Nuclide Analysis Results of Radioactive Materials in Seawater <Coast>

Reference

(Data summarized on January 7)

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)		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	Jan 06, 2012 08:40 am		Jan 06, 2012 08:20 am		Jan 06, 2012 (Not sampled)		Jan 06, 2012 08:05 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	-	40
Cs-134 (about 2 years)	2.9	0.05	1.7	0.03	-	-	1.0	0.02	60
Cs-137 (about 30 years)	3.7	0.04	1.8	0.02	-	-	1.7	0.02	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.

Partially 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. 0.64Bq/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 7)

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	Jan 05, 2012 09:30 am		Jan 05, 2012 09:30 am		Jan 05, 2012 10:00 am		Jan 05, 2012 10:00 am		Jan 05, 2012 07:30 am		Jan 05, 2012 07:30 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	-	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

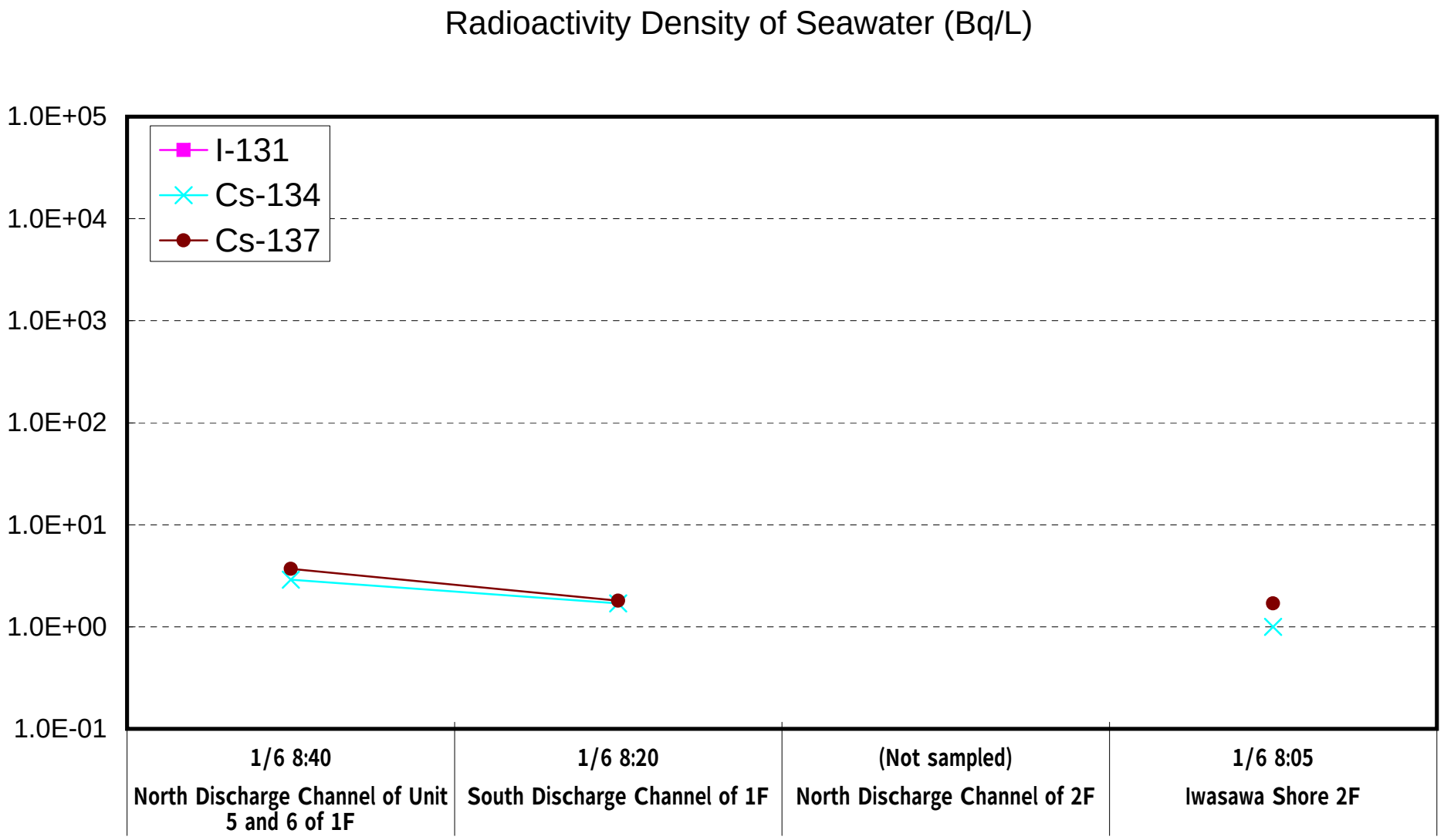
Place of Sampling	8 km offshore of Odaka Ward Upper Layer		8 km offshore of Odaka Ward Lower Layer		8 km offshore of Iwasawa shore Upper Layer		8 km offshore of Iwasawa shore Lower Layer						② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time of Sampling	Jan 05, 2012 09:10 am		Jan 05, 2012 09:10 am		Jan 05, 2012 08:00 am		Jan 05, 2012 08:00 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.

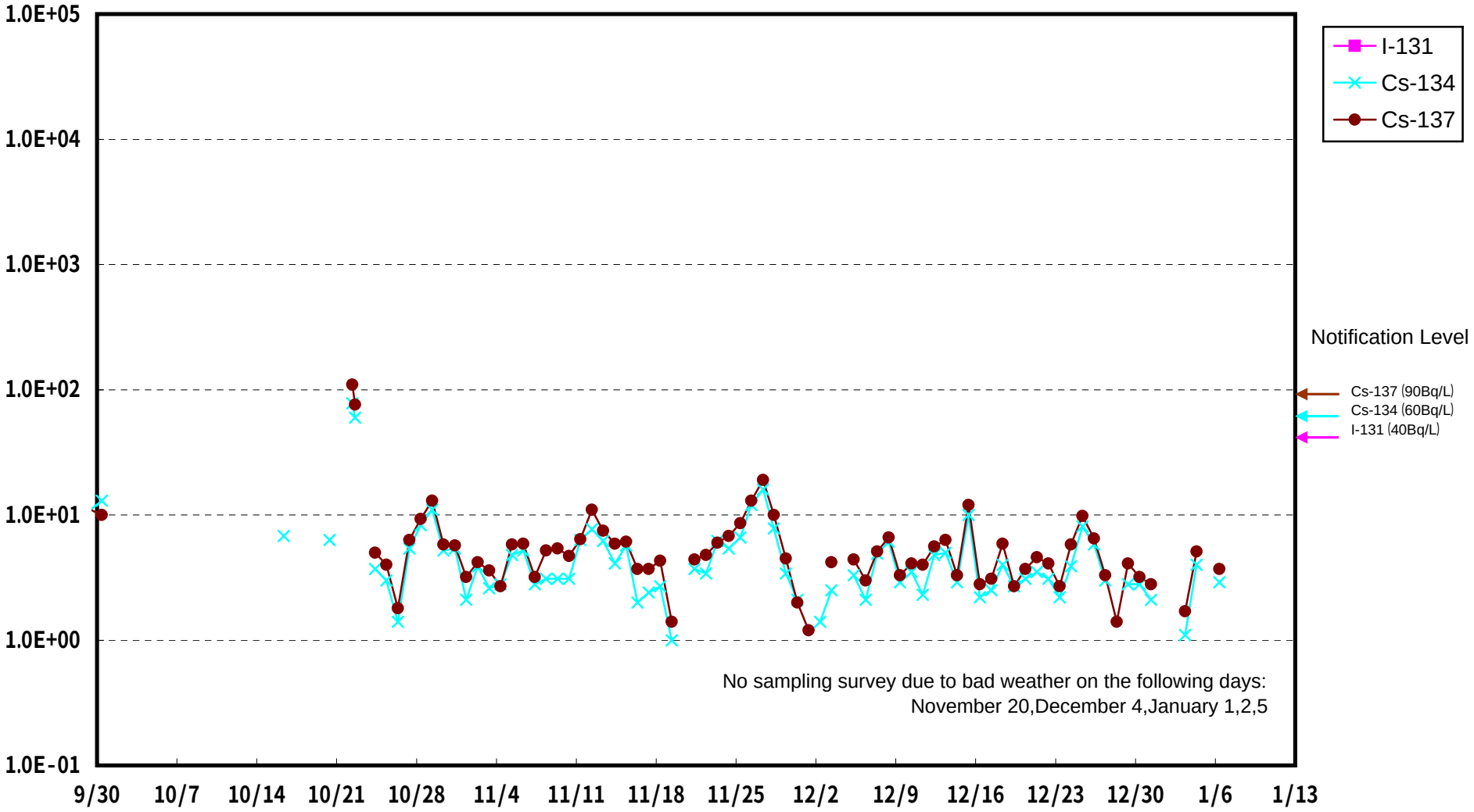
* Data of other nuclides are under evaluation.

