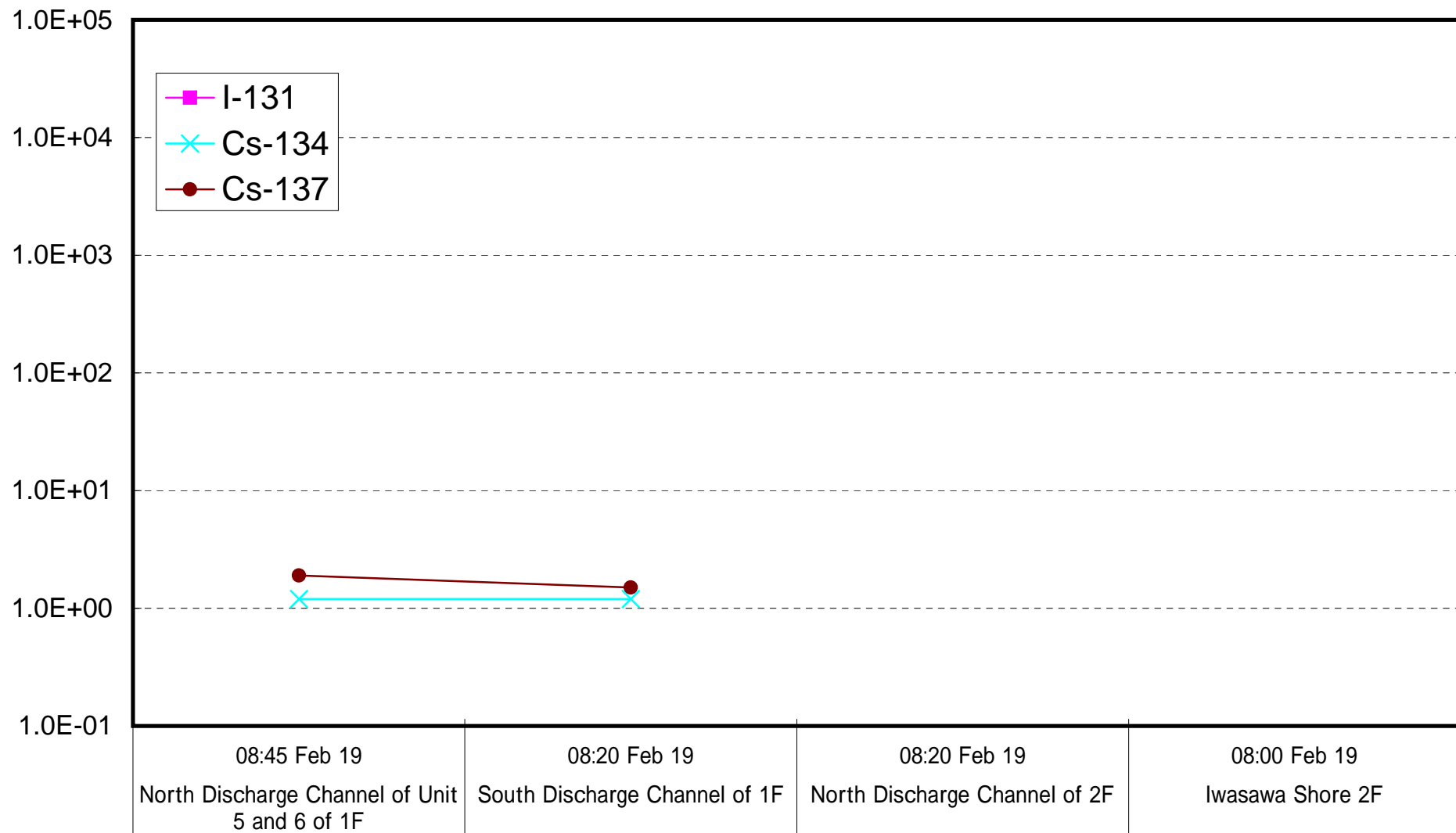
* Data of other nuclides are under evaluation.

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

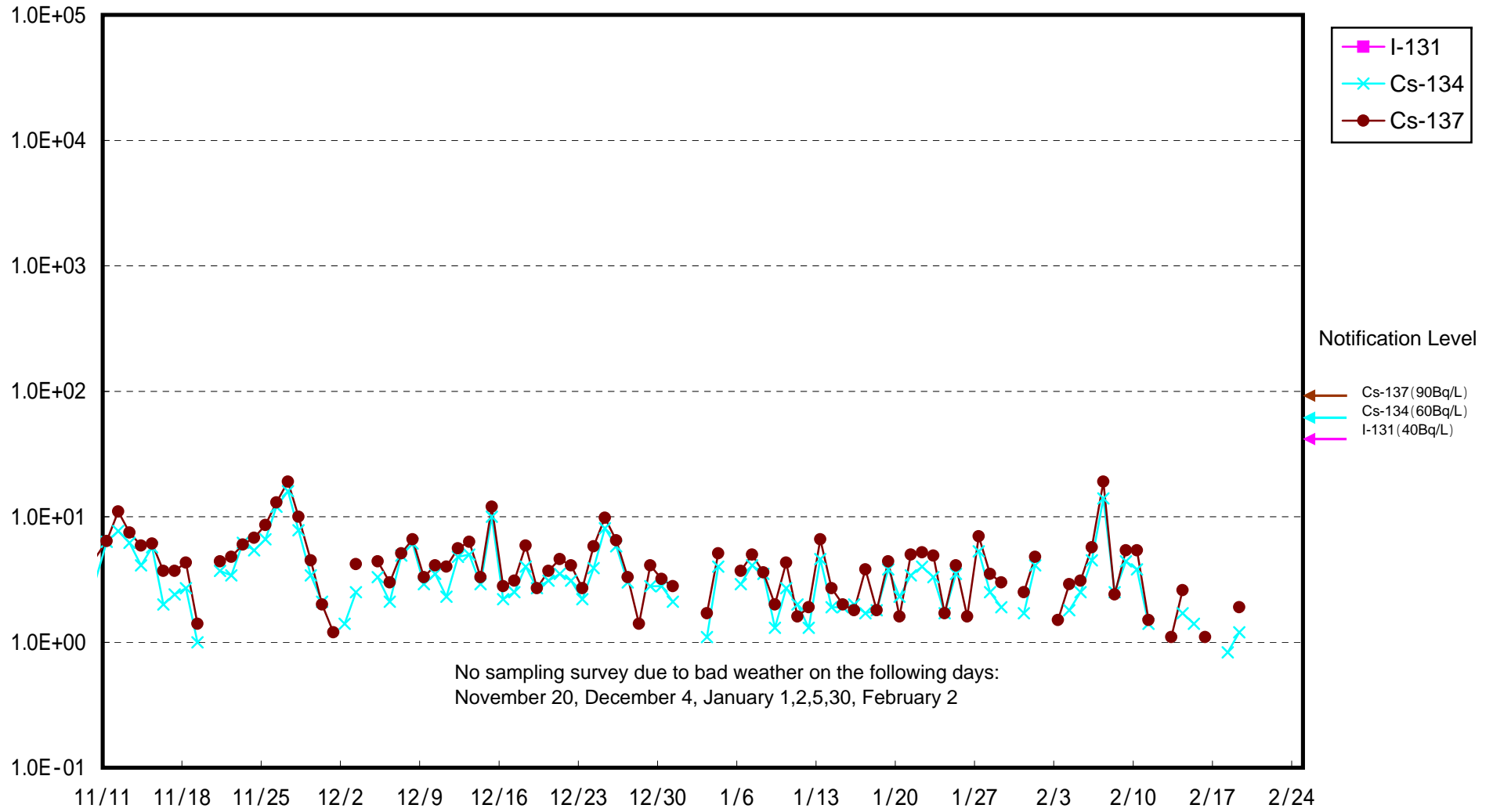
* "ND" means the sampled data is below measurable limit. I-131: approx. 0.69Bq/L, Cs-134: approx. 0.90Bq/L, Cs-137: approx. 1.1Bq/L

