

Environmental Monitoring results and analyses

---- The 4th Quarter of FY2018 ---
(From January 1 to March 31, 2019)

April 25, 2019
The Nuclear Regulation Authority, Japan

In accordance with the “Comprehensive Radiation Monitoring Plan”, the relevant organizations released the monitoring data in the period from January 1 to March 31, 2019 and analyzed them. This monitoring scheme aims to make a continuous measurement of air dose rates and concentrations of radioactive materials in the environment in Fukushima prefecture and other areas across Japan for overseeing their fluctuations after the TEPCO Fukushima Daiichi accident.

【Fukushima Prefecture】

- Air dose rate: decreasing in general; no significant change observed
- Concentration of radioactive materials in floating dust in the air: decreasing in general; no significant change observed
- Concentration of radioactive materials in monthly fallout : decreasing in general; no significant change observed
- Concentration of radioactive materials in seawater samplings: decreasing in general; no significant change observed
- Concentration of radioactive materials in sediment in the sea: decreasing in general; no significant change observed

【Other areas】

- Air dose rates: fluctuating only a little around the same level before the accident; no significant change observed
- Concentration of radioactive materials in monthly fallout : decreasing in general; no significant change observed
- Concentration of radioactive materials in seawater: decreasing in general; no significant change observed

– Aforementioned “significant change” means a “change different from the trend in the past” .

– Refer to the following URL for detailed information including attached materials:

<http://www.nsr.go.jp/activity/monitoring/monitoring2-2.html>

- Refer to the following URL for monitoring results:
<http://radioactivity.nsr.go.jp/ja/index.html>
- Refer to the Appendix for detailed information and the Attached Material for basic data.

Environmental Monitoring results and analyses (detailed)

---- The 4th Quarter of FY2018 ---
(From January 1 to March 31, 2019)

April 25, 2019
The Nuclear Regulation Authority, Japan

In accordance with the “Comprehensive Radiation Monitoring Plan”, the relevant organizations released the monitoring data in the period from January 1 to March 31, 2019 and analyzed them. This monitoring scheme aims to make a continuous measurement of air dose rates and concentrations of radioactive materials in the environment in Fukushima prefecture and other areas across Japan for overseeing their fluctuations after the TEPCO (Tokyo Electric Power Company) Fukushima Daiichi accident.

I. Environmental Monitoring (land/sea) in Fukushima prefecture and neighboring prefectures

【 Land area 】

1 Air dose rate

The air dose rate was in a decreasing trend and no significant change was identified.

Air dose rate

Survey organizations: NRA (The Nuclear Regulation Authority)

and Fukushima prefectural government

Sampling period: January 1 – March 31, 2019

Sampling points: Fukushima prefecture

Sampling method: Measurement using monitoring posts

Survey results: Refer to the following URL

<http://radioactivity.nsr.go.jp/map/ja/> (Air dose rates across the country)

2 Concentration of radioactive materials in floating dust in the air

The radioactivity in dust samplings was in a decreasing trend and no significant change was identified.

(All samples during the survey period were below the concentration limit (Note 1) specified by the law.)

(i) Survey organization : NRA

Sampling period : October 9, 2018 – January 10, 2019

Sampling points : within 20 km from Fukushima Daiichi NPS (6 points)

Survey results : Concentration of Cs-134 is from “ND” (not detectable) to 0.000059 Bq/m³; concentration of Cs-137 is from “ND” (not detectable) to 0.0010 Bq/m³.

(Refer to Attached Document pages p.1-4)

(ii) Survey organizations : NRA

Sampling period : October 4, 2018 – January 24, 2019

Sampling points : within 20 km from Fukushima Daiichi NPS (5 points)

Survey results : Concentration range of Cs-134 was ND;
concentration range of Cs-137 was from ND to 0.00012 Bq/m³.

(Refer to Attached Document pages p.5-8)

3 Concentration of radioactive materials in monthly fallout

The concentration of radioactive materials in monthly fallout showed a decreasing trend and no significant change was identified.

(i) Survey organization: Fukushima prefectural government

Sampling period: December 2018 – February 2019

Sampling points: Fukushima city (Houkida) and Futaba-gun in Fukushima prefecture

Analytical method: Measurement after concentrating all collected samples

Survey Results:

Concentration range of Cs-134

- Fukushima City (Houkida): from 1.6 to 6.9 MBq/km²/month
- Futaba-gun: from 51 to 91 MBq/km²/month

Concentration range of Cs-137

- Fukushima City (Houkida) : from 18 to 82 MBq/km²/month
- Futaba-gun : from 570 to 1000 MBq/km²/month

(See Attached Document pages 9 – 11)

The concentration ranges are shown in the charts.

(See Attached Document page 12)

[Sea Area]

4 Concentration of radioactive materials in the seawater

The concentrations of radioactive materials in seawater samplings were in a decreasing trend and no significant change was identified.

① Seawater near the Fukushima Daiichi NPS

- Cs-134 and Cs-137 analyses

(All the samples during the survey period are below the concentration limit (Note 1) specified by the law.)

