

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

Reference

(Data summarized on February 2)

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 01, 2012 08:35 am	Feb 01, 2012 08:15 am	Feb 01, 2012 (Not sampled)	Feb 01, 2012 08:00 am					
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )					
I-131 (about 8 days)	ND	-	ND	-	-	-	ND	-	40
Cs-134 (about 2 years)	4.1	0.07	1.3	0.02	-	-	ND	-	60
Cs-137 (about 30 years)	4.8	0.05	2.8	0.03	-	-	1.4	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.

One of four points is not sampled due to bad weather

\* 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. 0.90Bq/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 1/3>

Reference

(Data summarized on February 2)

Place of Sampling	15 km offshore of Minami-Souma City Upper Layer	15 km offshore of Minami-Souma City Lower Layer	15 km offshore of Ukedo-gawa Upper Layer	15 km offshore of Ukedo-gawa Lower Layer	15 km offshore of Fukushima Daiichi Upper Layer	15 km offshore of Fukushima Daiichi 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	Jan 31, 2012 11:15 am	Jan 31, 2012 11:15 am	Jan 31, 2012 11:40 am	Jan 31, 2012 11:40 am	N/A	N/A							
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

Place of Sampling	15 km offshore of Fukushima Daini Upper Layer	15 km offshore of Fukushima Daini Lower Layer	15 km offshore of Iwasawa Shore Upper Layer	15 km offshore of Iwasawa Shore Lower Layer	15 km offshore of Hirono-town Upper Layer	15 km offshore of Hirono-town 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	N/A	N/A	N/A	N/A	N/A	N/A							
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)	-	-	-	-	-	-	-	-	-	-	-	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	-	-	-	-	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. 0.88Bq/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 detect

## Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore 2/3>

Reference

(Data summarized on February 2)

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	Jan 31, 2012 10:50 am		Jan 31, 2012 10:50 am		Jan 31, 2012 10:35 am		Jan 31, 2012 10:35 am		Jan 31, 2012 09:00 am		Jan 31, 2012 09:00 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	-	1.1	0.02	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	0.96	0.01	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	Jan 31, 2012 10:15 am		Jan 31, 2012 10:15 am		Jan 31, 2012 09:20 am		Jan 31, 2012 09:20 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/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. 0.75Bq/L, Cs-134: approx. 0.93Bq/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 detect

## Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore 3/3>

Reference

(Data summarized on February 2)

Place of Sampling	3 km offshore of Souma City Upper Layer		3 km offshore of Souma City Lower Layer		5 km offshore of Souma City Upper Layer		5 km offshore of Souma City Lower Layer		5 km offshore of Kashima Upper Layer		5 km offshore of Kashima 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	Jan 31, 2012 07:15 am		Jan 31, 2012 07:15 am		Jan 31, 2012 07:30 am		Jan 31, 2012 07:30 am		Jan 31, 2012 07:40 am		Jan 31, 2012 07:40 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	5km Offshore of Numanouchi Upper Layer		5km Offshore of Numanouchi 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	N/A		N/A		/		/		/		/		
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)	-	-	-	-	/	/	/	/	/	/	/	/	40
Cs-134 (about 2 years)	-	-	-	-	/	/	/	/	/	/	/	/	60
Cs-137 (about 30 years)	-	-	-	-	/	/	/	/	/	/	/	/	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.

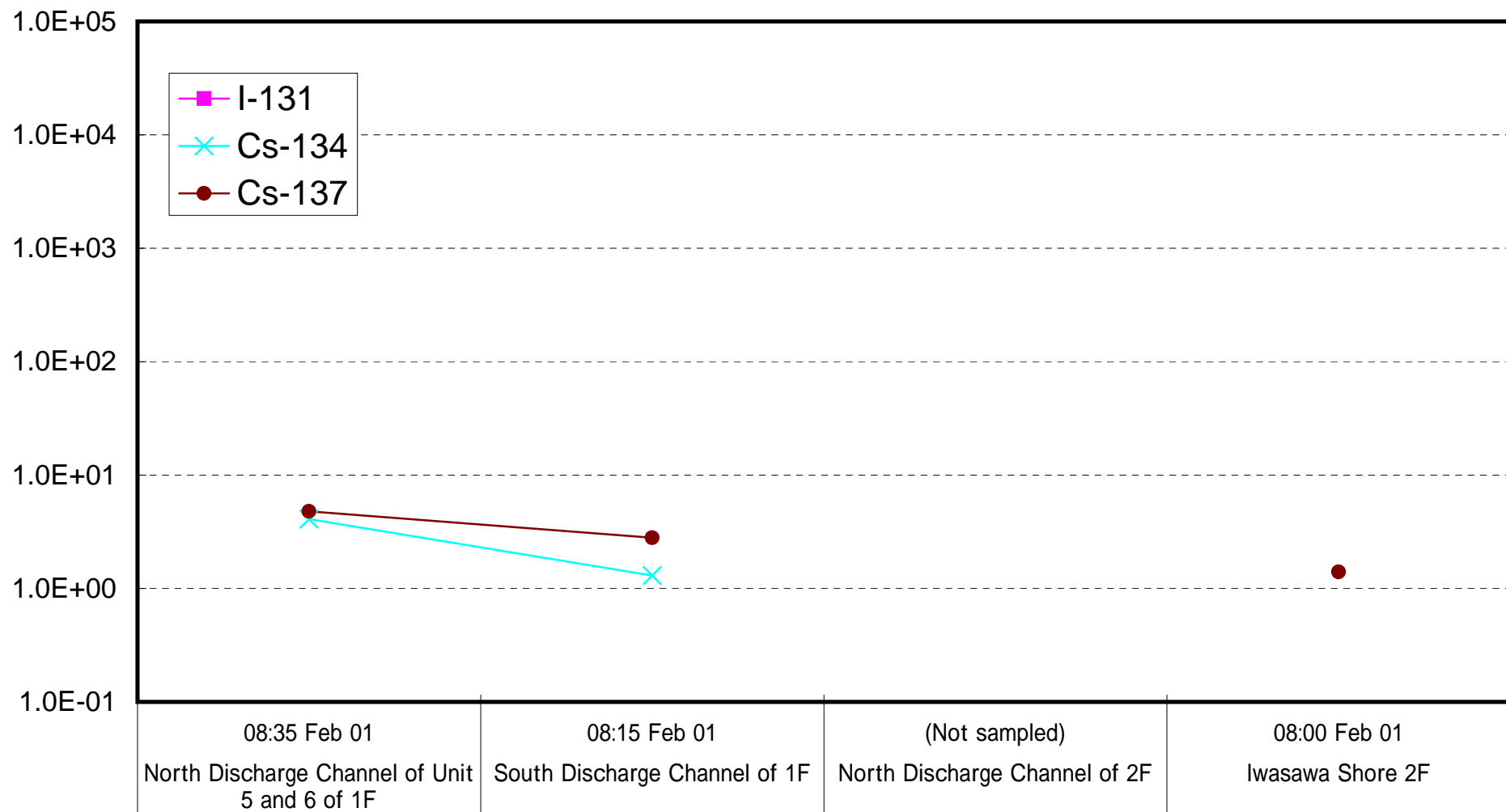
\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

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

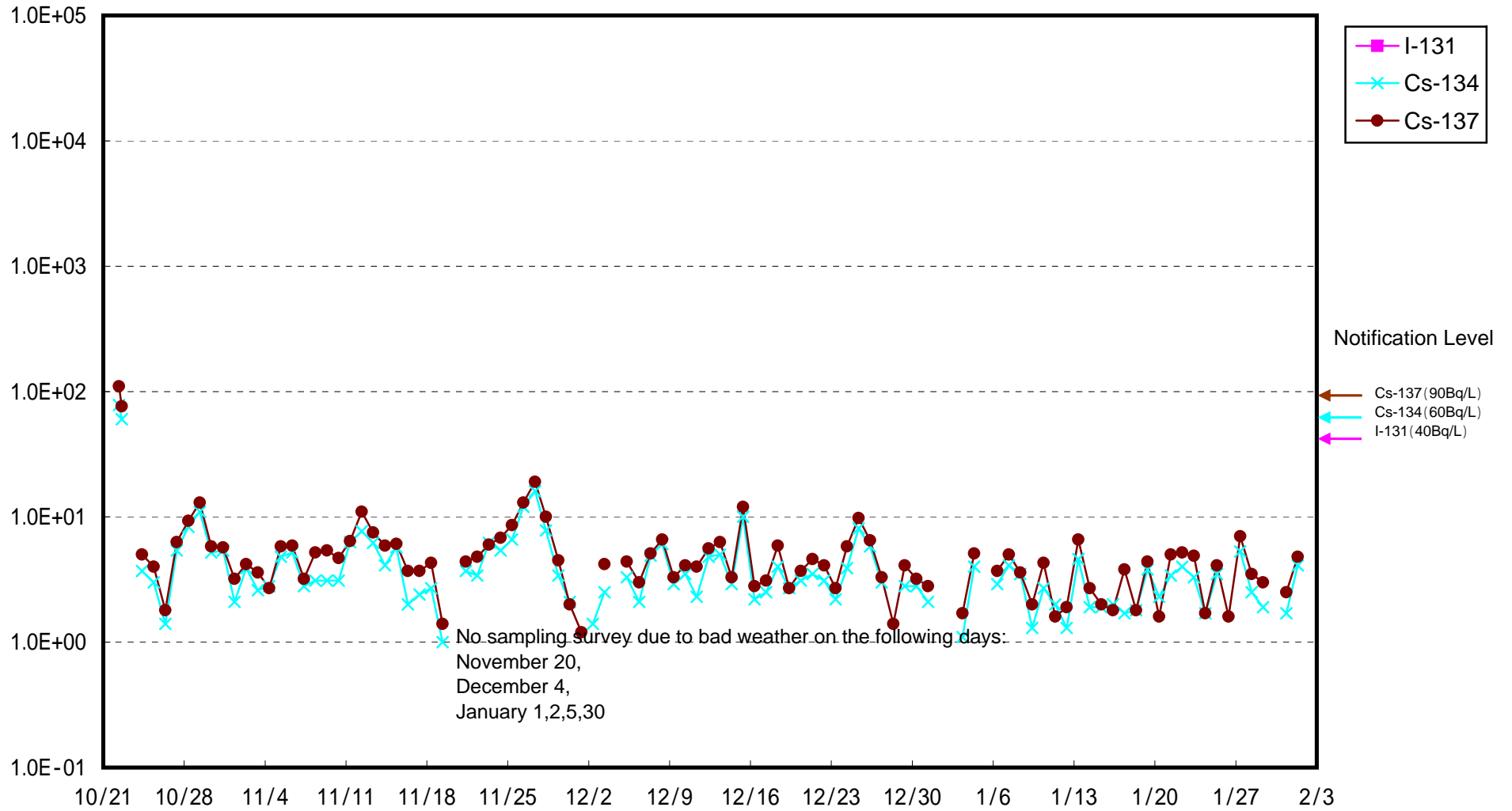
I-131: approx. 0.72Bq/L, Cs-134: approx. 0.91Bq/L, Cs-137: approx. 1.1Bq/L