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

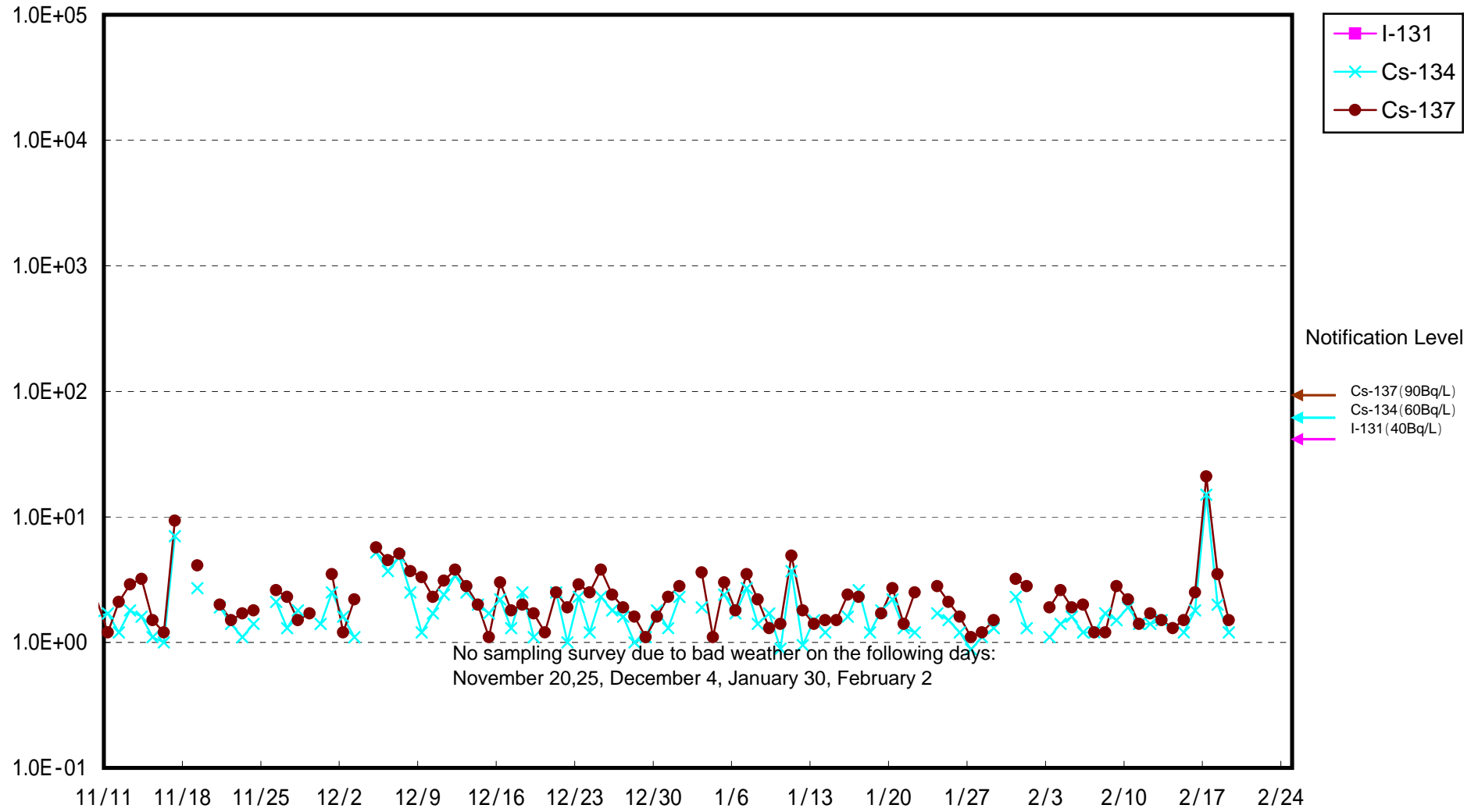
Radioactivity Density of Seawater (Bq/L)



