Nuclide Analysis Results of Radioactive Materials in Seawater <Coast>

Reference

(Data summarized on February 6)

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 (appox. 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 (appox. 7 km south of 1,2u Discharge Channel) (appox. 16 km from 1F)		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	Feb 05, 2012 08:25 am		Feb 05, 2012 08:10 am		Feb 05, 2012 08:15 am		Feb 05, 2012 07:55 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)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	2.5	0.04	1.6	0.03	ND	-	ND	-	60
Cs-137 (about 30 years)	3.1	0.03	1.9	0.02	1.4	0.02	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. 0.88Bq/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 detector or samples.

Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore>

Reference

(Data summarized on February 6)

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	Feb 04, 2012 (Not sampled)		Feb 04, 2012 (Not sampled)		Feb 04, 2012 (Not sampled)		Feb 04, 2012 (Not sampled)		Feb 04, 2012 08:15 am		Feb 04, 2012 08:15 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	Feb 04, 2012 10:00 am		Feb 04, 2012 10:00 am		Feb 04, 2012 08:40 am		Feb 04, 2012 08:40 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	-	ND	-	ND	-					40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-					60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-					90

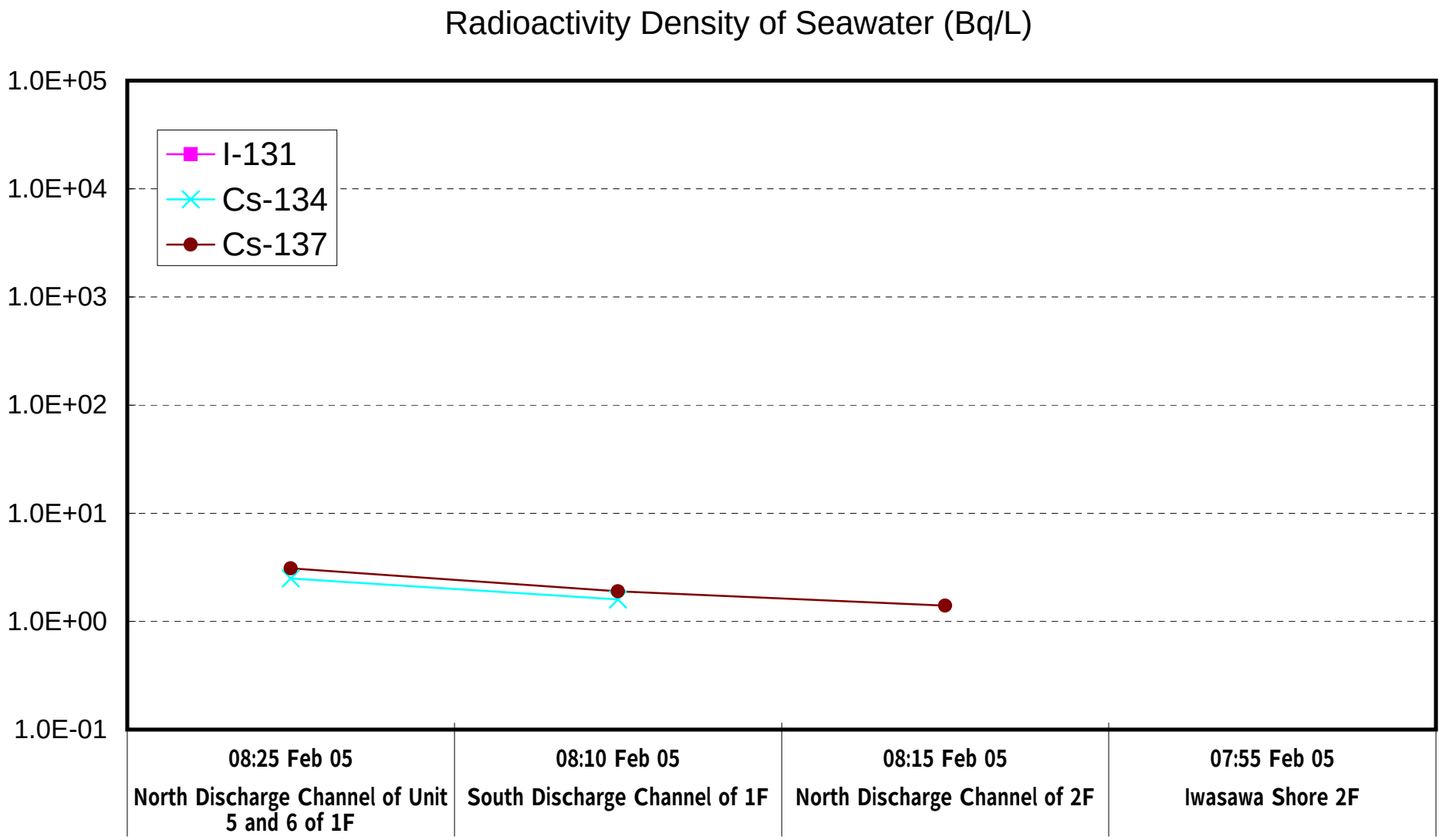
* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

* Data of other nuclides are under evaluation.