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detect

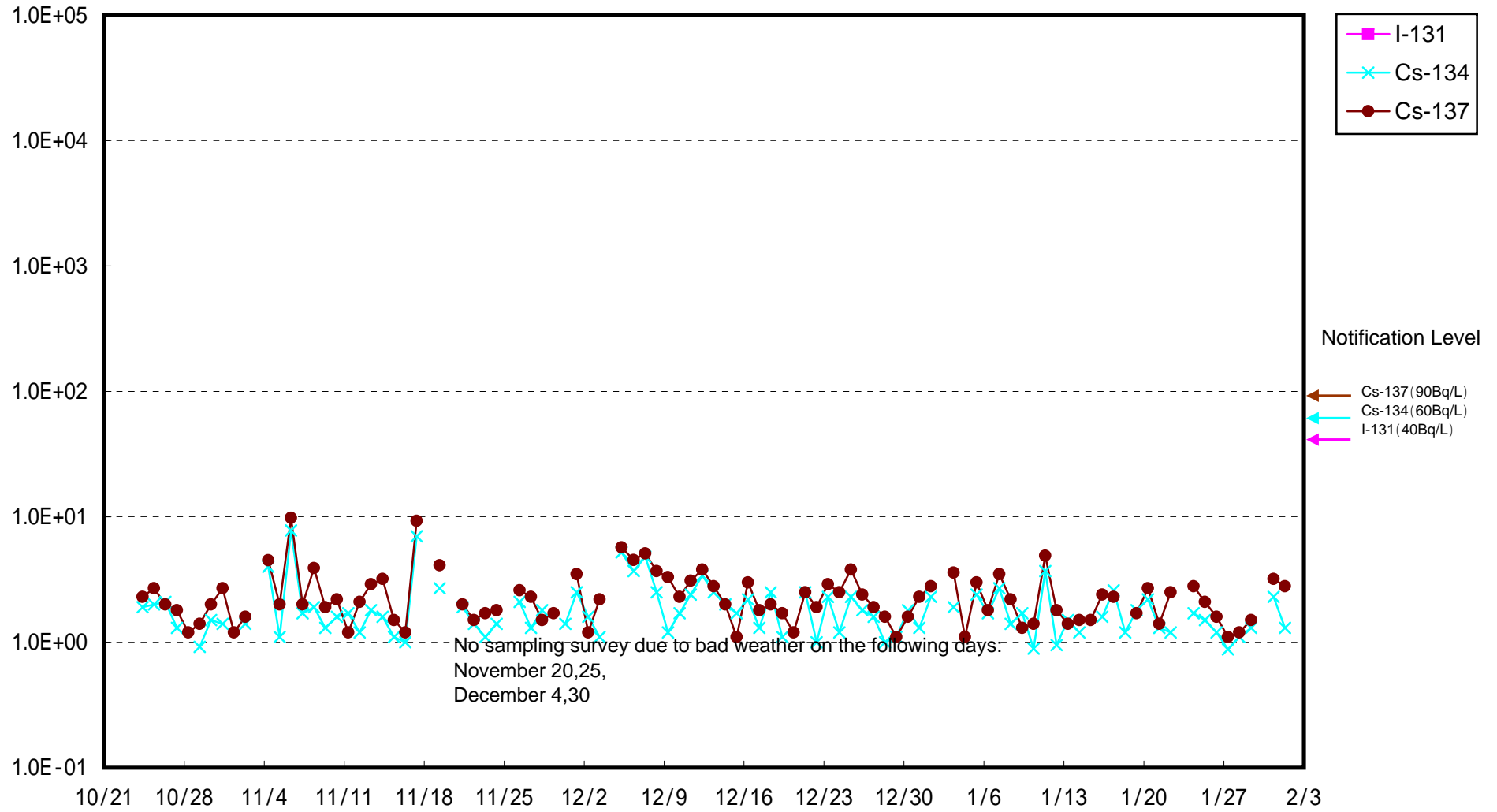
# Radioactivity Density of Seawater (Bq/L)



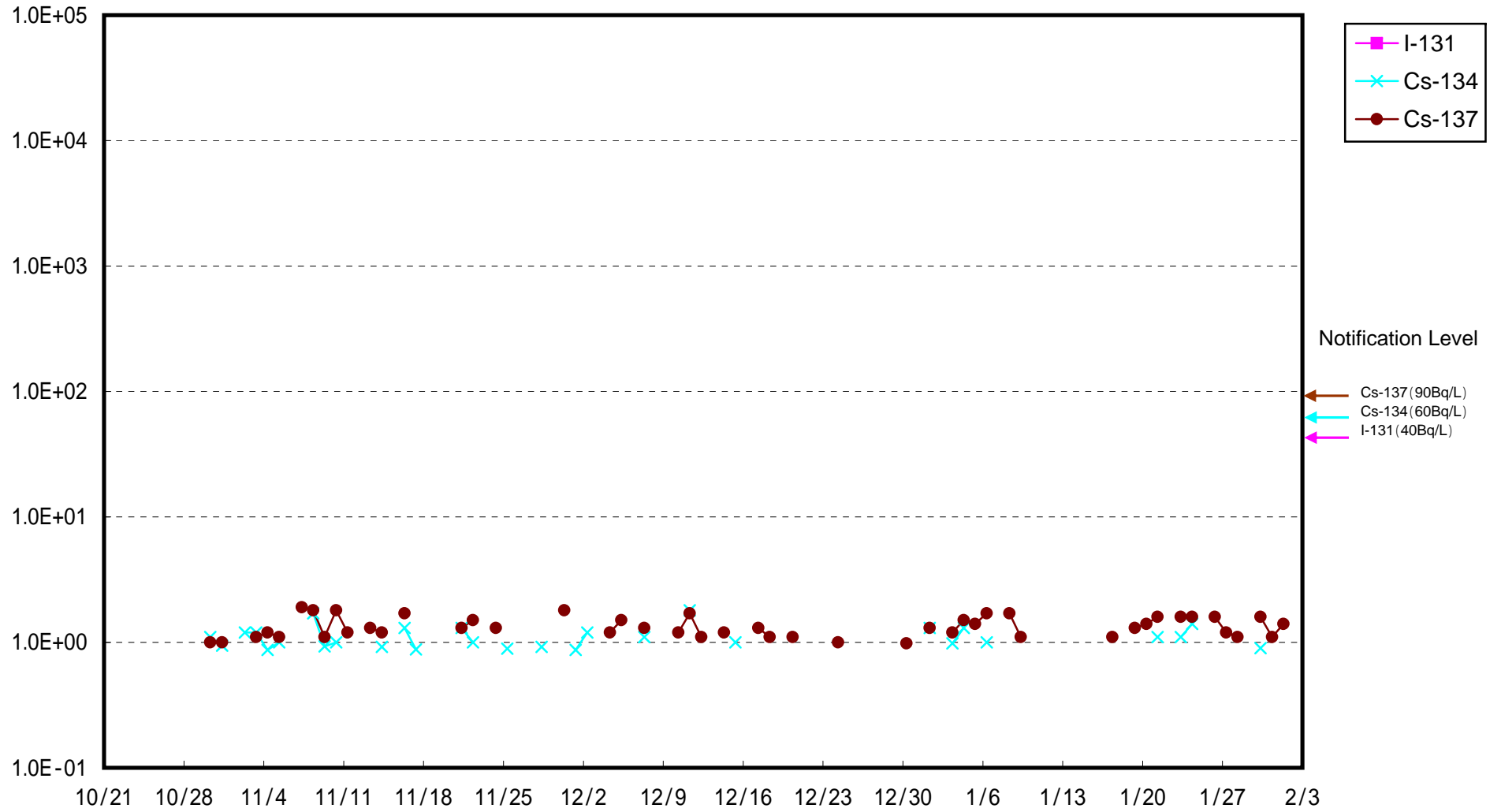
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



