Nuclide Analysis Results of Radioactive Materials in Seawater < Coast>

Reference

(Data summarized on March 30)

Place of Sampling	North of Discha of 5-6u of (approx. 30m n discharge of	of 1F orth of 5-6u	Around South Channel (appox. 330m of Discharge (of 1F south of 1-4u	Around North Channel (Around 3,4u Chanr (approx. 10 ki	of 2F u Discharge nel)	Around Iwasawa (appox. 7 km : Discharge ((appox. 16 kr	south of 1,2u Channel)	Density limit by the announcement of Reactor Regulation (Bq/L)	
Time of Sampling	Mar 29, 09:35		Mar 29, 09:10		Mar 29, 08:10		Mar 29, 07:50		(the density limit in the water outside of surrounding monitored	
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 (/)	areas in the section 6 of the appendix 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.

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

^{*} 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.

^{* &}quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.66Bq/L, Cs-134: approx. 1.4Bq/L, Cs-137: approx. 1.6Bq/L

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

Reference

(Data summarized on March 30)

													•
Place of Sampling	15 km offshore of Minami-Souma CityUpper Layer		15 km offshore of Minami-Souma CityLower 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
Time of Sampling	Mar 28, 2 10:50 a		Mar 28, 2 10:50 a		Mar 28, 2 10:00 a		Mar 28, 2 10:00 a		Mar 28, 2 09:30 a		Mar 28, 2012 09:30 am		(Bq/L) (the density limit in the water outside of
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	surrounding monitored areas in the section 6 of the appendix 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	15 km offsh Fukushima Da Layer Mar 28, 2	ini Upper	Layer	ini Lower	15 km offsh Iwasawa Sho Layer	re Upper	15 km offsh Iwasawa Sho Layer	re Lower	15 km offshore of Hirono-town Upper Layer N/A		15 km offshore of Hirono-town Lower Layer N/A		Density limit by the announcement of Reactor Regulation (Bg/L)
Time of Sampling	08:55 a		Mar 28, 2012 08:55 am		IN/A		IN/A		IN/A		IN/A		(the density limit in the water outside of
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 (/)	surrounding monitored areas in the section 6 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	1	-	-	-	-	-	-	-	1	40
Cs-134 (about 2 years)	ND	-	ND	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	ND	-	ND	1	-	-	-	-	-	-	-	-	90

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

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

^{*} 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.

^{* &}quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.68Bq/L, Cs-134: approx. 0.90Bq/L, Cs-137: approx. 1.0Bq/L

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

Reference

(Data summarized on March 30)

Place of Sampling	3 km offshore of Souma City Upper Layer 3 km offshore of Souma City Lower Layer		5 km offshore City Upper		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		
Time of Sampling	N/A		N/A		N/A	A N/A			N/A		N/A		(Bq/L) (the density limit in the
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	water outside of surrounding monitored areas in the section 6 of the appendix 2)
I-131 (about 8 days)	-	-	-	-	-	-	-	-	-	-	-	-	40
Cs-134 (about 2 years)	-	ı	-	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	-	-	-	-	90

Place of Sampling	5km Offsh Numanouch Layei	i Upper	5km Offshore of Numanouchi Lower Layer										Density limit by the announcement of Reactor Regulation	
Time of Sampling	Mar 28, 2 07:15 a		Mar 28, 2 07:15 a										(Bq/L) (the density limit in the	
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 (/)	water outside of surrounding monitored areas in the section 6 of the appendix 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	

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

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

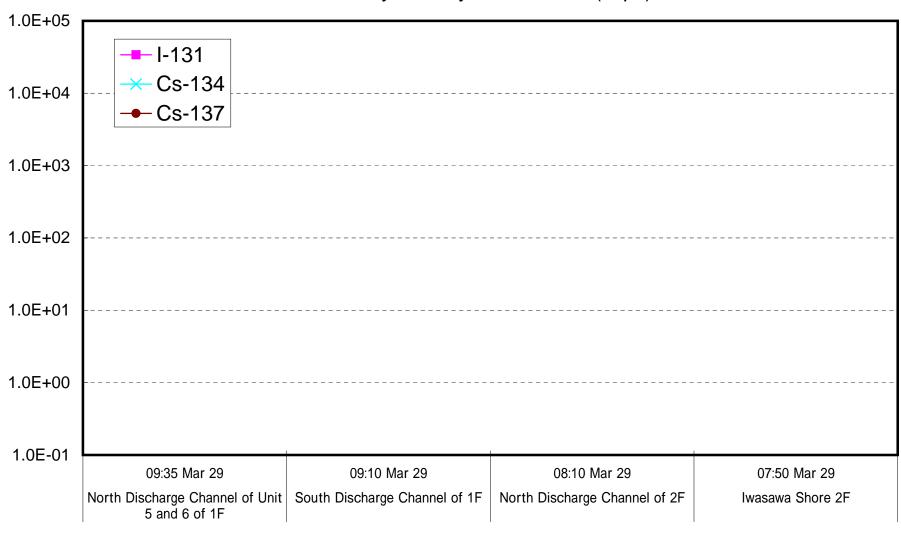
^{*} Data of other nuclides are under evaluation.