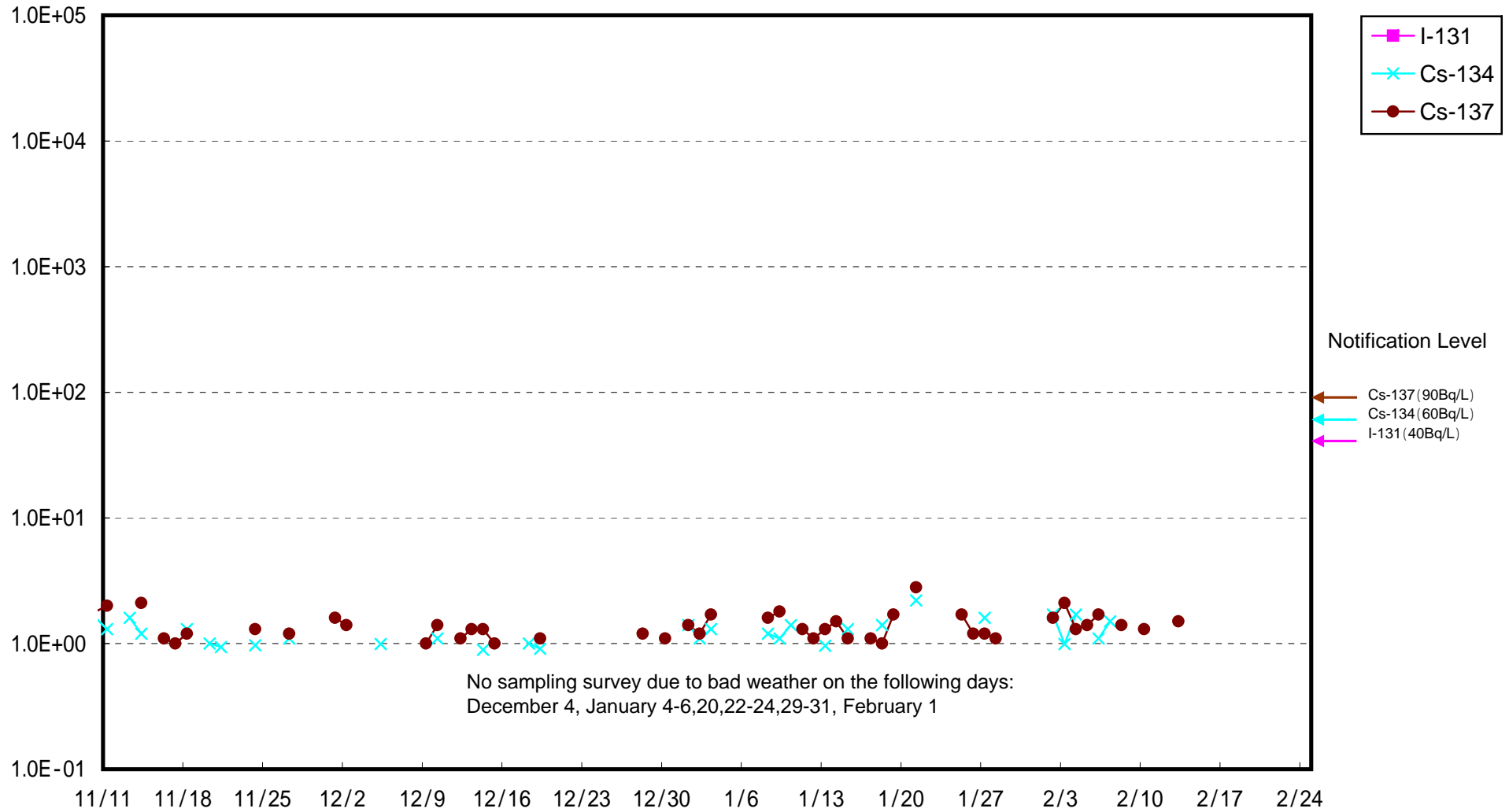
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



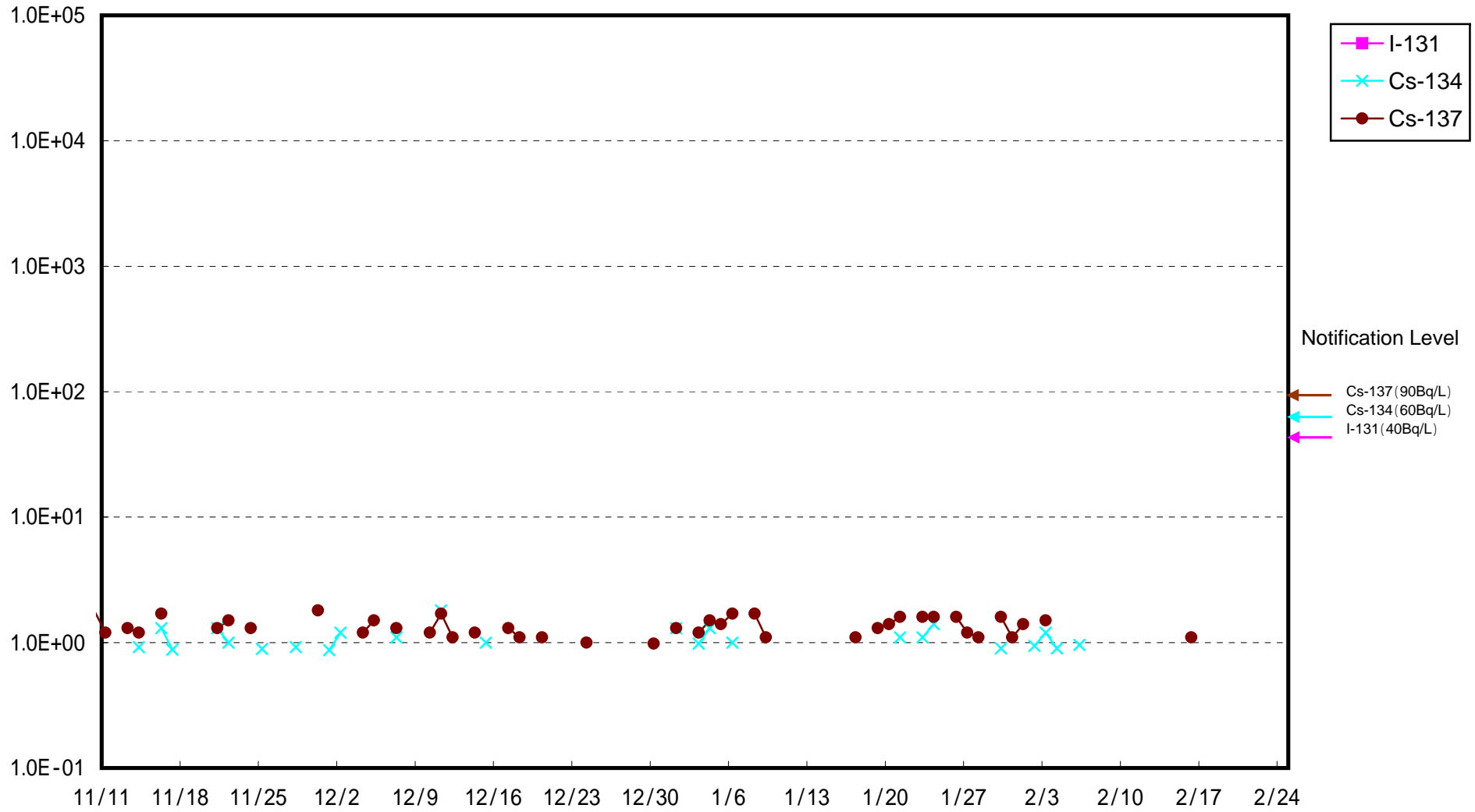
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)