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

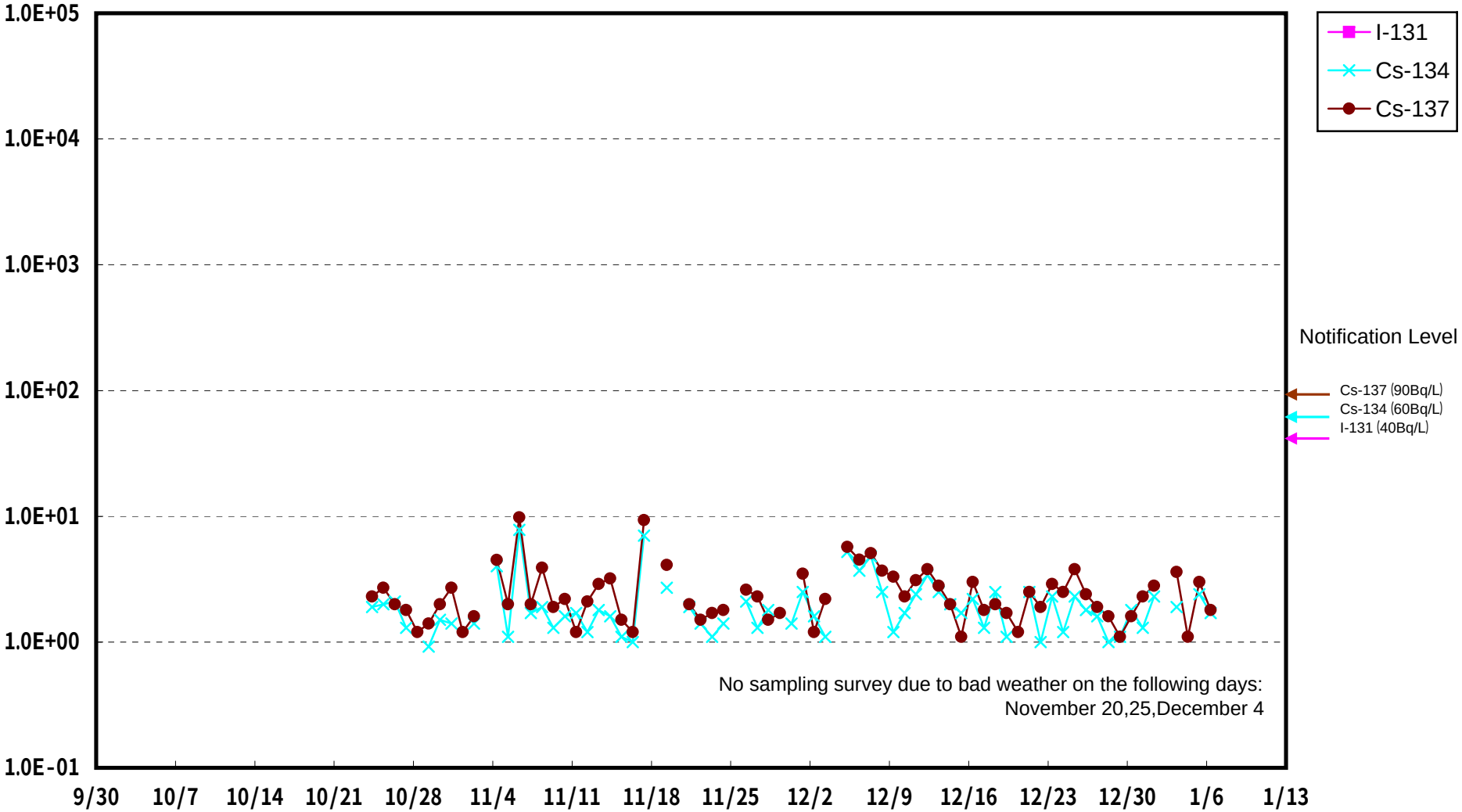
* "ND" means the sampled data is below measurable limit.
I-131: approx. 0.72Bq/L, Cs-134: approx. 0.94Bq/L, Cs-137: approx. 1.1Bq/L
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.


Radioactivity Density of Seawater (Bq/L)
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
1/6 8:40
North Discharge Channel of Unit 5 and 6 of 1F
1/6 8:20
South Discharge Channel of 1F
(Not sampled)
North Discharge Channel of 2F
1/6 8:05
Iwasawa Shore 2F

