

Nuclide Analysis Results of Radioactive Materials in Seawater <Coast>

Reference

(Data summarized on January 4)

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	Jan 03, 2012 08:35 am	Jan 03, 2012 08:15 am	Jan 03, 2012 08:10 am	Jan 03, 2012 07:50 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)	1.1	0.02	1.9	0.03	1.3	0.02	0.98	0.02	60
Cs-137 (about 30 years)	1.7	0.02	3.6	0.04	1.7	0.02	1.2	0.01	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

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 January 4)

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)
	N/A		N/A		Jan 02, 2012 (Not sampled)		Jan 02, 2012 (Not sampled)		Jan 02, 2012 08:40 am		Jan 02, 2012 08:40 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	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	ND	-	ND	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	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)
	Jan 02, 2012 07:50 am		Jan 02, 2012 07:50 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/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. 0.67Bq/L, Cs-134: approx. 0.92Bq/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.

Partly not sampled due to bad weather

The Result of analysis for Pu in the ocean

1. Place of sampling : The Unit 5 and 6 North Discharge Channel of Fukushima Daiichi
 Around South Discharge Channel of Fukushima Daiichi
 Around 15 km Offshore (upper layer) of Fukushima Daiichi
 Around 15 km Offshore (upper layer) of Fukushima Daini
2. Analytical body : Japan Chemical Analysis Center (JCAC)
3. Sampling result:

(Unit: Bq/L)

Place of sampling	Date of sampling	Pu-238	Pu-239,Pu-240
1F 5, 6 North Discharge Channel	12/10	N.D. [$<4.7 \times 10^{-4}$]	N.D. [$<4.7 \times 10^{-4}$]
1F South Discharge Channel		N.D. [$<5.1 \times 10^{-4}$]	N.D. [$<4.8 \times 10^{-4}$]
1F 15 km Offshore (upper layer)		N.D. [$<6.1 \times 10^{-4}$]	N.D. [$<5.5 \times 10^{-4}$]
2F 15 km Offshore (upper layer)		N.D. [$<5.3 \times 10^{-4}$]	N.D. [$<4.6 \times 10^{-4}$]