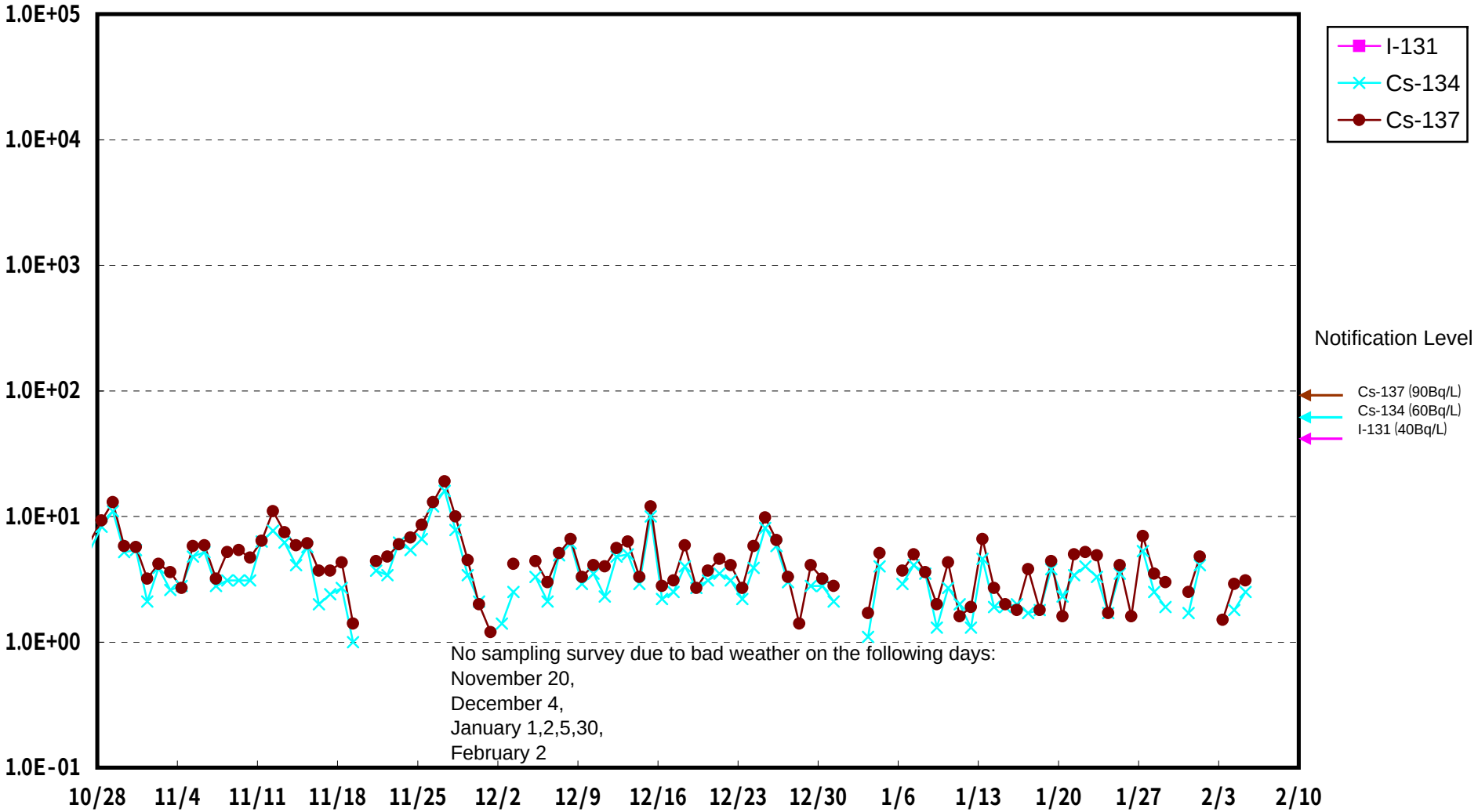
No sampling was conducted at 2 points out of 5 due to the bad weather.

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

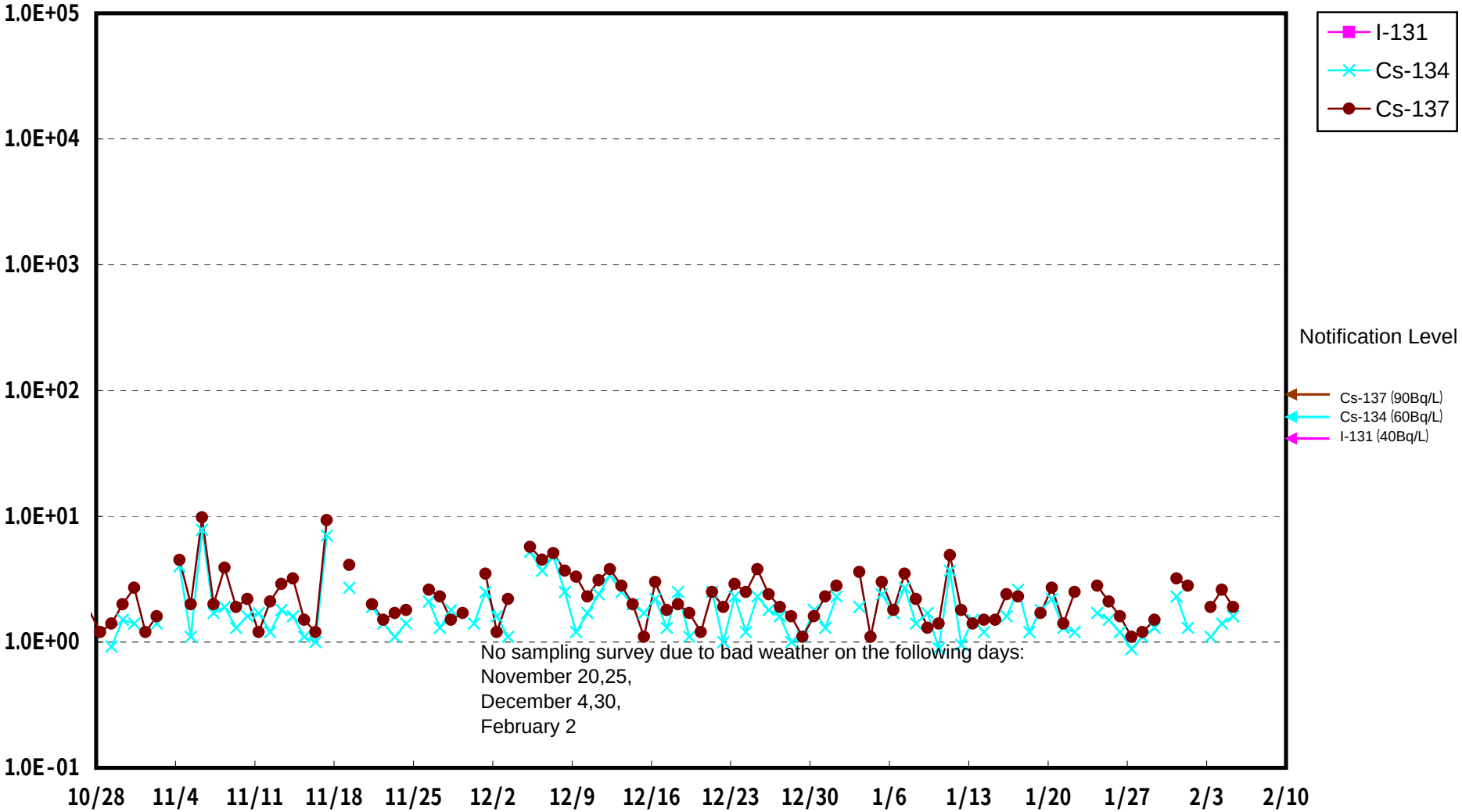
* "ND" means the sampled data is below measurable limit.
I-131: approx. 0.89Bq/L, Cs-134: approx. 0.96Bq/L, Cs-137: approx. 1.1Bq/L
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detect