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

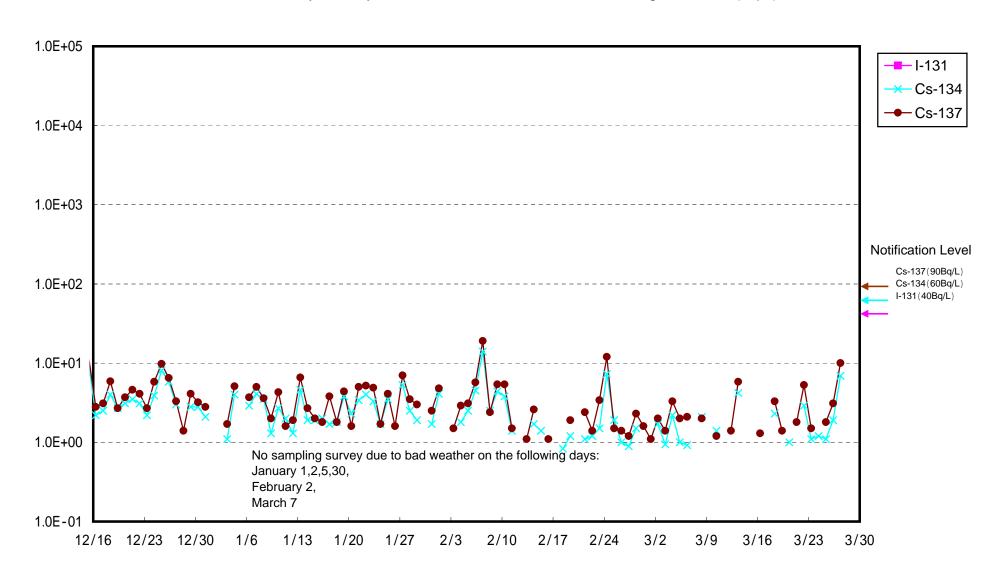
^{* &}quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.76Bq/L, Cs-134: approx. 0.86Bq/L, Cs-137: approx. 1.1Bq/L

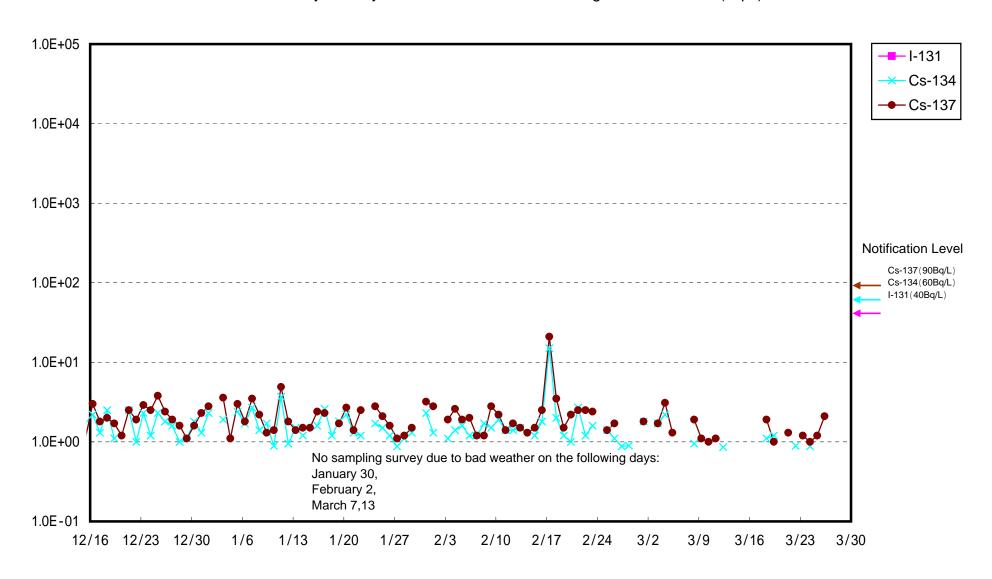
Radioactivity Density of Seawater (Bq/L)