(i) Survey organization: TEPCO

Sampling period: November 26, 2018 – February 18, 2019

Analytical method: Coprecipitation method with ammonium phosphomolybdic acid, sample amount: 20 L

Measurement time: 5,000 seconds

Survey result: The concentration range of Cs-134 is from 0.0013 to 0.030 Bq/L ; Cs-137 is from 0.015 to 0.34 Bq / L.

(See Attached Document page 13)

The concentration ranges are shown in the charts.

(See Attached Document page 14)

(ii) Survey organization: the NRA

Sampling period: May 17, 2018 - January 18, 2019

Analytical method: Coprecipitation method using ammonium phosphomolybdic acid, sample amount 40 L

Measurement time: 25,000 seconds

Survey results: The concentration range of Cs-134 is from 0.00031 to 0.015 Bq/L ; Cs-137 is from 0.0040 to 0.15 Bq/L

(See Attached Document page 15)

The concentration ranges are shown in the charts.

(See Attached Document page 16)

(iii) Survey organization: Fukushima Prefecture

Sampling period: October 5 - December 11, 2018

Analytical method: Coprecipitation method using ammonium phosphomolybdic acid, sample amount 30 L

Measurement time: 80,000 seconds

Survey results: The concentration range of Cs-134 is from ND to 0.012 Bq/L ; Cs-137 is from 0.007 to 0.14 Bq/L.

(See Attached Document page 17)

The concentration ranges are shown in the charts.

(See Attached Document page 19)

- H-3 analysis

(All the samples during the survey period are below the concentration limit (Note 1) specified by the law.)

(i) Survey organization: NRA
Sampling period: May 17, 2018 - January 18, 2019
Analytical method: Electrolytic enrichment technique
Sampling amount: 10 mL
Measurement time: 60,000 seconds
Survey result: The concentration ranges of H-3 are from 0.051 to 0.36 Bq/L
(See Attached Document page 15)

(ii) Survey organization: Fukushima prefectural government
Sampling period: October 5 - December 11, 2018
Analytical method: Reduced-pressure distillation
Sampling amount: 50 mL
Measurement time: 30,000 seconds
Survey result: The concentration ranges of H-3 are from ND to 0.44 Bq/L.
(See Attached Document page 17)

· Sr-90 analysis

(All the samples during the survey period are below the concentration limit (Note 1) specified by the law.)

(i) Survey organization: TEPCO
Sampling period: December 3, 2018 - February 4, 2019
Analytical method: Y-90 milking method
Sampling amount: 40 L
Measurement time: 6,000 seconds
Survey result: The concentration ranges of Sr-90 are from 0.0020 to 0.0044 Bq/L. (See Attached Document page 13)

The concentration ranges are shown in the charts.
(See Attached Document page 14)

(ii) Survey organization: NRA
Sampling period: May 17, 2018 - January 18, 2019
Analytical method: Y-90 milking method
Sampling amount: 40 L
Measurement time: 3,600 seconds
Survey result: The concentration ranges of Sr-90 are from 0.00072 to 0.011 Bq/L. (See Attached Document page 15)

The concentration ranges are shown in the charts.
(See Attached Document page 16)

(iii) Survey organization: Fukushima Prefecture
Sampling period: October 5 - December 11, 2018
Analytical method: Y-90 milking method
Sampling amount: 40 L

Measurement time: 6,000 seconds

Survey result: The concentration range of Sr-90 are from 0.0006
to 0.01 Bq/L. (See Attached Document page 17)

The concentration ranges are shown in the charts.

(See Attached Document page 19)

② Radioactivity concentration in seawater around Fukushima Daiichi NPS

• Cs-134 and Cs-137 Analysis

(i) Survey organization: TEPCO

Sampling period: November 26, 2018 - February 19, 2019

Analysis method: Coprecipitation using ammonium phosphomolybdic acid

Sample amount: 20 , 30 L

Measuring time: 5,000 - 80,000 seconds

Survey results: The concentration range of Cs-134 is from ND to
0.0034 Bq/L ; Cs-137 is from 0.0016 to 0.030 Bq/L.

(See Attached Document pages 22-25)

The concentration ranges at the main points are shown in the charts.

(See Attached Document page 26)

(ii) Survey organization: Fukushima prefectural government

Sampling period: October 5 - December 11, 2018

Analysis method: Coprecipitation using ammonium phosphomolybdic acid

Sample amount: 30 L

Measuring time: 80,000 seconds

Survey results: The concentration range of Cs-134 is all ND ;
Cs-137 is from 0.003 to 0.009 Bq/L.

(See Attached Document page 18)

The concentration ranges at the main points are shown in the charts.

(See Attached Document page 19)

• H-3 Analysis

(i) Survey organization: TEPCO

Sampling period: December 4, 2018 - February 6, 2019

Analysis method: Atmospheric distillation

Sample amount: 50 mL

Measuring time: 42,000 seconds

Survey result: The concentration range of H-3 is from ND to 0.42 Bq/L.

(See Attached Document pages 22-24)

(ii) Survey organization: Fukushima prefectural government

Sampling period: October 5 - December 11, 2018

Analysis method: Reduced-pressure distillation

Sample amount: 50 mL

Measuring time: 30,000 seconds

Survey result: The concentration of H-3 is all ND.