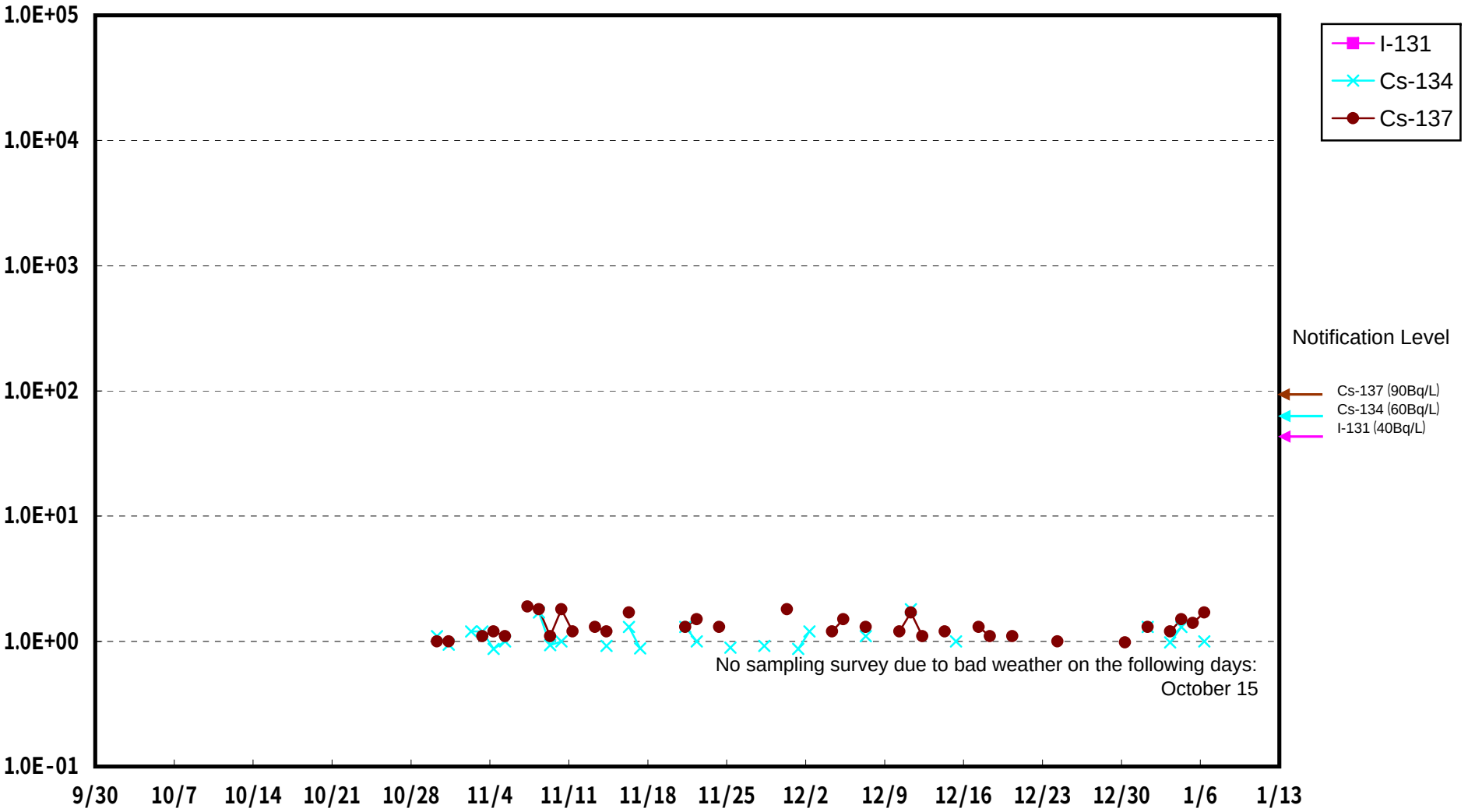
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)