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

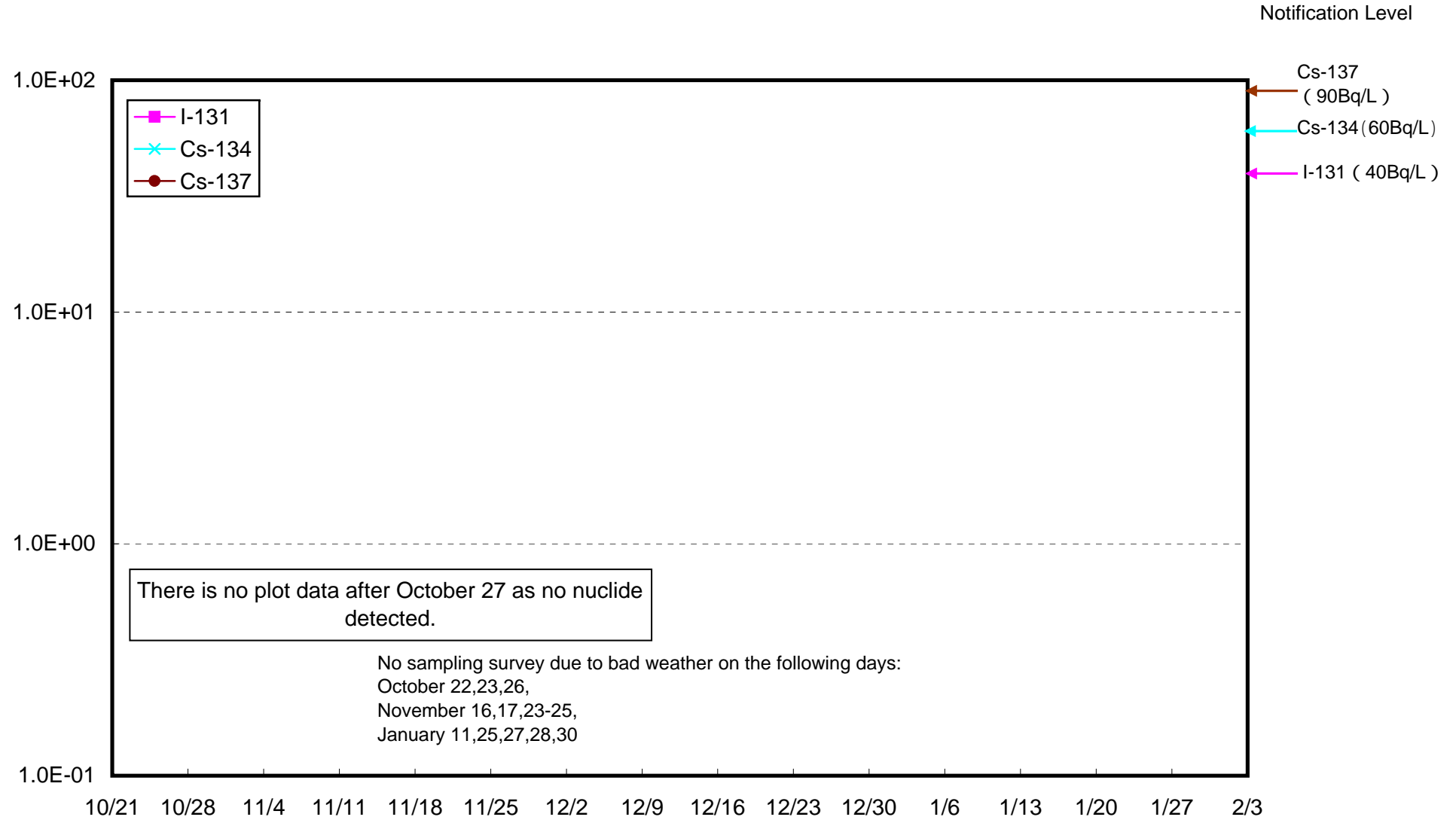


Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

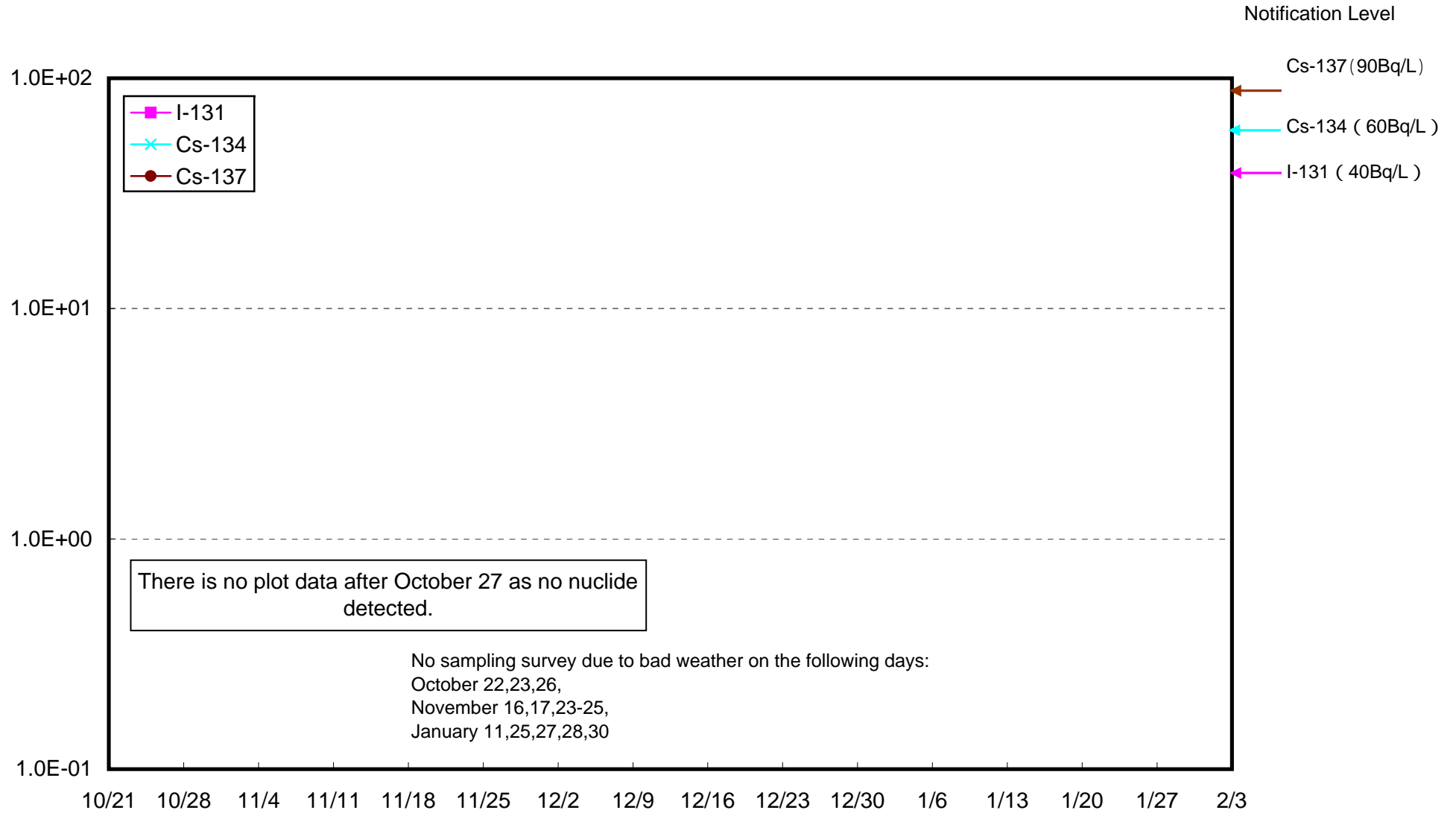




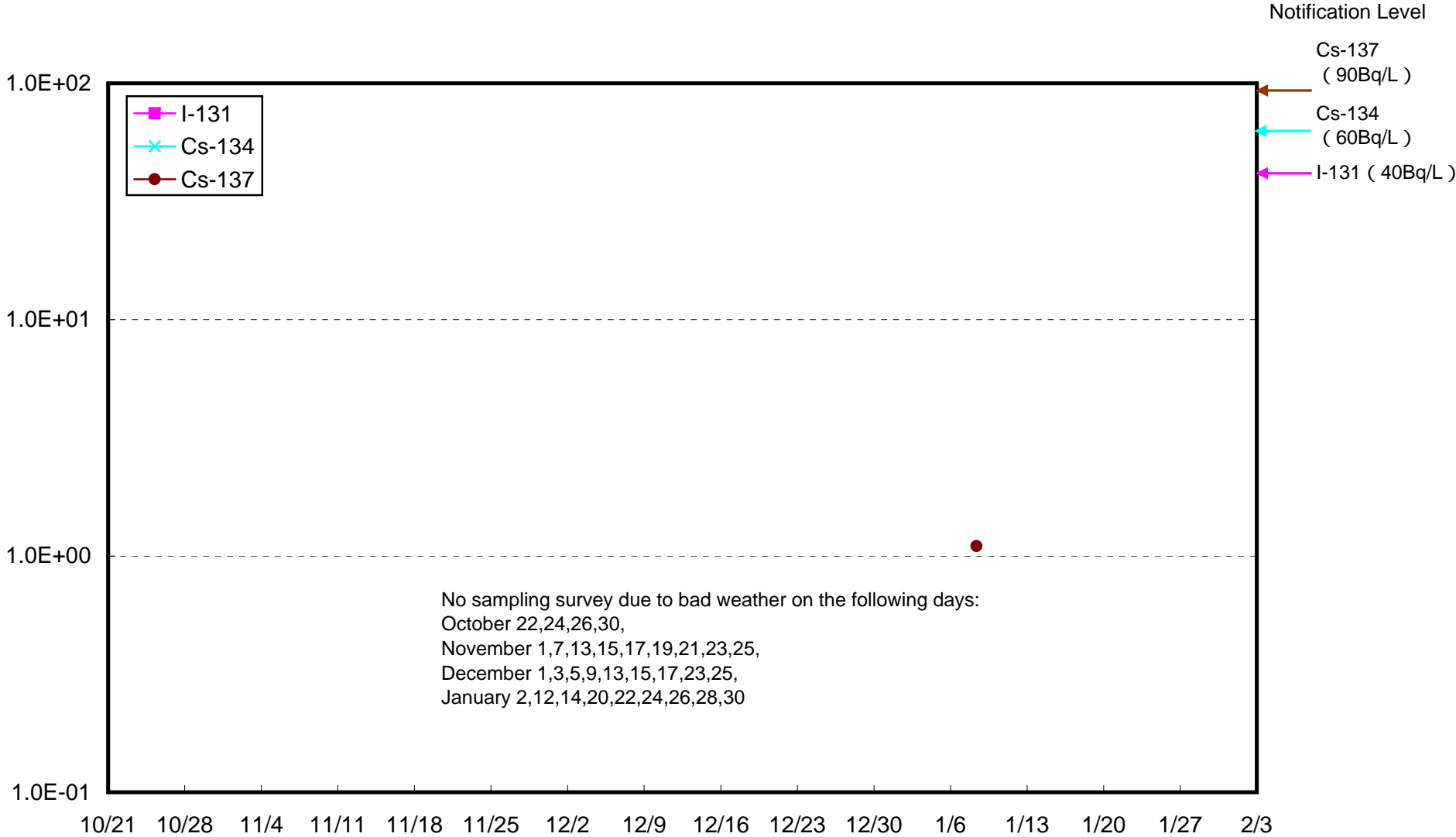
15km offshore of Minami Soma city Upper Layer Radioactivity Density of Seawater (Bq/L)



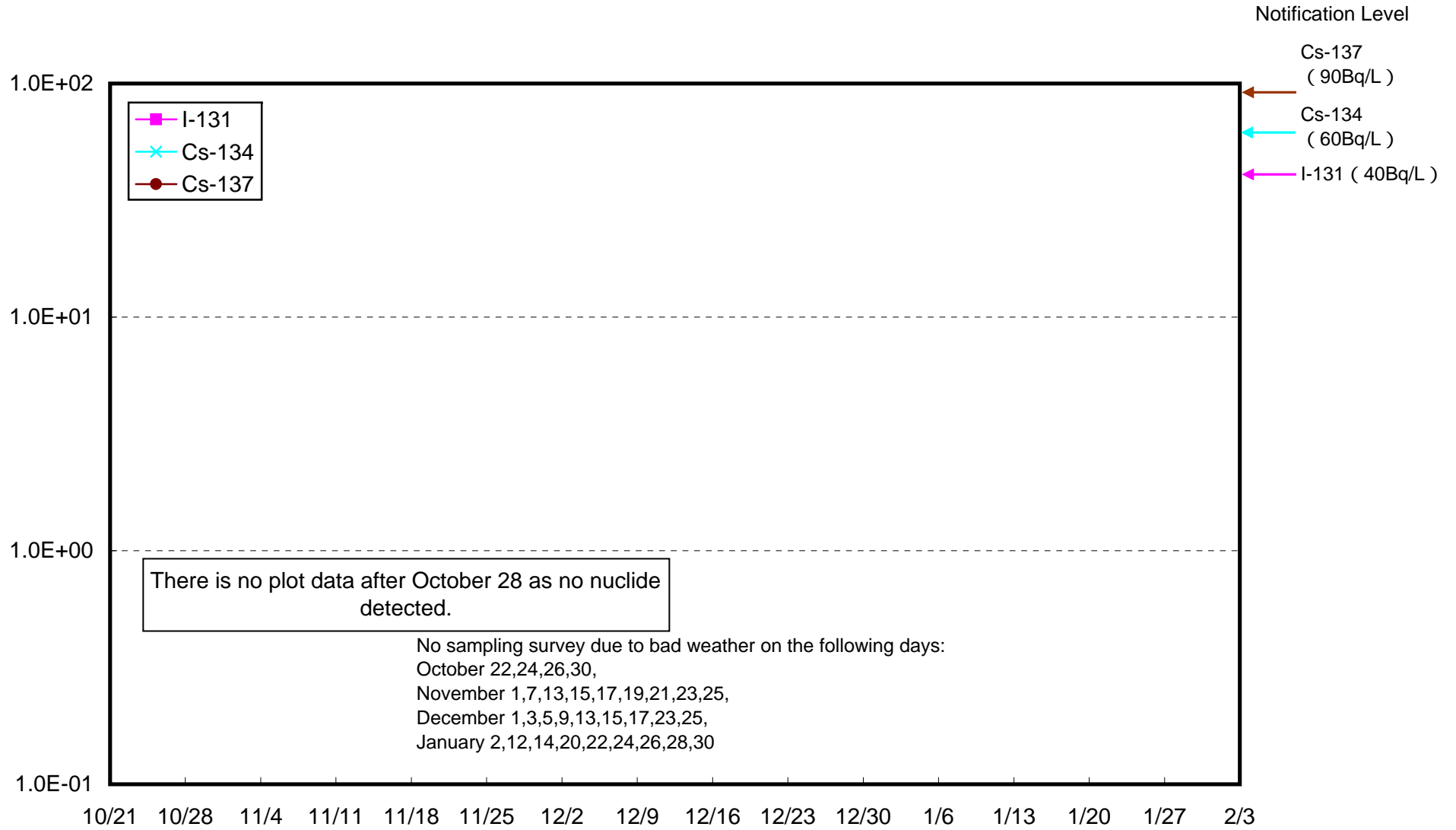
# 15km offshore of Minami Soma city Lower Layer Radioactivity Density of Seawater (Bq/L)