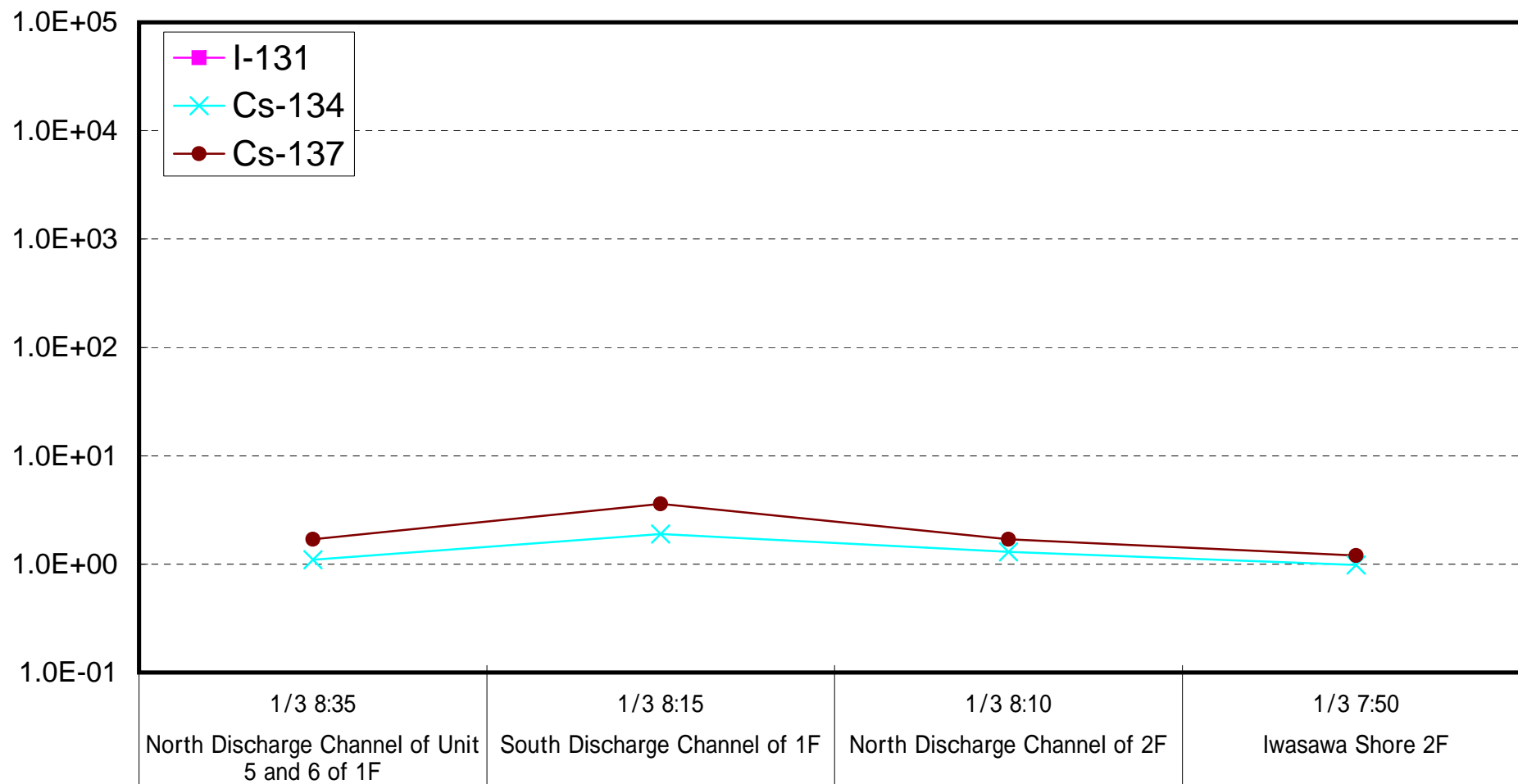
[] : Detection Limit

4. Evaluation:

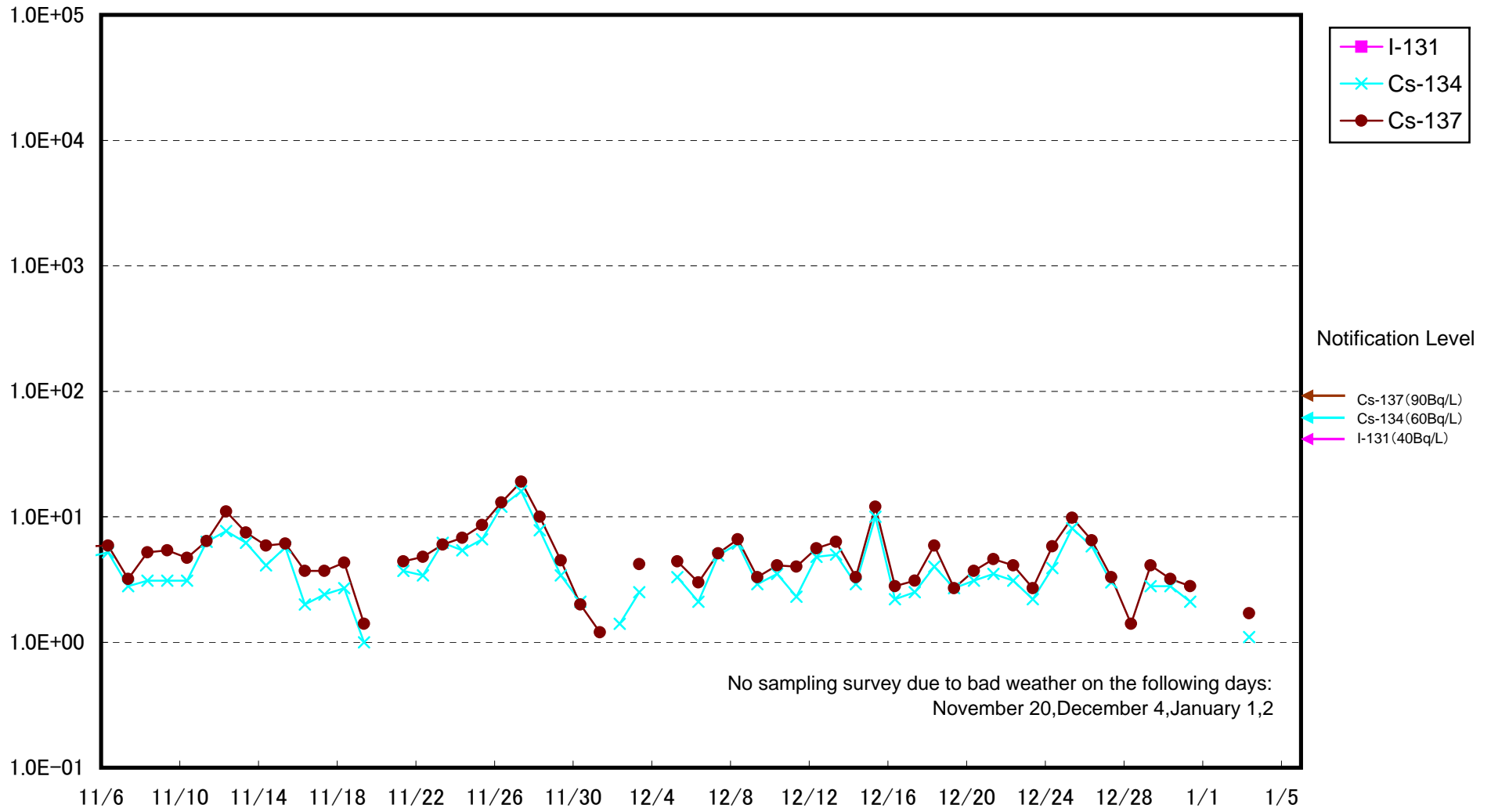
There is no detection of Pu-238, Pu-239 and Pu-240 from this sampling