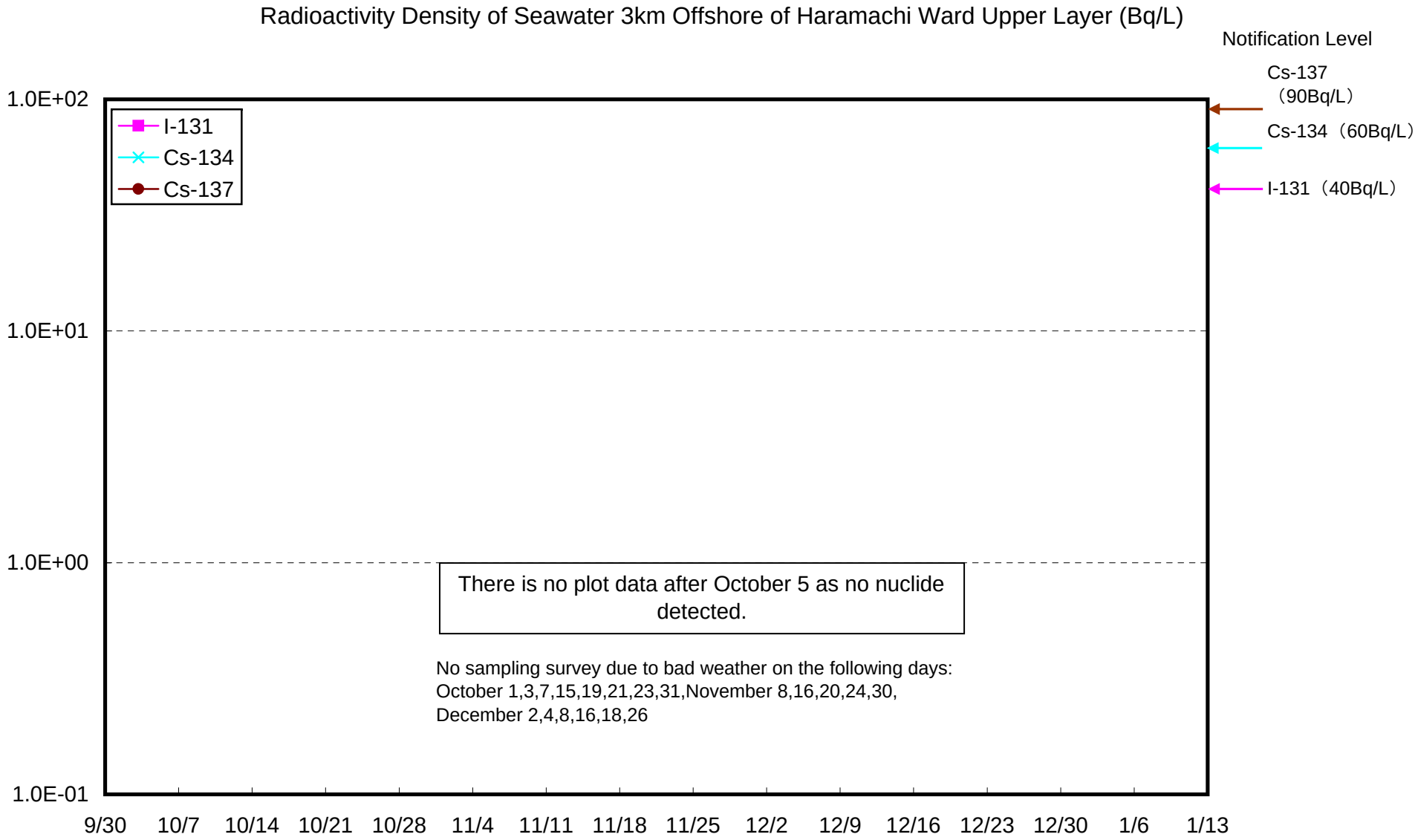


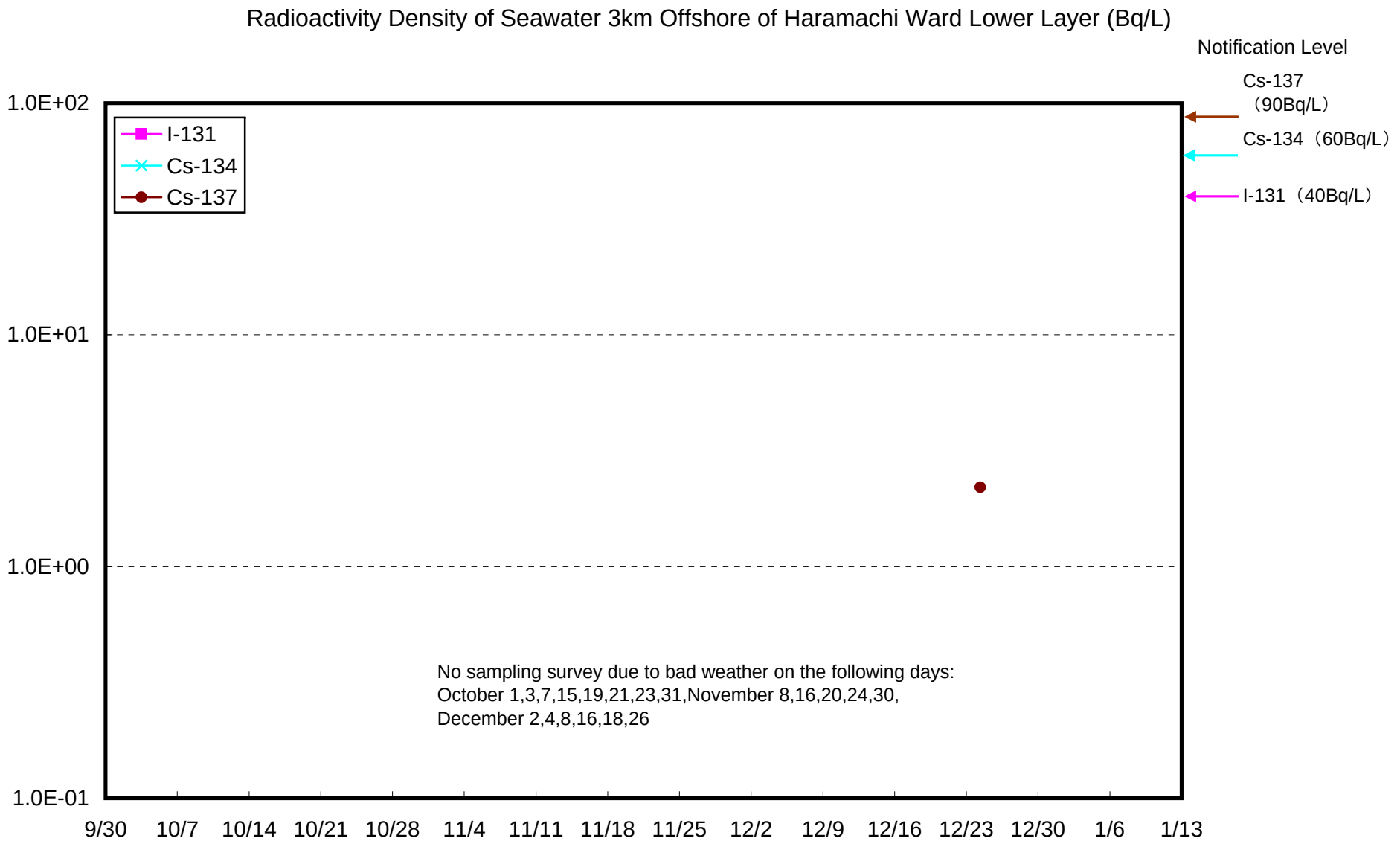
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)

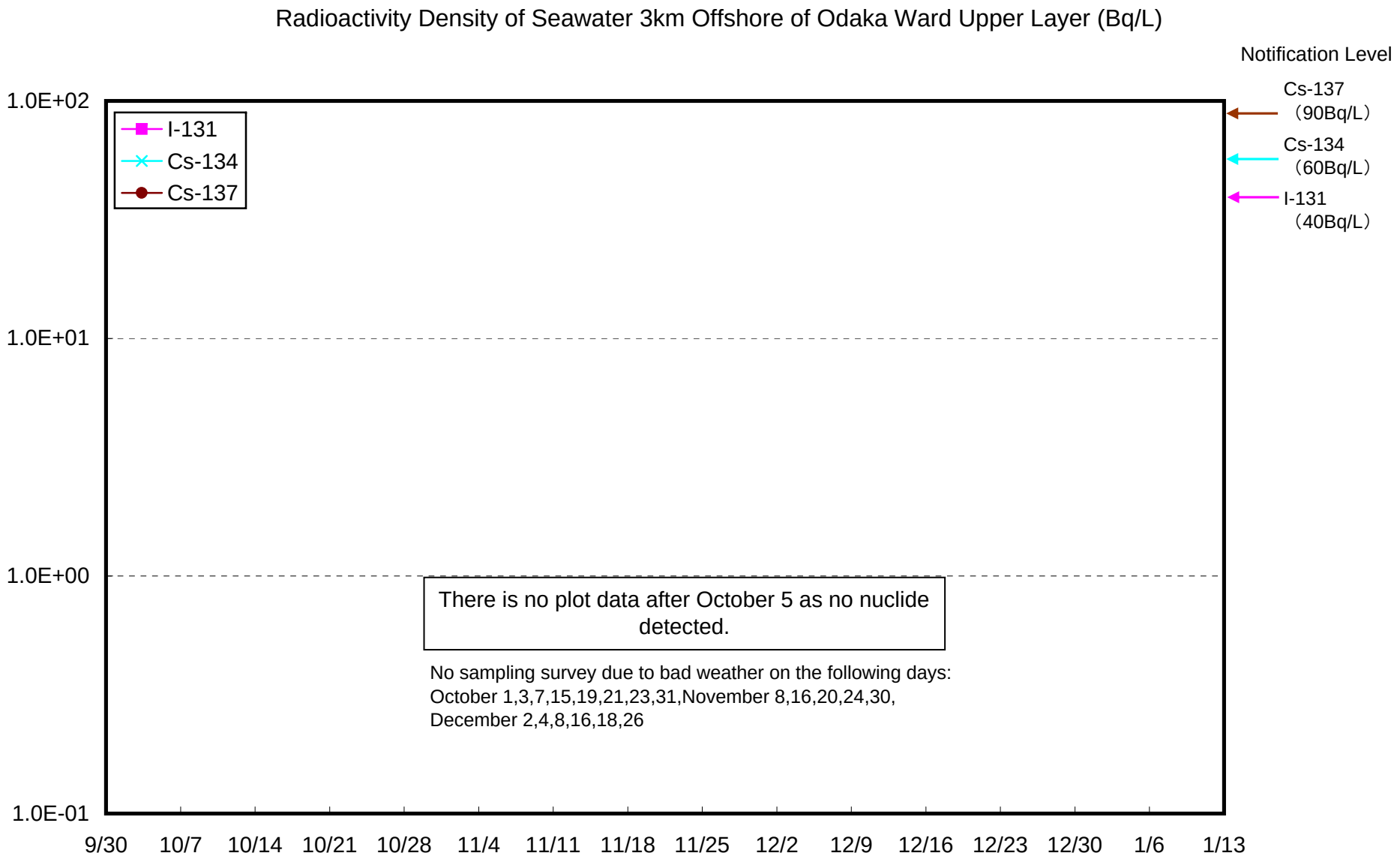


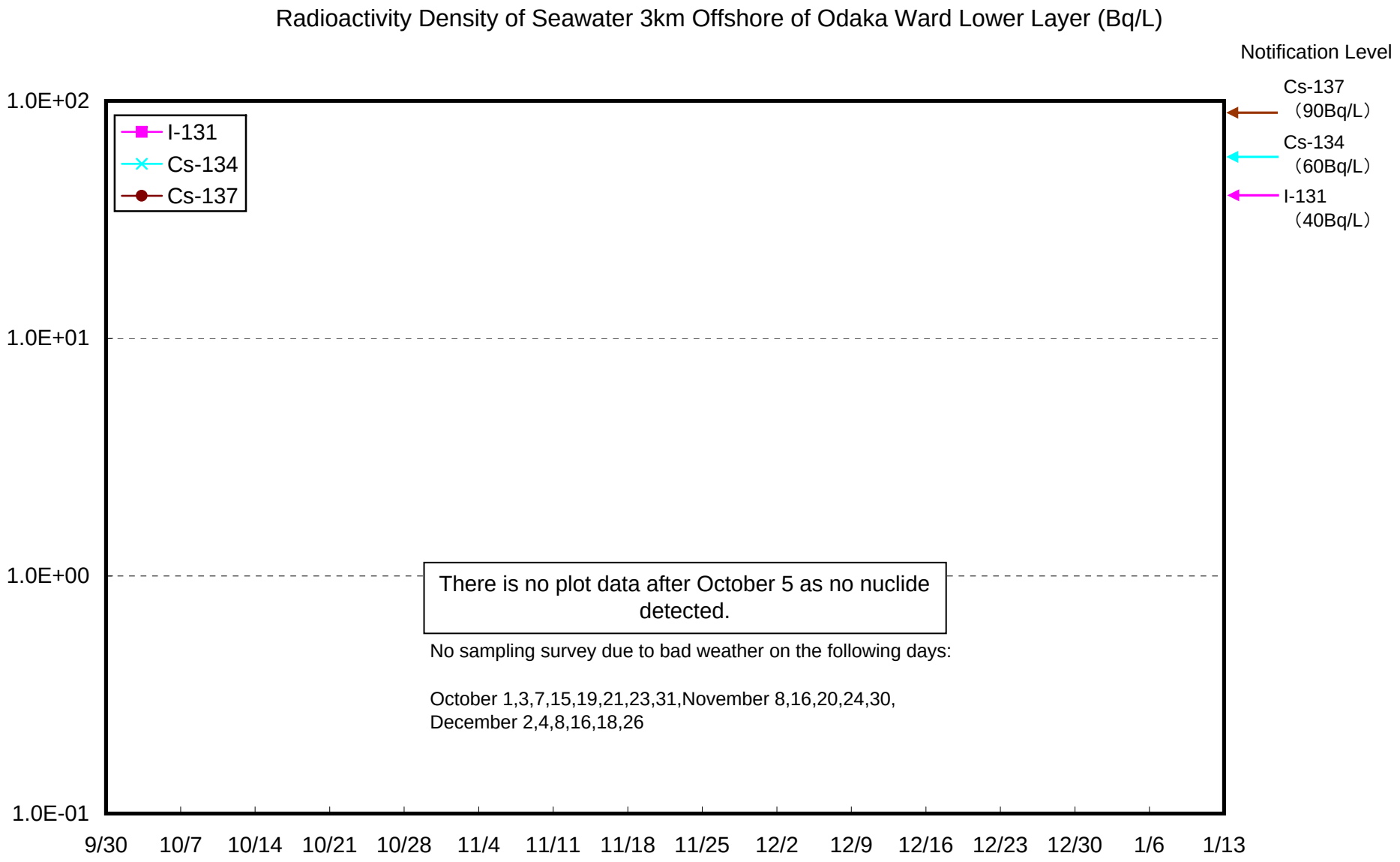
Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

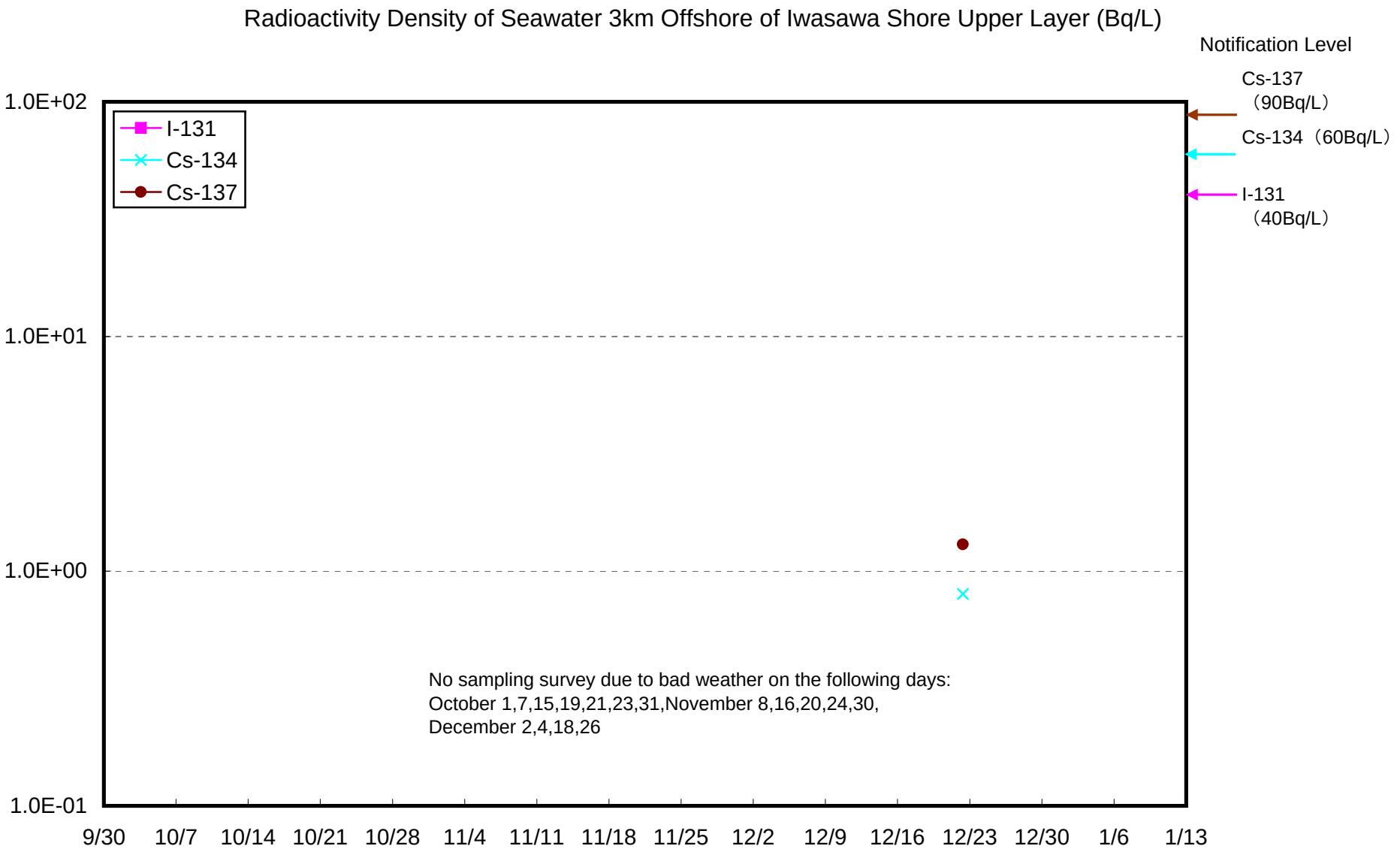


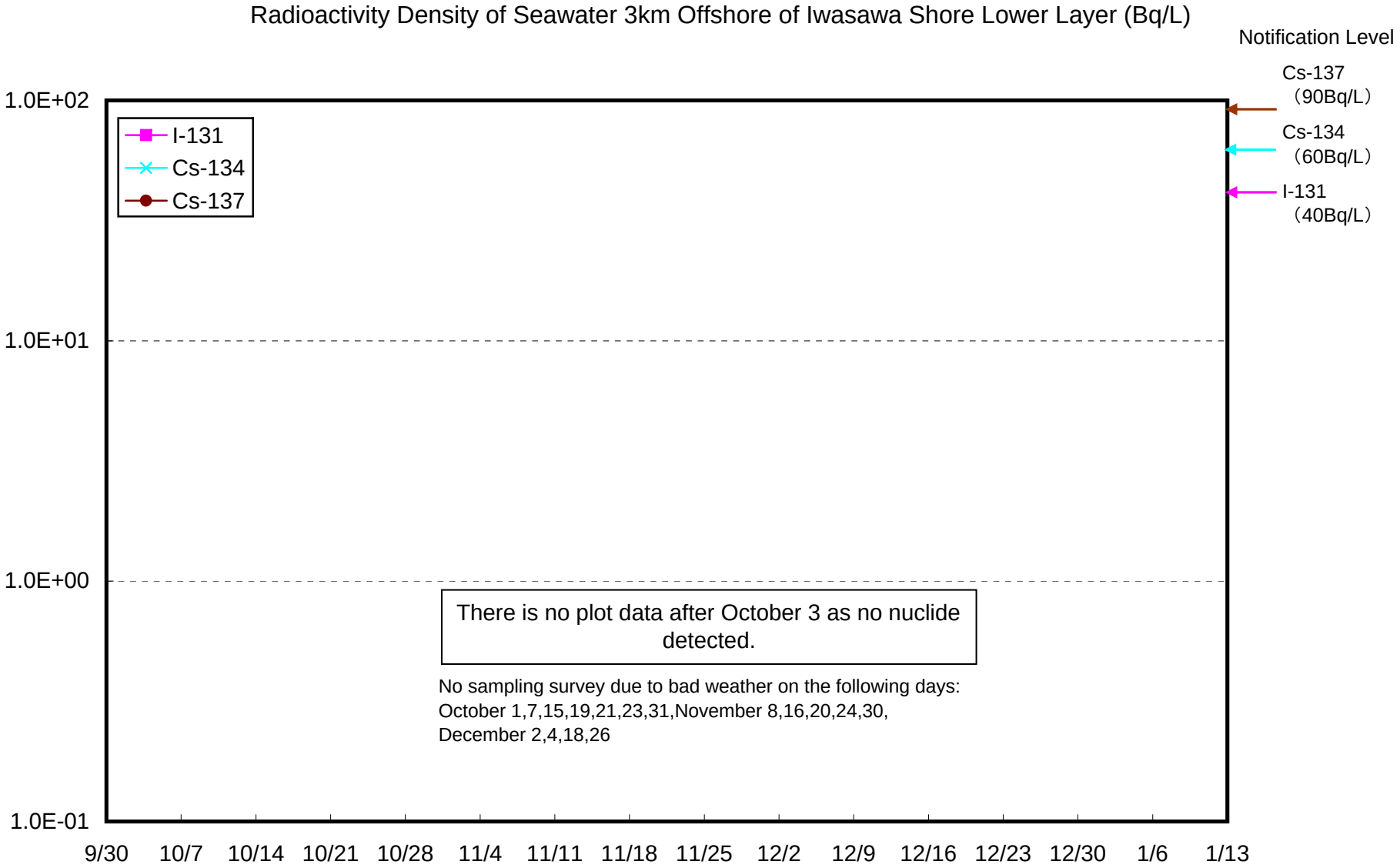

Radioactivity Density of Seawater 3km Offshore of Haramachi Ward Upper Layer (Bq/L)
Notification Level
Cs-137
（90Bq/L）
Cs-134（60Bq/L）
I-131（40Bq/L）
1.0E+02
1.0E+01
1.0E+00
1.0E-01
I-131
Cs-134
Cs-137
There is no plot data after October 5 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,3,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,8,16,18,26
9/30
10/7
10/14
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

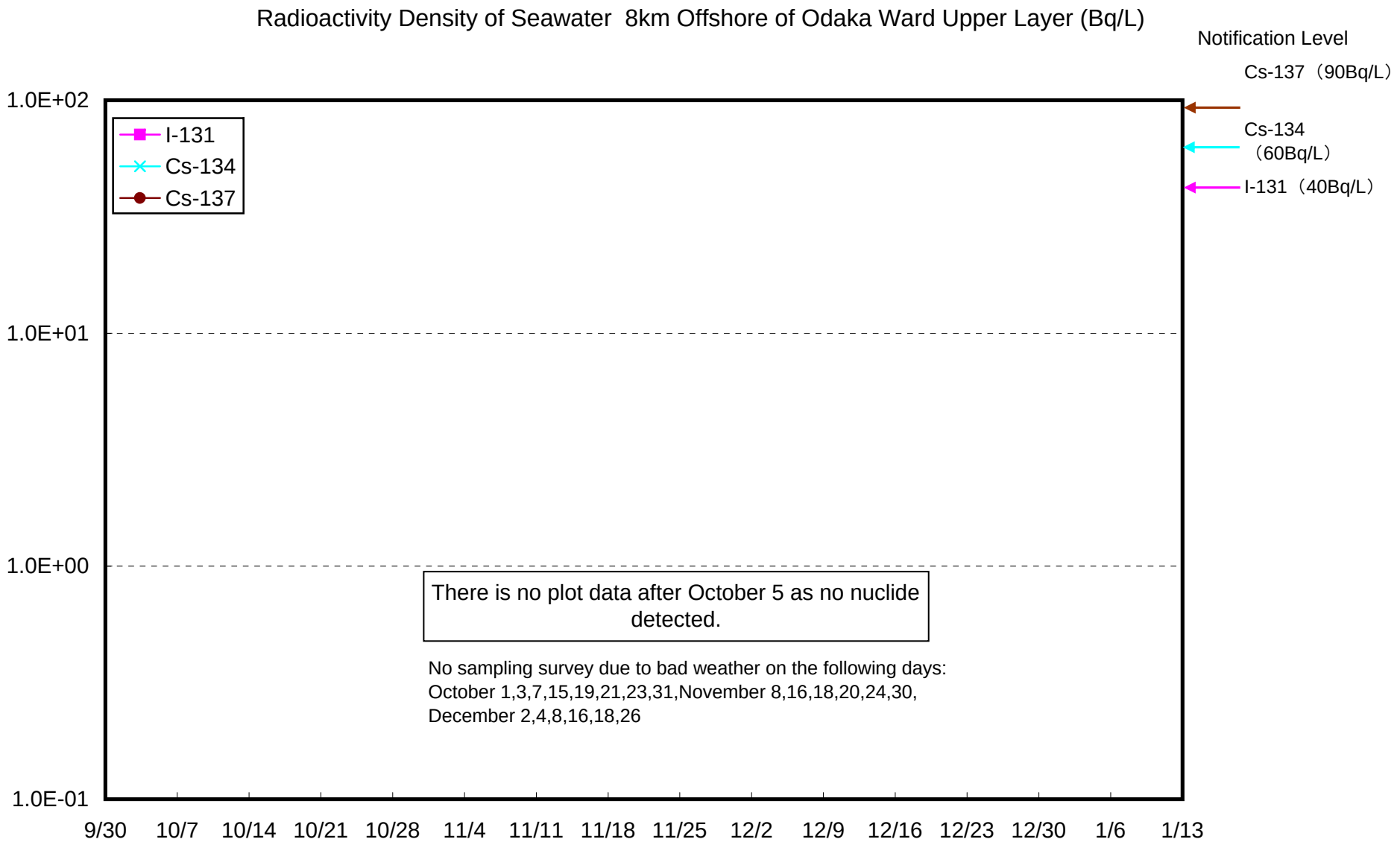

Radioactivity Density of Seawater 3km Offshore of Haramachi Ward Lower Layer (Bq/L)
Notification Level
Cs-137
（90Bq/L）
Cs-134（60Bq/L）
I-131（40Bq/L）
I-131
Cs-134
Cs-137
1.0E+02
1.0E+01
1.0E+00
1.0E-01
No sampling survey due to bad weather on the following days:
October 1,3,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,8,16,18,26
9/30
10/7
10/14
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

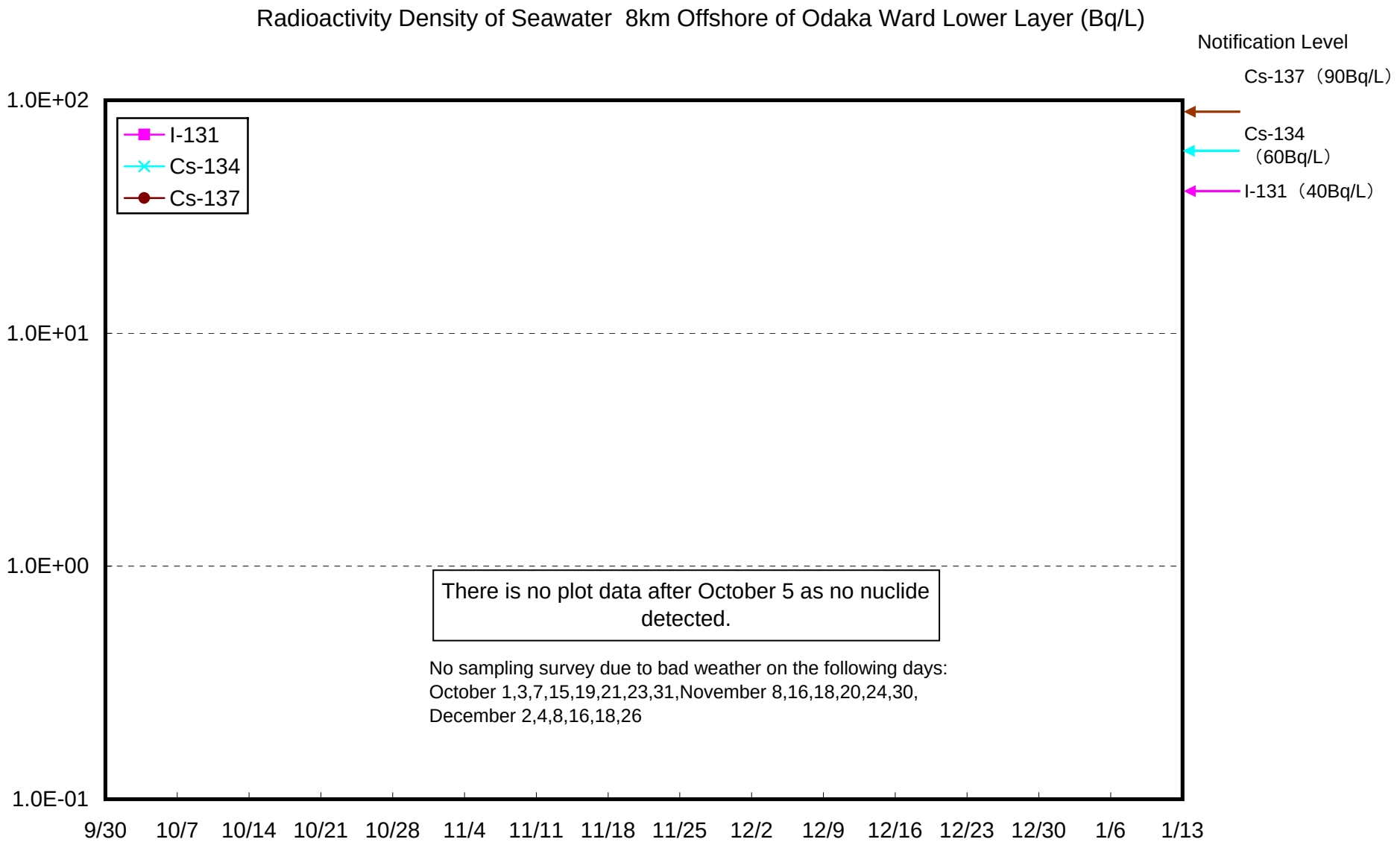

Radioactivity Density of Seawater 3km Offshore of Odaka Ward Upper Layer (Bq/L)
Notification Level
Cs-137
（90Bq/L）
Cs-134
（60Bq/L）
I-131
（40Bq/L）
I-131
Cs-134
Cs-137
1.0E+02
1.0E+01
1.0E+00
1.0E-01
There is no plot data after October 5 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,3,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,8,16,18,26
9/30
10/7
10/14
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


Radioactivity Density of Seawater 3km 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 5 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,3,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,8,16,18,26
9/30
10/7
10/14
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


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 1,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,18,26
9/30
10/7
10/14
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


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）
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 3 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,18,26
9/30
10/7
10/14
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


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）
I-131
Cs-134
Cs-137
1.0E+02
1.0E+01
1.0E+00
1.0E-01
There is no plot data after October 5 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,3,7,15,19,21,23,31,November 8,16,18,20,24,30,
December 2,4,8,16,18,26
9/30
10/7
10/14
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