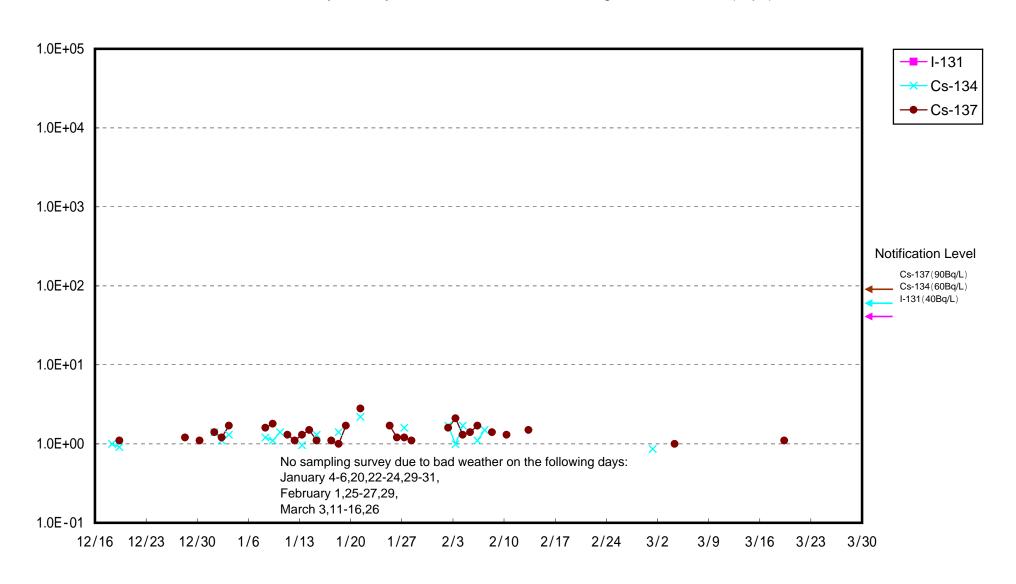
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



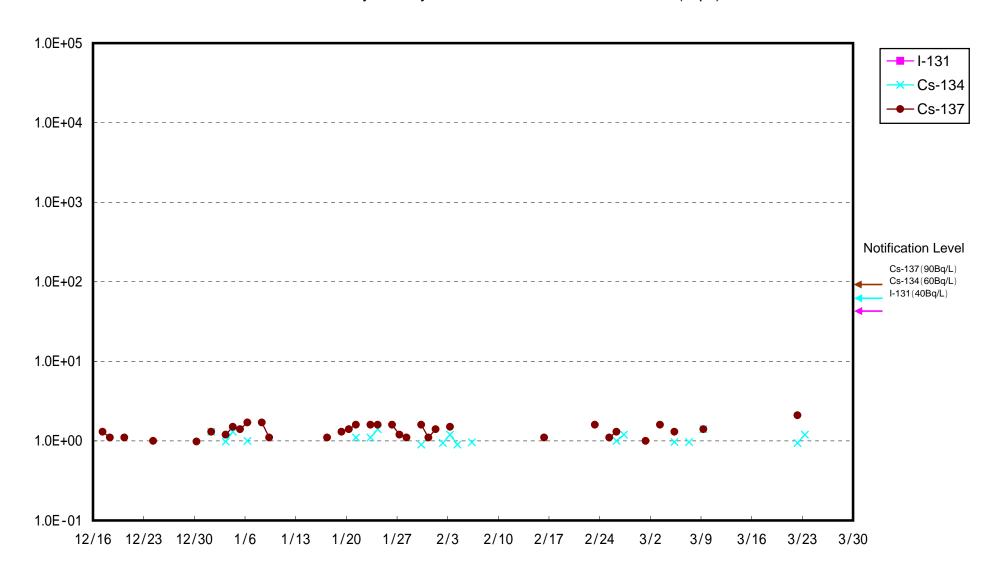
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)



