

Environmental Monitoring results and analyses

---- The 3rd Quarter of FY2021 ---
(From October 1 to December 31, 2021)

January 25, 2022

The Nuclear Regulation Authority, Japan

In accordance with the “Comprehensive Radiation Monitoring Plan”, the relevant organizations released the monitoring data in the period from October 1 to December 31, 2021 and analyzed them. This monitoring scheme aims to make a continuous measurement of air dose rates and the concentration 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 rates : in a decreasing trend ; no significant variation observed
- Concentrations of radioactive materials in the air : in a decreasing trend ; no significant variation observed
- Concentrations of radioactive materials in monthly deposition : in a decreasing trend ; no significant variation observed
- Concentrations of radioactive materials in seawater : in a decreasing trend ; no significant variation observed
- Concentrations of radioactive materials in sea sediment : in a decreasing trend ; no significant variation observed

【Other areas in Japan】

- Air dose rates : fluctuating only a little around the same level before the accident ; no significant variation observed
- Concentrations of radioactive materials in monthly deposition : in a decreasing trend ; no significant variation observed
- Concentrations of radioactive materials in sea area : in a decreasing trend ; no significant variation observed

- The above-mentioned “significant variation” means a “change different from the trend in the past”.
- Refer to the following URL for detailed information including attached materials:
<https://www.nsr.go.jp/activity/monitoring/monitoring2-2.html>
- Refer to the following URL for monitoring results:
<https://radioactivity.nsr.go.jp/ja/index.html>
- Refer to the Appendix for detailed information and the Attached Document for basic data.

Environmental Monitoring results and analyses (detailed)

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The Nuclear Regulation Authority, Japan

In accordance with the “Comprehensive Radiation Monitoring Plan”, the relevant organizations released the monitoring data in the period from October 1 to December 31, 2021 and analyzed them. This monitoring scheme aims to make a continuous measurement of air dose rates and the 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

【 Terrestrial area 】

1 Air dose

The air doses were in a decreasing trend and no significant variation was observed in this quarter.

(i) Air dose rates

Responsible organizations: NRA (The Nuclear Regulation Authority) and
Fukushima prefectural government

Measuring period : October 1 - December 31, 2021

Measuring points : Fukushima prefecture

Measuring method : Measurement using monitoring posts

Monitoring results : Refer to the following URL:

<https://www.erms.nsr.go.jp/nra-ramis-webg/> (Air dose rates across Japan)

(ii) Car-borne monitoring

Monitoring results : Refer to the following URLs:

Responsible organizations: Cabinet Office

<https://www.meti.go.jp/earthquake/nuclear/release.html>

Responsible organizations: Fukushima prefectural government

<https://www.pref.fukushima.lg.jp/site/portal/ps-soukou.html>

(iii) Airborne monitoring

Monitoring results : Refer to the following URL:

Responsible organizations: NRA

<https://radioactivity.nsr.go.jp/en/list/307/list-1.html>

(iv) Precise monitoring in zones under evacuation orders and zones where evacuation orders have been lifted

Monitoring results : Refer to the following URL:

Responsible organizations: NRA

<https://radioactivity.nsr.go.jp/ja/contents/13000/12476/view.html>

(v) Accumulated doses

Responsible organizations: NRA (The Nuclear Regulation Authority)

Measuring period : June 28 - September 29, 2021 (Accumulated day: 92 days)

Measuring points : beyond 20 km from Fukushima Daiichi NPS (14 points)

Measuring method : Measurement using glass badge dosimeters

Monitoring results : Less than lower limit of measurement (0.1 mSv) – 3.5 mSv/3months

(Refer to Attached Document page 1)

Previous data : Less than lower limit of measurement – 3.9 mSv/3months

(April - June, 2021)

Less than lower limit of measurement - 4.2 mSv/3months

(April, 2020 - March, 2021)

2 Concentrations of radioactive materials in air

The concentrations of radioactive materials in air were in a decreasing trend and no significant variation was observed in this quarter.

(All results in the monitoring period were under the level of concentration limit ^(Note 1) specified by the law related to nuclear regulation in Japan)

① Within 20 km from Fukushima Daiichi NPS (6 sampling points)

Responsible organization : NRA

Sampling period : August 10 - October 14, 2021

Monitoring results : Activity concentrations of Cs-134 were all “ND”(not detected) ;
Cs-137 were from ND to 0.00033 Bq/m³.