Radioactivity Density of Seawater (Bq/L)
1.0E+05
1.0E+04
1.0E+03
1.0E+02
1.0E+01
1.0E+00
1.0E-01
I-131
Cs-134
Cs-137
08:25 Feb 05
North Discharge Channel of Unit 5 and 6 of 1F
08:10 Feb 05
South Discharge Channel of 1F
08:15 Feb 05
North Discharge Channel of 2F
07:55 Feb 05
Iwasawa Shore 2F

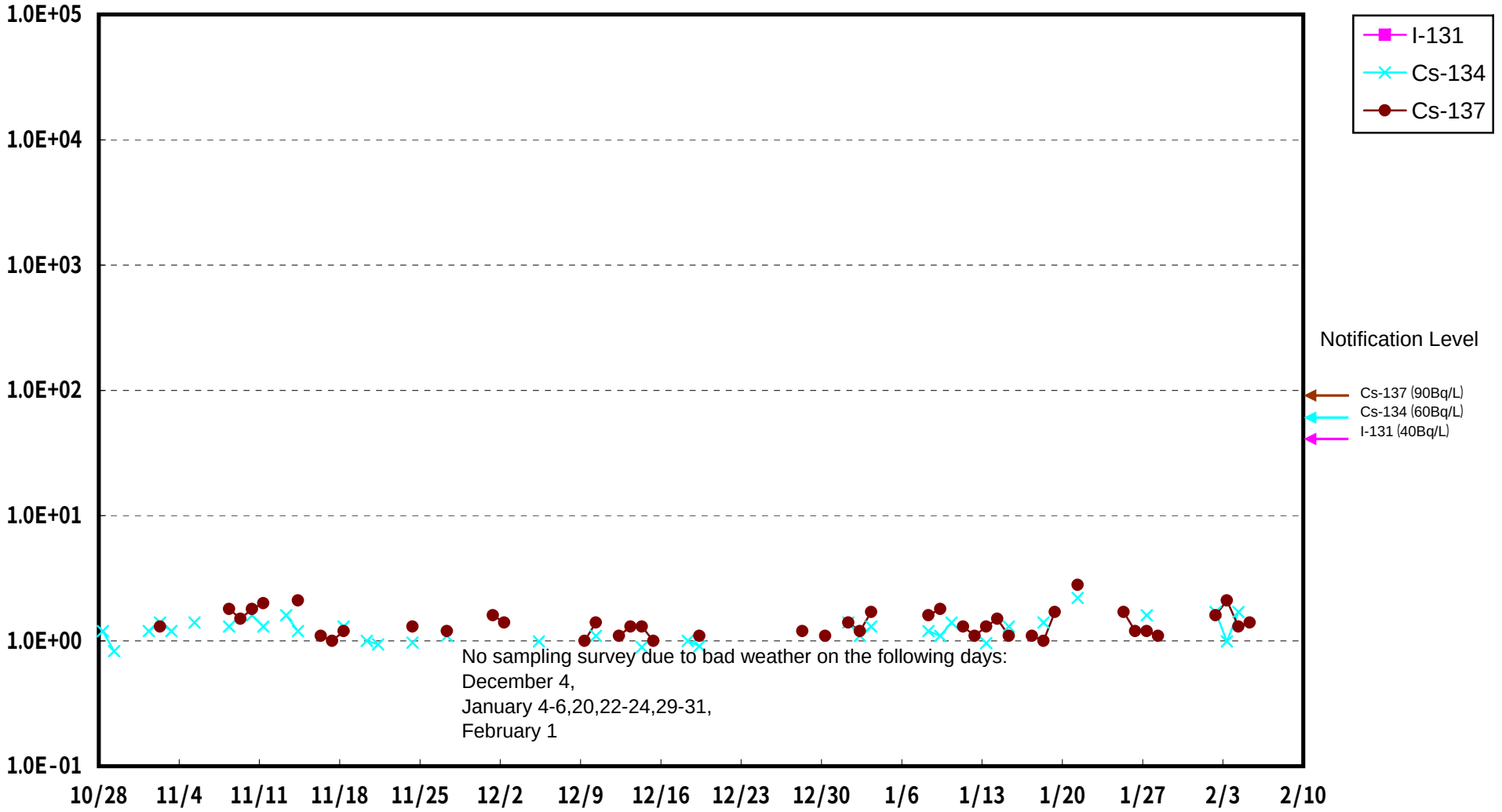
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