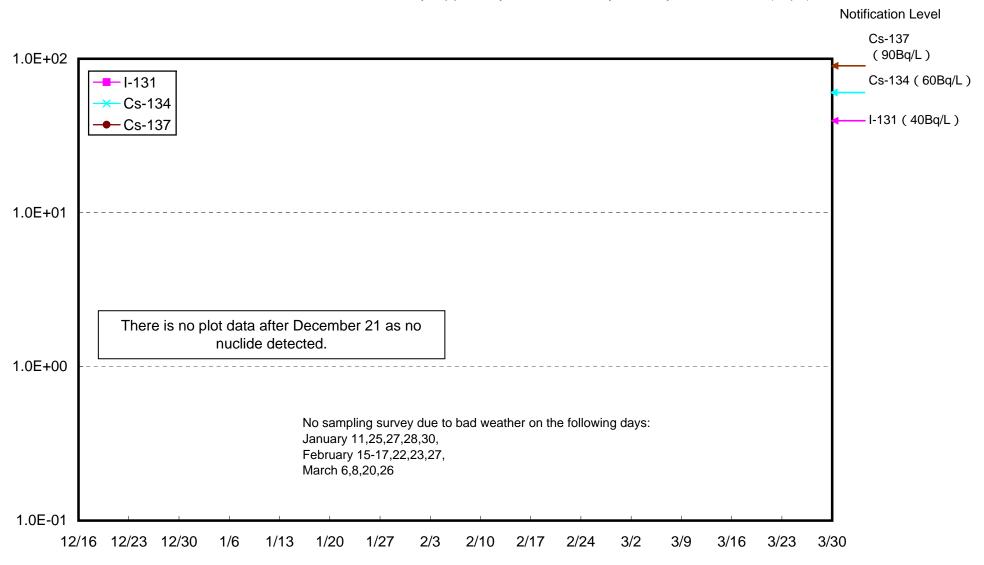
Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)



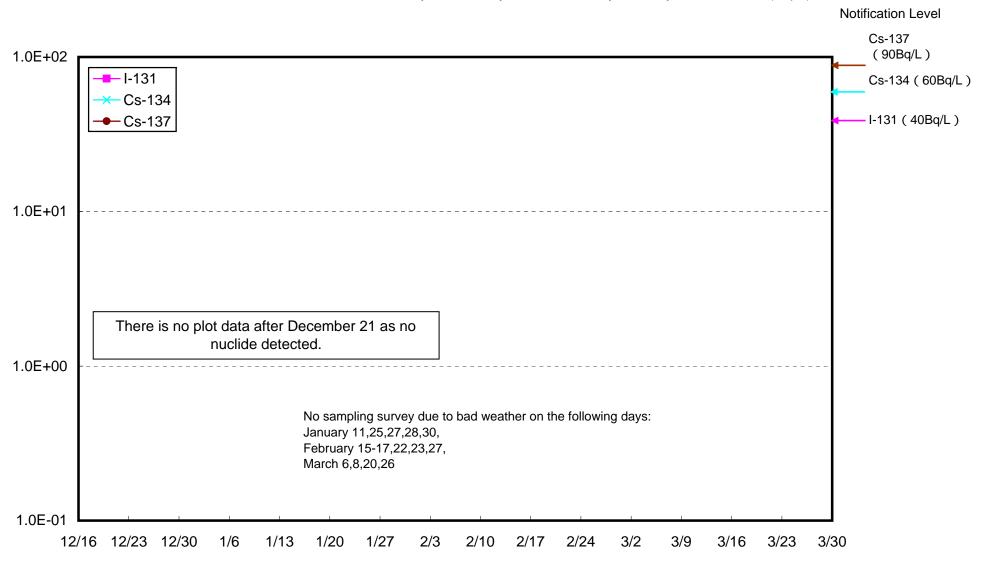
Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)