(Refer to Attached Document pages 2-4)

Previous data : Activity concentrations of Cs-134 were from ND to 0.000055 Bq/m³ ;
Cs-137 were from ND to 0.0012 Bq/m³. (May - July, 2021)

Cs-134 were from ND to 0.000049 Bq/m³ ;

Cs-137 were from ND to 0.00083 Bq/m³. (March, 2020 - April, 2021)

② Beyond 20 km from Fukushima Daiichi NPS (5 sampling points)

Responsible organizations : NRA, Fukushima prefectural government

Sampling period : August 6 - October 28, 2021

Monitoring results : Activity concentrations of Cs-134 were all “ND” ;
Cs-137 were from ND to 0.000076 Bq/m³.

(Refer to Attached Document pages 5-7)

Previous data : Activity concentrations of Cs-134 were all ND.

Cs-137 were from ND to 0.00012 Bq/m³. (April - July, 2021)

Cs-134 were from ND to 0.000067 Bq/m³ ;

Cs-137 were from ND to 0.0011 Bq/m³. (March, 2020 - April, 2021)

3 Concentrations of radioactive materials in monthly deposition

The concentrations of radioactive materials in monthly deposition were in a decreasing trend and no significant change was observed in this quarter.

(i) Responsible organization: Fukushima prefectural government

Sampling period: September - November, 2021

Sampling points: Fukushima prefecture (Fukushima city)

Analytical method: Measurement after evaporating all monthly samples

Monitoring Results:

Activity concentrations of Cs-134 were from ND to 0.063 MBq/km²/month ;

Cs-137 were from 0.88 to 1.2 MBq/km²/month.

(See Attached Document pages 8-10)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 11)

[Sea Area]

4 Concentrations of radioactive materials in seawater

The concentrations of radioactive materials in seawater were in a decreasing trend and no significant variation was observed in this quarter.

① Seawater near the Fukushima Daiichi NPS

· Cs-134 and Cs-137 analyses

(All results in the monitoring period were under the level of the concentration limit

[Note 1] specified by the law of Japan.)

(i) Responsible organization: TEPCO

Sampling period: August 30 - November 22, 2021

Analytical method: Coprecipitation method using ammonium phosphomolybdate,
sample amount: 20 L

Measurement time: 5,000 seconds

Monitoring result: Activity concentrations of Cs-134 were from ND to 0.019 Bq/L ;

Cs-137 were from 0.023 to 0.48 Bq/L.

(See Attached Document page 12)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 13)

- (ii) Responsible organization: NRA
Sampling period: September 9 - November 5, 2021
Analytical method: Coprecipitation method using ammonium phosphomolybdate,
sample amount: 60 L
Measurement time: 60,000 - 230,000 seconds
Monitoring results: Activity concentrations of Cs-134 were from ND to 0.0035 Bq/L ;
Activity concentrations of Cs-137 were from 0.0047 to 0.093 Bq/L.
(See Attached Document page 14)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 15)

- (iii) Responsible organization: Fukushima prefectural government
Sampling period: July 6 - September 2, 2021
Analytical method: Coprecipitation method using ammonium phosphomolybdate,
sample amount: 20 L
Measurement time: 80,000 seconds
Monitoring results: Activity concentrations of Cs-134 were from ND to 0.010 Bq/L ;
Activity concentrations of Cs-137 were from 0.006 to 0.31 Bq/L.
(See Attached Document page 16)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 17)

· H-3 analysis

(All results in the monitoring period were under the level of the concentration limit [Note 1]
specified by the law in Japan.)

- (i) Responsible organization: TEPCO
Sampling period: September 8 - November 1, 2021
Analytical method: Atmospheric distillation
Sampling amount: 50 mL
Measurement time: 5,400 seconds
Monitoring results: Activity concentrations of H-3 were from ND to 2.1 Bq/L.
(See Attached Document page 12)

- (ii) Responsible organization: NRA
Sampling period: July 13 - September 10, 2021
Analytical method: Electrolytic enrichment technique
Sampling amount: 500 mL
Measurement time: 30,000 seconds
Monitoring results: Activity concentrations of H-3 were from ND to 0.38 Bq/L.
(See Attached Document page 14)

The trends of activity concentrations from November, 2013 to the end of FY2020 are
shown in the graphs. (See Attached Document page 29)

- (iii) Responsible organization: Fukushima prefectural government
Sampling period: July 6 - September 10, 2021
Analytical method: Reduced-pressure distillation
Sampling amount: 50 mL
Measurement time: 30,000 seconds
Monitoring results: Activity concentrations of H-3 were from ND to 1.4 Bq/L.
(See Attached Document page 16)

· Sr-90 analysis

(All results in the monitoring period were under the level of the concentration limit [Note 1] specified by the law in Japan.)