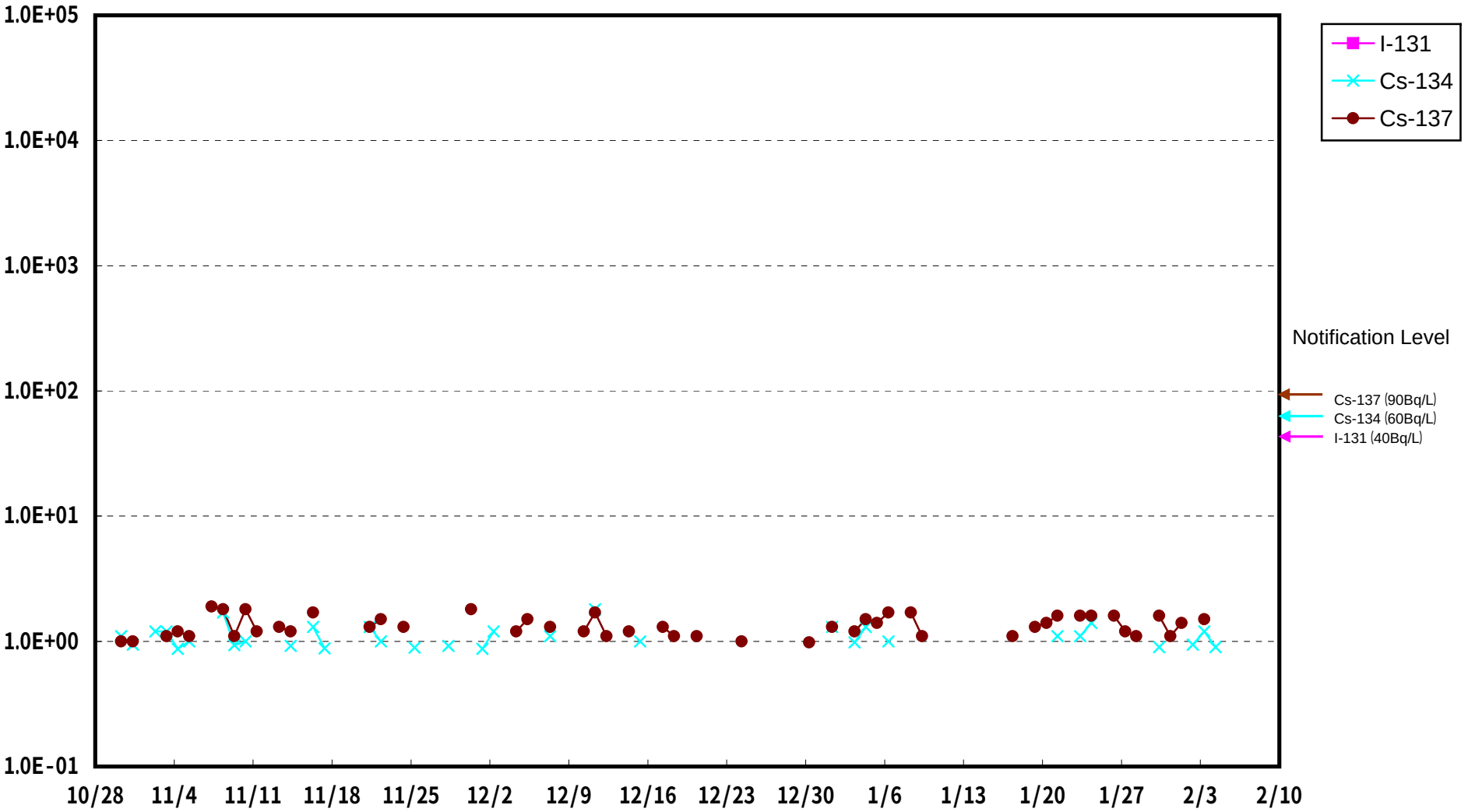
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)