END

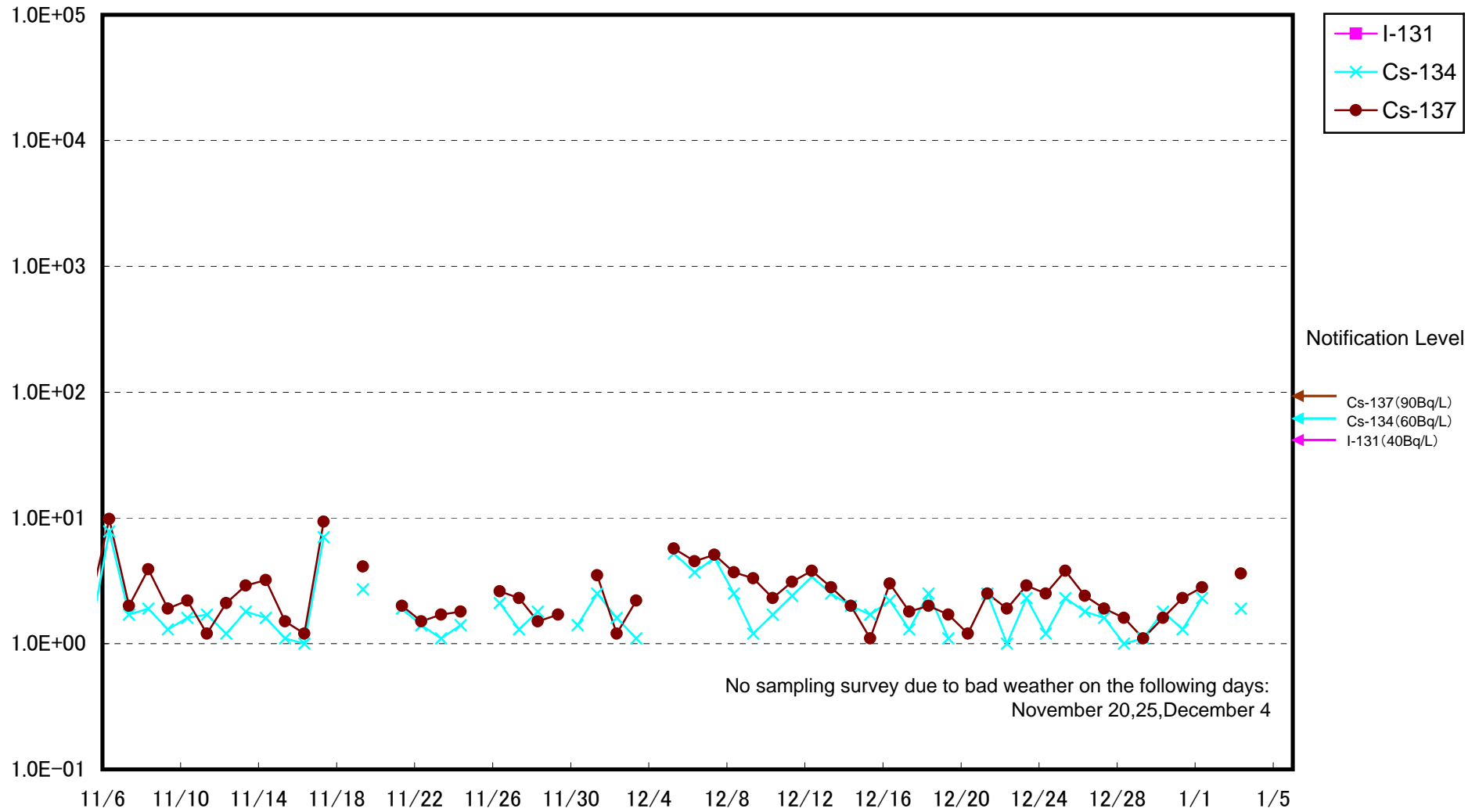
Radioactivity Density of Seawater (Bq/L)