- (i) Responsible organization: TEPCO
Sampling period: September 8 - November 1, 2021
Analytical method: Y-90 milking method
Sampling amount: 40 L
Measurement time: 6,000 seconds
Monitoring results: Activity concentrations of Sr-90 were from 0.0020 to 0.081 Bq/L.
(See Attached Document page 12)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 13)

- (ii) Responsible organization: NRA
Sampling period: August 6 - October 8, 2021
Analytical method: Y-90 milking method
Sampling amount: 40 L
Measurement time: 6,000 seconds
Monitoring results: Activity concentrations of Sr-90 were from 0.00072 to 0.011 Bq/L.
(See Attached Document page 14)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 15)

- (iii) Responsible organization: Fukushima prefectural government
Sampling period: July 6 - September 2, 2021
Analytical method: Y-90 milking method
Sampling amount: 50 L
Measurement time: 3,600 seconds
Monitoring results: Activity concentrations of Sr-90 were from 0.0006 to 0.035 Bq/L.
(See Attached Document page 16)

The trends of activity concentrations are shown in the graphic charts.

(See Attached Document page 17)

Refer to the following URL for the result of daily measurement, etc.

Responsible organizations: TEPCO

<https://radioactivity.nsr.go.jp/en/list/246/list-1.html>

② Radioactivity concentration in seawater around Fukushima Daiichi NPS

• Cs-134 and Cs-137 Analysis

(i) Responsible organization: TEPCO

Sampling period: August 23 - November 25, 2021

Analysis method: Coprecipitation method using ammonium phosphomolybdate

Sample amount: 30 L

Measuring time: 5,000 - 80,000 seconds

Monitoring results: Activity concentrations of Cs-134 were from ND to 0.0017 Bq/L ;
Cs-137 were from 0.0013 to 0.050 Bq/L.

(See Attached Document pages 19-22)

The trends of activity concentrations at the main points are shown in the graphs.

(See Attached Document page 23)

(ii) Responsible organization: NRA

Sampling period: September 9 - November 5, 2021

Analytical method: Coprecipitation method using ammonium phosphomolybdate,
sample amount: 60 L

Measurement time: 60,000 - 230,000 seconds

Monitoring results: Activity concentrations of Cs-134 were from ND to 0.00057 Bq/L ;
Activity concentrations of Cs-137 were from 0.0027 to 0.014 Bq/L.

(See Attached Document page 24)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 25)

(iii) Responsible organization: Fukushima prefectural government

Sampling period: July 6 - September 2, 2021

Analysis method: Coprecipitation method using ammonium phosphomolybdate

Sample amount: 20 L

Measuring time: 80,000 seconds

Monitoring results: Activity concentrations of Cs-134 were all ND ;
Activity concentrations of Cs-137 were from 0.005 to 0.010 Bq/L.

(See Attached Document page 26)

The trends of concentrations at the main points are shown in the graphs.

(See Attached Document page 27)

• H-3 Analysis

(i) Responsible organization: TEPCO

Sampling period: September 7 - November 16, 2021

Analysis method: Atmospheric-pressure distillation

Sample amount: 50 mL

Measuring time: 42,000 seconds

Monitoring results: Activity concentrations of H-3 were from ND to 0.42 Bq/L.

(See Attached Document pages 19-21)

- (ii) Responsible organization: NRA
Sampling period: July 13 - September 10, 2021
Analytical method: Electrolytic enrichment technique
Sampling amount: 500 mL
Measurement time: 30,000 seconds
Monitoring results: Activity concentrations of H-3 were from 0.074 to 0.16 Bq/L.
(See Attached Document page 24)
- The trends of activity concentrations from November, 2013 to the end of FY2020 are shown in the graphs. (See Attached Document page 29)
- (iii) Responsible organization: Fukushima prefectural government
Sampling period: July 6 - September 2, 2021
Analysis method: Reduced-pressure distillation
Sample amount: 50 mL
Measuring time: 30,000 seconds
Monitoring results: Activity concentrations of H-3 were all ND.
(See Attached Document page 26)
- Sr-90 Analysis
- (i) Responsible organization: TEPCO
Sampling period: September 9 - November 1, 2021
Analysis method: Y-90 milking method
Sample amount: 40 L
Measuring time: 6,000 seconds
Monitoring results: Activity concentrations of Sr-90 were from ND to 0.0014 Bq/L.
(See Attached Document pages 20-21)
- (ii) Responsible organization: NRA
Sampling period: August 6 - October 8, 2021
Analytical method: Y-90 milking method
Sampling amount: 40 L
Measurement time: 6,000 seconds
Monitoring results: Activity concentrations of Sr-90 were from 0.00066 to 0.0011 Bq/L.
(See Attached Document page 24)
- (iii) Responsible organization: Fukushima prefectural government
Sampling period: July 6 - September 2, 2021
Analysis method: Y-90 milking method
Sample amount: 50 L
Measuring time: 3,600 seconds
Monitoring result: Activity concentrations of Sr-90 were from 0.0008 to 0.0016 Bq/L.
(See Attached Document page 26)
- The trends of activity concentrations are shown in the graphs.
(See Attached Document page 27)
- ③ Radioactivity concentration in seawater at the other coast of Fukushima, at