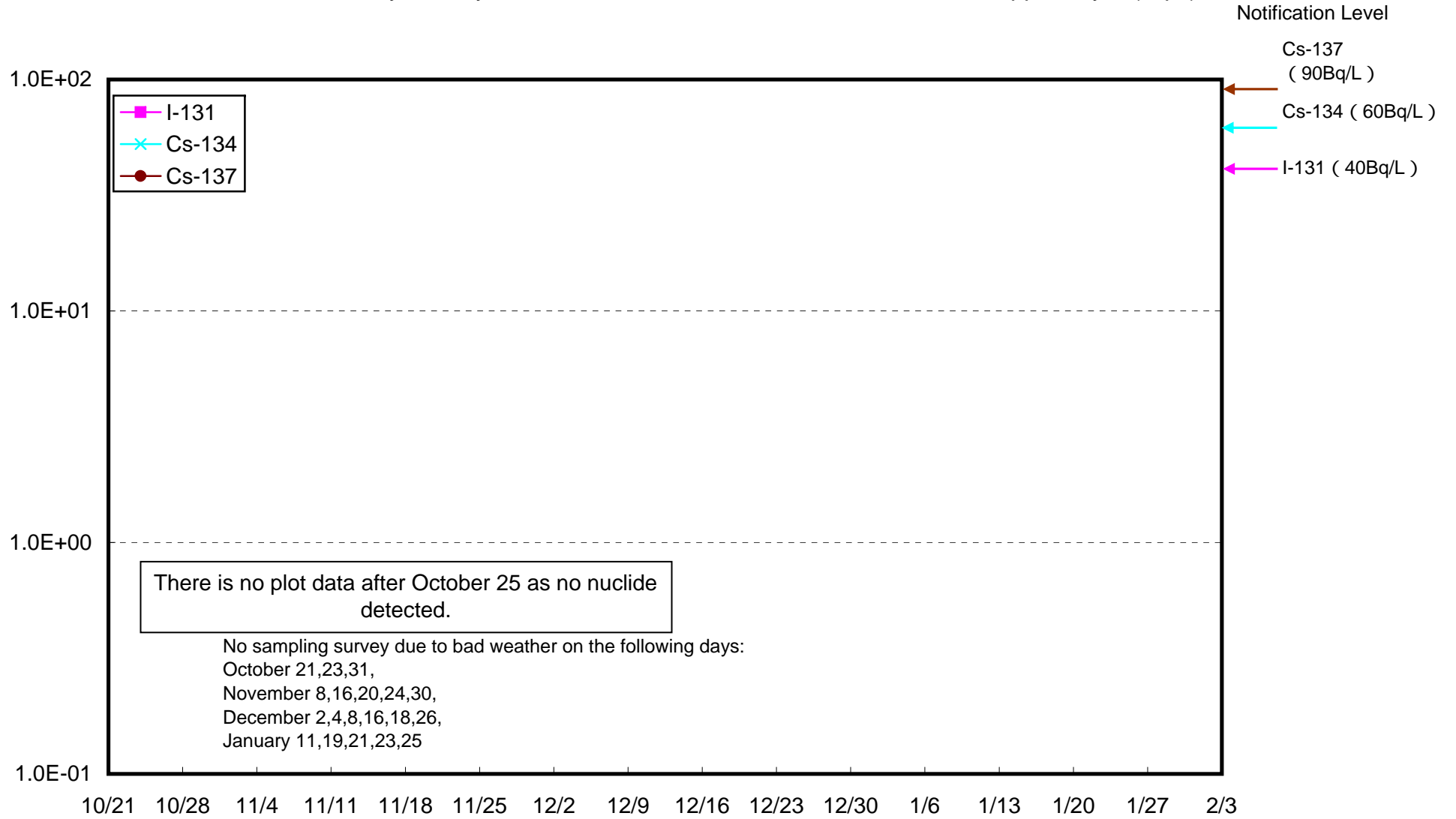
Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Ukedo river (Bq/L)



Radioactivity Density of Seawater (lower layer) around approx. 15 km offshore of Ukedo river (Bq/L)



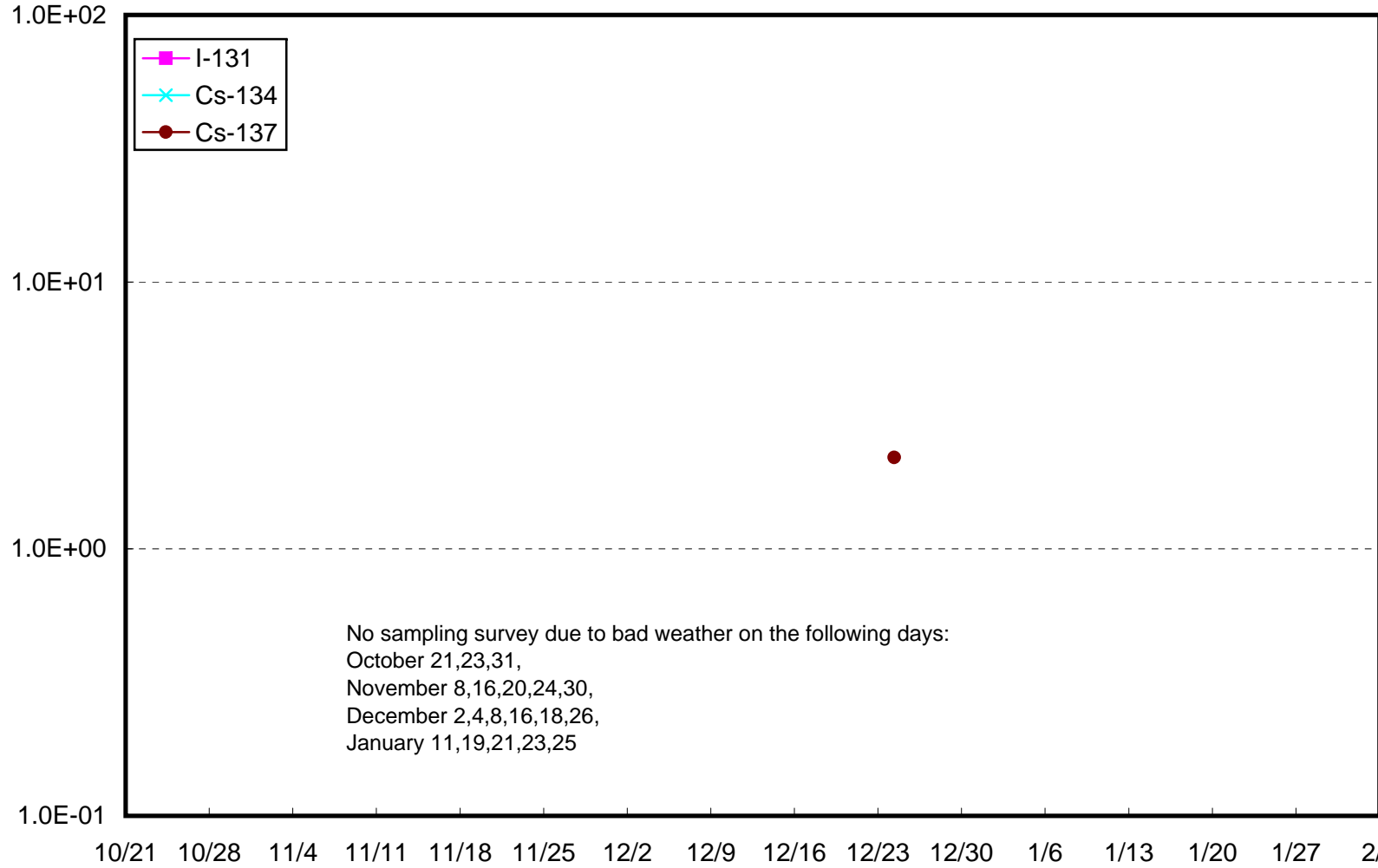
# Radioactivity Density of Seawater 3km Offshore of Haramachi Ward Upper Layer (Bq/L)



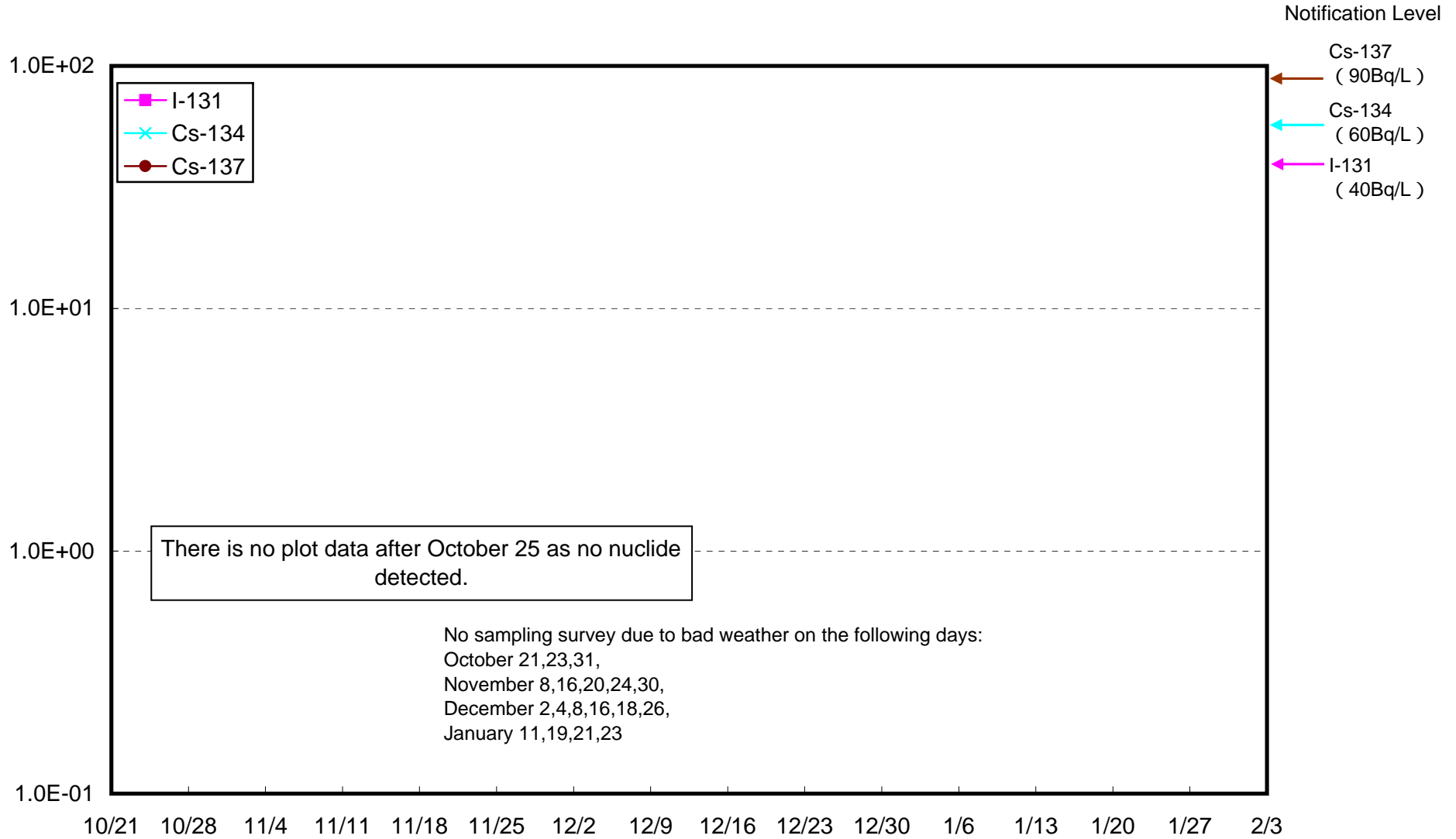
# Radioactivity Density of Seawater 3km Offshore of Haramachi Ward Lower Layer (Bq/L)