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 5 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,3,7,15,19,21,23,31,November 8,16,18,20,24,30,
December 2,4,8,16,18,26
9/30
10/7
10/14
10/21
10/28
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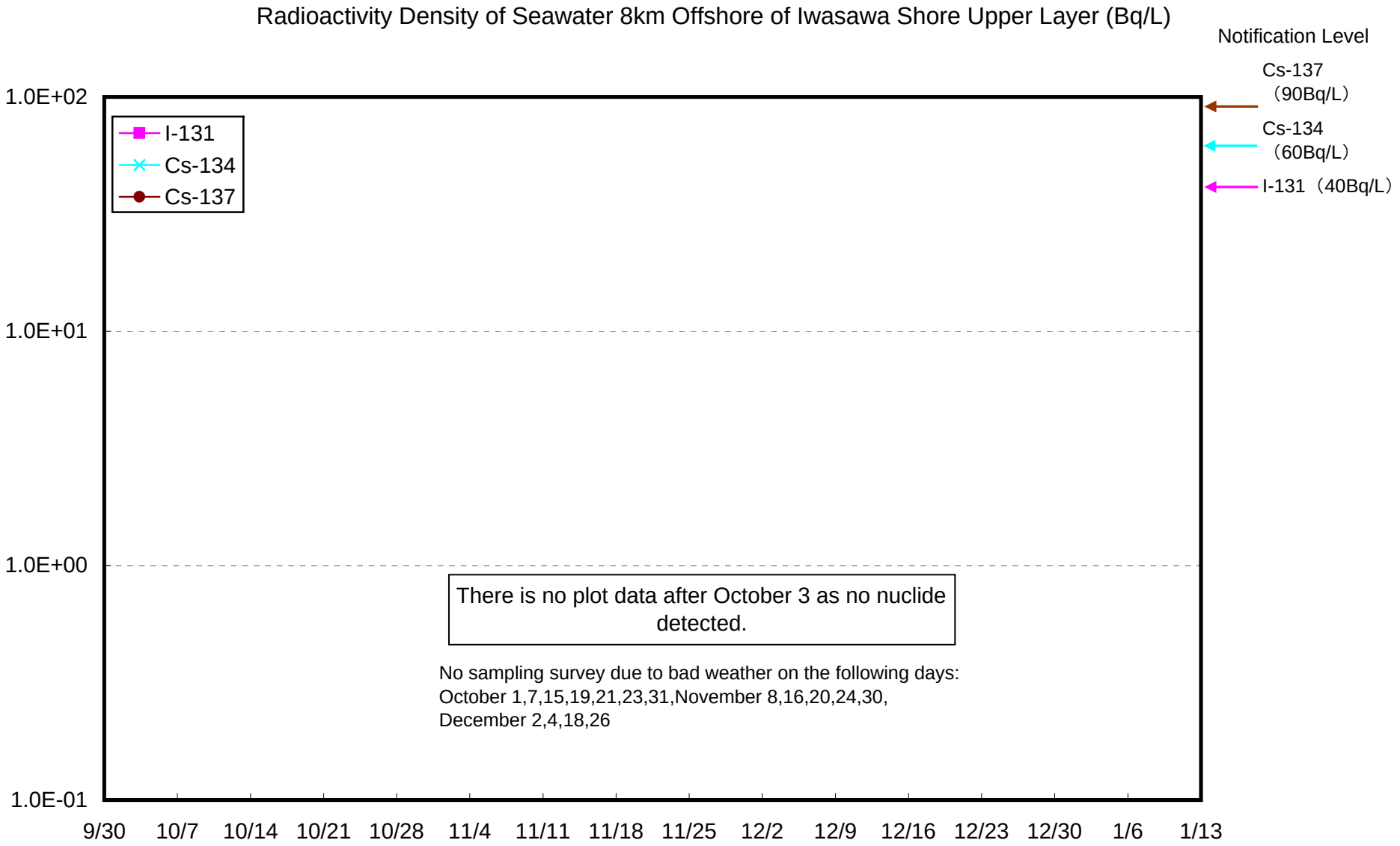
11/25
12/2
12/9
12/16
12/23
12/30
1/6
1/13


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 3 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,18,26
9/30
10/7
10/14
10/21
10/28
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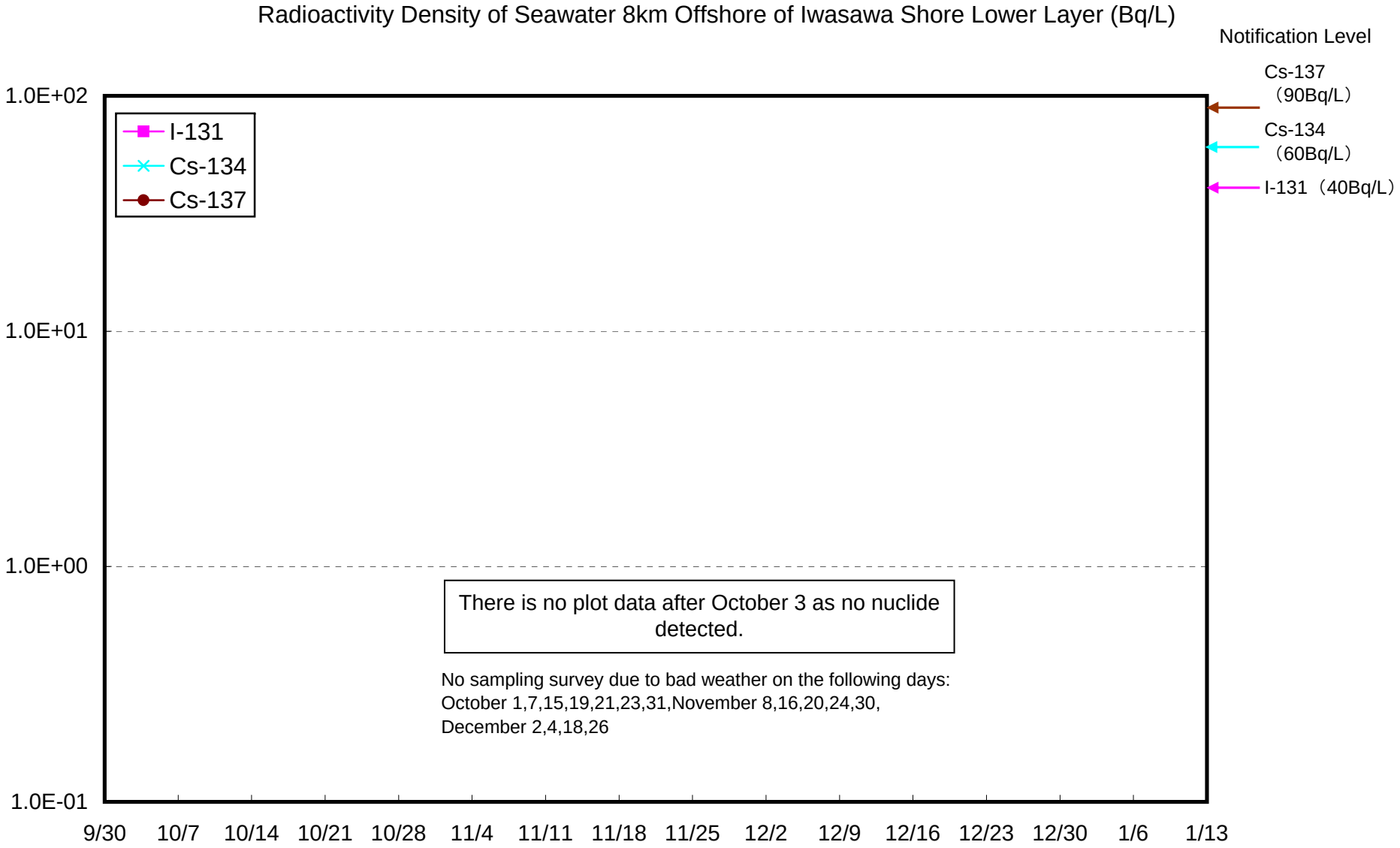
12/9
12/16
12/23
12/30
1/6
1/13


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 3 as no nuclide detected.
No sampling survey due to bad weather on the following days:
October 1,7,15,19,21,23,31,November 8,16,20,24,30,
December 2,4,18,26
9/30
10/7
10/14
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