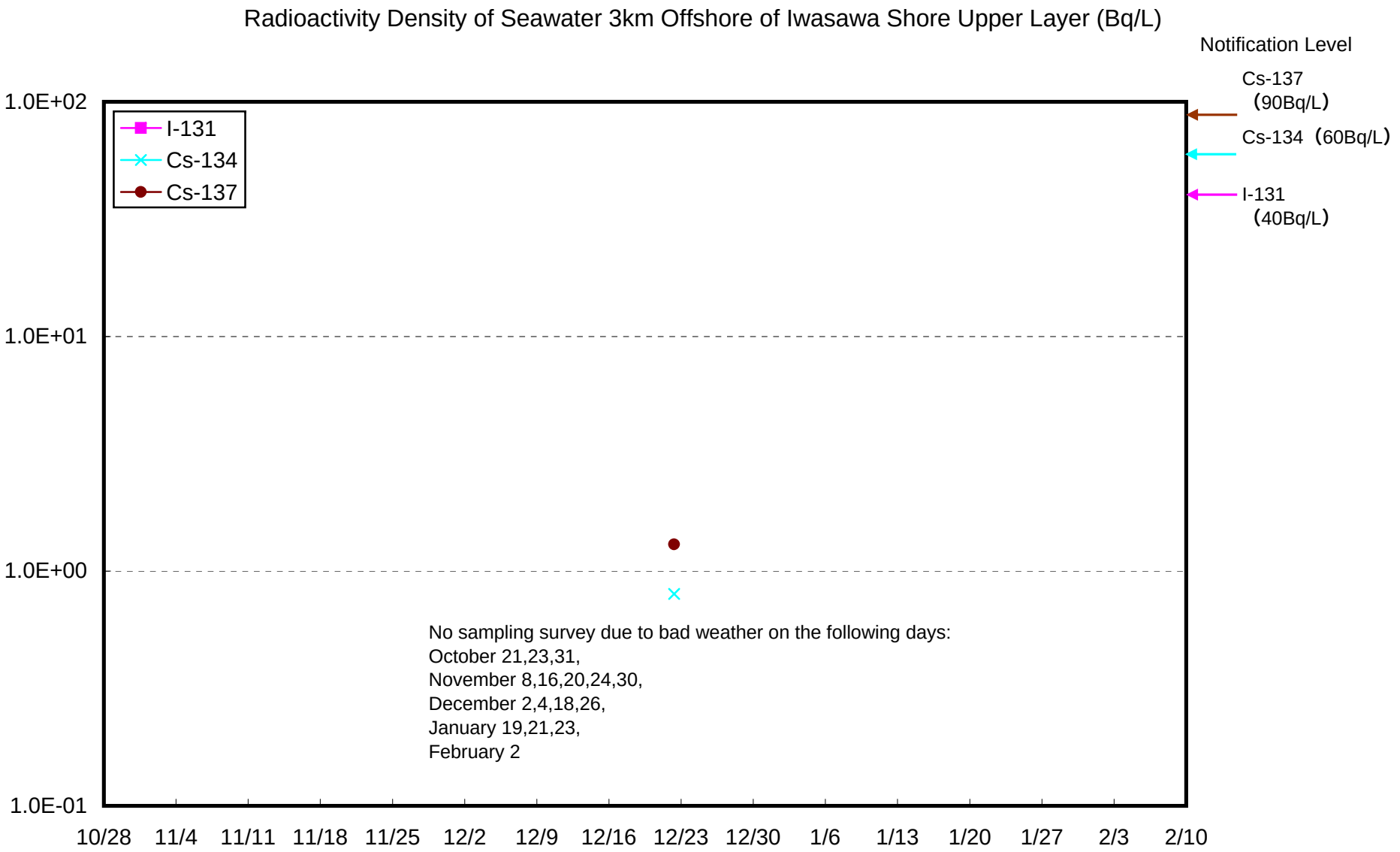


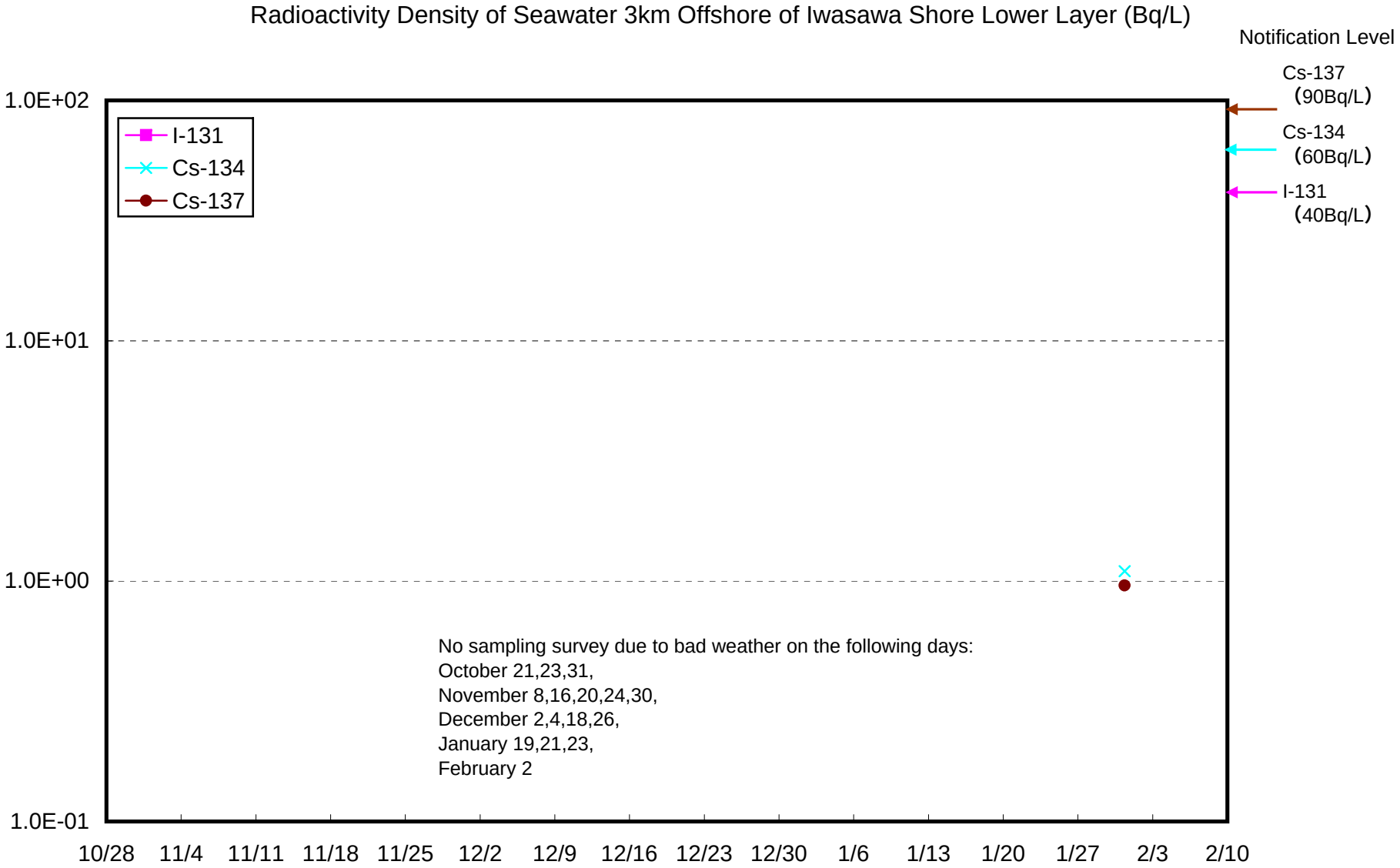
Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)