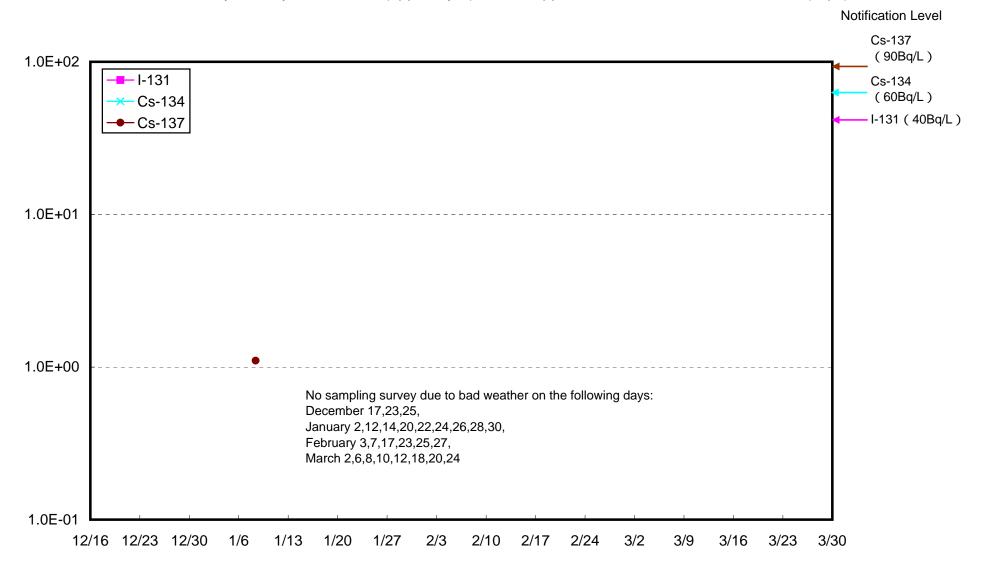
15km offshore of Minami Soma city Upper Layer Radioactivity Density of Seawater (Bq/L)



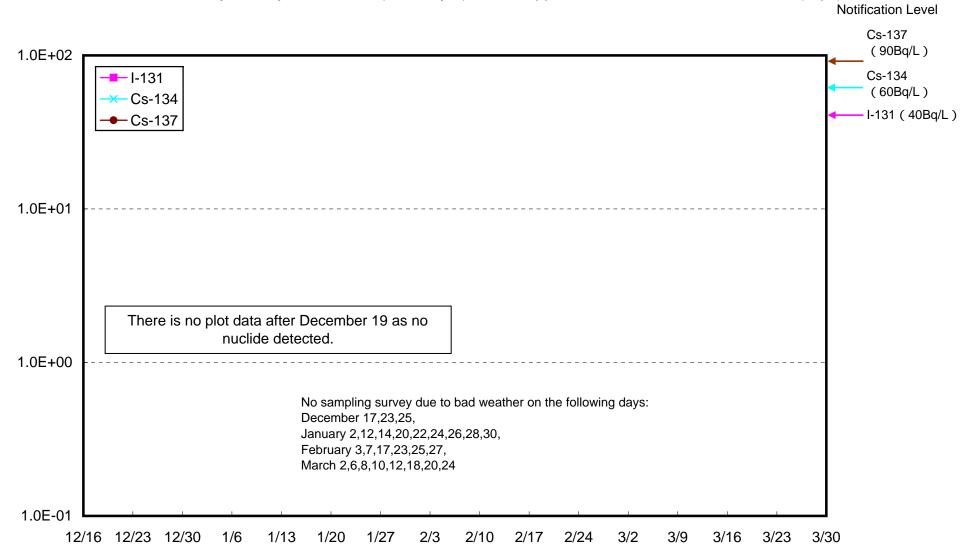
15km offshore of Minami Soma city Lower Layer Radioactivity Density of Seawater (Bq/L)



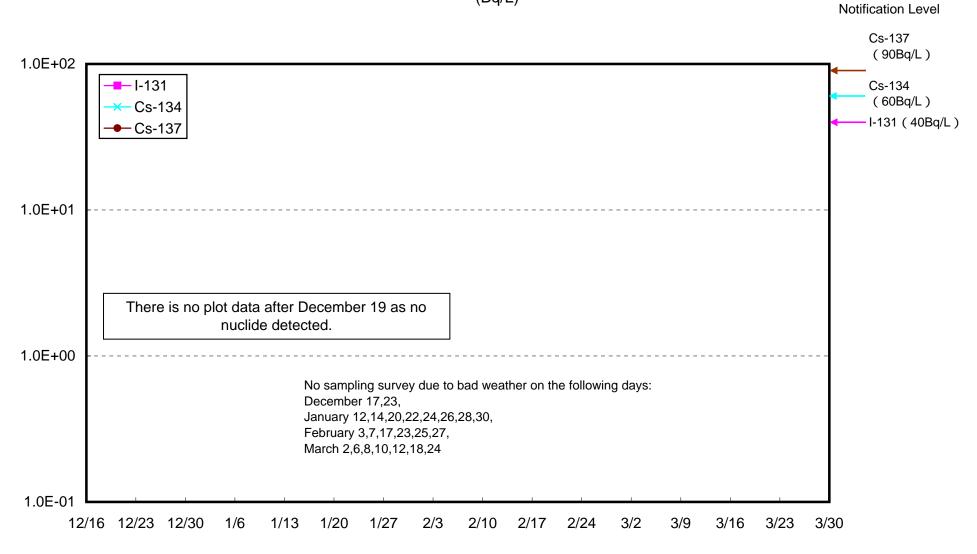
Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Ukedo river (Bq/L)



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



Radioactivity Density of Seawater (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) Notification Level Cs-137 (90Bq/L) 1.0E+02 Cs-134 (60Bq/L) Cs-134 -I-131 (40Bq/L) Cs-137 1.0E+01 There is no plot data after December 19 as no nuclide detected. 1.0E+00 No sampling survey due to bad weather on the following days: December 17,23, January 12,14,20,22,24,26,28,30, February 3,7,17,23,25,27, March 2,6,8,10,12,18,24 1.0E-01

12/16 12/23 12/30

1/6

1/13

1/20

1/27

2/3

2/17

3/2

3/9

3/16

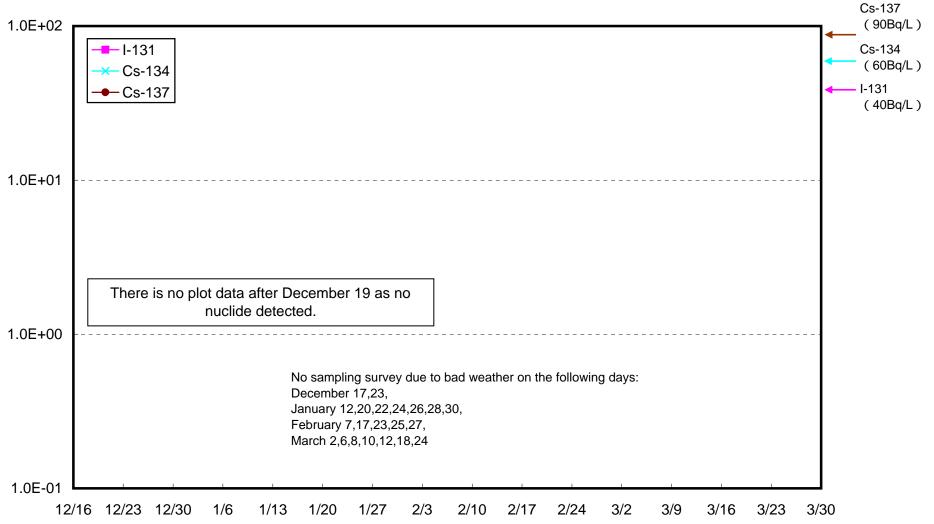
3/23

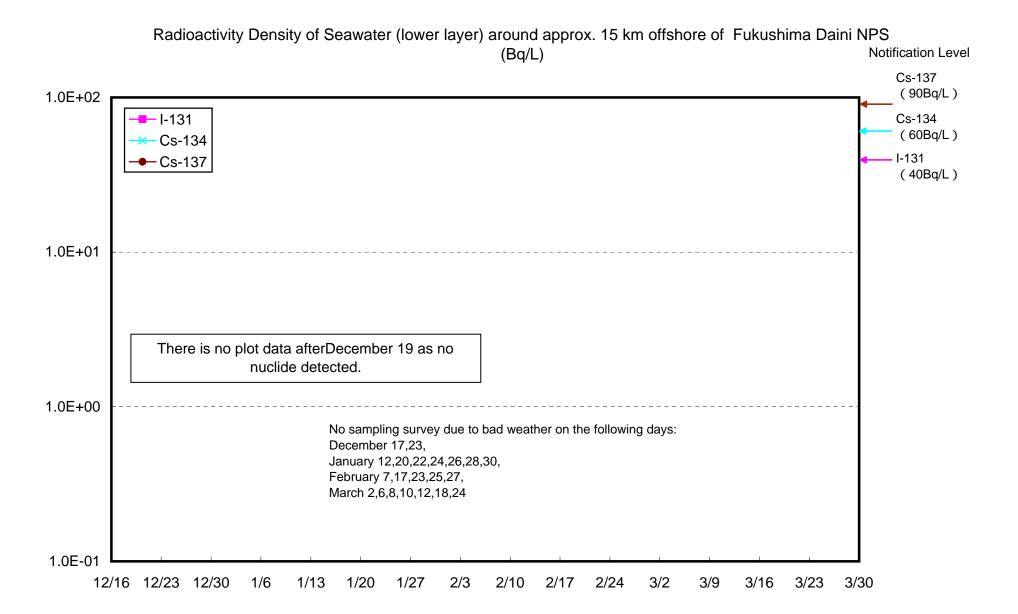
3/30

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

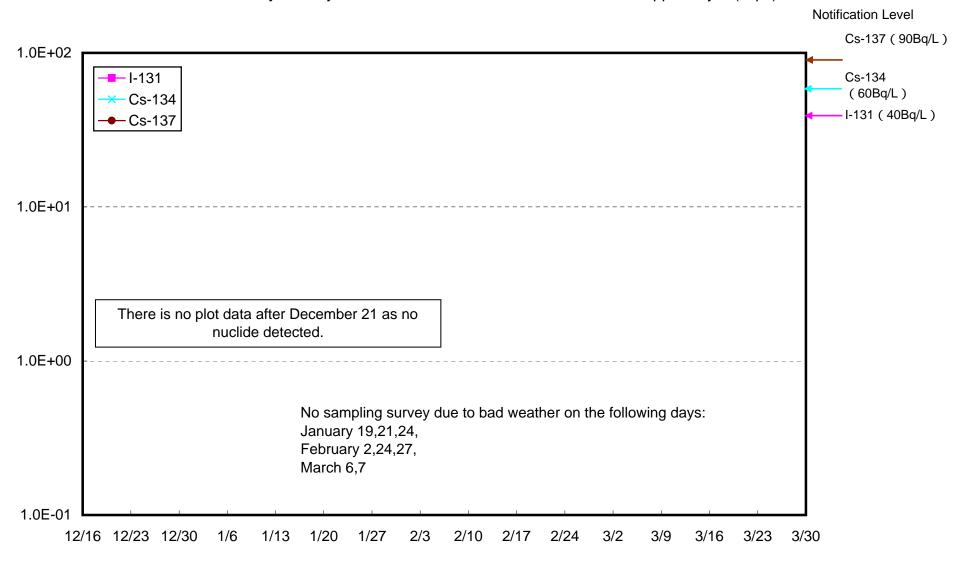
(Bq/L)

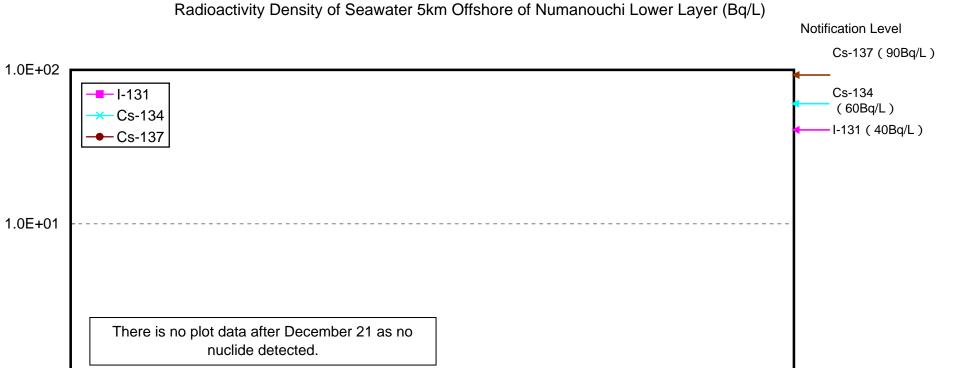
Notification Level





Radioactivity Density of Seawater 5km Offshore of Numanouchi Upper Layer (Bq/L)





No sampling survey due to bad weather on the following days:

2/17

2/24

3/2

3/16

3/9

3/23

3/30

January 19,21,24, February 2,24,27,

1/27

2/3

2/10

March 6,7

1/20

1/13

1.0E+00

1.0E-01

12/16 12/23 12/30

1/6