Nuclide analysis results of ocean soil＜1/2＞

Reference

(Data summarized on January 20)

| 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 (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) | Iwasawa Seashoreoffshore 15km |
|---|---|---|---|---|---|
| Time of Sampling | Jan 18, 2012 8:45 AM | Jan 18, 2012 9:55 AM | Jan 18, 2012 2:30 PM | Jan 18, 2012 8:15 AM | Jan 18, 2012 11:15 AM |
| Detected Nuclides (Half-life) | Radioactivity density (Bq/kg・moist soil) | | | | |
| I-131 (about 8 days) | ND | ND | ND | ND | ND |
| Cs-134 (about 2 years) | 1,200 | 1,400 | 170 | 250 | 210 |
| Cs-137 (about 30 years) | 1,600 | 1,800 | 220 | 330 | 270 |

* Data of other nuclides are under evaluation.

* "ND" means the sampled data is below measurable limit.
I-131: approx. 12Bq/kg・moist soil)
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

(1 out of 6 point was not sampled due to bad weather)

Nuclide analysis results of ocean soil＜2/2＞

Reference

(Data summarized on January 20)

| | | | | | |
|---|---|---|---|---|---|
| Place of Sampling | 15 km offshore of Hirono-town | | | | |
| Time of Sampling | Jan 18, 2012 (Not sampled) | | | | |
| Detected Nuclides (Half-life) | Radioactivity density （Bq/kg・moist soil) | | | | |
| I-131 (about 8 days) | - | | | | |
| Cs-134 (about 2 years) | - | | | | |
| Cs-137 (about 30 years) | - | | | | |

(1 out of 6 points was not sampled due to bad weather)

# Plutonium Analysis Result in the ocean soil

1. Analysis result

（Unit：Bq/kg･Dry soil）

| Sampling spot | Date of sampling/ Analyses organization | Pu-238 | Pu-239,Pu-240 |
|---|---|---|---|
| 3km offshore of Ena | November 7 Japan Chemical Analysis Center | N.D. [<$1.6\times10^{-2}$] | （4.6±0.32）$\times10^{-1}$ |
| 3km offshore of Kotaka-ku | November 10 Japan Chemical Analysis Center | N.D. [<$1.3\times10^{-2}$] | （8.4±0.99）$\times10^{-2}$ |
| 15km offshore of Fukushima Daiichi | November 11 Japan Chemical Analysis Center | N.D. [<$1.3\times10^{-2}$] | （5.0±0.31）$\times10^{-1}$ |
| 15km offshore of Ukedo river | | N.D. [<$1.5\times10^{-2}$] | （2.1±0.18）$\times10^{-1}$ |
| North of discharge channel of unit 5/6 of Fukushima Daiichi | November 14 Japan Chemical Analysis Center | N.D. [<$1.1\times10^{-2}$] | （4.8±0.77）$\times10^{-2}$ |
| South discharge channel of Fukushima Daiichi | | N.D. [<$1.4\times10^{-2}$] | （6.5±0.94）$\times10^{-2}$ |
| 3km offshore of Iwasawa shore | November 18 Japan Chemical Analysis Center | N.D. [<$1.7\times10^{-2}$] | （4.7±0.33）$\times10^{-1}$ |
| 8km offshore of Iwasawa shore | | （1.9±0.53）$\times10^{-2}$ | （5.3±0.35）$\times10^{-1}$ |
| 5km offshore of Kashima | November 22 Japan Chemical Analysis Center | N.D. [<$1.3\times10^{-2}$] | （3.8±0.25）$\times10^{-1}$ |
| Past analysis range in the sea around 1F and 2F (FY 1999～FY 2008)※1 | | － | $1.7\times10^{-1}$～$5.6\times10^{-1}$ |
| Past analysis range in Japan (FY 2006～FY 2010)※2 | | N.D.～$6\times10^{-2}$ | － |

[　　] : Lower detection limit

※1：Source: 2009 Report on the Result of Radioactivity Measurement around Nuclear Power Plant (Fukushima Nuclear Power Station Coordinating Committee for Safety Technology)

※2：Source: Ministry of Education, Culture, Sports, Science and Technology "Environmental radiation data base" http://search.kankyo-hoshano.go.jp/servlet/search.top，（Reference 2012-01-18）.