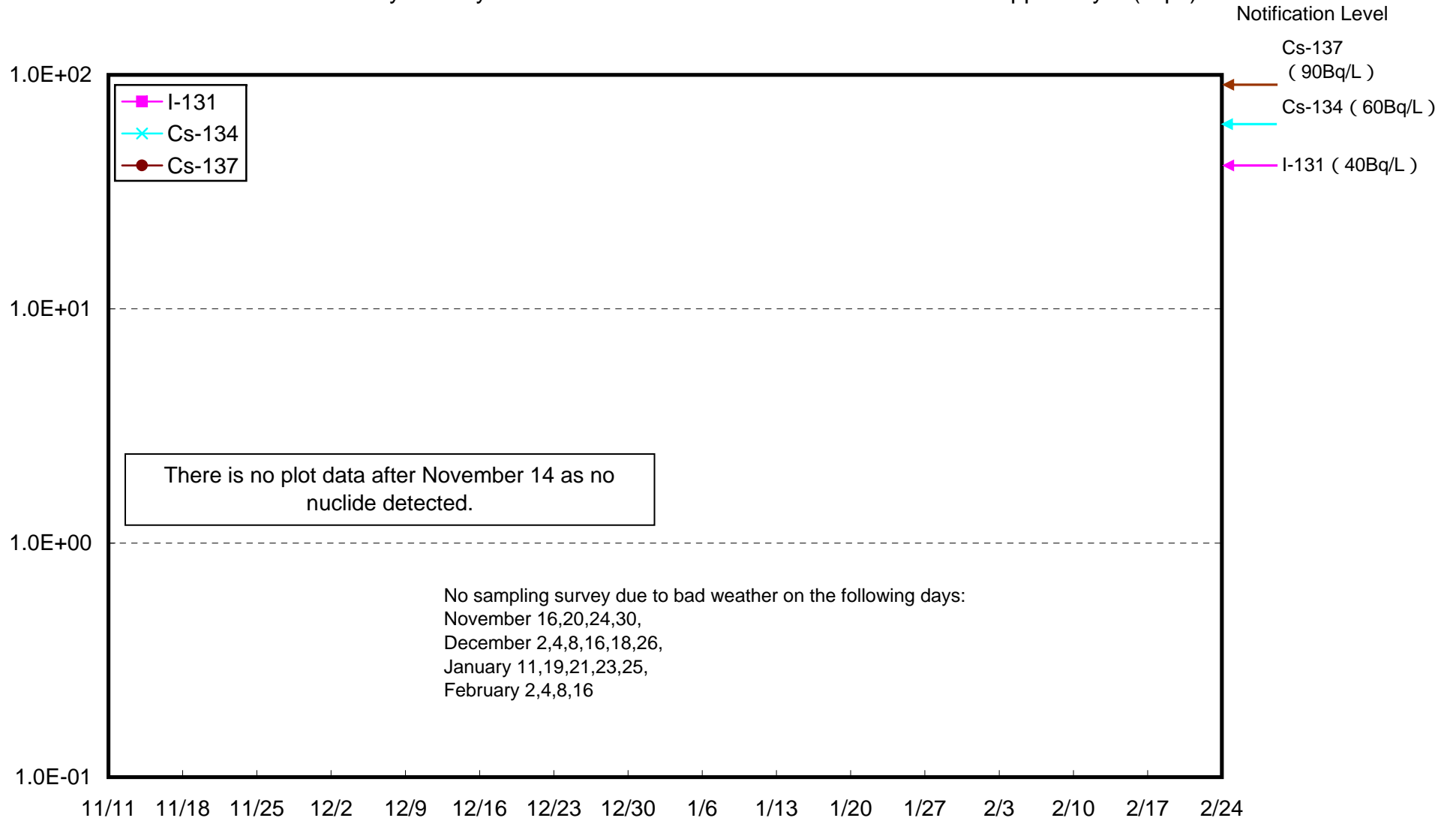
Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)