coast of Miyagi and Ibaraki Prefecture

Monitoring results : Refer to the following URL:

Responsible organizations: TEPCO

<https://radioactivity.nsr.go.jp/en/list/245/list-1.html>

- ④ Radioactivity concentration in seawater at offshore Miyagi, Fukushima, Ibaraki and Chiba Prefecture

Monitoring results : Refer to the following URL:

Responsible organizations: NRA

<https://radioactivity.nsr.go.jp/en/list/292/list-1.html>

The trends of activity concentrations of H-3 from May, 2013 to the end of FY2020 are shown in the graphs. (See Attached Document page 30)

5 Concentrations of radioactive materials in sea sediment

The concentrations of radioactive materials in sea sediment were in a decreasing trend and no significant variation was observed in this quarter.

① Sea-sediment near the Fukushima Daiichi NPS

· Cs-134 and Cs-137 analyses

(i) Responsible organization: TEPCO

Sampling period: August 2 - November 1, 2021

Monitoring results: Activity concentrations of Cs-134 were from 3.7 to 14 Bq/kg ;
Cs-137 were from 130 to 350 Bq/kg.

(See Attached Document page 31)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 33)

(ii) Responsible organization: Fukushima prefectural government

Sampling date: August 4, 2021

Monitoring results: Activity concentrations of Cs-134 were from ND to 10 Bq/kg ;
Cs-137 were from 20 to 260 Bq/kg.

Activity concentrations of Sr-90 were from ND to 0.39 Bq/kg.

(See Attached Document page 36)

The trends of activity concentrations are shown in the graphs.

(See Attached Document page 38)

② Sea-sediment around the Fukushima Daiichi NPS

· Cs-134 and Cs-137 analyses

(i) Responsible organization: TEPCO

Sampling period: August 2 - November 30, 2021

Monitoring results: Activity concentrations of Cs-134 were from ND to 27 Bq/kg ;
Cs-137 were from 2.4 to 730 Bq/kg.

(See Attached Document pages 31-32)

The trends of concentrations at the main points are shown in the graphs.

(See Attached Document page 34)

(ii) Responsible organization: Fukushima prefectural government

Sampling date: August 4, 2021

Monitoring results: Activity concentrations of Cs-134 were from 1.0 to 1.1 Bq/kg ;
Cs-137 were from 23 to 27 Bq/kg.

Activity concentrations of Sr-90 were all ND.

(See Attached Document page 37)

The trends of concentrations are shown in the graphs.

(See Attached Document page 38)

③ Radioactivity concentration in seawater at offshore of Miyagi, Fukushima, Ibaraki and Chiba Prefecture

Monitoring results : Refer to the following URL:

Responsible organizations: NRA

<https://radioactivity.nsr.go.jp/en/list/272/list-1.html>

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

1. Air dose rates (Responsible organization: NRA)

Refer to the following URL for nationwide air dose rates:

<https://www.erms.nsr.go.jp/nra-ramis-webg/>

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

https://radioactivity.nsr.go.jp/ja/contents/1000/211/0/Location_and_GPS_data_of_monitoring_posts_in_47_prefectures.pdf

2. Concentrations of radioactive materials in monthly deposition
(Monitoring results of radioactivity levels in the environment)
(Monitoring points: 46 prefectures (excluding Fukushima prefecture)
(Responsible organization: 46 prefectures (excluding Fukushima prefecture)

· Cs-134 and Cs-137 analyses

Sampling period: September - November, 2021

Analytical method: Measurement after evaporating all monthly samples

Monitoring results: Activity concentrations of Cs-134 were from ND to 0.066 MBq/km²/month;
Activity concentrations of Cs-137 were from ND to 0.48 MBq/km²/month.