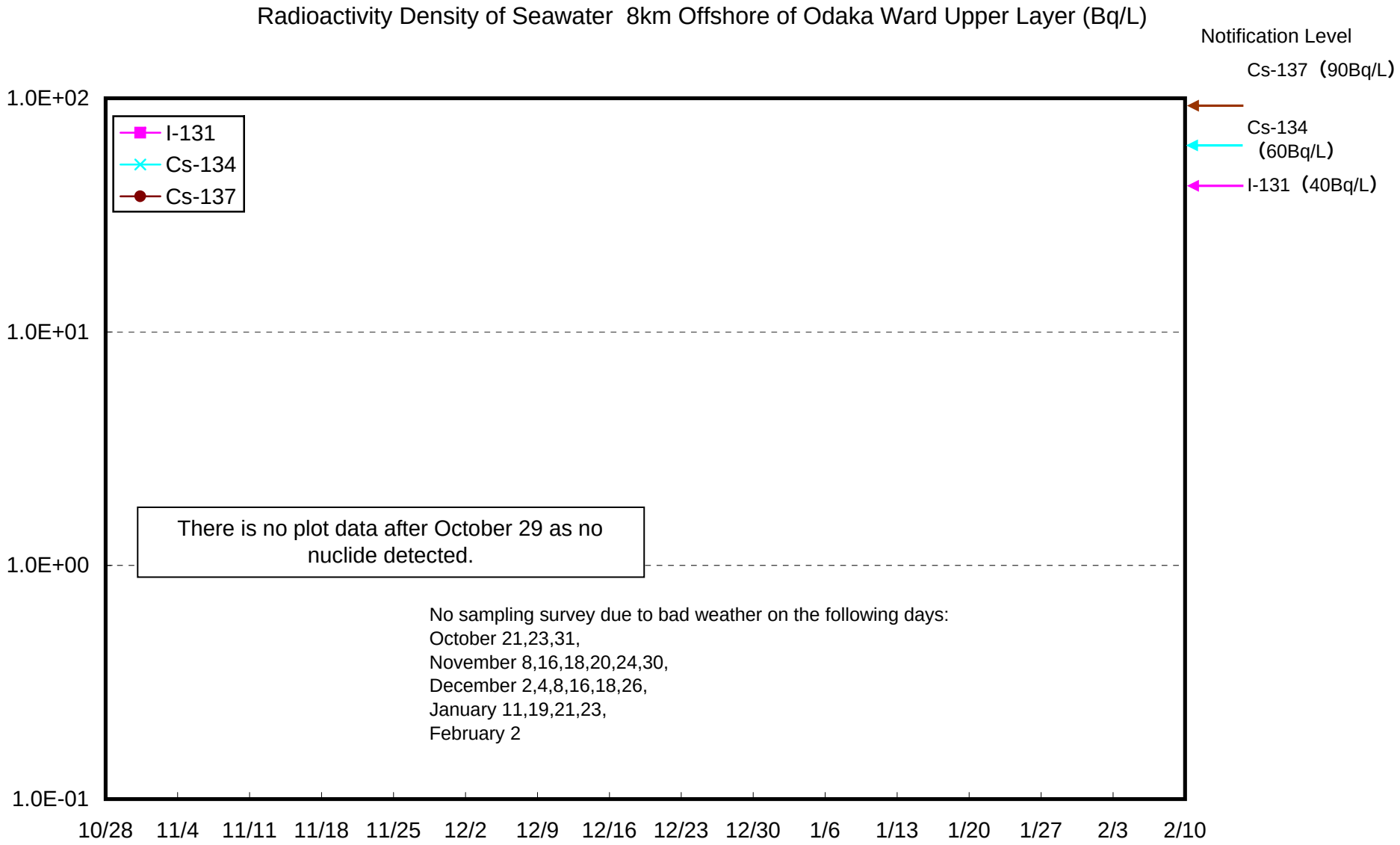


Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)




Radioactivity Density of Seawater 3km Offshore of Iwasawa Shore Upper Layer (Bq/L)
Notification Level
Cs-137
（90Bq/L）
Cs-134（60Bq/L）
I-131
（40Bq/L）
I-131
Cs-134
Cs-137
1.0E+02
1.0E+01
1.0E+00
1.0E-01
No sampling survey due to bad weather on the following days:
October 21,23,31,
November 8,16,20,24,30,
December 2,4,18,26,
January 19,21,23,
February 2
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
2/10


Radioactivity Density of Seawater 3km Offshore of Iwasawa Shore Lower Layer (Bq/L)
Notification Level
Cs-137
(90Bq/L)
Cs-134
(60Bq/L)
I-131
(40Bq/L)
I-131
Cs-134
Cs-137
1.0E+02
1.0E+01
1.0E+00
1.0E-01
No sampling survey due to bad weather on the following days:
October 21,23,31,
November 8,16,20,24,30,
December 2,4,18,26,
January 19,21,23,
February 2
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
2/10