Notification Level

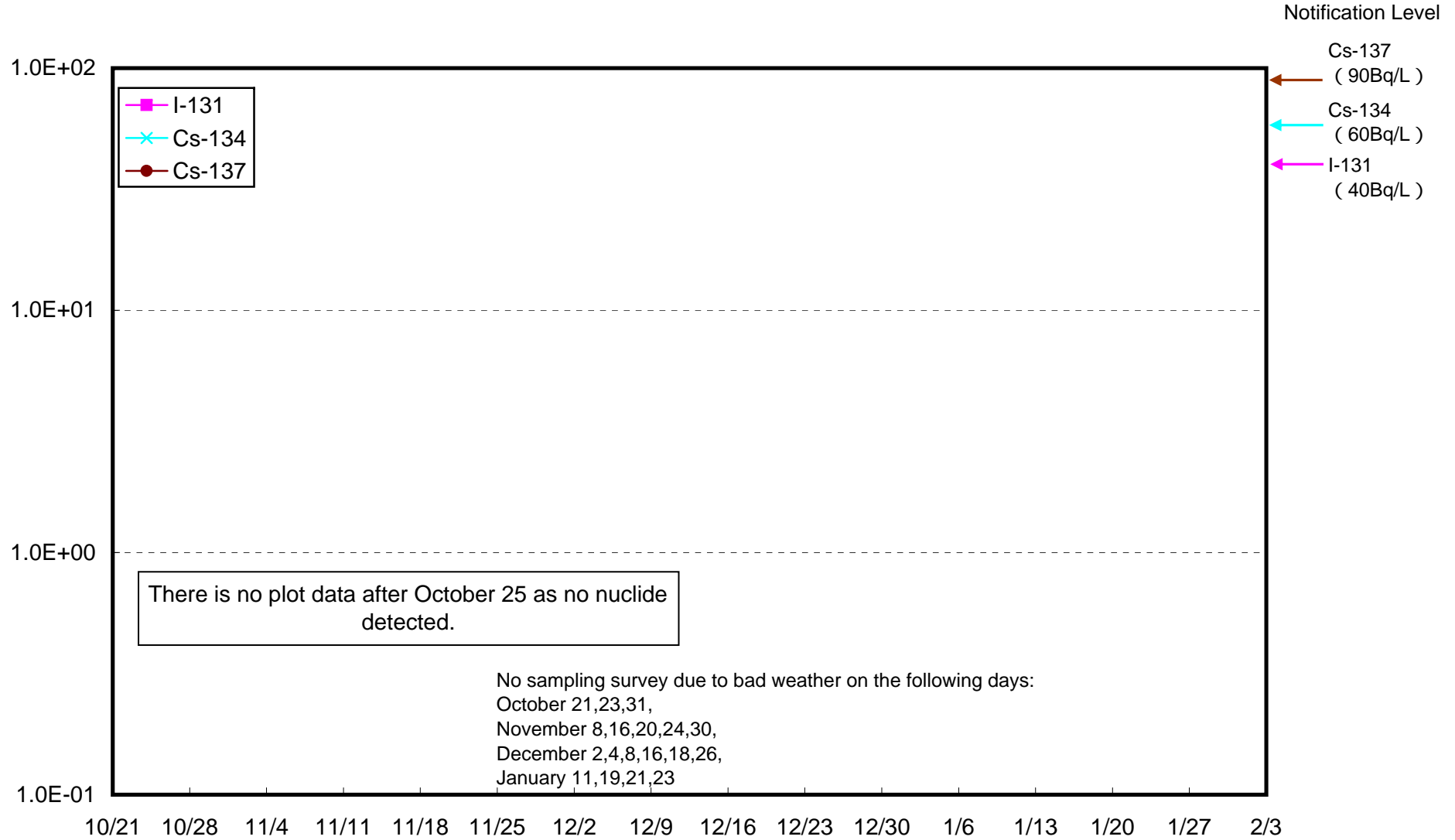
- Cs-137 ( 90Bq/L )
- Cs-134 ( 60Bq/L )
- I-131 ( 40Bq/L )