(See Attached Document pages 18)

• Sr-90 Analysis

(i) Survey organization: TEPCO

Sampling period: December 4, 2018 - February 6, 2019

Analysis method: Y-90 milking method

Sample amount: 40 L

Measuring time: 6,000 seconds

Survey result: The concentration range of Sr-90 is from 0.0011 to
0.0021 Bq/L. (See Attached Document pages 23, 24)

(ii) Survey organization: Fukushima prefectural government

Sampling period: October 5 - December 11, 2018

Analysis method: Y-90 milking method

Sample amount: 40 L

Measuring time: 3,600 seconds

Survey result: The concentration range of Sr-90 is from 0.0009 to 0.0011 Bq/L.
(See Attached Document page 18)

The concentration ranges are shown in the charts.

(See Attached Document page 19)

5 Concentration of radioactive materials in sediment in the sea

The concentration of radioactive materials in the sea sediment showed a decreasing trend and no significant change was identified.

① Sea-sediment near the Fukushima Daiichi NPS

• Cs-134 and Cs-137 analyses

(i) Survey organization: TEPCO

Sampling period: December 3, 2018 - February 4, 2019

Survey result: The concentration of Cs-134 is from 8.9 to 25 Bq/kg ;

Cs-137 is from 98 to 250 Bq/kg. (See Attached Document page 28)

The concentration ranges are shown in the charts.

(See Attached Document page 30)

(ii) Survey organization: Fukushima Prefecture

Sampling period: November 14, 2018

Survey results: The concentration range of Cs-134 is from 1.5 to 35 Bq/kg ;
Cs-137 is from 25 to 410 Bq/kg. (See Attached Document page 33)

The concentration range of Sr-90 is from ND to 0.45 Bq/kg.

(See Attached Document page 33)

The concentration ranges are shown in the charts.

(See Attached Document page 35)

② Sea-sediment around the Fukushima Daiichi NPS

- Cs-134 and Cs-137 analyses

(i) Survey organization: TEPCO

Sampling period: December 3, 2018 – February 25, 2019

Survey result: The concentration range of Cs-134 is from ND to 43 Bq/kg ;
Cs-137 is from ND to 570 Bq/kg.

(See Attached Document pages 28, 29)

The concentration ranges at the main points are shown in the charts.

(See Attached Document page 31)

(ii) Survey organization: Fukushima Prefecture

Sampling period: November 14, 2018

Survey results: The concentration of Cs-134 is ND, 1.8 Bq/kg ;

Cs-137 is 18, 23 Bq/kg (See Attached Document page 34)

The concentration of Sr-90 is all 0.17, 0.29 Bq/kg.

(See Attached Document page 34)

The concentration ranges are shown in the charts.

(See Attached Document page 35)

II. Nationwide Environmental Monitoring (land/sea) excluding Fukushima prefecture

1. Air dose rates (Survey organization: NRA)

Nationwide air dose rates have been on the similar levels as those before the accident. No significant change was identified.

- Refer to the following URL for nationwide air dose rates:

<http://radioactivity.nsr.go.jp/map/ja/>

- Refer to the following URL for the locations of monitoring posts across Japan:

http://radioactivity.nsr.go.jp/en/contents/13000/12100/24/192_20170603_20170604.pdf

2. Concentration of radioactive materials in monthly fallout
(Survey results of radioactivity levels in the environment)

(Monitoring points: 46 prefectures (excluding Fukushima city and Futaba-gun in Fukushima prefecture))

The concentration of radioactive materials in monthly fallout showed a decreasing trend in general. No significant change was identified.

Sampling period: December 2018 – February 2019

Analytical method: Measurement after concentrating all collected samples

Survey Results:

Concentration range of Cs-134 is from ND to 0.41 MBq/km²/month;

Cs-137 is from ND to 4.5 MBq/km²/month.

(See Attached Document pages 9 - 11)

3. Environmental monitoring related to radioactive materials in the disaster stricken areas of the Great East Japan Earthquake: Water areas for public use including rivers, lakes, ponds and seacoasts (Survey organization: the Ministry of the Environment)

Refer to the following URL of the Ministry of the Environment for the monitoring results:

http://www.env.go.jp/jishin/monitoring/results_r-pw.html

4. Sea Area Monitoring at the Outer Sea (Seawater) (Survey organization: Japan Coast Guard)

Refer to the following URL of Japan Coast Guard for the monitoring results:

<http://www1.kaiho.mlit.go.jp/KANKYO/OSEN/housha/moni/moni20171130.pdf>

5. Concentration of radioactive materials at the entrance of Tokyo Bay
(Survey organization: MLIT)

Refer to the following URL of MLIT for monitoring results:

<http://www.pa.ktr.mlit.go.jp/kyoku/radiation/index.htm>

III. Other monitoring results

Monitoring results of foodstuff

Refer to the following URLs:

- ① Concentration of radioactive materials in foodstuff:

http://www.mhlw.go.jp/shinsai_jouhou/shokuhin.html

- ② Concentration of radioactive materials in marine products:

<http://www.jfa.maff.go.jp/j/housyanou/kekka.html>

- ③ Securing safety in the quality of alcoholic beverages against radioactive materials:

<https://www.nta.go.jp/taxes/sake/anzen/radioactivity.htm>

- ④ Inspections of radioactive materials in tap water:

http://www.mhlw.go.jp/shinsai_jouhou/suidou.html

For reference (TEPCO):

<http://www.tepco.co.jp/decommission/planaction/monitoring/index-j.html>

(Note 1)

- Items stipulated in Notice No.8(Appendix No.1) issued by the NRA:

The concentration limit of radioactive material in the seawater outside the monitoring areas near the Fukushima Daiichi NPS:

I-131 : 40Bq/L、Cs-134 : 60Bq/L、Cs-137 : 90Bq/L、Sr-90:30Bq/L、H-3:60,000Bq/L

The concentration limit of radioactive material in the air outside the monitoring areas near the Fukushima Daiichi NPS:

I-131 : 5Bq/m³、Cs-134 : 20Bq/m³、Cs-137 : 30Bq/m³

福島第一原子力発電所20km圏内の大気浮遊じんの放射性物質濃度測定結果

Readings of dust samplings in 20km Zone of Fukushima Dai-ichi NPP

平成31年3月26日 Mar 26, 2019
原子力規制委員会 NRA

採取地点 Sampling Point	更新 Data updated	試料採取期間 Sampling period	放射性物質濃度 Radioactivity (Bq/m ³) *			空間線量率 Air dose rate (μ Sv/h)	備考 Remarks
			(検出限界値 Minimum Detectable Activity (Bq/m ³))				
			Cs-134	Cs-137	その他の人工核種 Other anthropogenic radionuclides		
60 南相馬市小高区本町 Minamisoma city Odaka ward Motomachi	○	2019/1/8 11:53 ~ 2019/1/10 11:53	ND (0.000028)	0.000041 ± 0.000011	ND	0.1	
		2018/12/11 11:40 ~ 2018/12/13 11:40	ND (0.000027)	ND (0.000027)	ND	0.1	
		2018/11/13 11:59 ~ 2018/11/15 11:59	ND (0.000026)	0.000039 ± 0.0000089	ND	0.1	
		2018/10/9 11:56 ~ 2018/10/11 11:56	ND (0.000025)	0.000030 ± 0.0000097	ND	0.1	
		2018/9/11 11:45 ~ 2018/9/13 11:45	ND (0.000028)	0.000068 ± 0.0000097	ND	0.1	
		2018/8/14 12:09 ~ 2018/8/16 12:09	ND (0.000031)	0.00011 ± 0.000011	ND	0.1	
		2018/7/10 12:05 ~ 2018/7/12 12:05	ND (0.000028)	0.000095 ± 0.000011	ND	0.1	
		2018/6/12 11:41 ~ 2018/6/14 11:41	ND (0.000029)	0.000029 ± 0.0000089	ND	0.1	
		2018/5/8 12:00 ~ 2018/5/10 12:00	ND (0.000028)	ND (0.000027)	ND	0.1	
		2018/4/10 11:48 ~ 2018/4/12 11:48	ND (0.000031)	0.00012 ± 0.000011	ND	0.1	
		61 双葉郡浪江町大字幾世橋 Futaba county Namie town oaza Kiyohashi	○	2019/1/8 11:32 ~ 2019/1/10 11:32	ND (0.000028)	0.000079 ± 0.000011	ND
2018/12/11 11:17 ~ 2018/12/13 11:17	ND (0.000028)			0.00010 ± 0.000011	ND	0.1	
2018/11/13 11:34 ~ 2018/11/15 11:34	ND (0.000028)			0.00010 ± 0.000010	ND	0.1	
2018/10/9 11:33 ~ 2018/10/11 11:33	ND (0.000025)			0.00016 ± 0.000012	ND	0.1	
2018/9/11 11:21 ~ 2018/9/13 11:21	0.000047 ± 0.0000095			0.00039 ± 0.000014	ND	0.1	
2018/8/14 11:44 ~ 2018/8/16 11:44	0.000031 ± 0.0000085			0.00019 ± 0.000012	ND	0.1	
2018/7/10 11:46 ~ 2018/7/12 11:46	0.000054 ± 0.0000097			0.00045 ± 0.000016	ND	0.1	
2018/6/12 11:27 ~ 2018/6/14 11:27	ND (0.000029)			0.000068 ± 0.0000094	ND	0.1	
2018/5/8 11:36 ~ 2018/5/10 11:36	ND (0.000031)			0.000034 ± 0.0000095	ND	0.1	
2018/4/10 11:24 ~ 2018/4/12 11:24	0.000062 ± 0.000011			0.00053 ± 0.000016	ND	0.1	

採取地点 Sampling Point	更新 Data updated	試料採取期間 Sampling period	放射性物質濃度 Radioactivity (Bq/m ³) *			空間線量率 Air dose rate (μ Sv/h)	備考 Remarks
			(検出限界値 Minimum Detectable Activity (Bq/m ³))				
			Cs-134	Cs-137	その他の人工核種 Other anthropogenic radionuclides		
62 双葉郡双葉町新山前沖 Futaba county Futaba town Shinzanmaeoki	○	2019/1/8 9:10 ~ 2019/1/8 15:10	ND (0.00023)	0.00047 ± 0.000093	ND	0.3	
		2018/12/11 9:15 ~ 2018/12/11 15:15	ND (0.00022)	0.00047 ± 0.000075	ND	0.4	
		2018/11/13 9:15 ~ 2018/11/13 15:15	ND (0.00021)	0.00087 ± 0.000083	ND	0.3	
		2018/10/9 9:12 ~ 2018/10/9 15:12	ND (0.00022)	0.0010 ± 0.000095	ND	0.4	
		2018/9/11 9:08 ~ 2018/9/11 15:08	ND (0.00022)	ND (0.00021)	ND	0.4	
		2018/8/14 9:20 ~ 2018/8/14 15:20	ND (0.00022)	0.00023 ± 0.000072	ND	0.4	
		2018/7/10 9:09 ~ 2018/7/10 15:09	ND (0.00022)	0.0011 ± 0.000091	ND	0.4	
		2018/6/12 9:09 ~ 2018/6/12 15:09	ND (0.00019)	0.00071 ± 0.000077	ND	0.4	
		2018/5/8 9:12 ~ 2018/5/8 15:12	ND (0.00021)	ND (0.00021)	ND	0.4	
		2018/4/10 9:10 ~ 2018/4/10 15:10	ND (0.00025)	0.00034 ± 0.000073	ND	0.4	
63 双葉郡大熊町大字下野上 Futaba county Okuma town oaza Shimonogami	○	2019/1/8 10:49 ~ 2019/1/10 10:49	0.000059 ± 0.000010	0.00086 ± 0.000020	ND	0.5	
		2018/12/11 10:44 ~ 2018/12/13 10:44	ND (0.000028)	0.00015 ± 0.000011	ND	0.5	
		2018/11/13 10:55 ~ 2018/11/15 10:55	ND (0.000031)	0.000067 ± 0.0000099	ND	0.5	
		2018/10/9 10:54 ~ 2018/10/11 10:54	ND (0.000030)	0.00021 ± 0.000012	ND	0.5	
		2018/9/11 10:45 ~ 2018/9/13 10:45	ND (0.000028)	0.00017 ± 0.000012	ND	0.5	
		2018/8/14 11:03 ~ 2018/8/16 11:03	ND (0.000031)	0.00012 ± 0.000012	ND	0.5	
		2018/7/10 11:05 ~ 2018/7/12 11:05	ND (0.000030)	0.00022 ± 0.000012	ND	0.5	
		2018/6/12 10:45 ~ 2018/6/14 10:45	0.000028 ± 0.0000085	0.00025 ± 0.000013	ND	0.5	
		2018/5/8 10:58 ~ 2018/5/10 10:58	ND (0.000028)	0.000076 ± 0.000010	ND	0.5	
		2018/4/10 10:45 ~ 2018/4/12 10:45	ND (0.000028)	0.00013 ± 0.000011	ND	0.6	

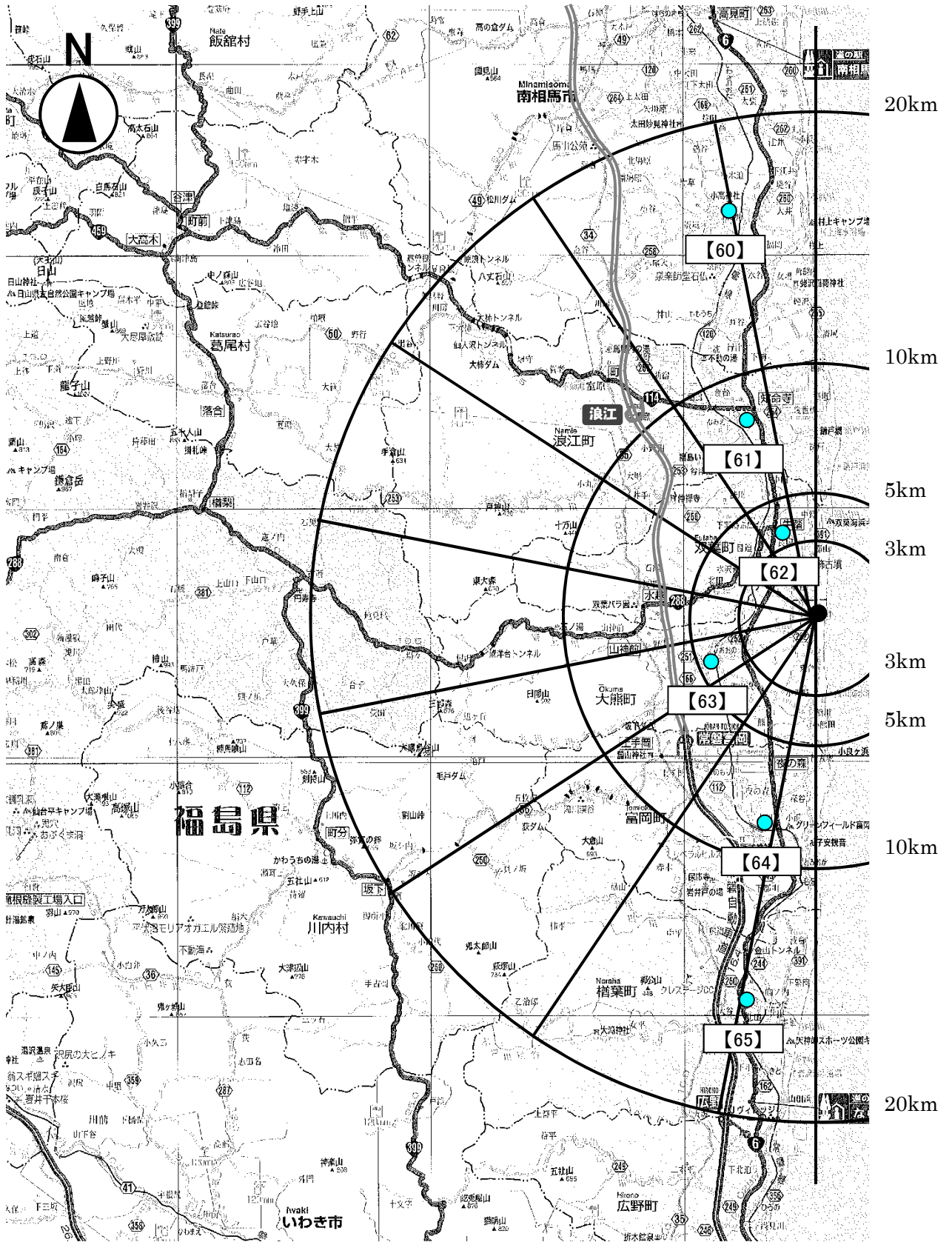
採取地点 Sampling Point	更新 Data updated	試料採取期間 Sampling period	放射性物質濃度 Radioactivity (Bq/m ³) *			空間線量率 Air dose rate (μ Sv/h)	備考 Remarks
			(検出限界値 Minimum Detectable Activity (Bq/m ³))				
			Cs-134	Cs-137	その他の人工核種 Other anthropogenic radionuclides		
64 双葉郡富岡町大字本岡 Futaba county Tomioka town oaza Motooka	○	2019/1/8 10:18 ~ 2019/1/10 10:18	ND (0.000031)	0.00049 ± 0.000017	ND	0.3	
		2018/12/11 10:20 ~ 2018/12/13 10:20	ND (0.000029)	0.00011 ± 0.000010	ND	0.3	
		2018/11/13 10:27 ~ 2018/11/15 10:27	ND (0.000030)	0.00014 ± 0.000011	ND	0.3	
		2018/10/9 10:22 ~ 2018/10/11 10:22	ND (0.000027)	0.00012 ± 0.000010	ND	0.3	
		2018/9/11 10:13 ~ 2018/9/13 10:13	ND (0.000028)	0.00011 ± 0.000010	ND	0.3	
		2018/8/14 10:31 ~ 2018/8/16 10:31	ND (0.000029)	0.00014 ± 0.000012	ND	0.3	
		2018/7/10 10:25 ~ 2018/7/12 10:25	ND (0.000043)	0.00016 ± 0.000011	ND	0.3	
		2018/6/12 10:11 ~ 2018/6/14 10:11	ND (0.000027)	0.000097 ± 0.000010	ND	0.3	
		2018/5/8 10:27 ~ 2018/5/10 10:27	ND (0.000028)	0.000060 ± 0.0000097	ND	0.3	
		2018/4/10 10:17 ~ 2018/4/12 10:17	ND (0.000027)	0.00015 ± 0.000011	ND	0.3	
65 双葉郡檜葉町大字北田 Futaba county Naraha town oaza Kitada	○	2019/1/8 9:53 ~ 2019/1/10 9:53	ND (0.000028)	ND (0.000032)	ND	0.1	
		2018/12/11 9:54 ~ 2018/12/13 9:54	ND (0.000028)	0.000039 ± 0.0000096	ND	0.1	
		2018/11/13 10:02 ~ 2018/11/15 10:02	ND (0.000029)	0.000044 ± 0.0000095	ND	0.1	
		2018/10/9 9:56 ~ 2018/10/11 9:56	ND (0.000026)	ND (0.000027)	ND	0.1	
		2018/9/11 9:48 ~ 2018/9/13 9:48	ND (0.000028)	0.000059 ± 0.0000093	ND	0.1	
		2018/8/14 10:05 ~ 2018/8/16 10:05	ND (0.000030)	ND (0.000030)	ND	0.1	
		2018/7/10 9:59 ~ 2018/7/12 9:59	ND (0.000029)	0.000045 ± 0.0000093	ND	0.1	
		2018/6/12 9:48 ~ 2018/6/14 9:48	ND (0.000027)	0.000053 ± 0.0000087	ND	0.1	
		2018/5/8 10:06 ~ 2018/5/10 10:06	ND (0.000028)	0.000054 ± 0.0000093	ND	0.1	
		2018/4/10 9:56 ~ 2018/4/12 9:56	ND (0.000027)	0.000033 ± 0.000010	ND	0.1	

* 「ND」は、測定値が検出限界値を下回った場合で、検出限界値を()書きにて記載。

* "ND" indicates the measured value was lower than each Minimum Detectable Activity shown in parenthesis.

[Abbreviation]

NRA : Nuclear Regulation Authority



福島第一原子力発電所 20km 圏内の大気浮遊じん試料採取ポイント

Dust sampling points in 20km Zone of Fukushima Dai-ichi NPP.

番号は試料採取ポイントを示す。
The numbers indicate the sampling points.

原子力規制委員会による大気浮遊じん放射性物質濃度測定結果

Readings of dust sampling by NRA

平成31年3月26日 Mar 26, 2019
原子力規制委員会 NRA

採取地点 Sampling Point	更新 Data updated	試料採取期間 Sampling period	放射性物質濃度 Radioactivity (Bq/m ³) *			空間線量率 Air dose rate (μ Sv/h)	備考 Remarks
			(検出限界値 Minimum Detectable Activity (Bq/m ³))				
			Cs-134	Cs-137	その他の人工核種 Other anthropogenic radionuclides		
300 相馬市中村 Soma city Nakamura 43km北北西 43km North/North/West	○	2019/1/16 14:10 ~ 2019/1/18 14:10	ND (0.000027)	ND (0.000026)	ND	0.1	
		2018/12/17 14:03 ~ 2018/12/19 14:03	ND (0.000026)	ND (0.000033)	ND	0.1	
		2018/11/13 13:48 ~ 2018/11/15 13:48	ND (0.000026)	ND (0.000028)	ND	0.1	
		2018/10/15 13:59 ~ 2018/10/17 13:59	ND (0.000027)	ND (0.000025)	ND	0.1	
		2018/9/18 13:48 ~ 2018/9/20 13:48	ND (0.000026)	ND (0.000031)	ND	0.1	
		2018/8/21 14:07 ~ 2018/8/23 14:07	ND (0.000027)	0.000038 ± 0.0000087	ND	0.1	
		2018/7/17 13:50 ~ 2018/7/19 13:50	ND (0.000027)	0.000031 ± 0.0000084	ND	0.1	
		2018/6/20 13:38 ~ 2018/6/22 13:38	ND (0.000027)	0.000030 ± 0.0000082	ND	0.1	
		2018/5/15 14:01 ~ 2018/5/17 14:01	ND (0.000028)	0.000080 ± 0.0000095	ND	0.1	
		2018/4/17 13:46 ~ 2018/4/19 13:46	ND (0.000027)	ND (0.000028)	ND	0.1	
		301 二本松市針道 Nihonmatsu city Harimichi 44km西北西 44km West/North/West	○	2019/1/16 10:53 ~ 2019/1/18 10:53	ND (0.000027)	ND (0.000028)	ND
2018/12/17 11:00 ~ 2018/12/19 11:00	ND (0.000026)			ND (0.000031)	ND	0.2	
2018/11/13 10:53 ~ 2018/11/15 10:53	ND (0.000027)			ND (0.000028)	ND	0.2	
2018/10/15 10:51 ~ 2018/10/17 10:51	ND (0.000027)			ND (0.000028)	ND	0.2	
2018/9/18 10:54 ~ 2018/9/20 10:54	ND (0.000027)			ND (0.000030)	ND	0.2	
2018/8/21 10:50 ~ 2018/8/23 10:50	ND (0.000030)			0.00013 ± 0.000010	ND	0.2	
2018/7/17 10:44 ~ 2018/7/19 10:44	ND (0.000027)			ND (0.000028)	ND	0.2	
2018/6/20 10:43 ~ 2018/6/22 10:43	ND (0.000027)			0.000033 ± 0.0000088	ND	0.2	
2018/5/15 11:00 ~ 2018/5/17 11:00	ND (0.000028)			ND (0.000024)	ND	0.2	
2018/4/17 10:42 ~ 2018/4/19 10:42	ND (0.000028)			ND (0.000024)	ND	0.2	

採取地点 Sampling Point	更新 Data updated	試料採取期間 Sampling period	放射性物質濃度 Radioactivity (Bq/m ³) * (検出限界値 Minimum Detectable Activity (Bq/m ³))			空間線量率 Air dose rate (μ Sv/h)	備考 Remarks
			Cs-134	Cs-137	その他の人工核種 Other anthropogenic radionuclides		
302 双葉郡浪江町下津島 Futaba county Namie town Shimotsushima	○	2019/1/22 10:22 ~ 2019/1/24 10:22	ND (0.000027)	0.000040 ± 0.0000090	ND	0.9	
		2018/12/18 10:36 ~ 2018/12/20 10:36	ND (0.000026)	0.000041 ± 0.000010	ND	0.9	
		2018/11/20 10:33 ~ 2018/11/22 10:33	ND (0.000026)	0.00012 ± 0.000011	ND	0.9	
		2018/10/23 10:31 ~ 2018/10/25 10:31	ND (0.000027)	0.000051 ± 0.0000094	ND	0.9	
		2018/9/19 10:26 ~ 2018/9/21 10:26	ND (0.000030)	0.00023 ± 0.000013	ND	0.9	
		2018/8/27 10:23 ~ 2018/8/29 10:23	ND (0.000027)	0.00012 ± 0.000010	ND	0.9	
		2018/7/24 10:24 ~ 2018/7/26 10:24	ND (0.000028)	0.000095 ± 0.000010	ND	1.0	
		2018/6/19 10:27 ~ 2018/6/21 10:27	ND (0.000026)	0.000093 ± 0.000010	ND	1.0	
		2018/5/22 10:25 ~ 2018/5/24 10:25	ND (0.000026)	0.000085 ± 0.0000099	ND	1.0	
		2018/4/18 10:25 ~ 2018/4/20 10:25	ND (0.000027)	0.000053 ± 0.0000090	ND	1.0	
303 田村市船引町船引 Tamura city Funehiki town Funehiki	○	2019/1/22 13:30 ~ 2019/1/24 13:30	ND (0.000027)	ND (0.000023)	ND	0.1	
		2018/12/18 13:48 ~ 2018/12/20 13:48	ND (0.000028)	ND (0.000030)	ND	0.1	
		2018/11/20 13:34 ~ 2018/11/22 13:34	ND (0.000027)	ND (0.000028)	ND	0.1	
		2018/10/23 13:43 ~ 2018/10/25 13:43	ND (0.000026)	0.000033 ± 0.0000080	ND	0.1	
		2018/9/19 13:34 ~ 2018/9/21 13:34	ND (0.000025)	ND (0.000031)	ND	0.1	
		2018/8/27 13:48 ~ 2018/8/29 13:48	ND (0.000027)	ND (0.000027)	ND	0.1	
		2018/7/24 13:33 ~ 2018/7/26 13:33	ND (0.000028)	0.000034 ± 0.0000085	ND	0.1	
		2018/6/19 13:27 ~ 2018/6/21 13:27	ND (0.000029)	ND (0.000027)	ND	0.1	
		2018/5/22 13:45 ~ 2018/5/24 13:45	ND (0.000027)	ND (0.000025)	ND	0.1	
		2018/4/18 13:24 ~ 2018/4/20 13:24	ND (0.000028)	ND (0.000025)	ND	0.1	

* 「ND」は、測定値が検出限界値を下回った場合で、検出限界値を()書きにて記載。

* "ND" indicates the measured value was lower than each Minimum Detectable Activity shown in parenthesis.

[Abbreviation]

NRA : Nuclear Regulation Authority

福島県による大気浮遊じん放射性物質濃度測定結果

Readings of dust sampling by Fukushima Prefecture

平成31年3月26日 Mar 26, 2019
原子力規制委員会 NRA

採取地点 Sampling Point	更新 Data updated	試料採取期間 Sampling period	放射性物質濃度 Radioactivity (Bq/m ³) * (検出限界値 Minimum Detectable Activity (Bq/m ³))			空間線量率 Air dose rate (μ Sv/h)	備考 Remarks
			Cs-134	Cs-137	その他の人工核種 Other anthropogenic radionuclides		
1A 福島市方木田 Fukushima city Houkida	63km北西 63km North/West	2019/1/7 13:07 ~ 2019/1/8 13:07	ND (0.000038)	ND (0.000032)	ND	測定せず Not measured	
		2018/12/6 16:25 ~ 2018/12/7 16:25	ND (0.000038)	0.000042 ± 0.0000077	ND	測定せず Not measured	
		2018/11/5 13:05 ~ 2018/11/6 13:05	ND (0.000032)	0.000032 ± 0.0000065	ND	測定せず Not measured	
		2018/10/4 13:05 ~ 2018/10/5 13:05	ND (0.000035)	0.000029 ± 0.0000088	ND	測定せず Not measured	
		2018/9/6 14:25 ~ 2018/9/7 14:25	ND (0.000035)	ND (0.000028)	ND	測定せず Not measured	
		2018/8/14 11:50 ~ 2018/8/15 11:50	ND (0.000030)	ND (0.000027)	ND	測定せず Not measured	
		2018/7/5 13:07 ~ 2018/7/6 13:07	ND (0.000034)	0.000036 ± 0.0000072	ND	測定せず Not measured	
		2018/6/4 13:30 ~ 2018/6/5 13:30	ND (0.000037)	0.000037 ± 0.0000078	ND	測定せず Not measured	
		2018/5/15 10:30 ~ 2018/5/16 10:30	ND (0.000034)	ND (0.000025)	ND	測定せず Not measured	
		2018/4/3 13:50 ~ 2018/4/4 13:50	ND (0.000031)	0.000056 ± 0.0000078	ND	測定せず Not measured	

* 「ND」は、測定値が検出限界値を下回った場合で、検出限界値を()書きにて記載。
* "ND" indicates the measured value was lower than each Minimum Detectable Activity shown in parenthesis.

[Abbreviation]
NRA : Nuclear Regulation Authority