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



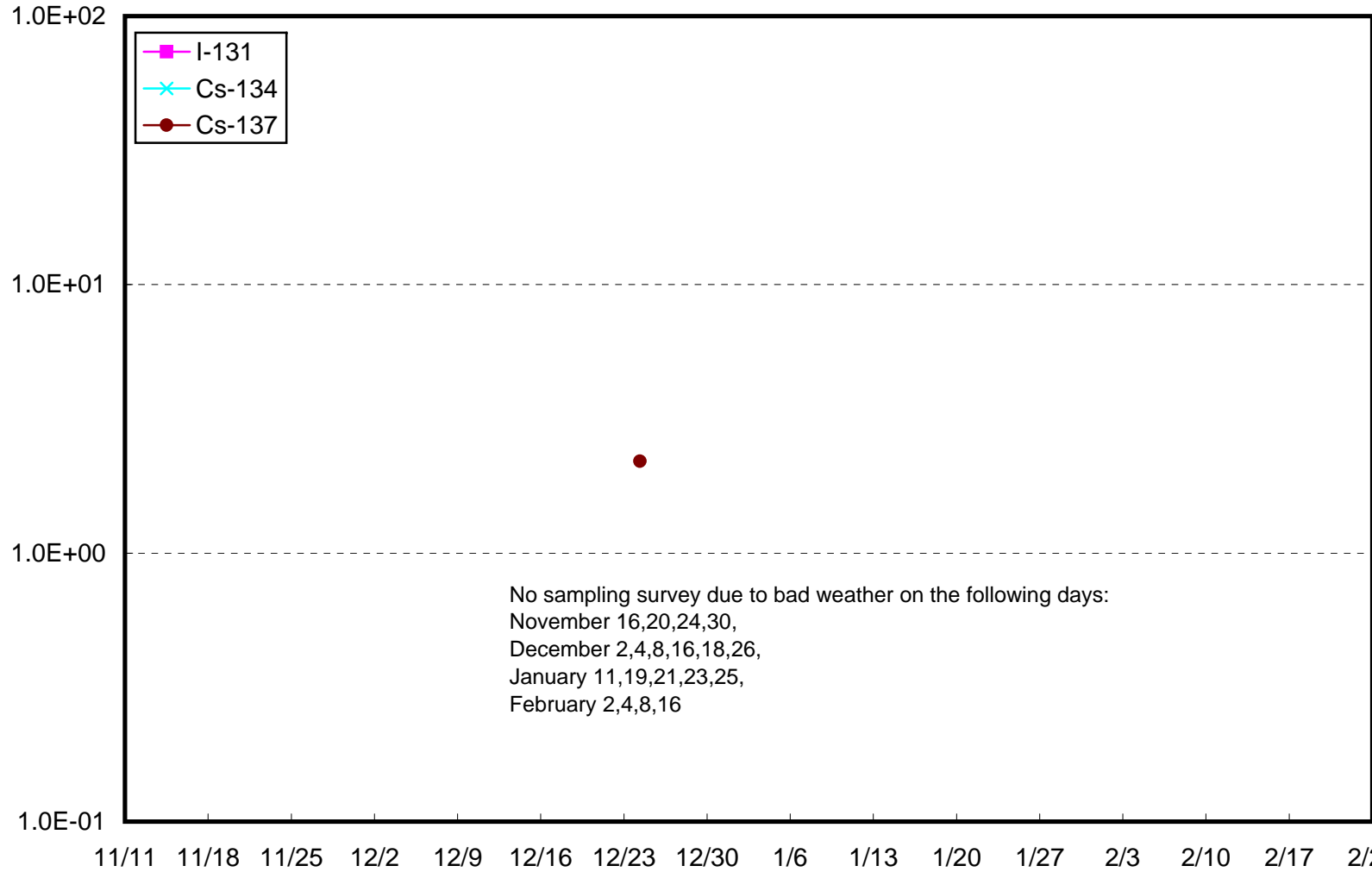
Radioactivity Density of Seawater 3km Offshore of Haramachi Ward Upper Layer (Bq/L)



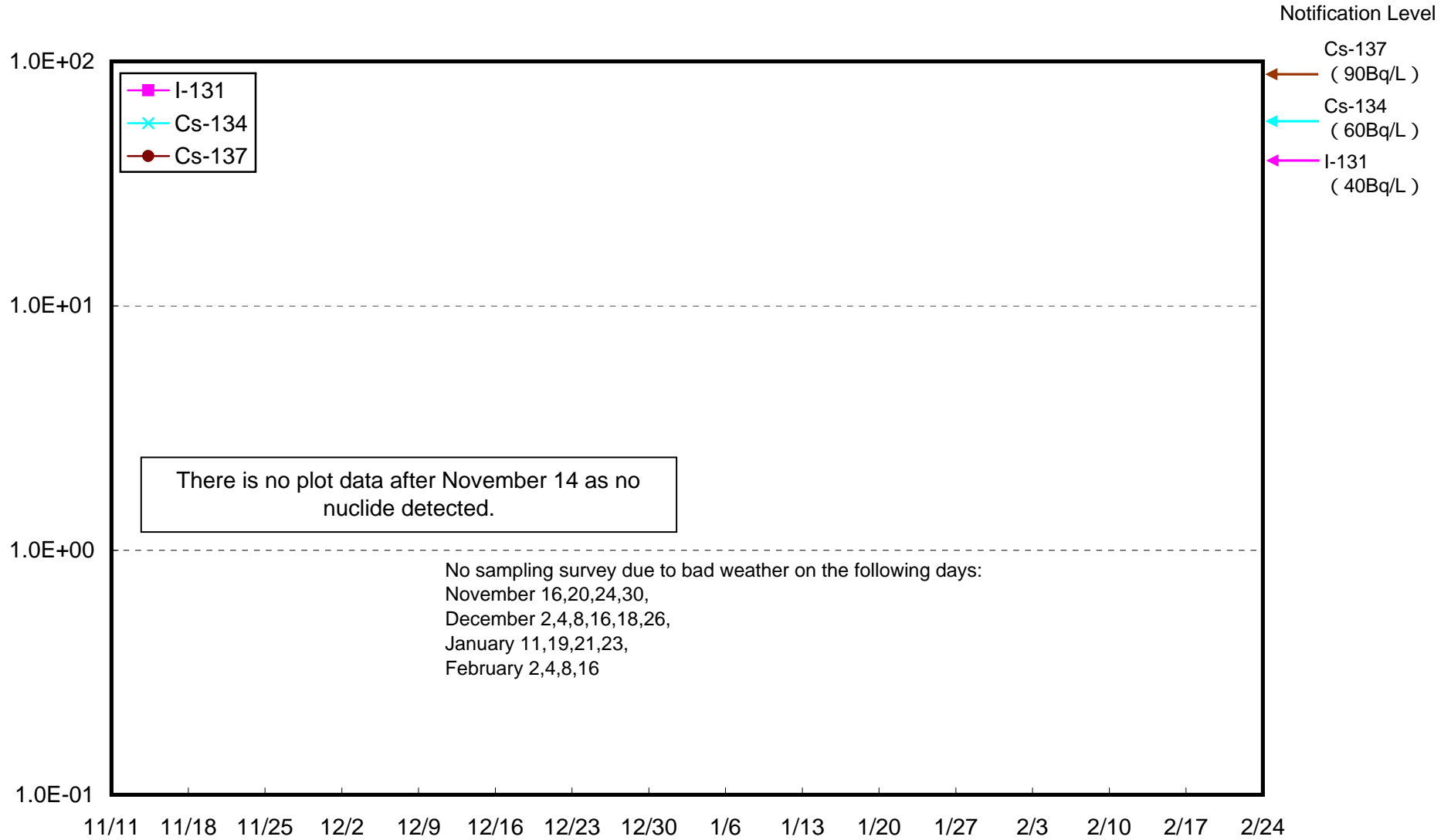
Radioactivity Density of Seawater 3km Offshore of Haramachi Ward Lower Layer (Bq/L)