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
1.0E+00
1.0E-01
I-131
Cs-134
Cs-137
There is no plot data after October 29 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 21,23,31,
November 8,16,18,20,24,30,
December 2,4,8,16,18,26,
January 11,19,21,23,
February 2
10/28
11/4
11/11
11/18
11/25
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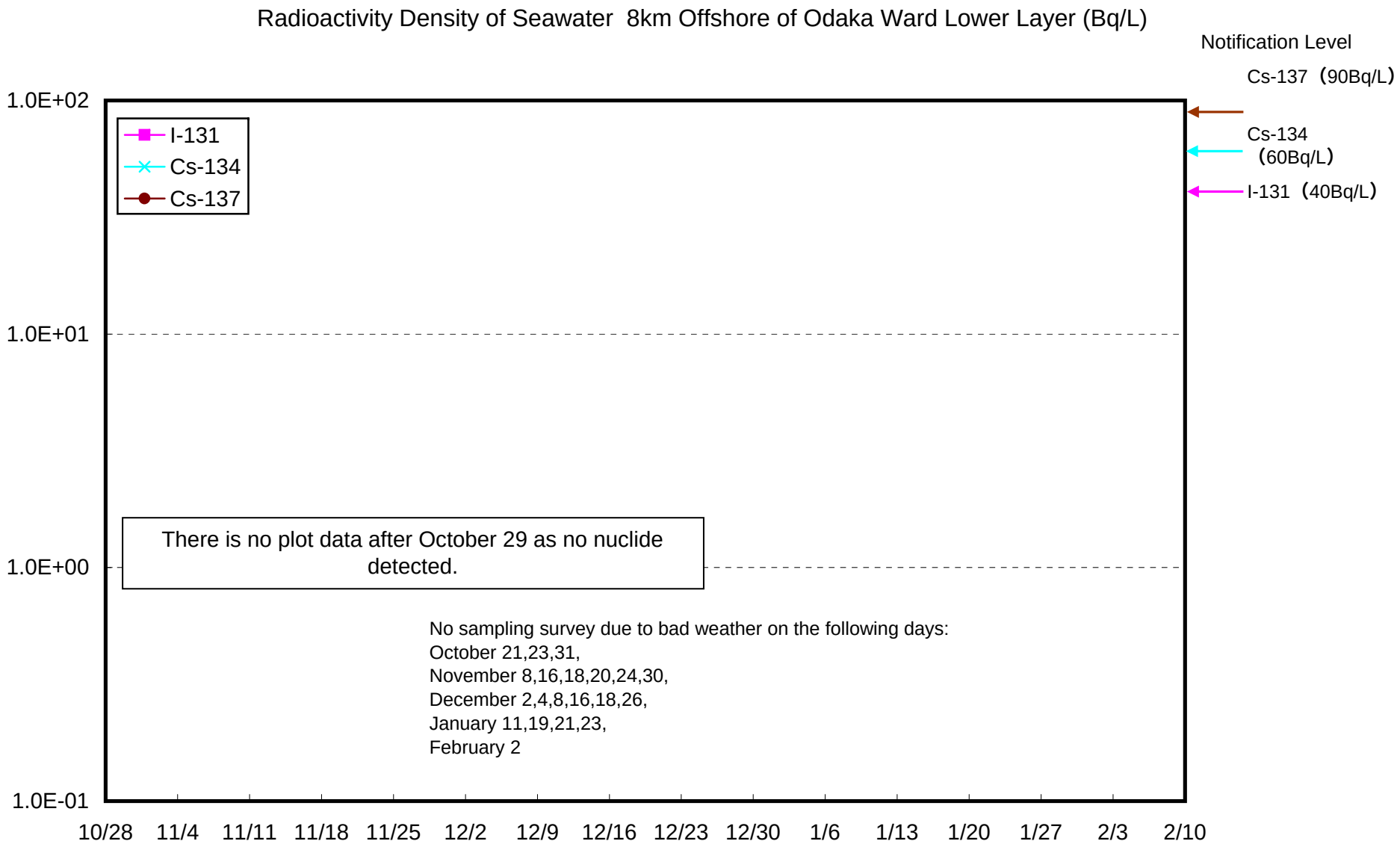
12/16
12/23
12/30
1/6
1/13
1/20
1/27
2/3
2/10


Radioactivity Density of Seawater 8km Offshore of Odaka Ward 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
I-131
Cs-134
Cs-137
There is no plot data after October 29 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 21,23,31,
November 8,16,18,20,24,30,
December 2,4,8,16,18,26,
January 11,19,21,23,
February 2
10/28
11/4
11/11
11/18
11/25
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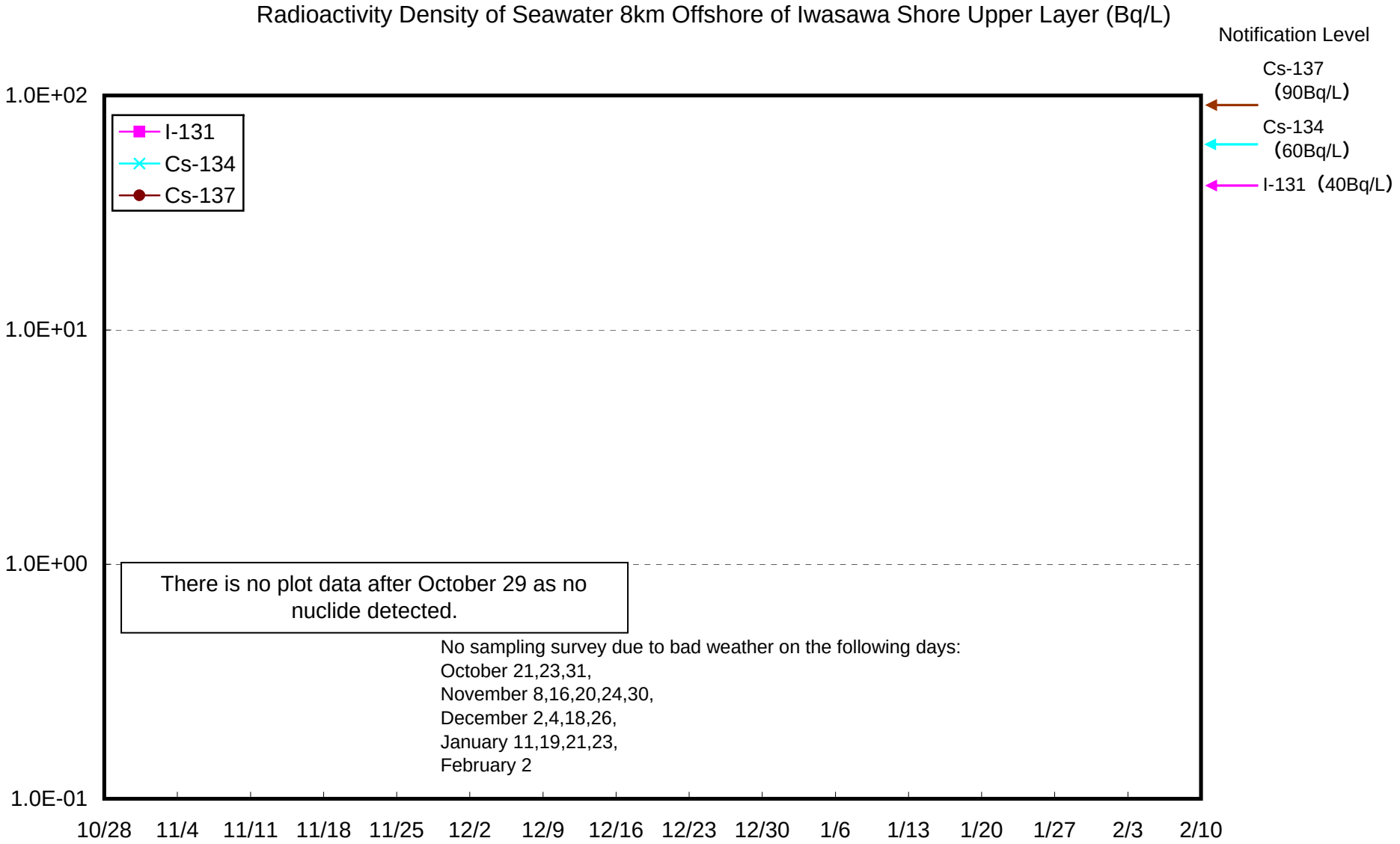
12/30
1/6
1/13
1/20
1/27
2/3
2/10