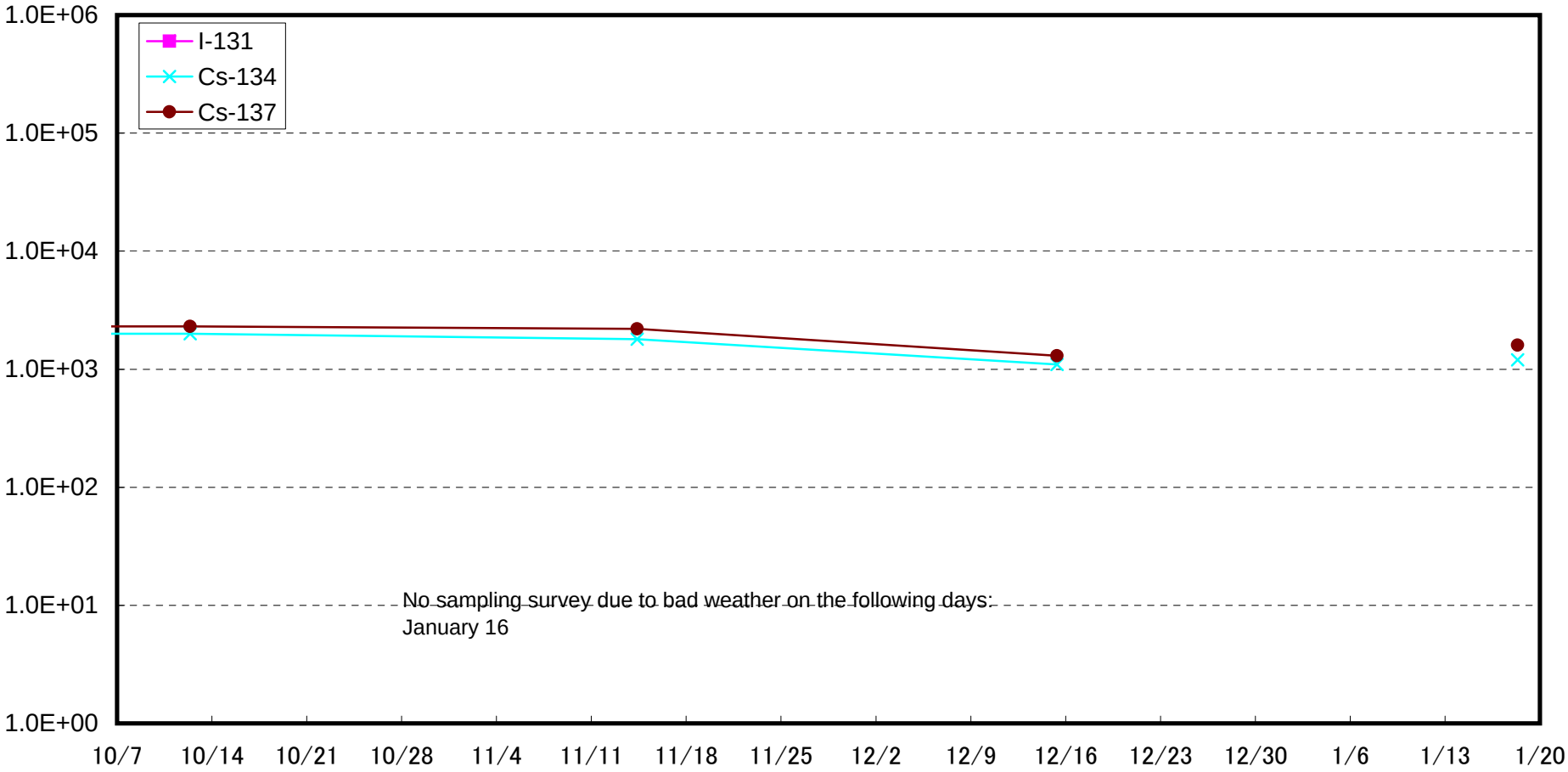
2. Evaluation

Detected density of Pu-239 and 240 from November 7 to 22 are within the range of past analysis in the sea around Fukushima Daiichi Nuclear Power Station and Fukushima Daini

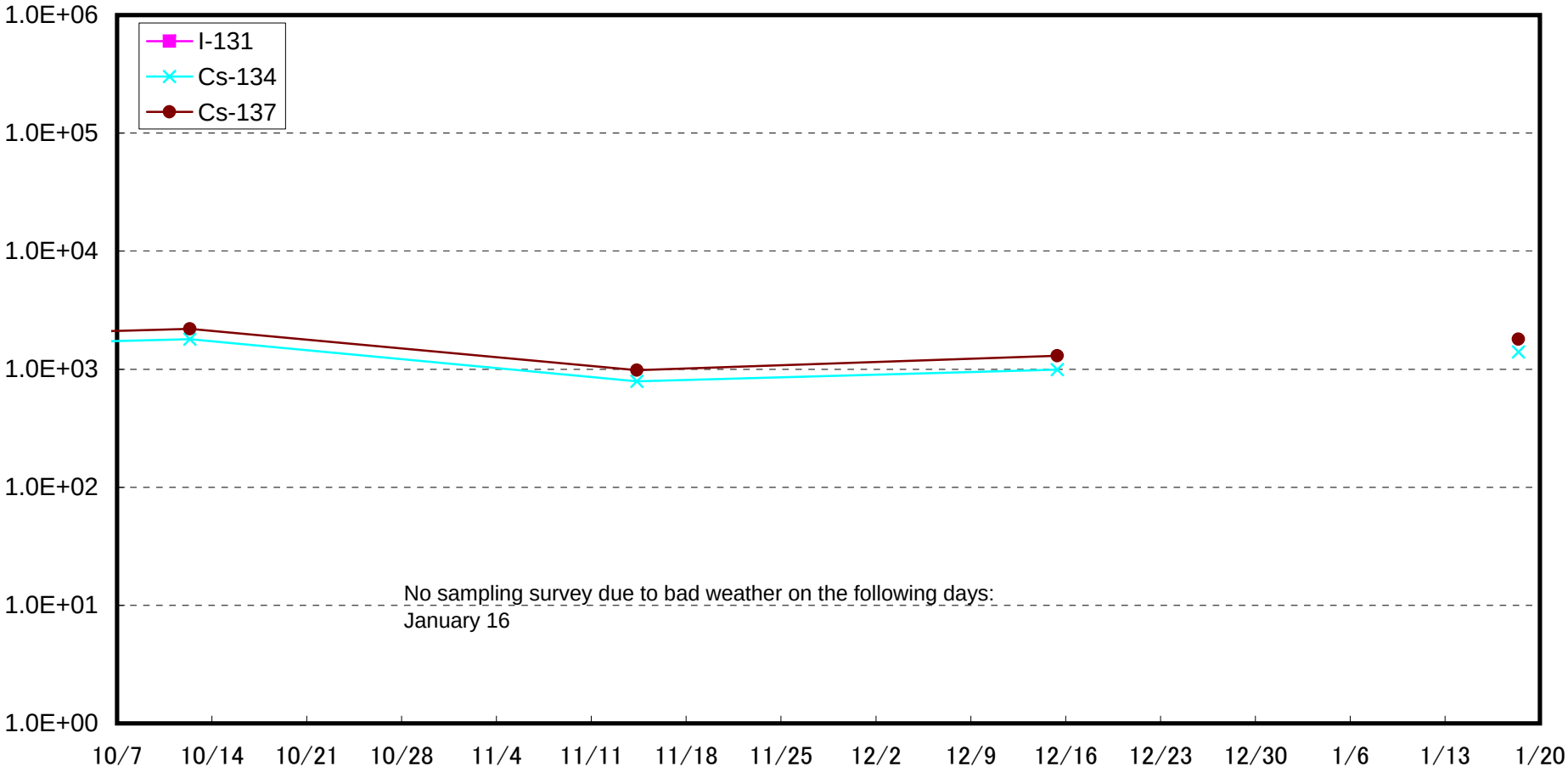
Nuclear Power Station. And detected density of Pu-238 at 8km off shore of Iwasawa shore are within the range of past analysis in Japan and the activity ratio (Pu-238/Pu-239,240) of 0.036 is within the similar level of fallouts detected in Japan at the past nuclear test in the atmosphere.

End

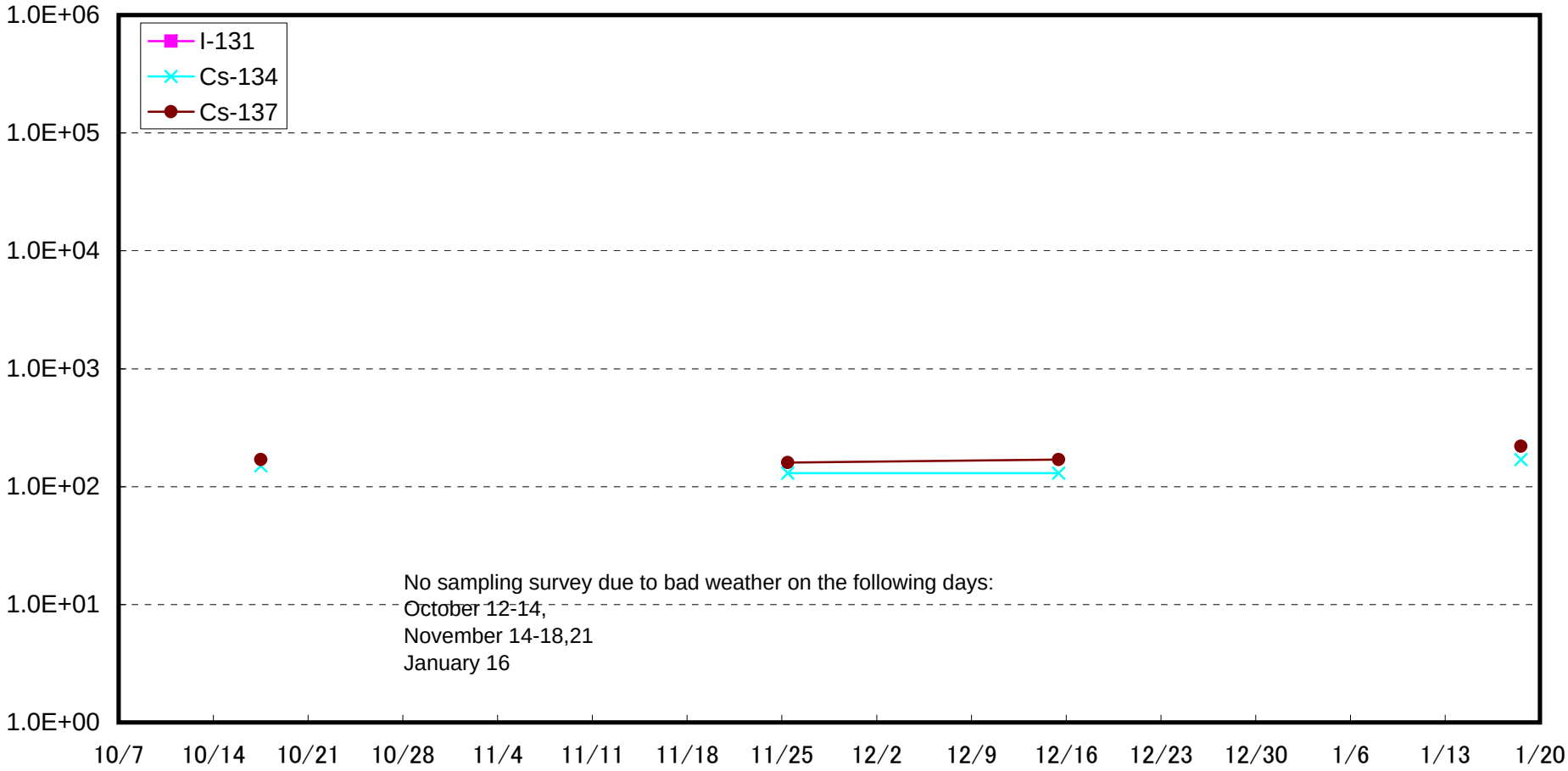
# Radioactivity Density of Ocean Soil around North of Discharge Channel of 5-6u of 1F (Bq/kg (moist soil))



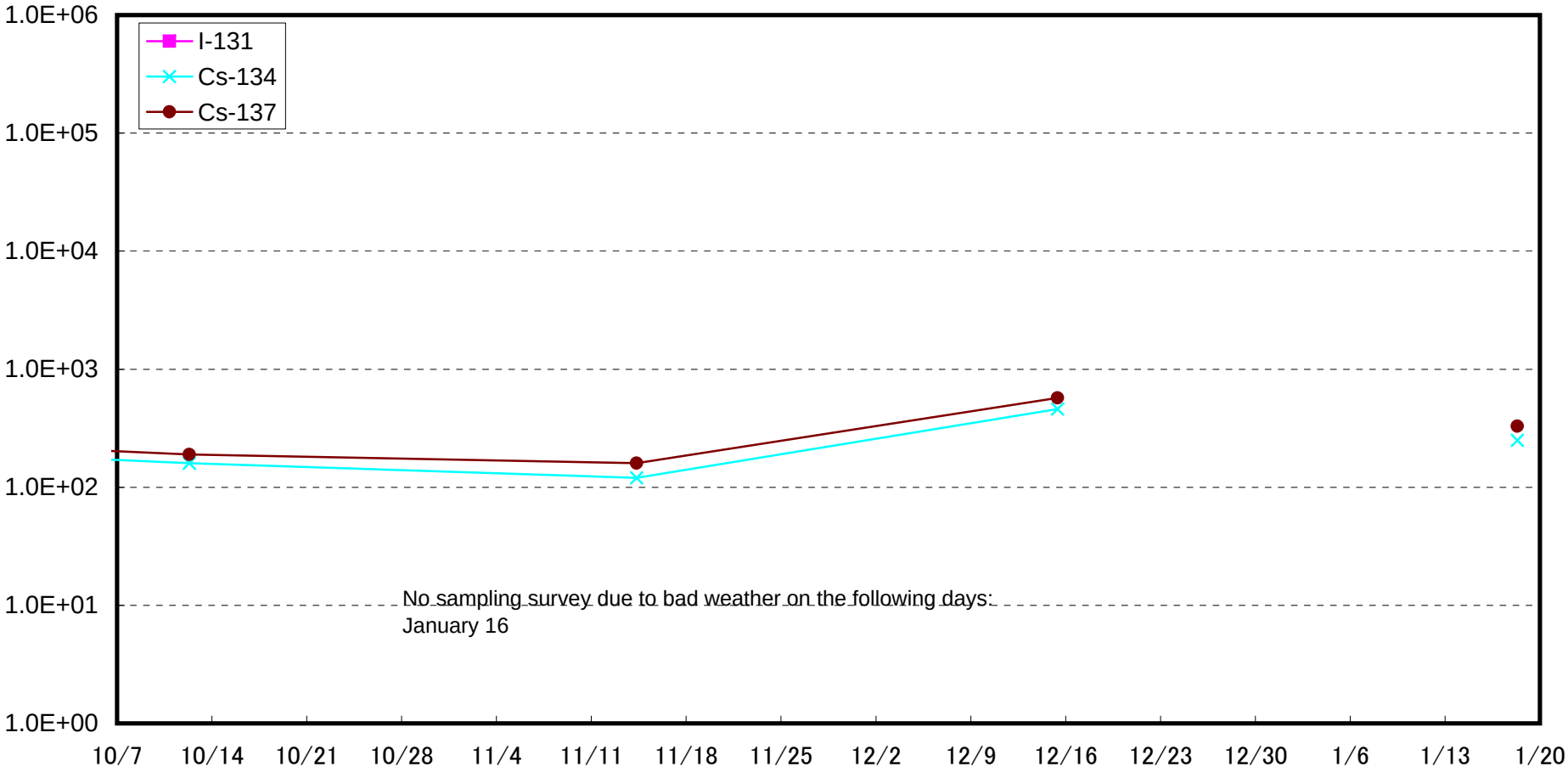
# Radioactivity Density of Ocean Soil around South Discharge Channel of 1F
(Bq/kg (moist soil))



# Radioactivity Density of Ocean Soil around North Discharge Channel of 2F
(Bq/kg (moist soil))



# Radioactivity Density of Ocean Soil around Iwasawa shore of 2F (Bq/kg (moist soil))



# Radioactivity Density of Ocean Soil 15km Offshore of Iwasawa Shore (Bq/kg)