Notification Level

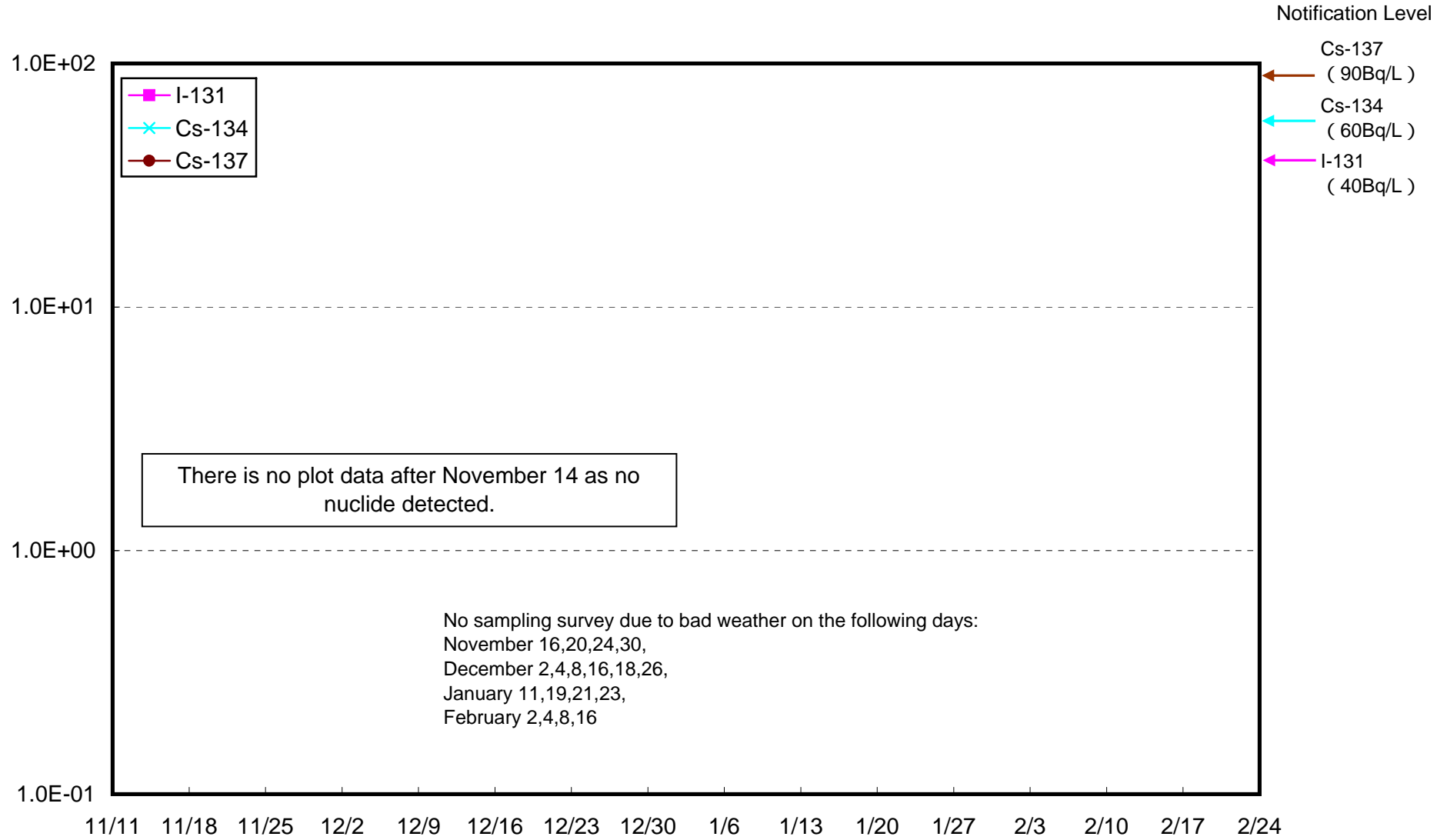
Cs-137 (90Bq/L)
Cs-134 (60Bq/L)
I-131 (40Bq/L)