(See Attached Document pages 8-10)

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

(Responsible organization: the Ministry of the Environment)

Monitoring results : Refer to the following URL:

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

4. Sea Area Monitoring at the Outer Sea (Seawater)

Monitoring results : Refer to the following URLs:

Responsible organizations: NRA

<https://radioactivity.nsr.go.jp/en/list/291/list-1.html>

Responsible organization: Japan Coast Guard

<https://www1.kaiho.mlit.go.jp/KANKYO/OSEN/housha.html>

5. Concentrations of radioactive materials at the entrance of Tokyo Bay

Monitoring results : Refer to the following URLs:

Responsible organizations: NRA

<https://radioactivity.nsr.go.jp/en/list/290/list-1.html>

Responsible organizations: the Ministry of the Environment

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

Responsible organization: Ministry of Land, Infrastructure, Transport and Tourism

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

III. Other monitoring results

Monitoring results of foodstuff

Refer to the following URLs:

① The concentrations of radioactive materials in foodstuff:

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

② The concentrations of radioactive materials in marine products:

<https://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:

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

For reference (TEPCO):

<https://www.tepco.co.jp/decommission/data/analysis/index-j.html>

[Note 1]

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

The authorized discharge limit as a concentration level of each radioactive material in seawater:

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

The authorized discharge limit as a concentration level of each radioactive material in air :

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

福島第一原子力発電所の20km以遠の積算線量結果について(ガラスバッジによる測定)
Readings of Accumulated Dose at Reading points out of 20 km Zone of Fukushima Dai-ichi NPP (measured by glass badge dosimeter)

令和3年11月2日
原子力規制委員会

Nov 2, 2021
Nuclear Regulation Authority (NRA)

ガラスバッジによる値

Value measured by glass badge dosimeter

測定場所(福島第一原子力発電所からの距離) Reading point (length from Fukushima Dai-ichi NPP)	測定開始年月日 Measurement Start Date	6月の回収年月日 Collection Date	6月末までの積算日数 Accumulated Day (x)	6月末までの積算数値 Reading of Accumulated Dose (a) (mSv)	回収年月日 Collection Date	7~9月の積算日数 Accumulated Day (y)	7~9月の積算数値 Reading of Accumulated Dose (b) (mSv)	9月末までの総積算日数 Accumulated Day (z = x + y)	9月末までの総積算数値 Reading of Accumulated Dose (c = a + b) (mSv)
【31】 双葉郡浪江町津島(30km西北西) Futaba county Namie town Tsushima (30km West/North/West)	2011/3/23	2021/6/29	3750	240.6	2021/9/29	92	0.7	3842	241.3
【32】 双葉郡浪江町赤宇木(32km北西) Futaba county Namie town Akougi (32km North/West)	2011/3/23	2021/6/29	3750	591.1	2021/9/29	92	3.5	3842	594.6
【33】 相馬郡飯館村長泥(33km北西) Soma county litate village Nagadoro (33km North/West)	2011/3/23	2021/6/29	3750	314.5	2021/9/29	92	1.8	3842	316.3
【34】 双葉郡浪江町津島(30km西北西) Futaba county Namie town Tsushima (30km West/North/West)	2011/4/26	2021/6/29	3717	110.6	2021/9/29	92	0.7	3809	111.3
【38】 いわき市四倉町中島(34km南南西) Iwaki city Yotsukura town Nakajima (34km South/South/West)	2011/3/31	2021/6/28	3742	10.9	2021/9/28	92	0.1	3834	11.0
【71】 双葉郡広野町下浅見川(23km南) Futaba county Hirono town Shimoasamigawa (23km South)	2011/5/1	2021/6/28	3712	8.8	2021/9/28	92	有効測定範囲の下限值 (0.1mSv)未満 Less than lower limit of measurement (0.1mSv)	3804	8.8
【79】 双葉郡浪江町下津島(29km西北西) Futaba county Namie town Shimotsushima (29km West/North/West)	2011/3/23	2021/6/29	3750	259.9	2021/9/29	92	0.9	3842	260.8
【7】 南相馬市鹿島区寺内(32km北) Minamisoma city Kashima ward Terauchi (32km North)	2011/3/23	2021/6/29	3750	14.1	2021/9/29	92	0.1	3842	14.2
【1】 福島市杉妻町(62km北西) Fukushima city Sugitsuma town (62km North/West)	2011/3/23	2021/6/29	3750	15.2	2021/9/29	92	0.1	3842	15.3
【39】 相馬市山上(41km北北西) