

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

Reference

(Data summarized on February 3)

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 02, 2012 (Not sampled)	Feb 02, 2012 (Not sampled)	Feb 02, 2012 08:20 am	Feb 02, 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	-	40
Cs-134 (about 2 years)	-	-	-	-	1.7	0.03	0.94	0.02	60
Cs-137 (about 30 years)	-	-	-	-	1.6	0.02	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.

Due to bad weather two of four points are not sampled

\* 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. 0.67Bq/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.

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

Reference

(Data summarized on February 3)

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	N/A		N/A		Feb 01, 2012 09:55 am		Feb 01, 2012 09:55 am		Feb 01, 2012 09:25 am		Feb 01, 2012 09:25 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

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	Feb 01, 2012 08:50 am		Feb 01, 2012 08:50 am		Feb 01, 2012 08:40 am		Feb 01, 2012 08:40 am		Feb 01, 2012 07:55 am		Feb 01, 2012 07:55 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

\* 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. 0.91Bq/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 2/2>

Reference

(Data summarized on February 3)

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		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)
	N/A		N/A		N/A		N/A		Feb 01, 2012 06:30 am		Feb 01, 2012 06:30 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	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	ND	-	ND	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	ND	-	ND	-	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		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)
	Feb 01, 2012 06:50 am		Feb 01, 2012 06:50 am		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)	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.

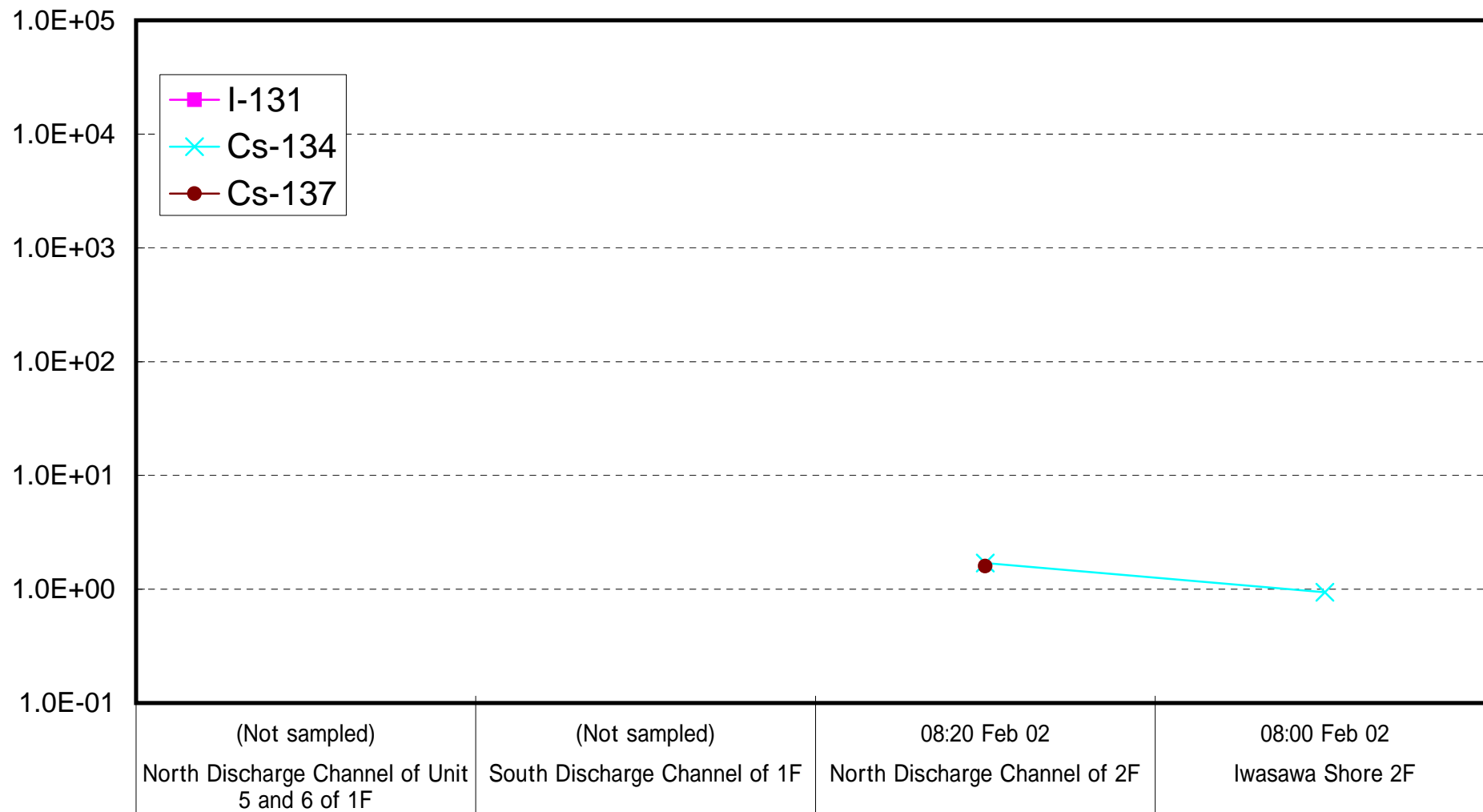
\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

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

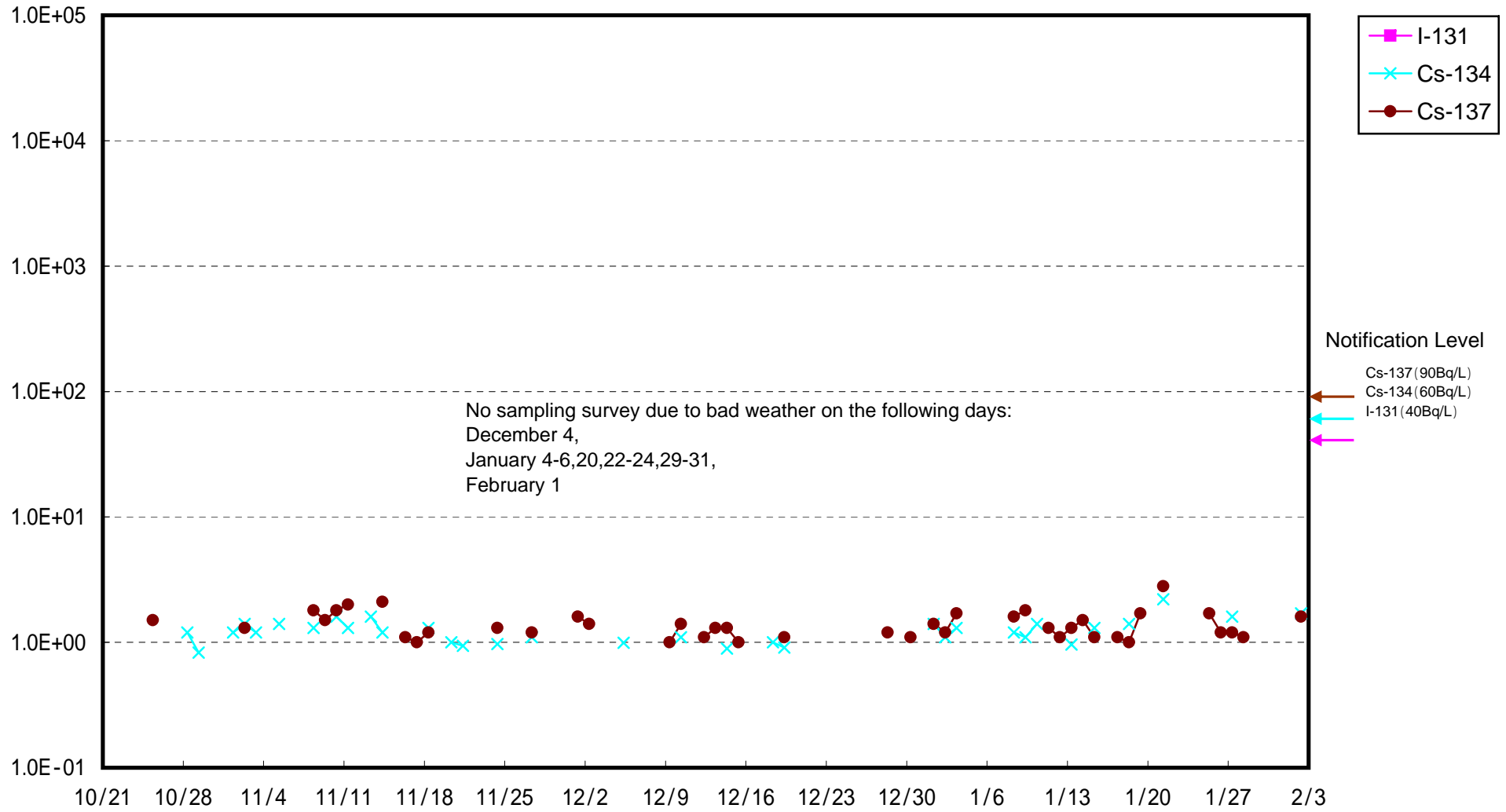
I-131: approx. 0.68Bq/L, Cs-134: approx. 0.89Bq/L, Cs-137: approx. 1.1Bq/L

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

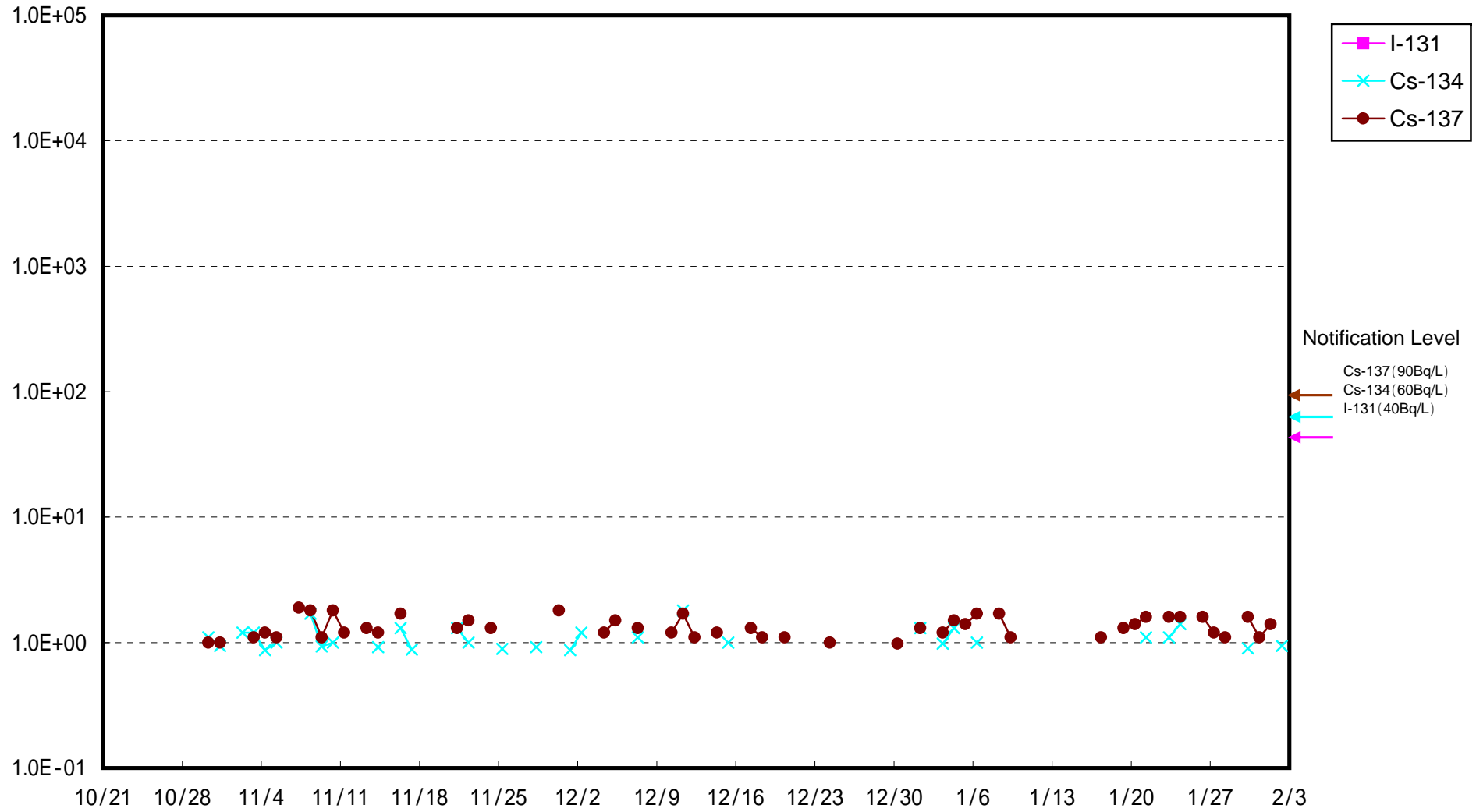
# Radioactivity Density of Seawater (Bq/L)



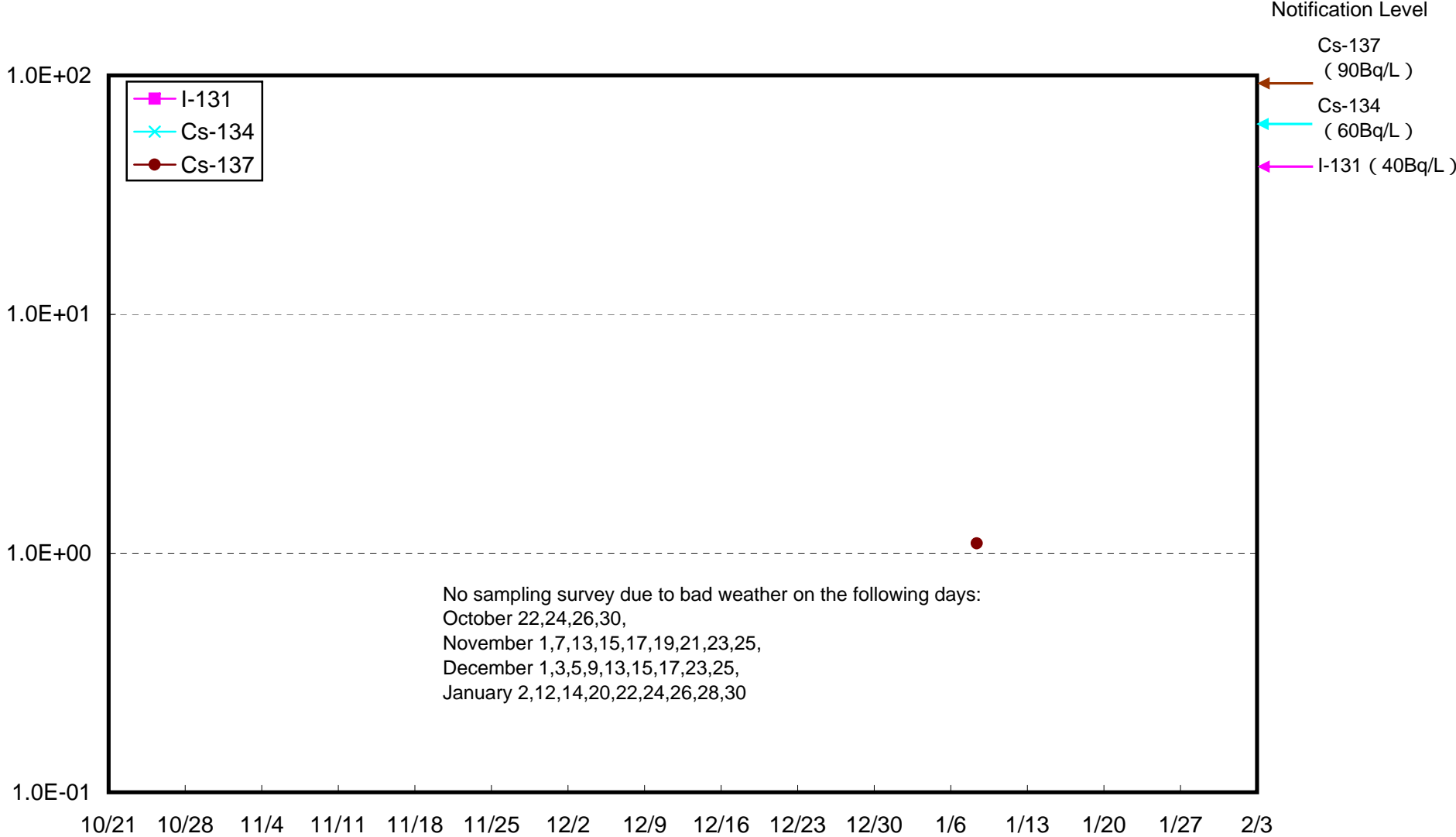
Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)



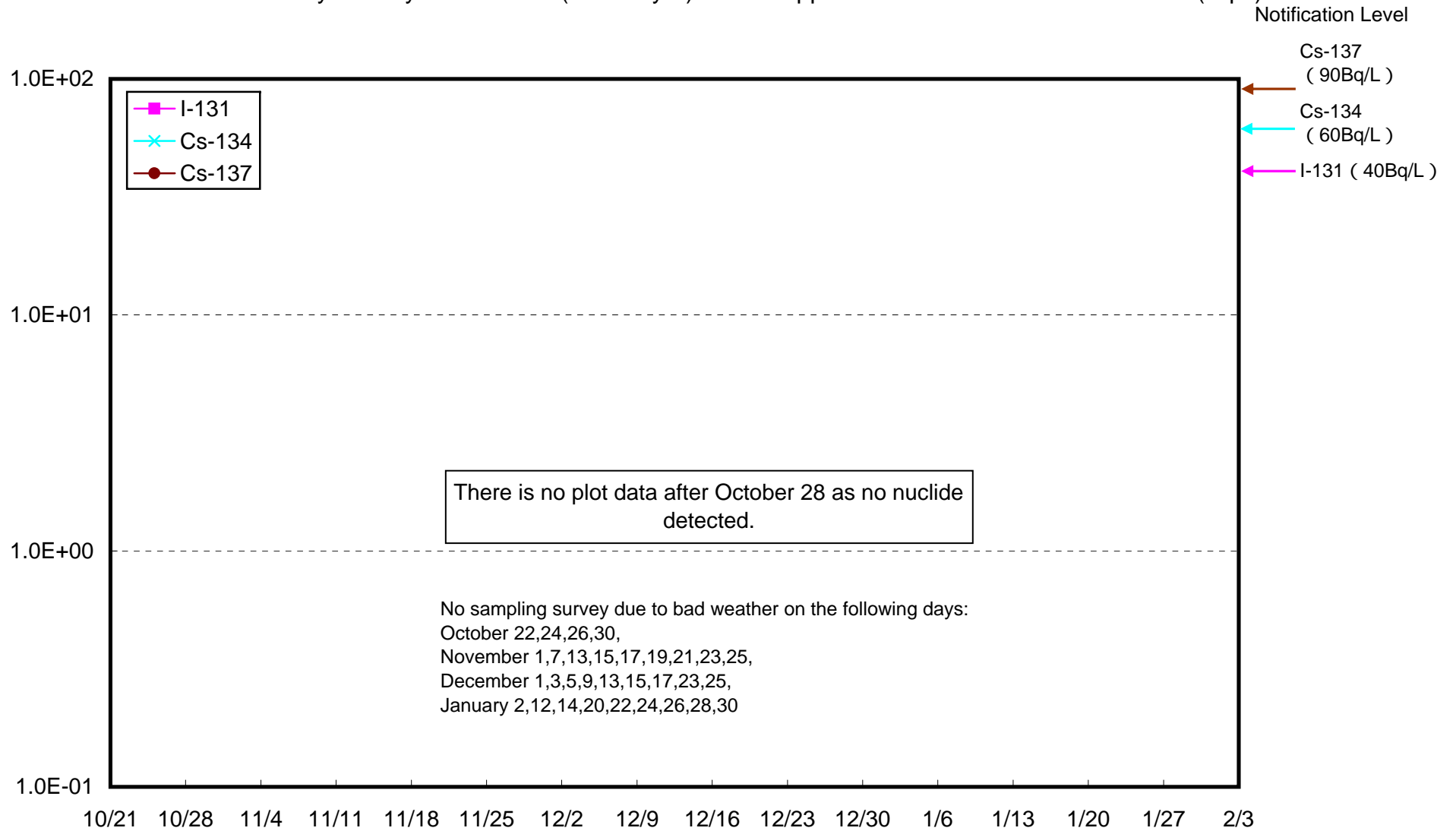
Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)



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

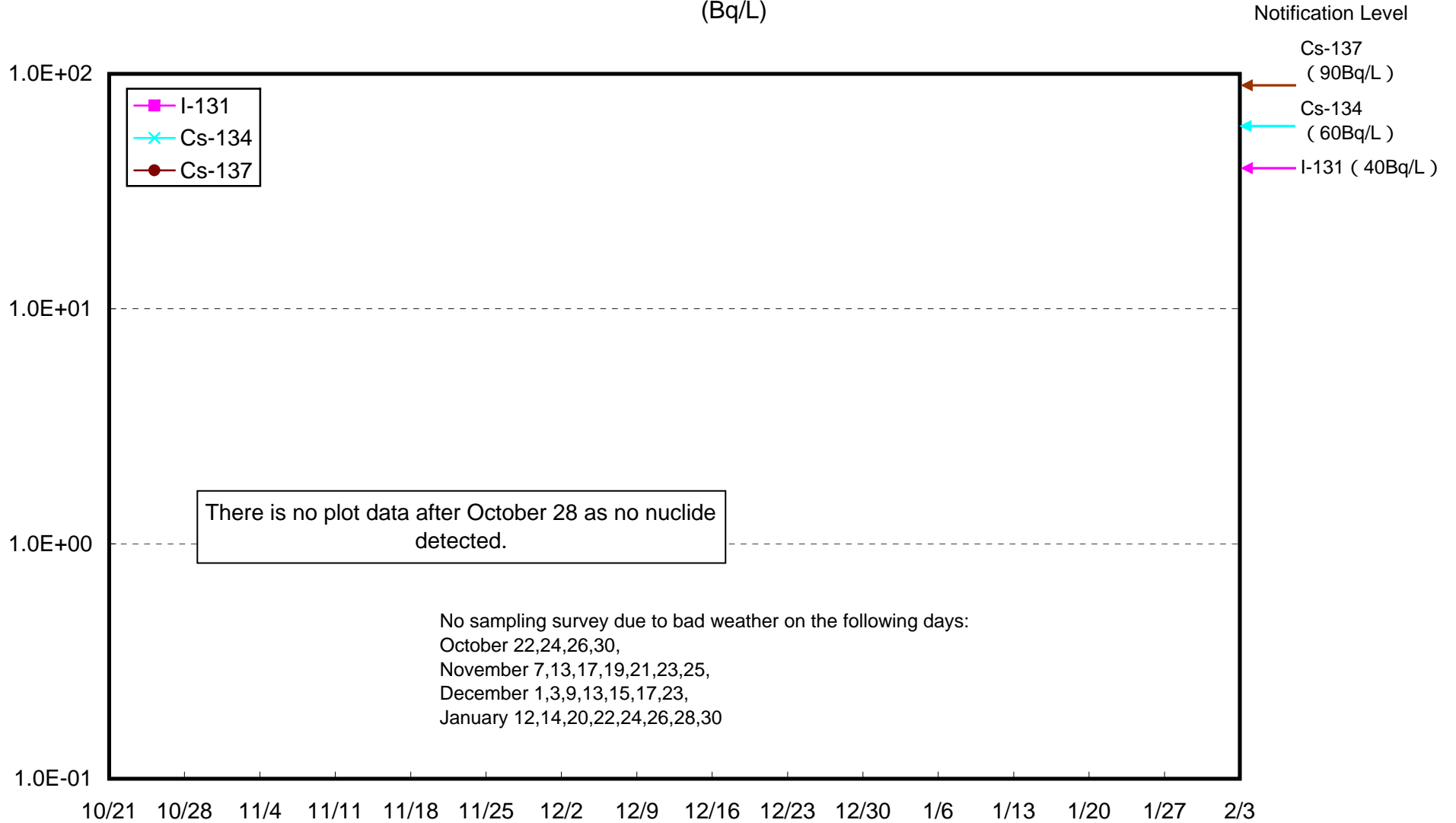


Radioactivity Density of Seawater (lower layer) around approx. 15 km offshore of Ukedo river (Bq/L)

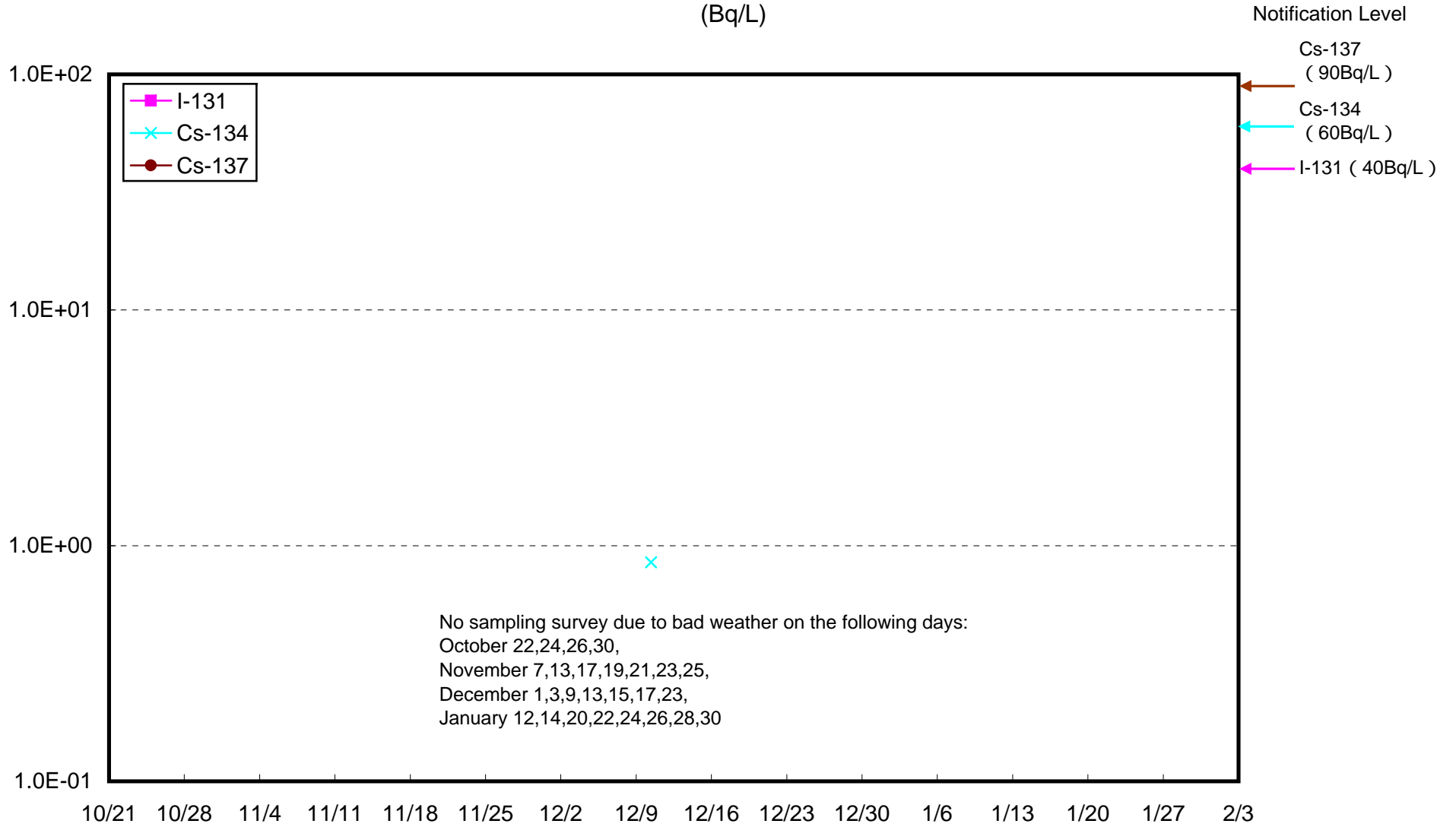




Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Fukushima Daiichi NPS  
(Bq/L)



Radioactivity Density of Seawater (lower layer) around approx. 15 km offshore of Fukushima Daiichi NPS  
(Bq/L)



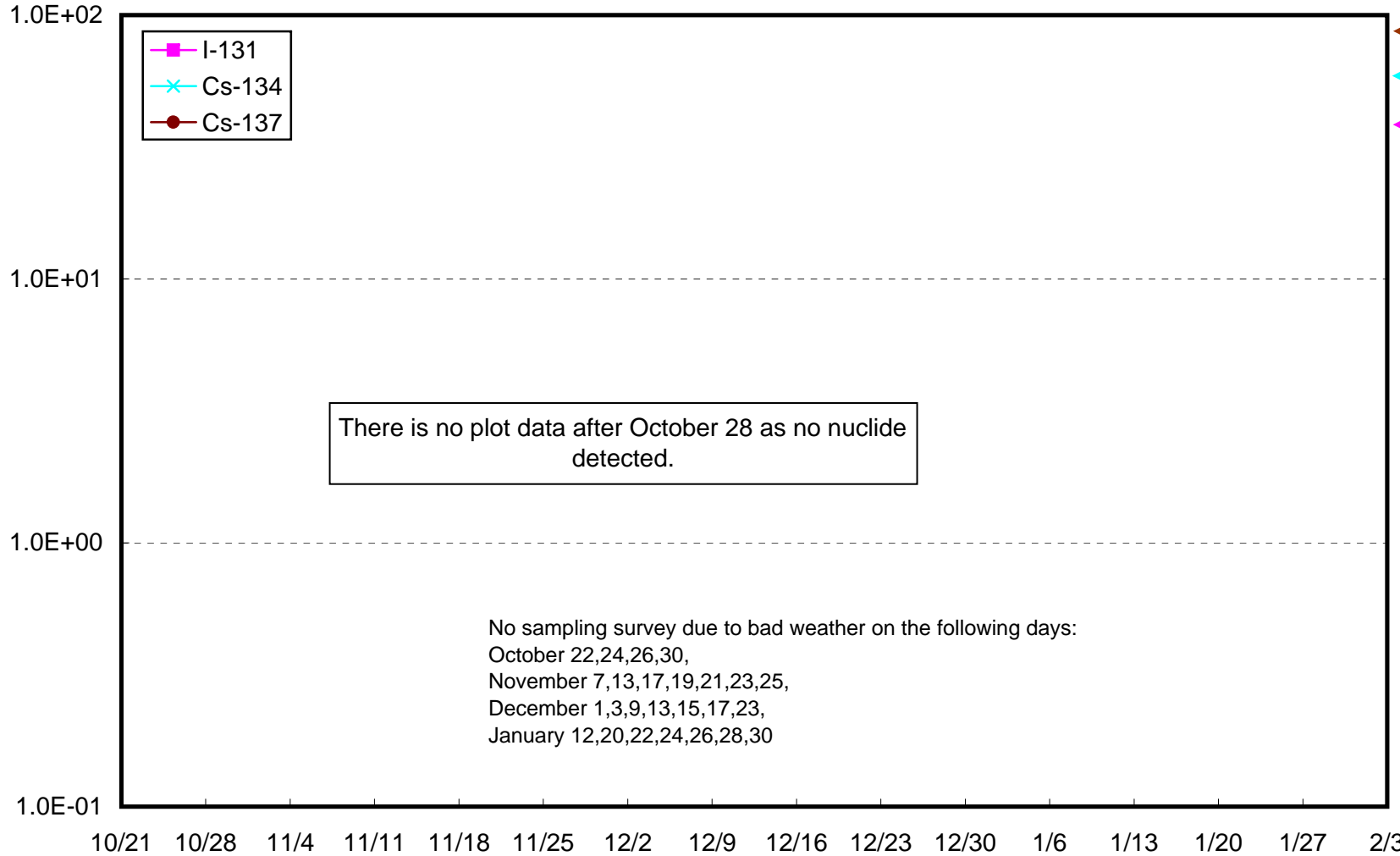
Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Fukushima Daini NPS  
(Bq/L)

Notification Level

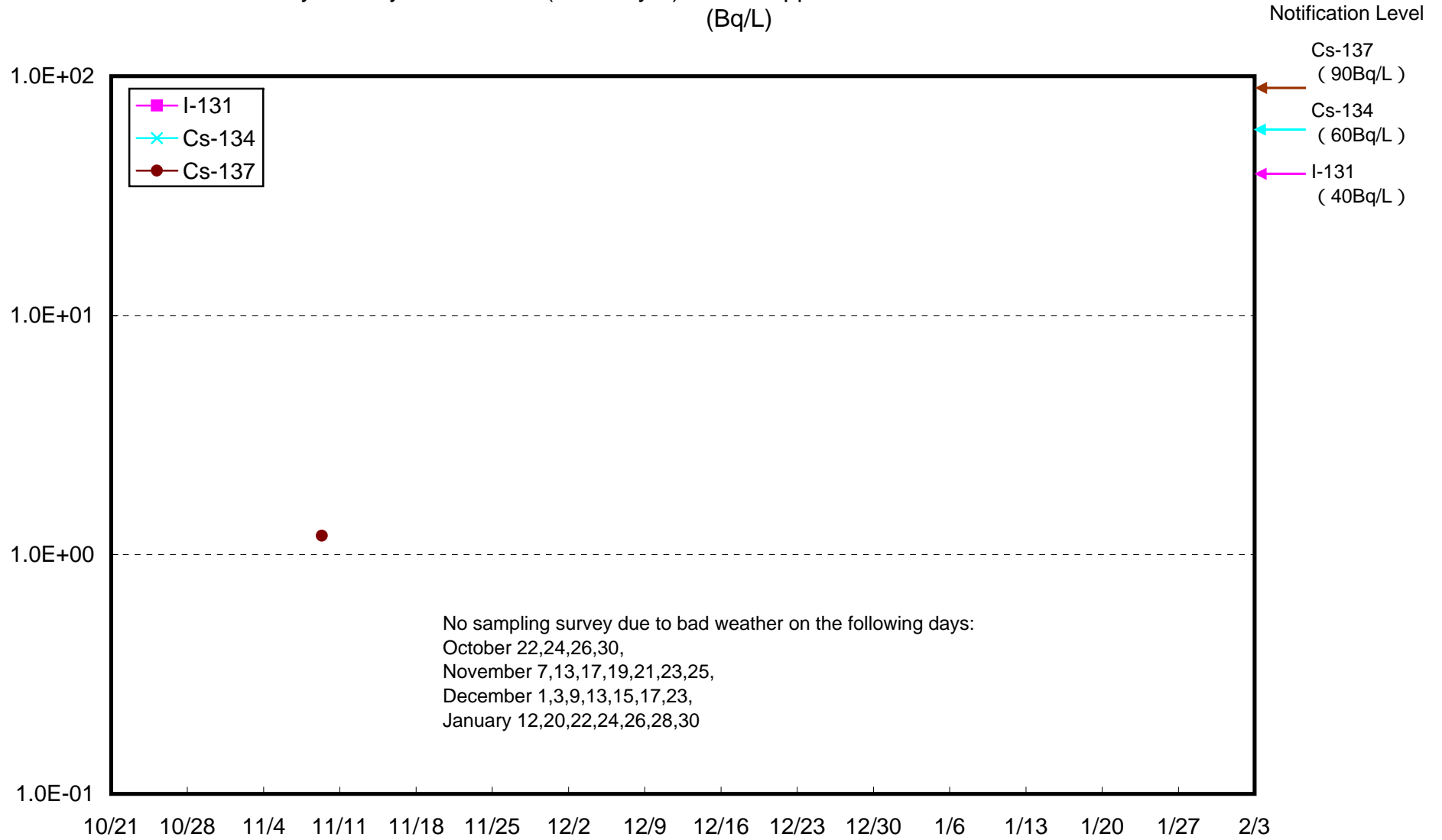
Cs-137  
( 90Bq/L )

Cs-134  
( 60Bq/L )

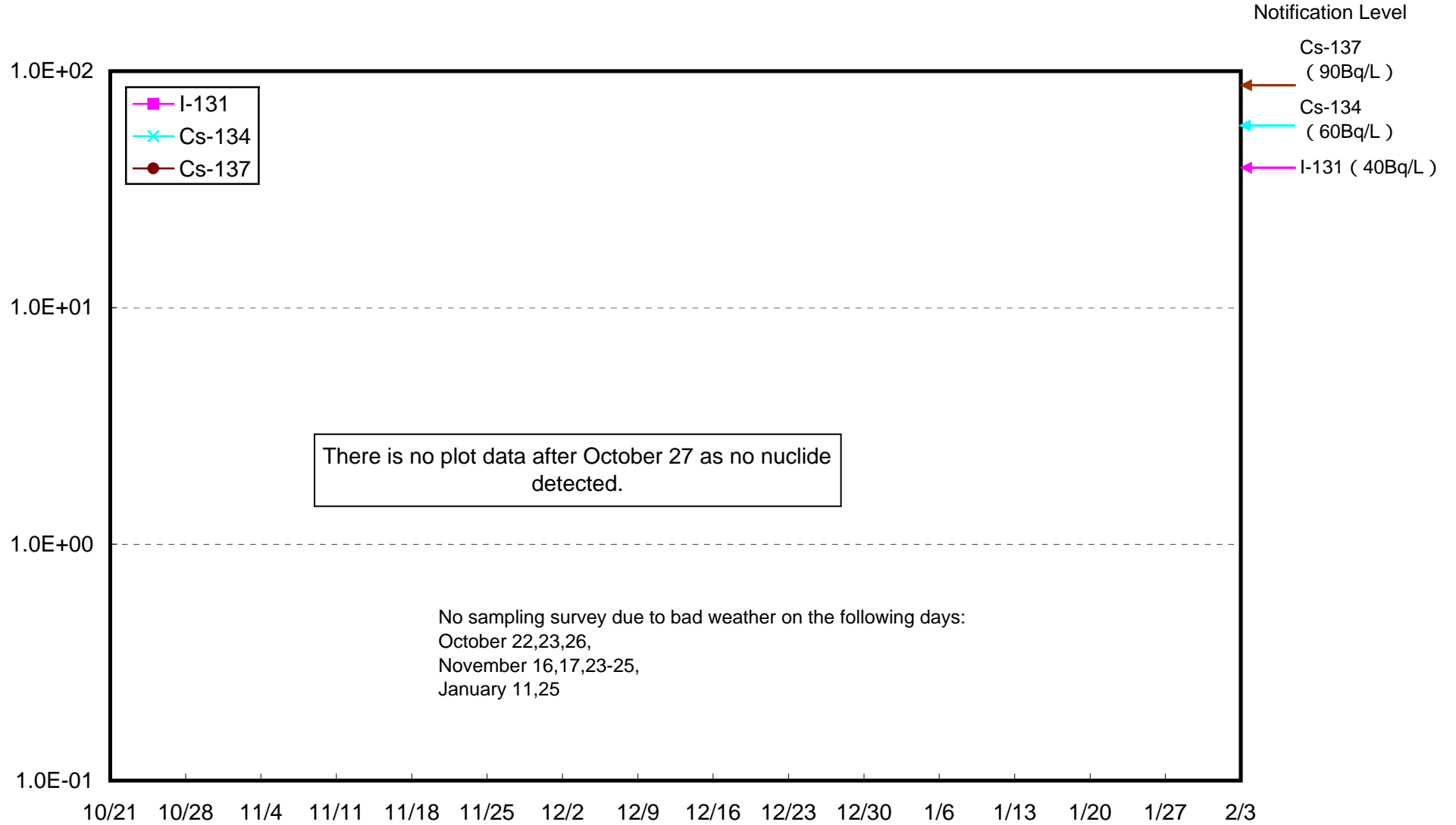
I-131  
( 40Bq/L )



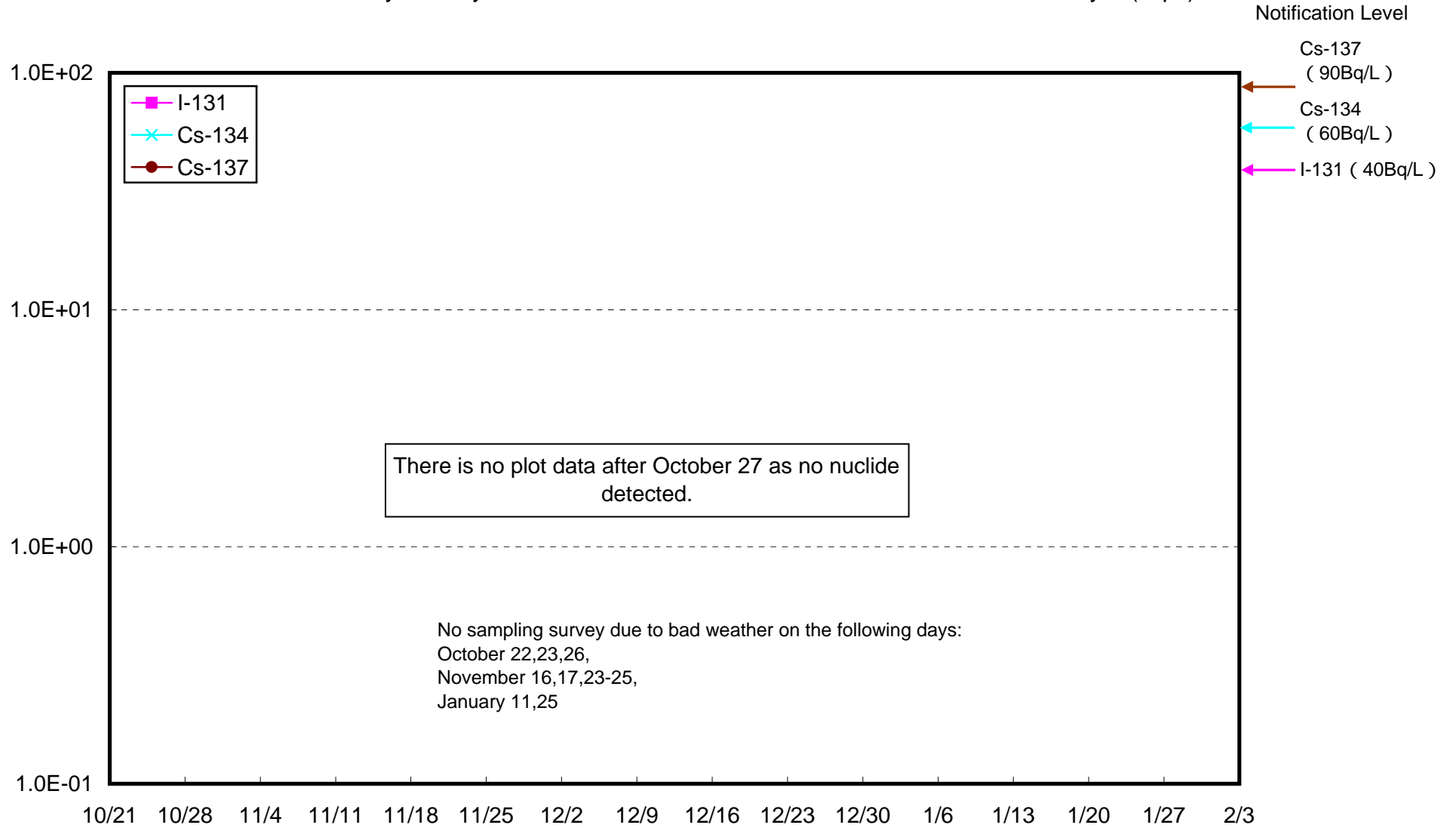
Radioactivity Density of Seawater (lower layer) around approx. 15 km offshore of Fukushima Daini NPS  
(Bq/L)



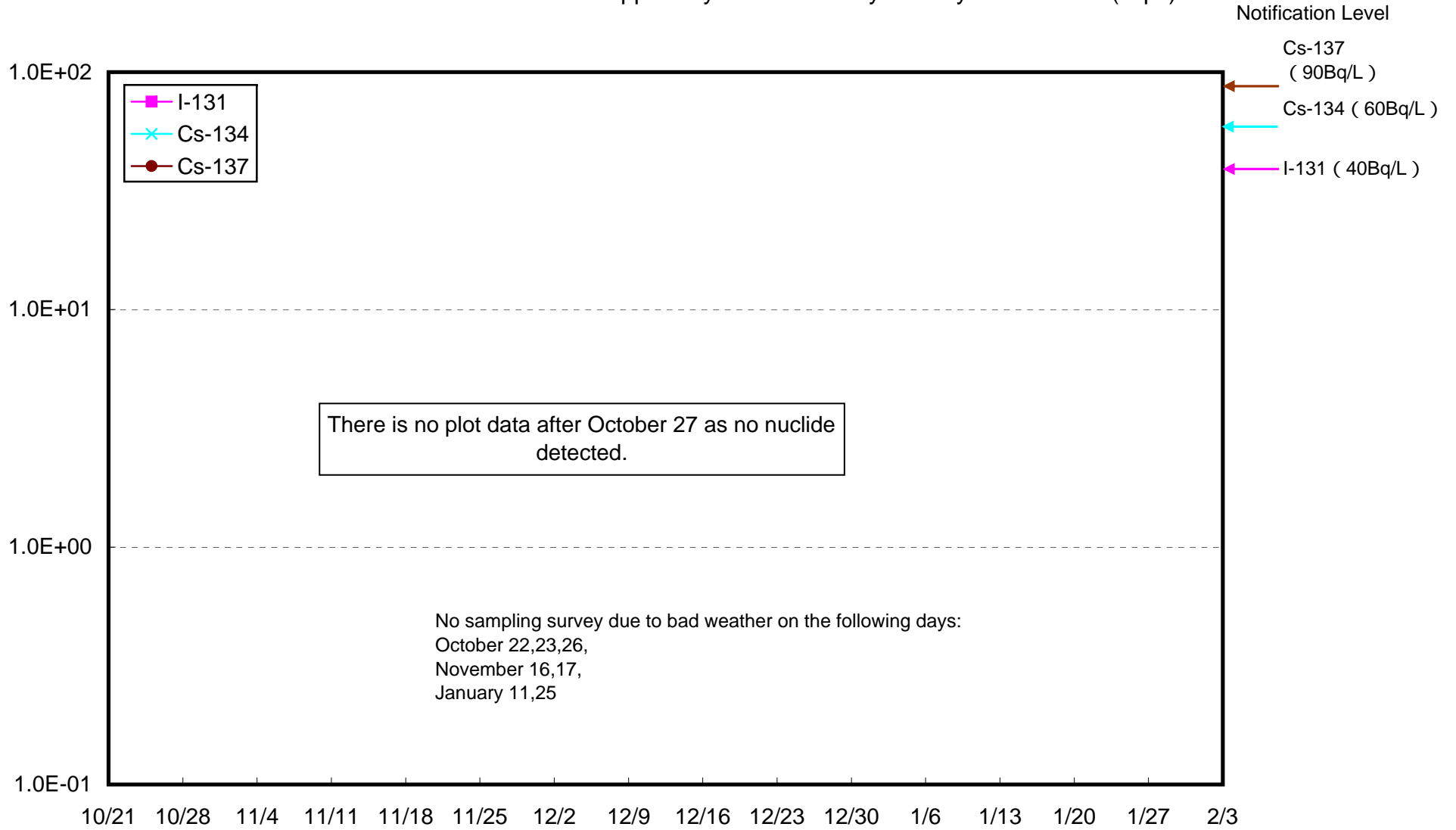
Radioactivity Density of Seawater 15km Offshore of Iwasawa Shore Upper Layer (Bq/L)



# Radioactivity Density of Seawater 15km Offshore of Iwasawa Shore Lower Layer (Bq/L)



# 15km offshore of Hirono town Upper Layer Radioactivity Density of Seawater (Bq/L)



15km offshore of Hirono town Lower Layer Radioactivity Density of Seawater (Bq/L)

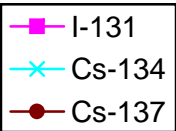
Notification Level

Cs-137  
( 90Bq/L )

Cs-134 ( 60Bq/L )

I-131 ( 40Bq/L )

1.0E+02



1.0E+01

1.0E+00

1.0E-01

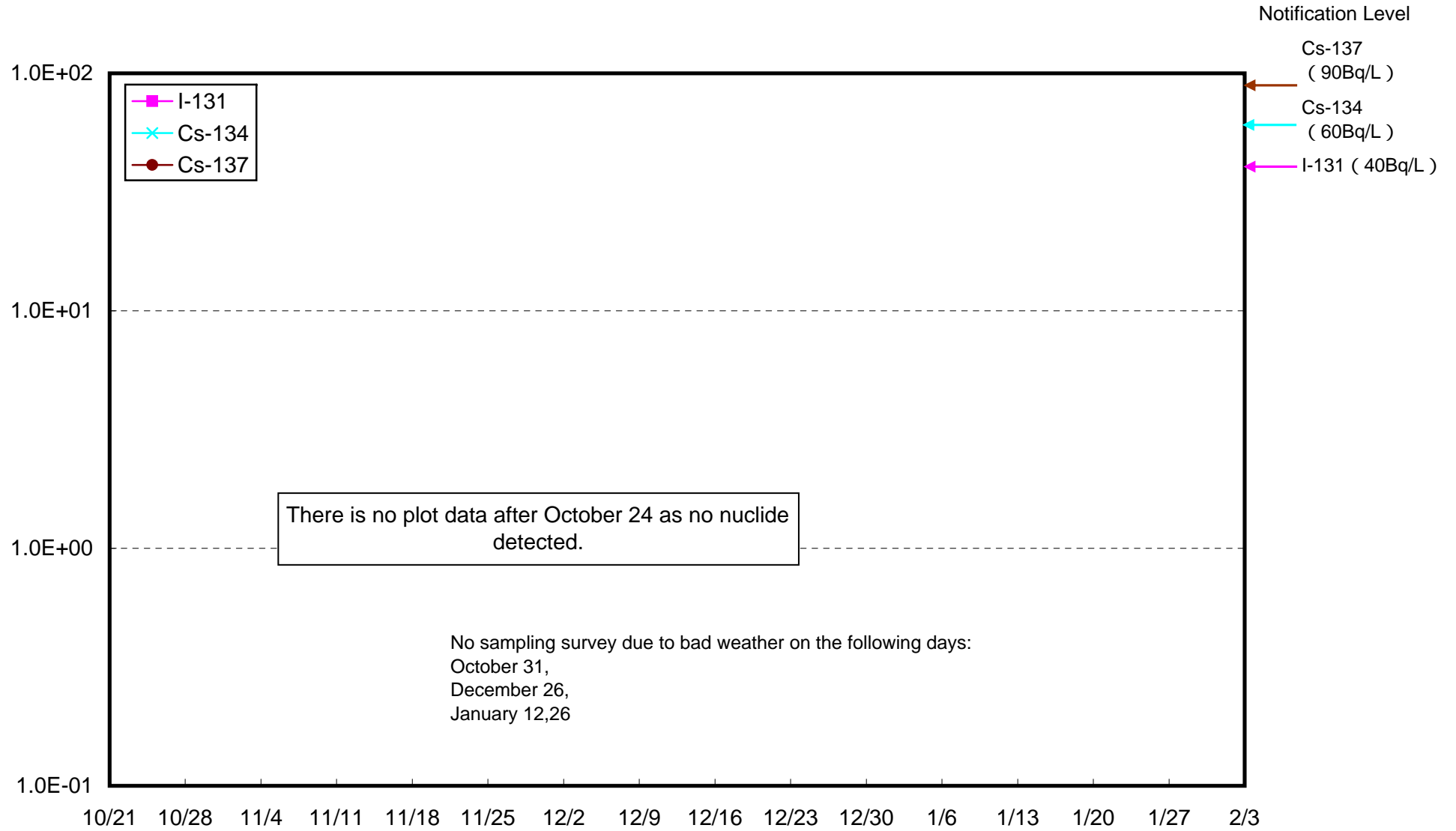
10/21 10/28 11/4 11/11 11/18 11/25 12/2 12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3

There is no plot data after October 27 as no nuclide detected.

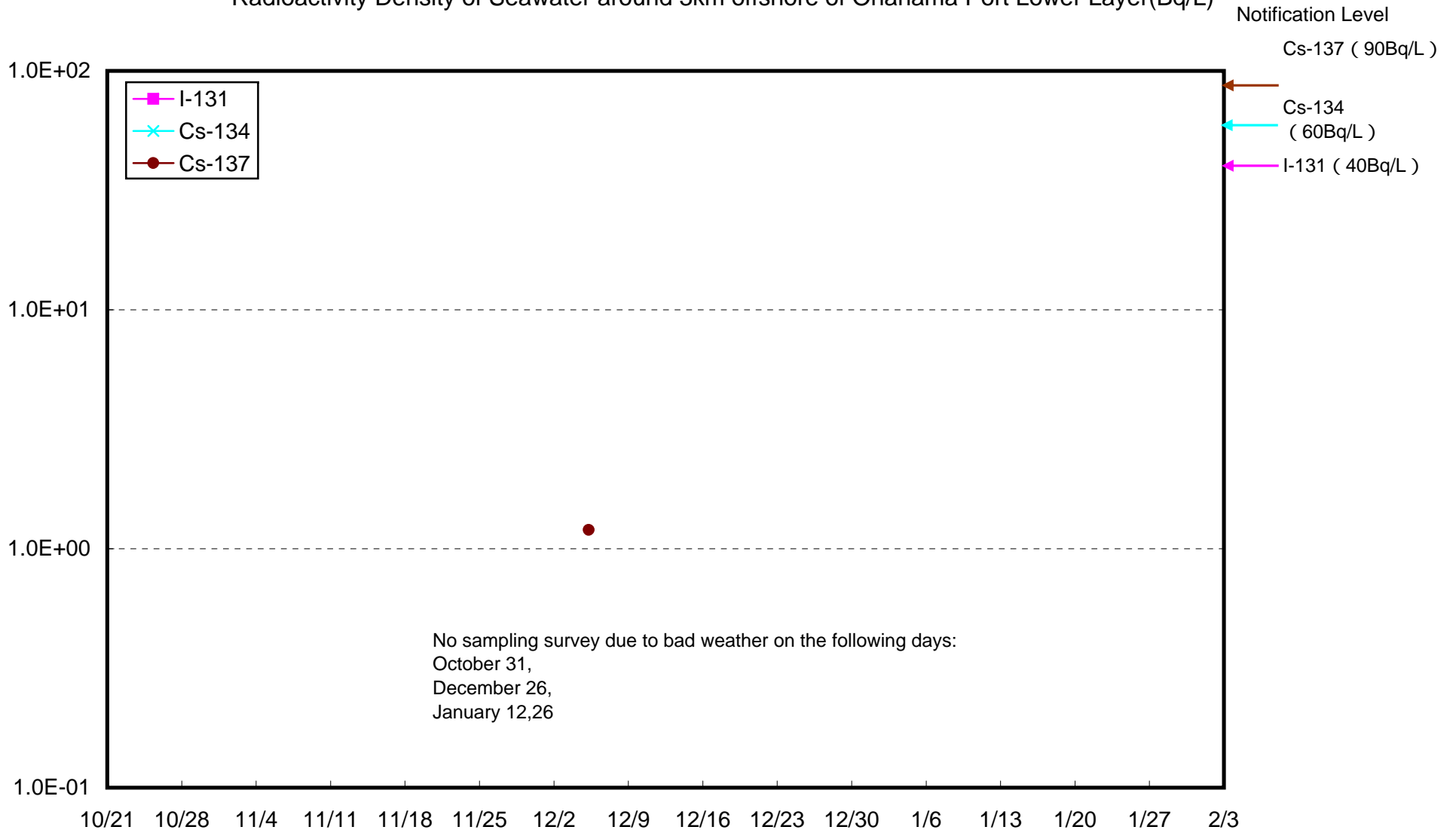
No sampling survey due to bad weather on the following days:  
October 22,23,26,  
November 16,17,  
January 11,25



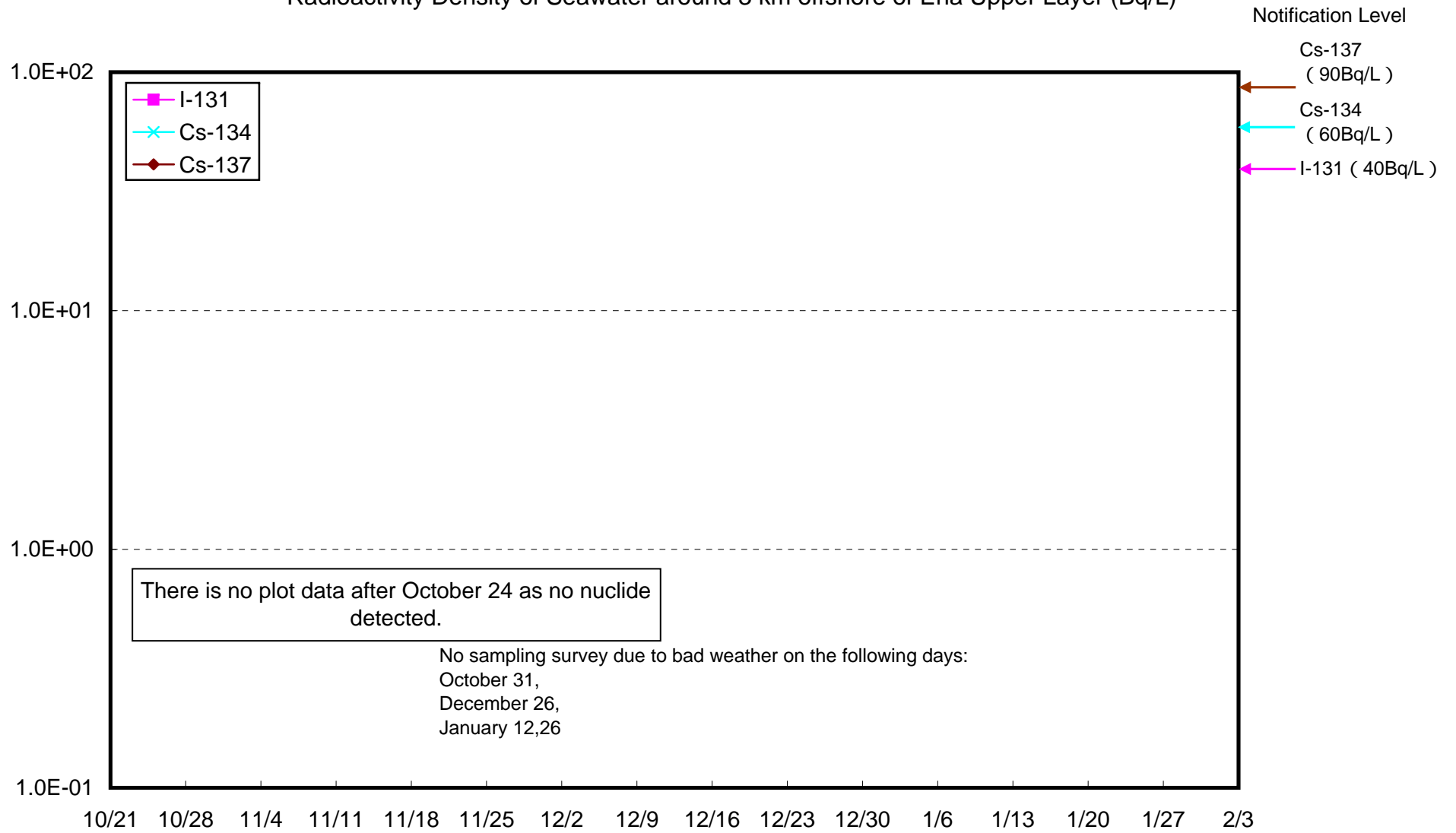
# Radioactivity Density of Seawater around 3km offshore of Onahama Port Upper Layer(Bq/L)



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



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



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