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

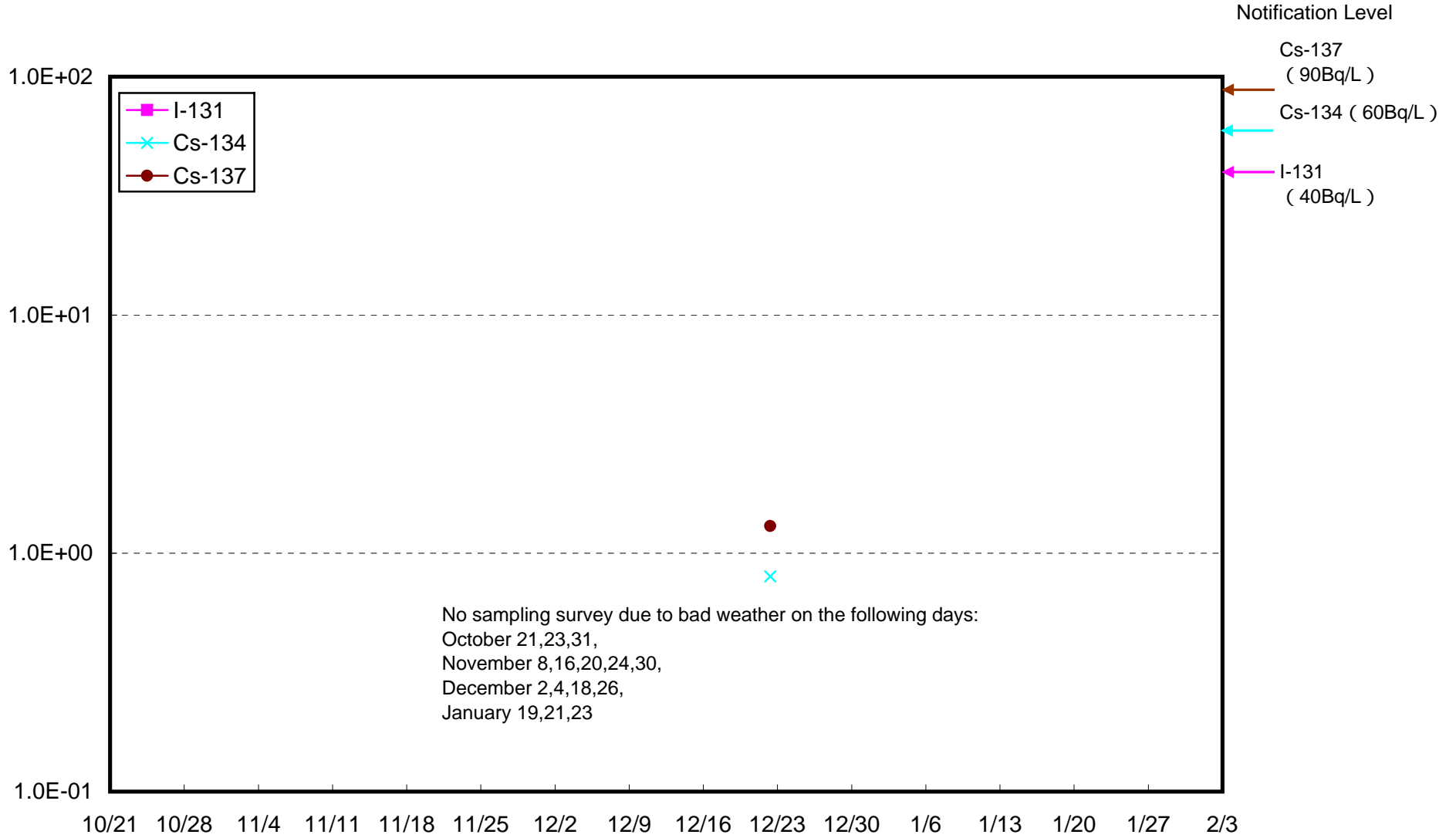


# Radioactivity Density of Seawater 3km Offshore of Odaka Ward Lower Layer (Bq/L)

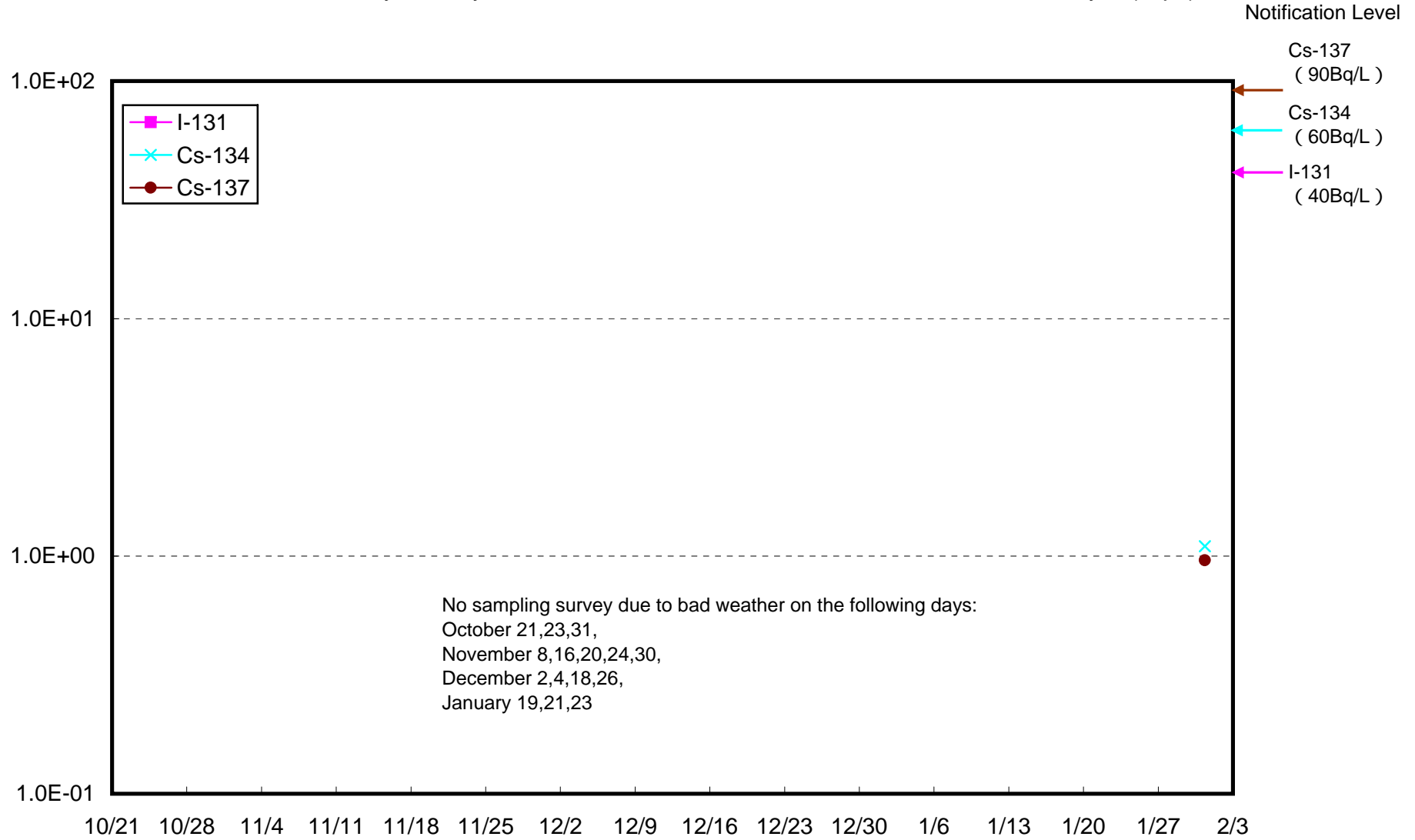




# Radioactivity Density of Seawater 3km Offshore of Iwasawa Shore Upper Layer (Bq/L)

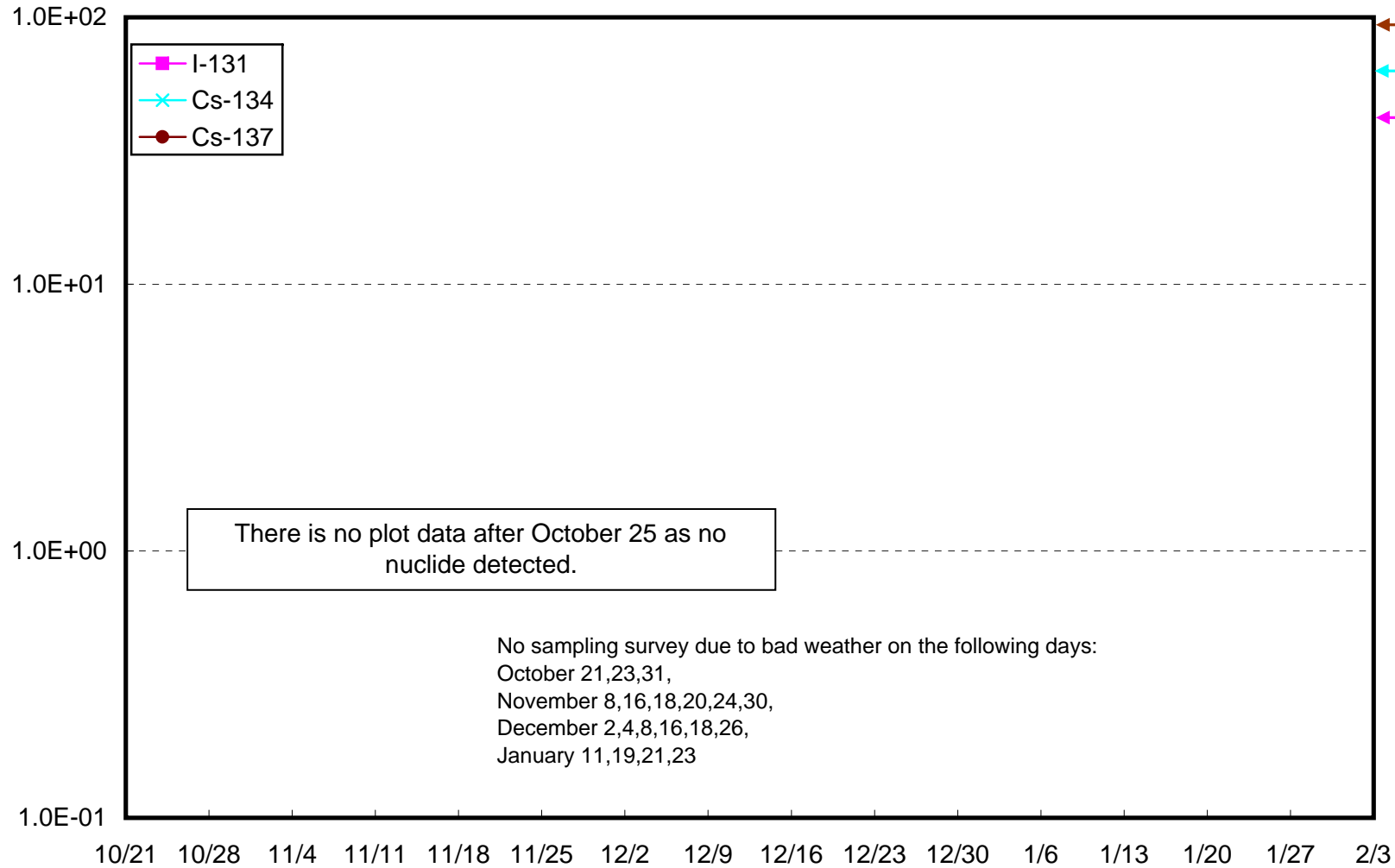


# Radioactivity Density of Seawater 3km Offshore of Iwasawa Shore Lower Layer (Bq/L)

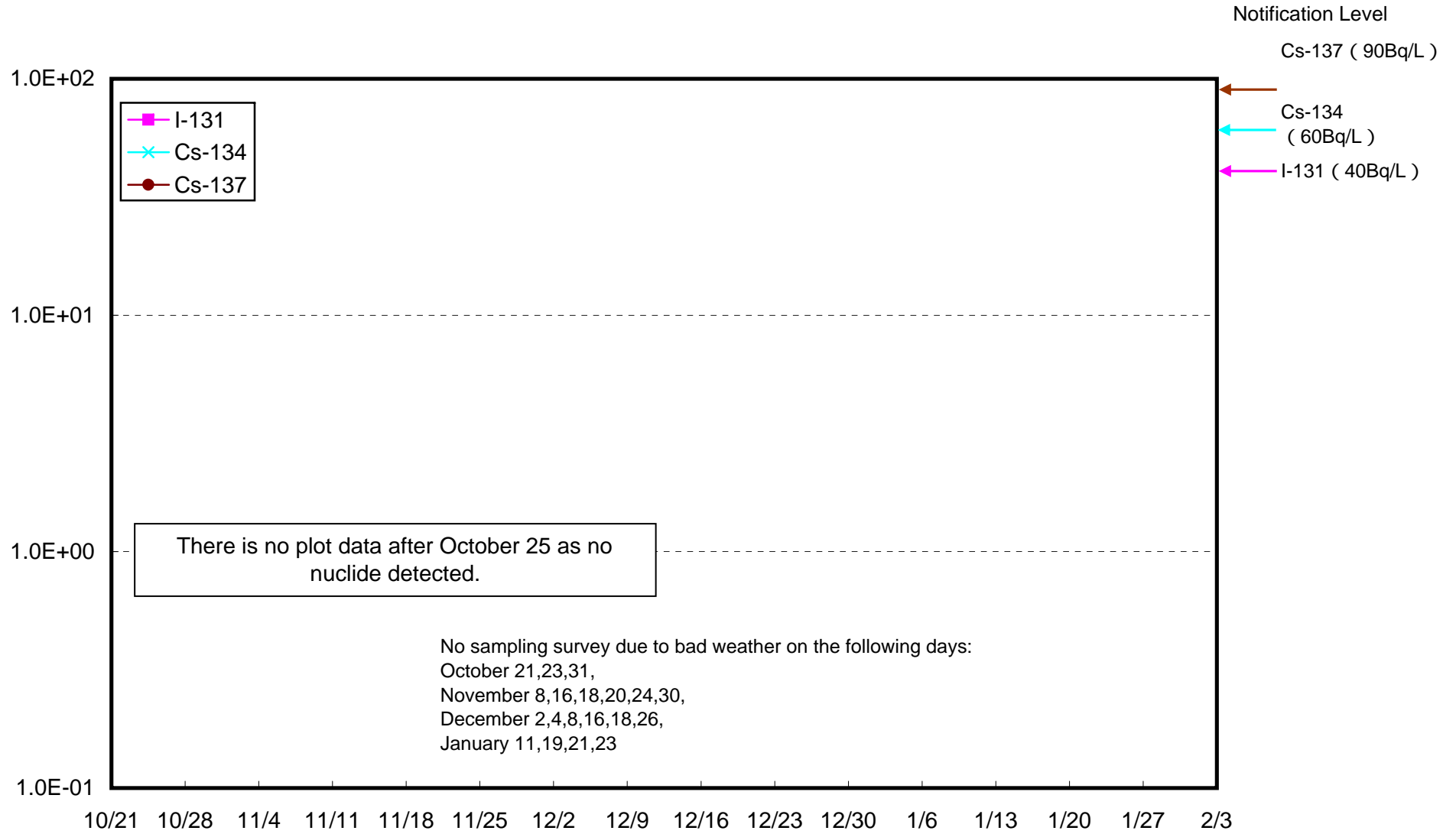


Radioactivity Density of Seawater 8km Offshore of Odaka Ward Upper Layer (Bq/L)

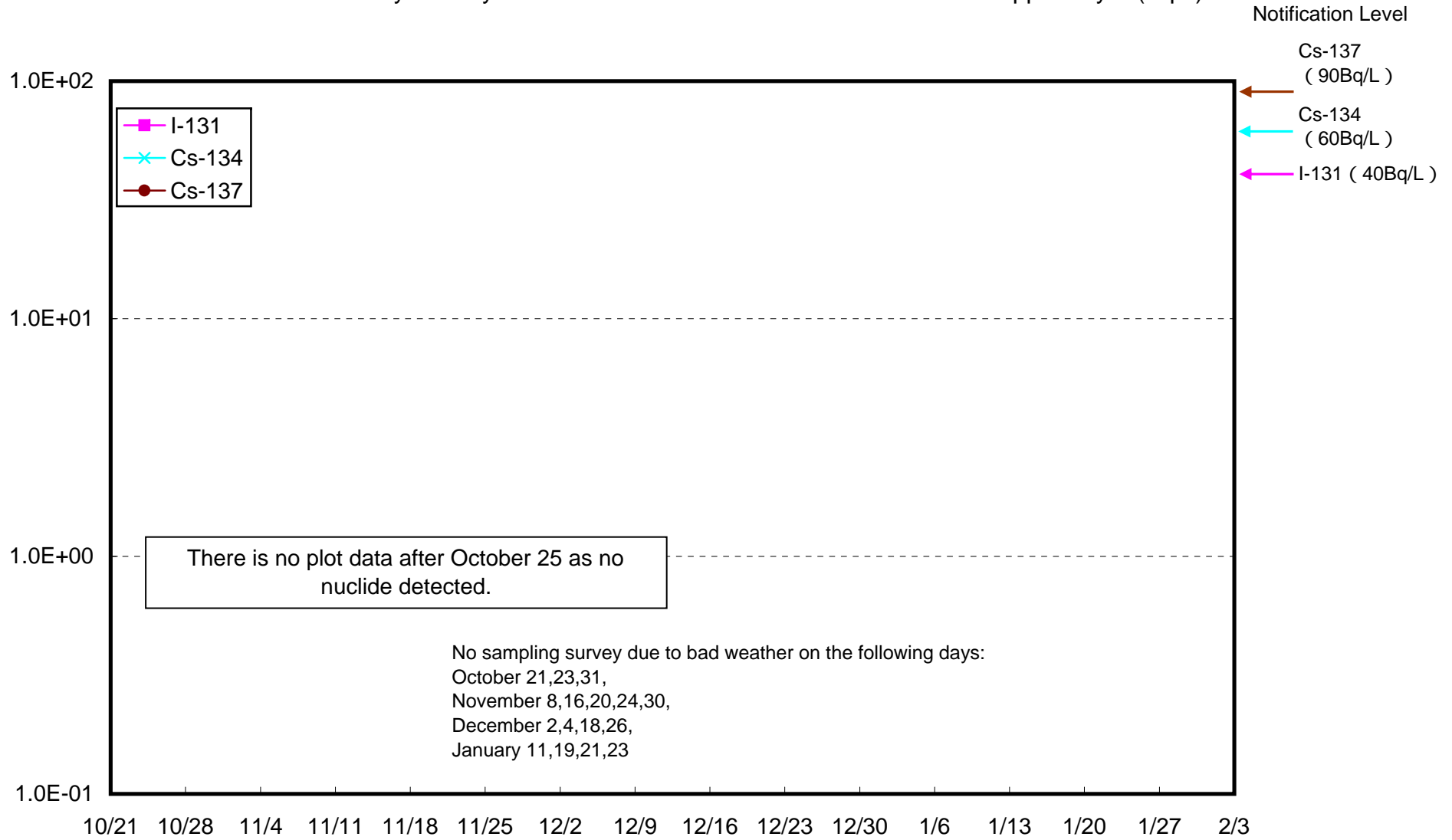
Notification Level  
Cs-137 ( 90Bq/L )  
Cs-134 ( 60Bq/L )  
I-131 ( 40Bq/L )



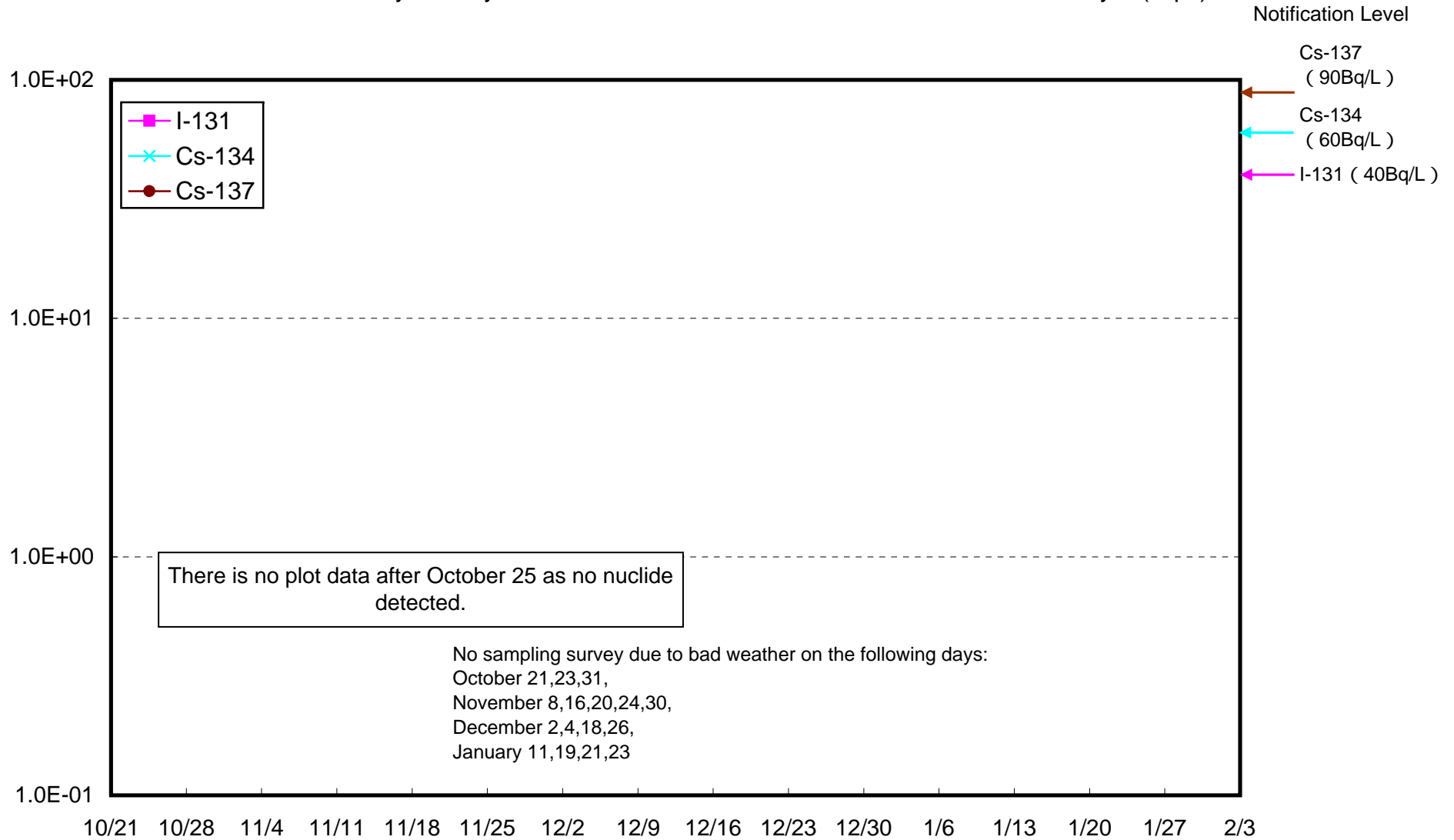
# Radioactivity Density of Seawater 8km Offshore of Odaka Ward Lower Layer (Bq/L)



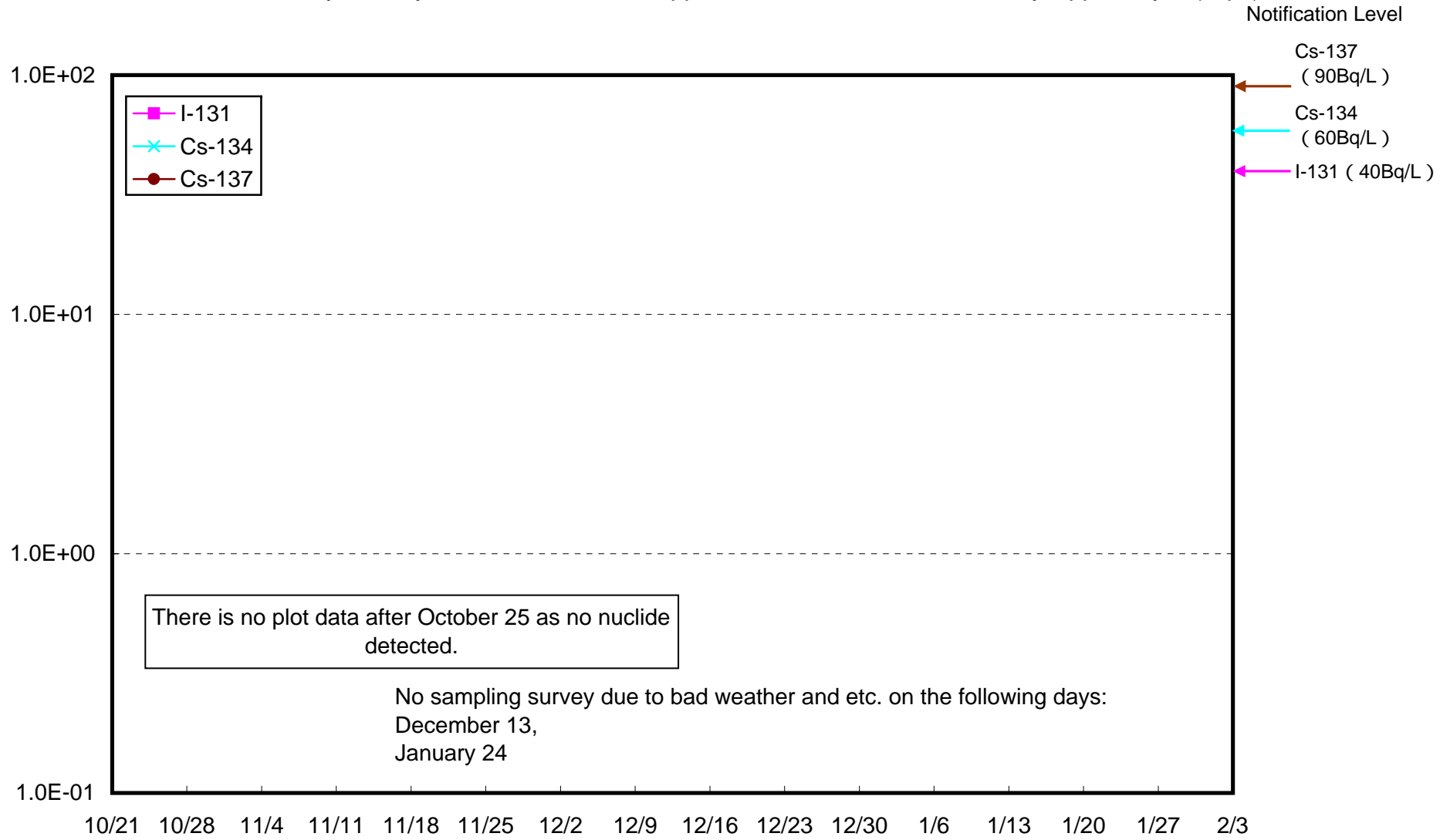
# Radioactivity Density of Seawater 8km Offshore of Iwasawa Shore Upper Layer (Bq/L)



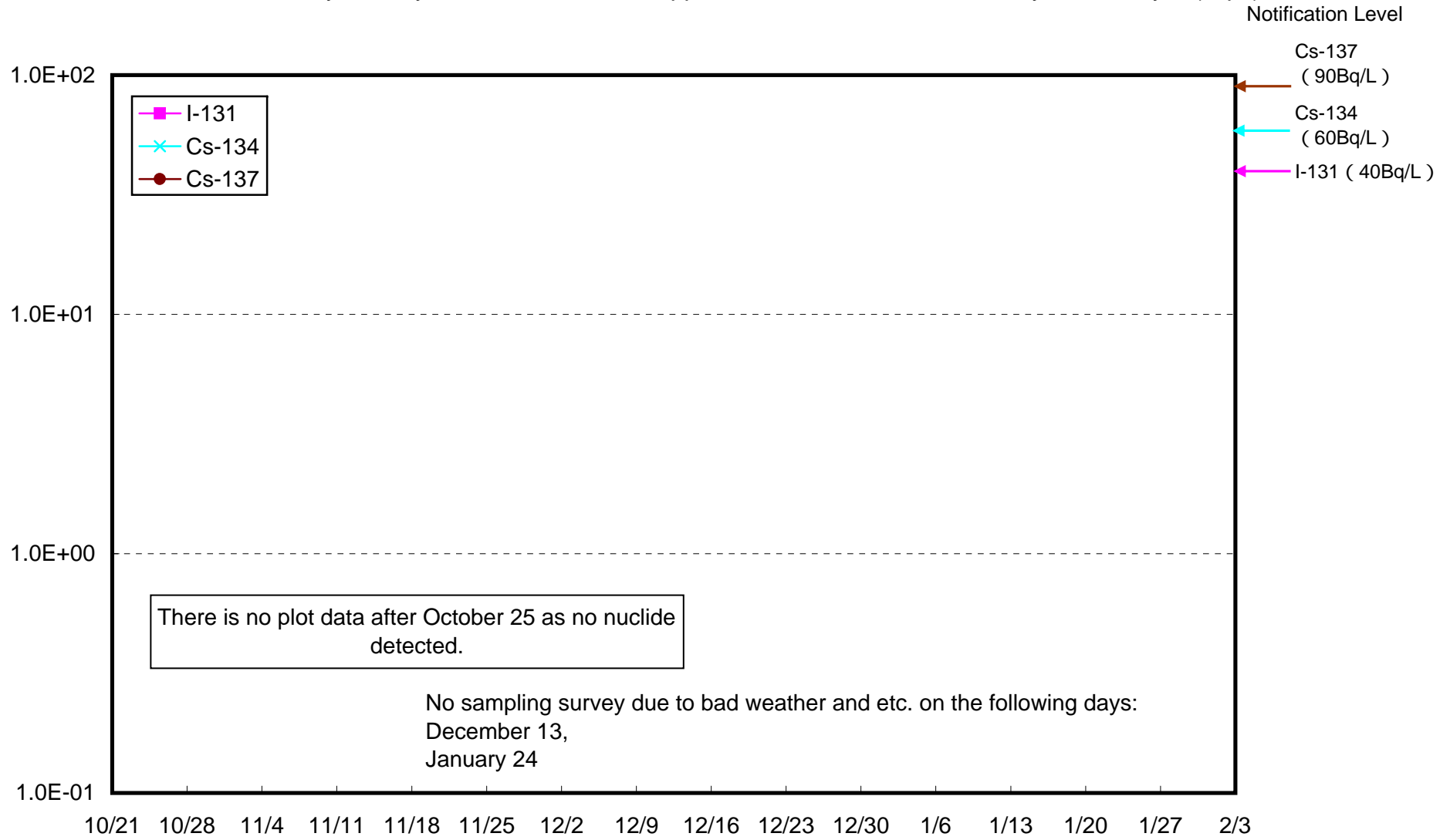
Radioactivity Density of Seawater 8km Offshore of Iwasawa Shore Lower Layer (Bq/L)



Radioactivity Density of Seawater around approx. 3 km offshore of Soma City Upper Layer (Bq/L)

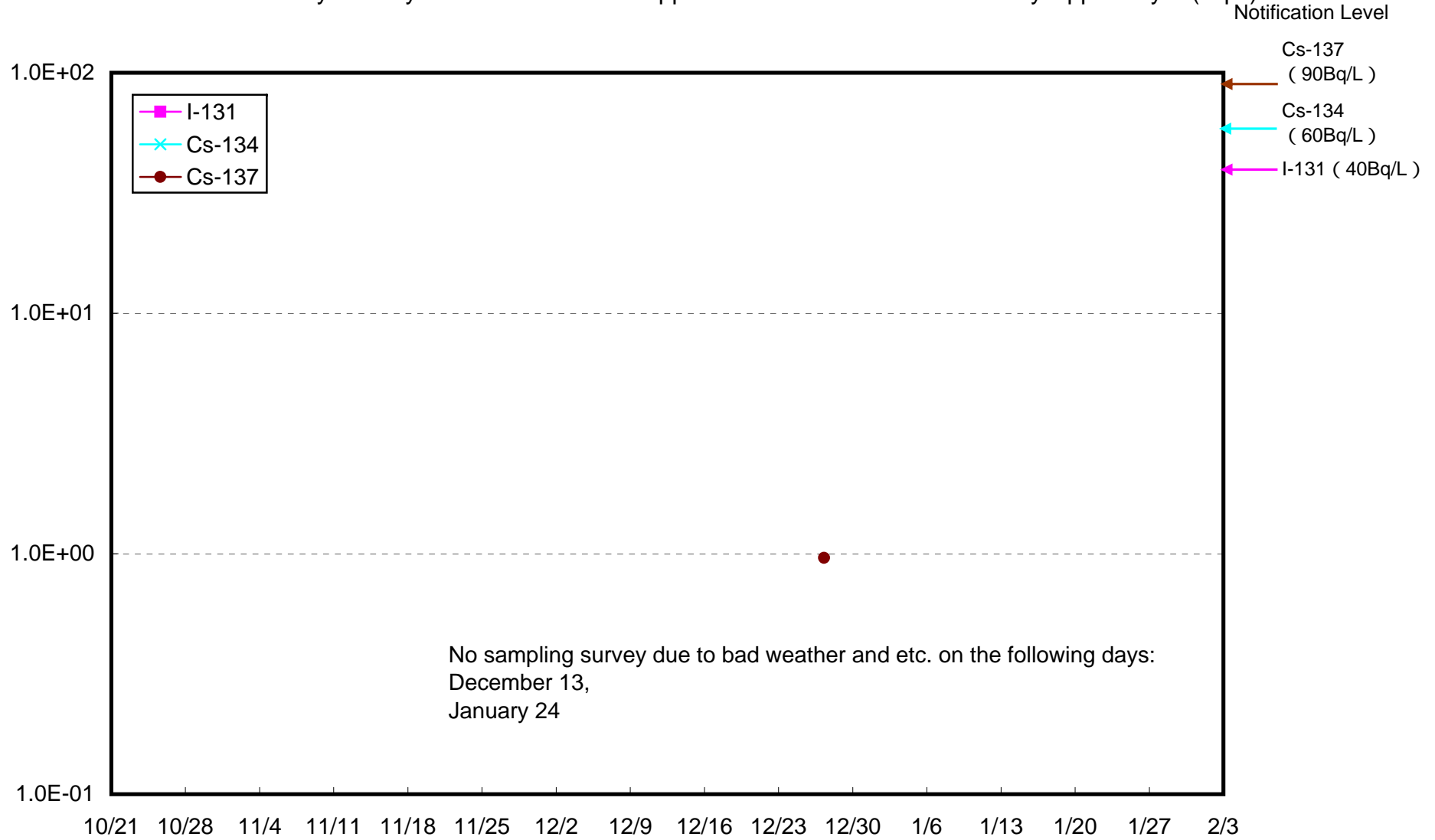


Radioactivity Density of Seawater around approx. 3 km offshore of Soma City Lower Layer (Bq/L)

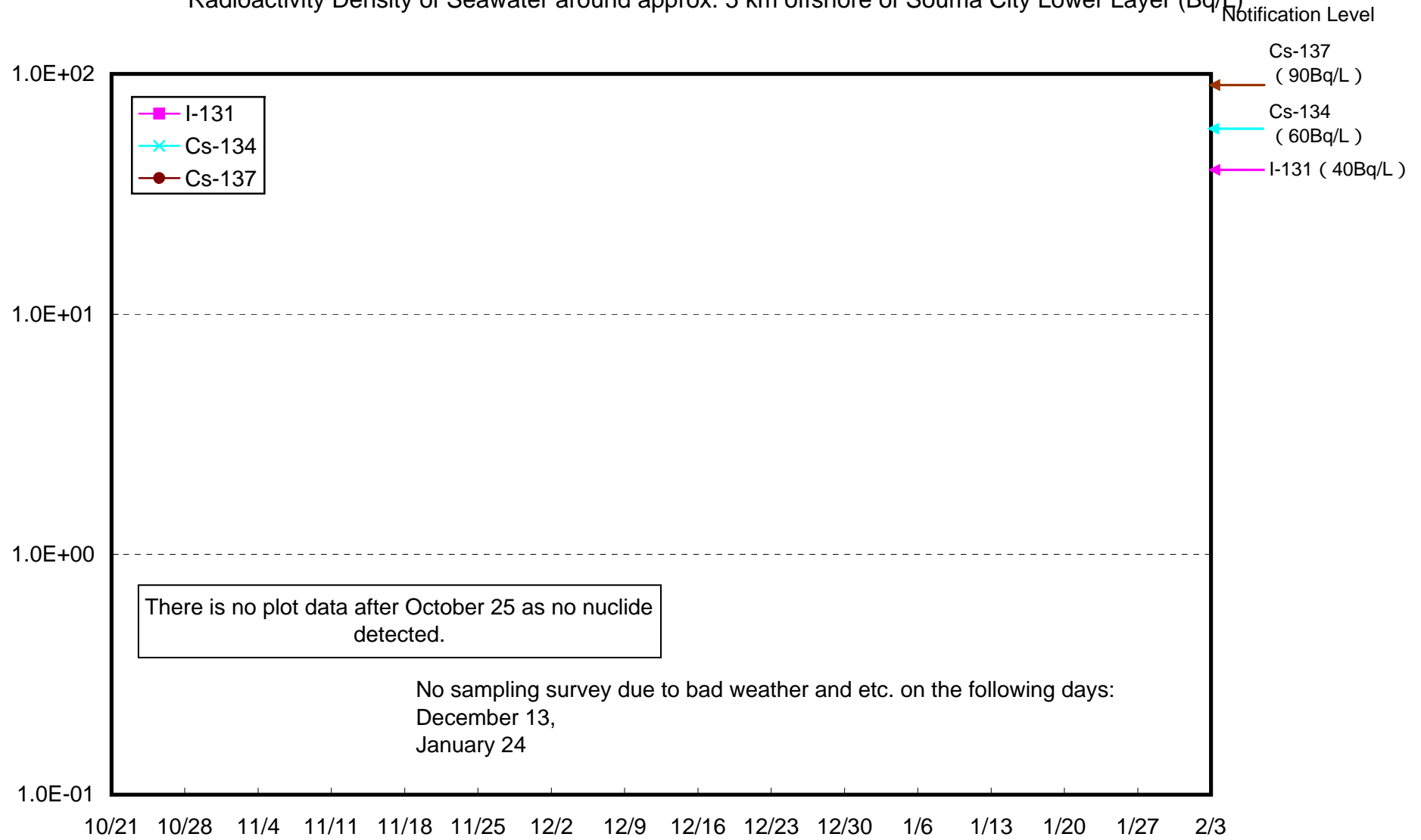




Radioactivity Density of Seawater around approx. 5 km offshore of Souma City Upper Layer (Bq/L)

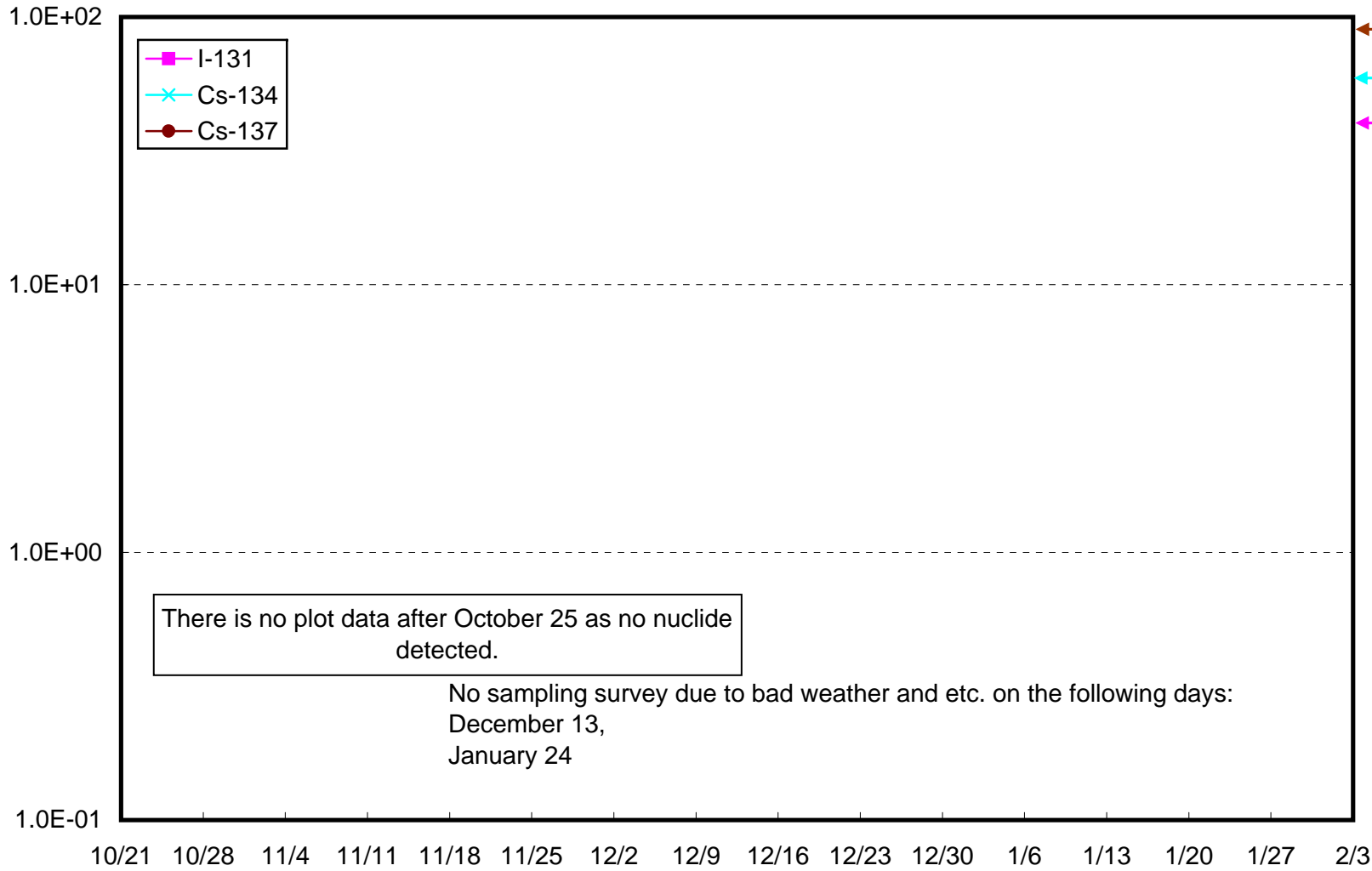


Radioactivity Density of Seawater around approx. 5 km offshore of Souma City Lower Layer (Bq/L)



Radioactivity Density of Seawater around 5 km offshore of Kashima Upper Layer (Bq/L)

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



Radioactivity Density of Seawater around 5 km offshore of Kashima Lower Layer (Bq/L)