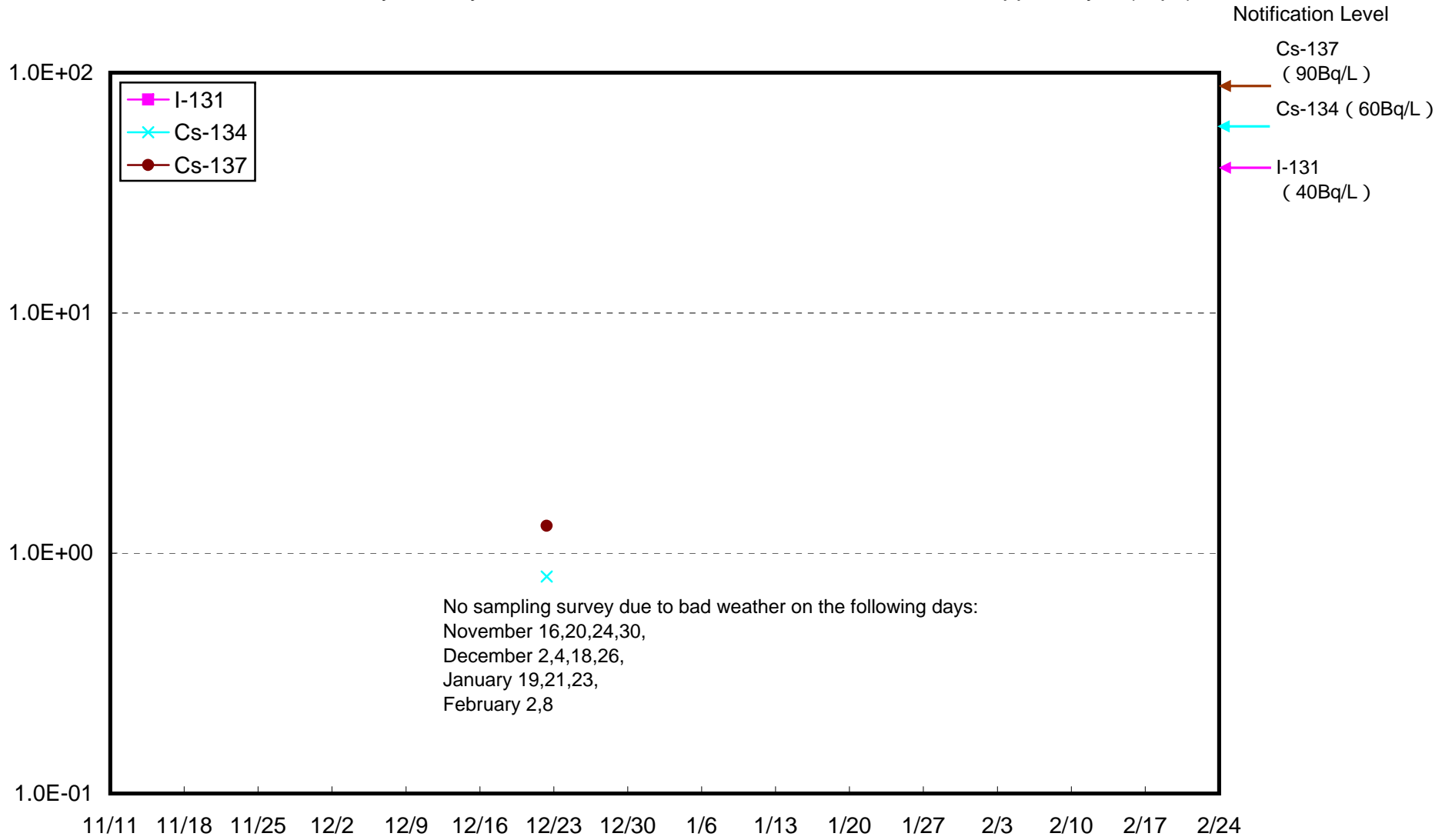
Radioactivity Density of Seawater 3km Offshore of Odaka Ward Upper Layer (Bq/L)



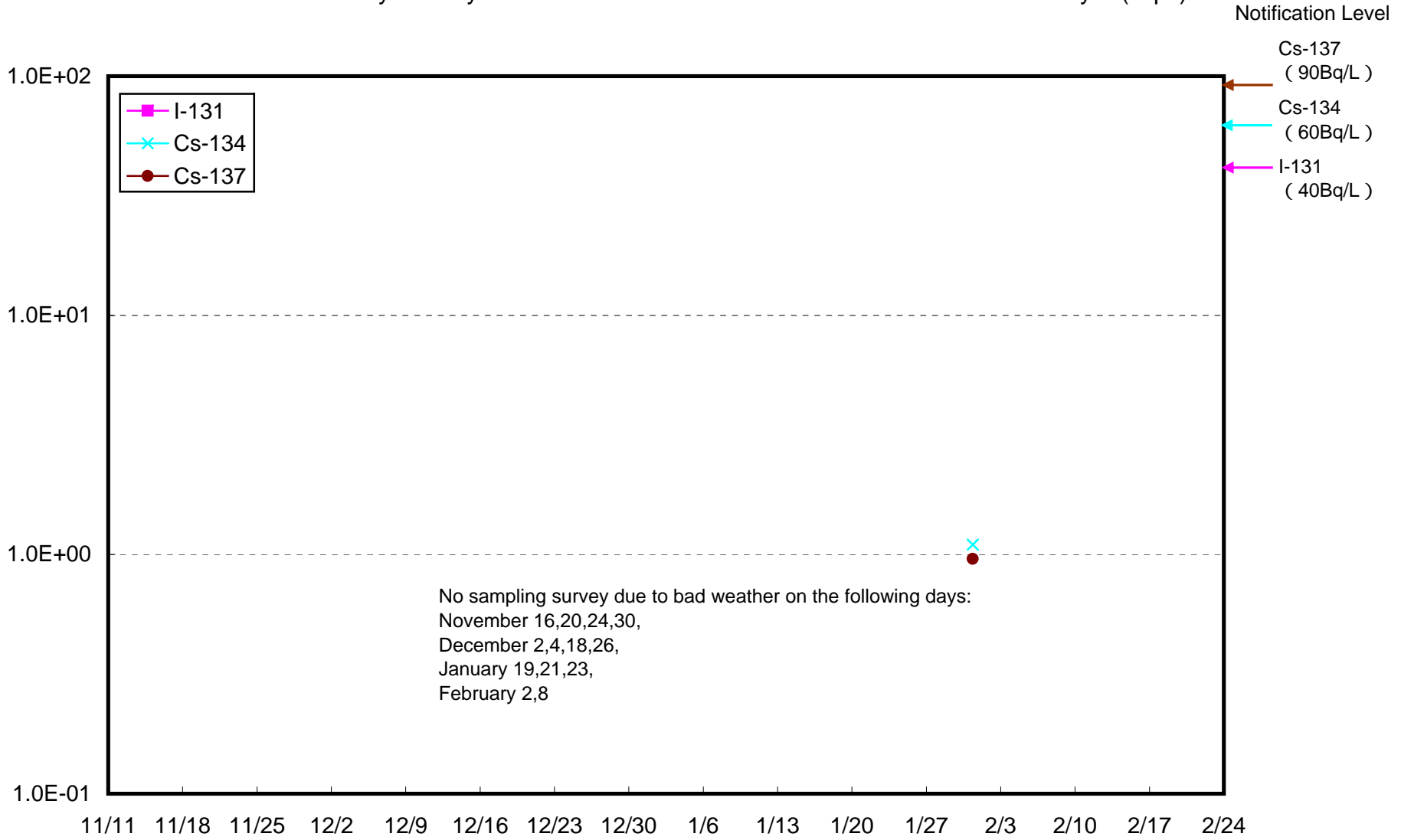
Radioactivity Density of Seawater 3km Offshore of Odaka Ward Lower Layer (Bq/L)



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 Odaka Ward Upper Layer (Bq/L)

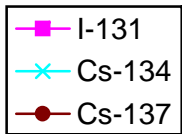
Notification Level

Cs-137 (90Bq/L)

Cs-134
(60Bq/L)

I-131 (40Bq/L)

1.0E+02



1.0E+01

There is no plot data after November 14 as no nuclide detected.