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
1.0E+00
1.0E-01
I-131
Cs-134
Cs-137
There is no plot data after October 29 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 21,23,31,
November 8,16,20,24,30,
December 2,4,18,26,
January 11,19,21,23,
February 2
10/28
11/4
11/11
11/18
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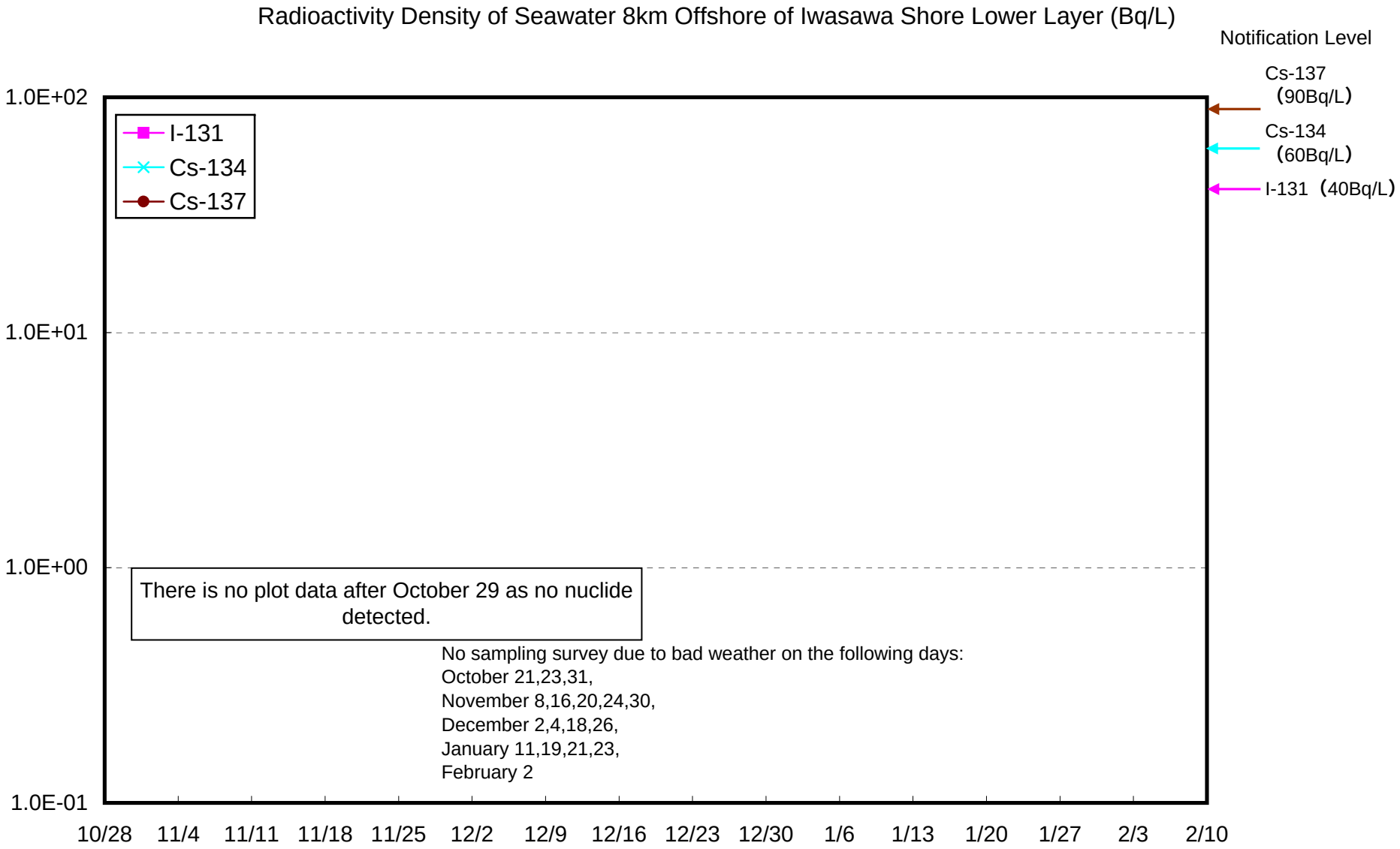
1/6
1/13
1/20
1/27
2/3
2/10


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
1.0E+00
1.0E-01
I-131
Cs-134
Cs-137
There is no plot data after October 29 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 21,23,31,
November 8,16,20,24,30,
December 2,4,18,26,
January 11,19,21,23,
February 2
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
2/10