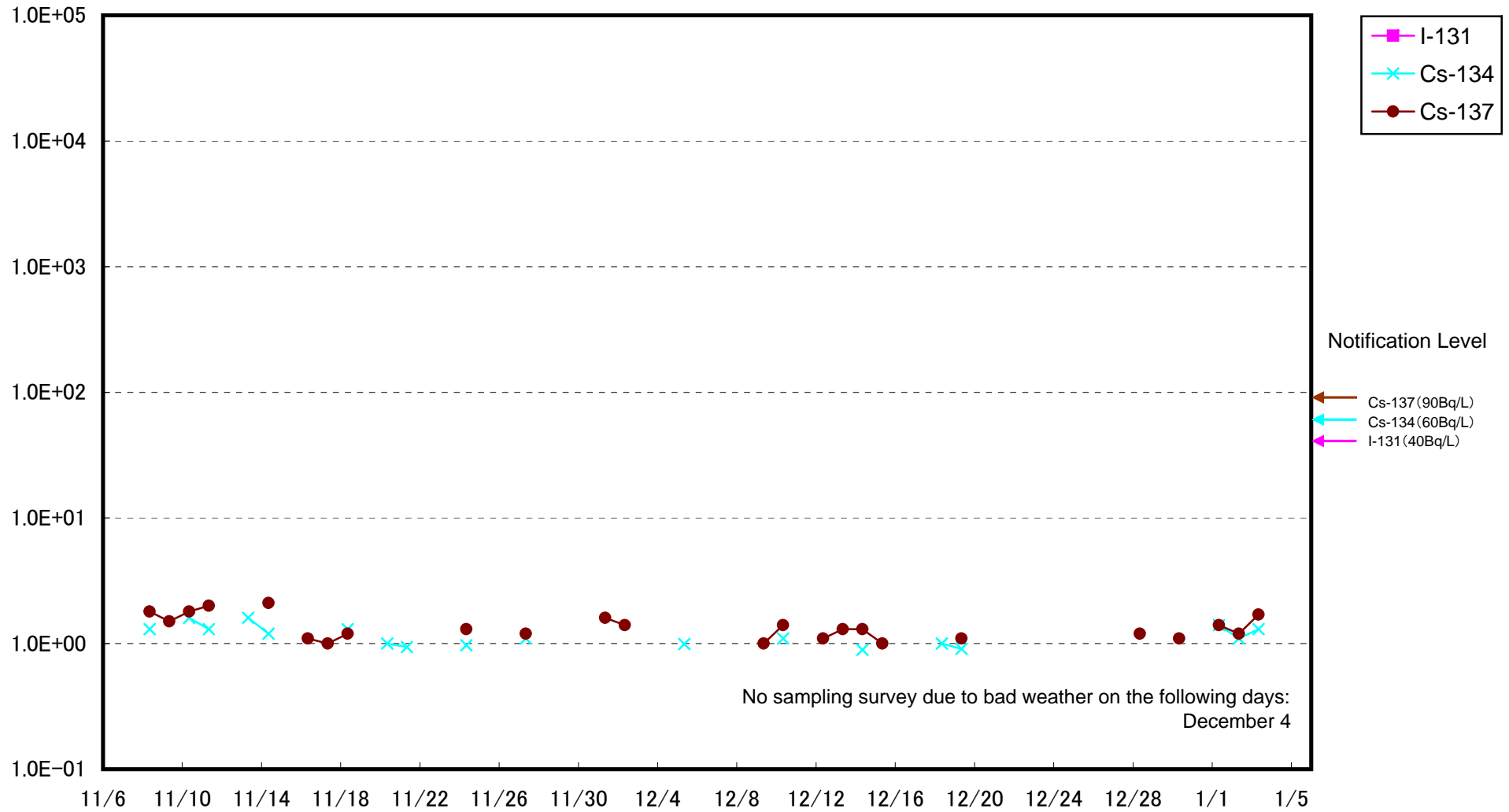
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