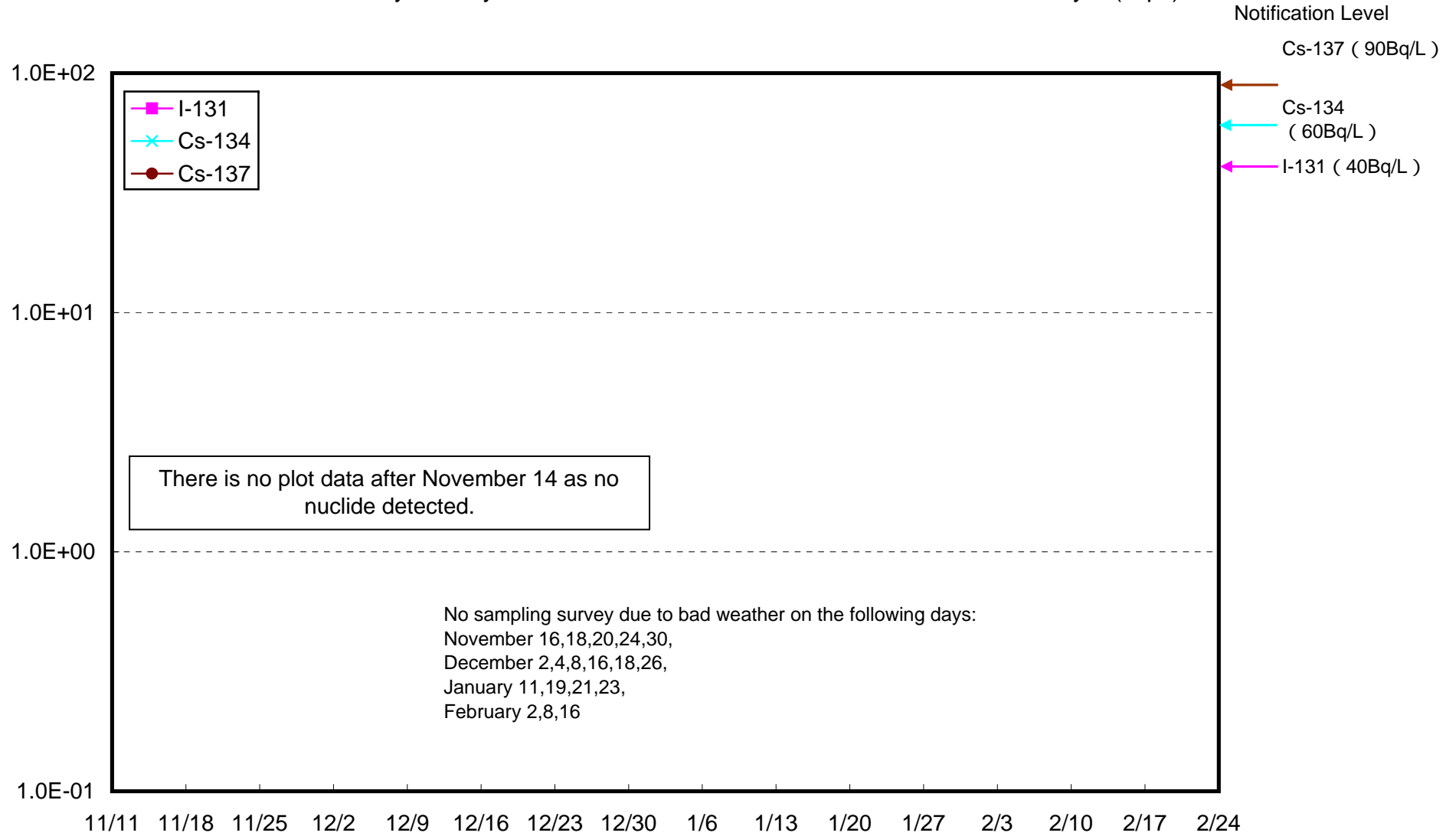
1.0E+00

No sampling survey due to bad weather on the following days:
November 16,18,20,24,30,
December 2,4,8,16,18,26,
January 11,19,21,23,
February 2,8,16

1.0E-01

11/11 11/18 11/25 12/2 12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24

Radioactivity Density of Seawater 8km Offshore of Odaka Ward Lower Layer (Bq/L)



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

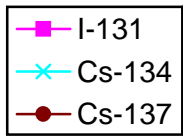
Notification Level

Cs-137
(90Bq/L)

Cs-134
(60Bq/L)

I-131 (40Bq/L)

1.0E+02



1.0E+01

There is no plot data after November 14 as no nuclide detected.

1.0E+00

No sampling survey due to bad weather on the following days:
November 16,20,24,30,
December 2,4,18,26,
January 11,19,21,23,
February 2,8

1.0E-01

11/11 11/18 11/25 12/2 12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24

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

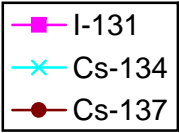
Notification Level

Cs-137
(90Bq/L)

Cs-134
(60Bq/L)

I-131 (40Bq/L)

1.0E+02



1.0E+01

There is no plot data after November 14 as no nuclide detected.

1.0E+00

No sampling survey due to bad weather on the following days:
November 16,20,24,30,
December 2,4,18,26,
January 11,19,21,23,
February 2,8

1.0E-01

11/11 11/18 11/25 12/2 12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24