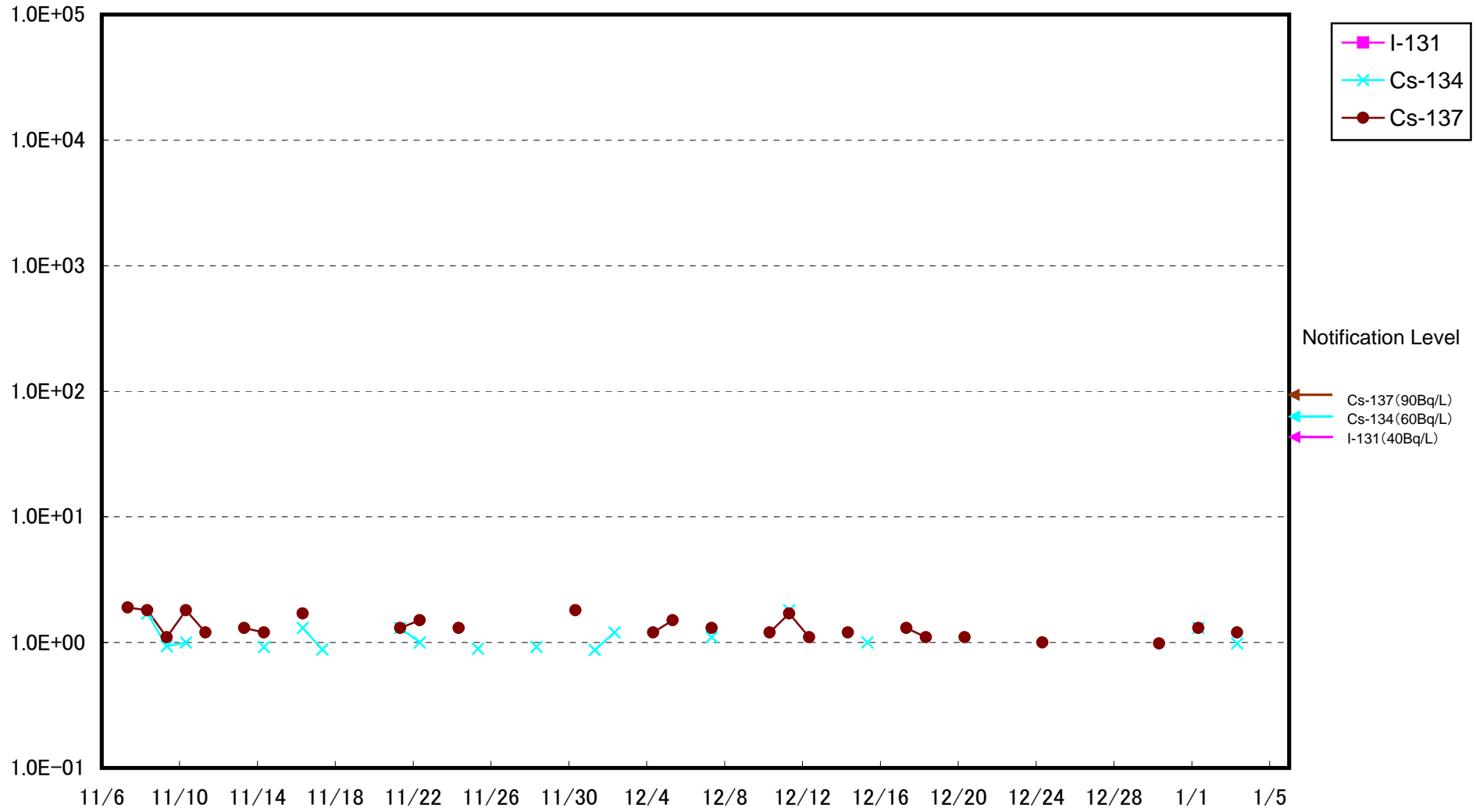
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)



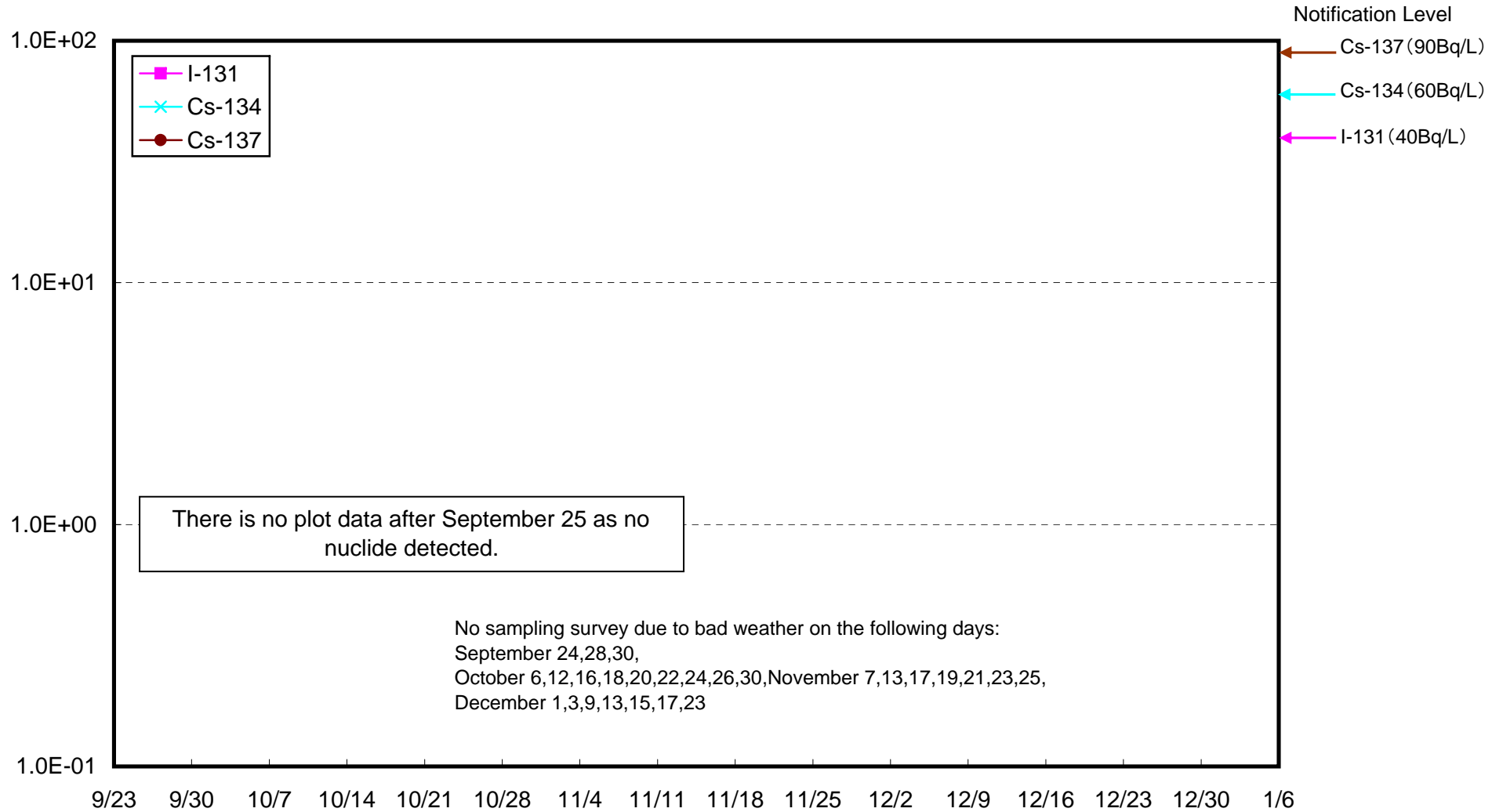
Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)



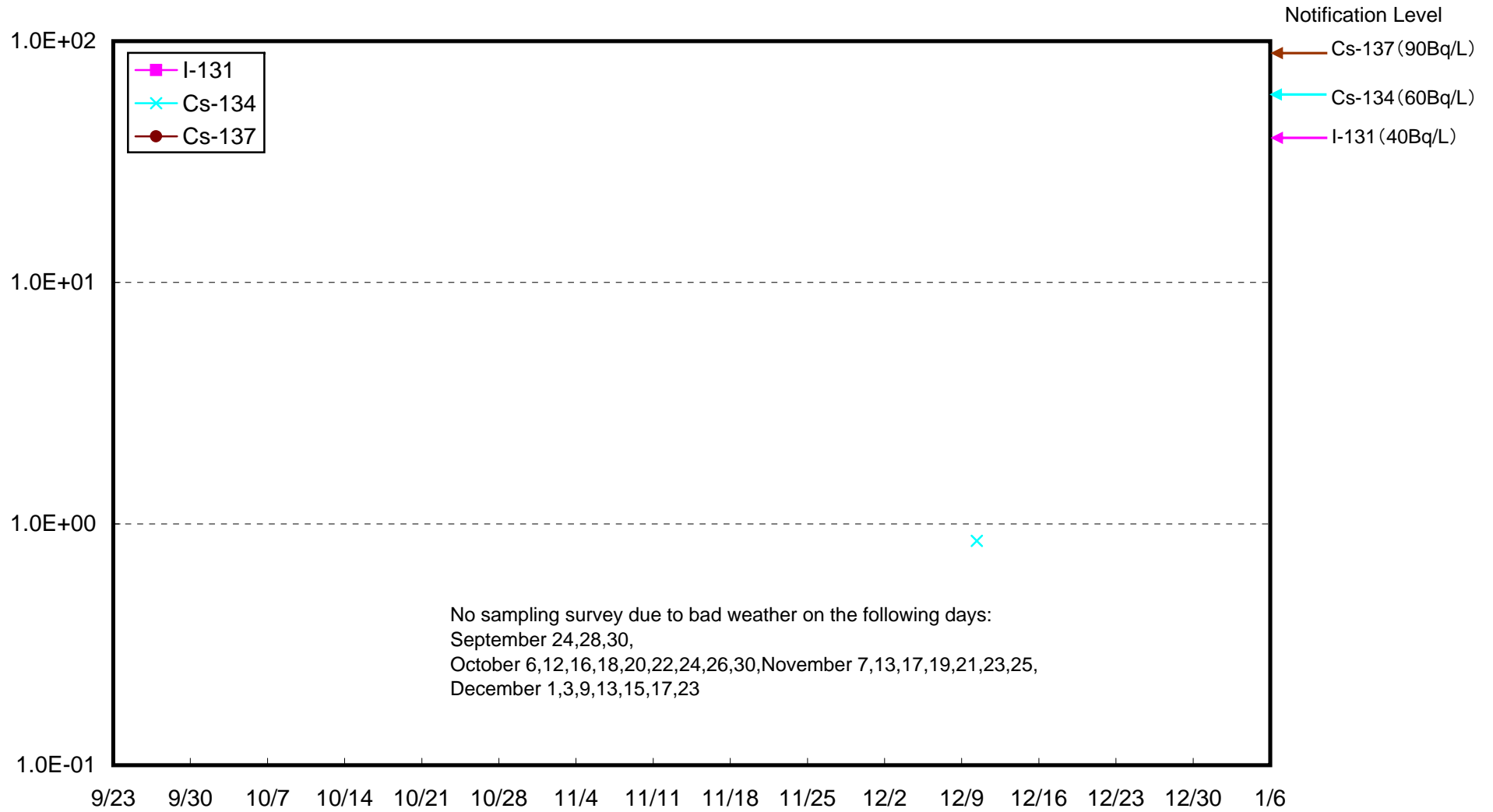
Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)



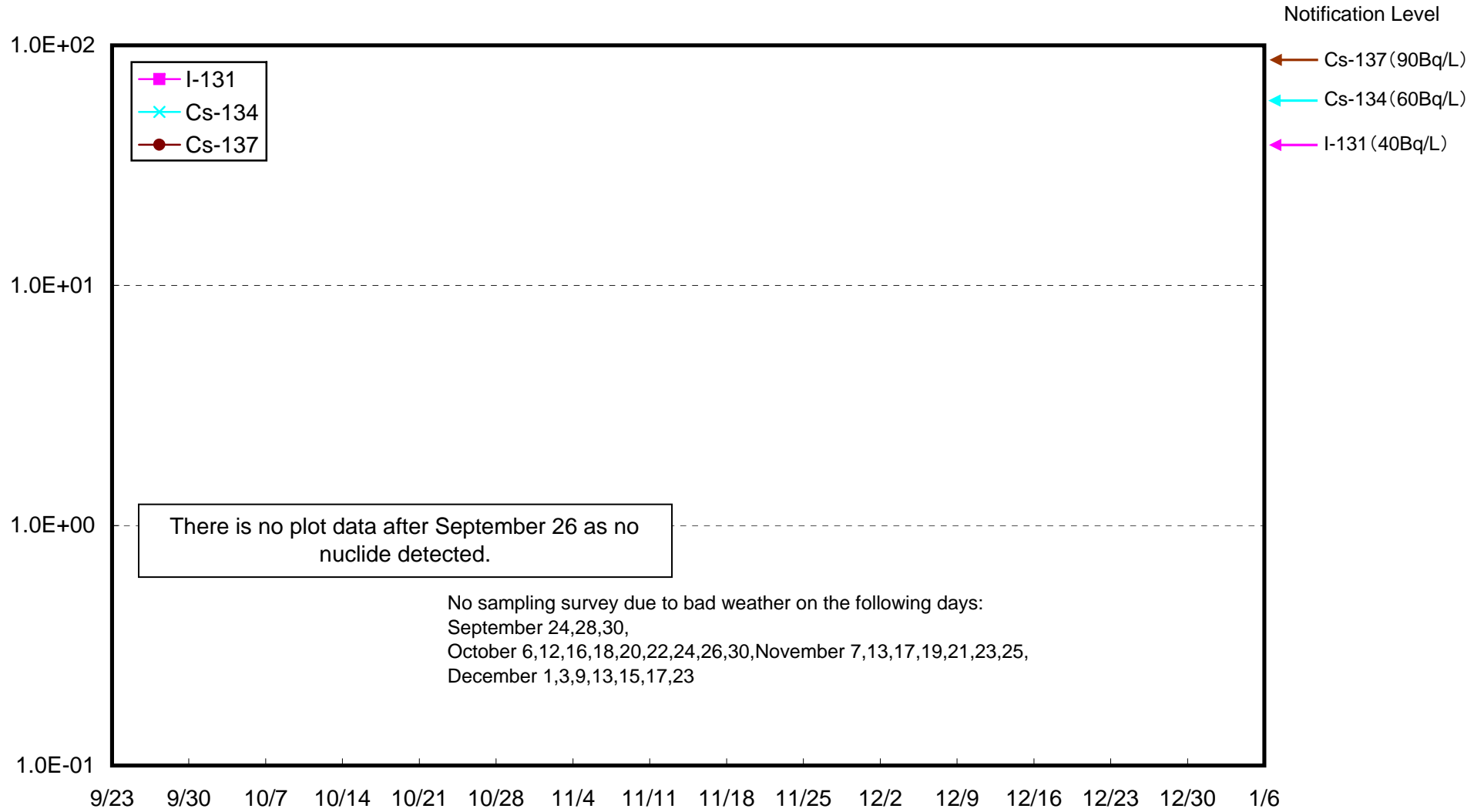
Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Fukushima Daiichi NPS (Bq/L)



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)



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

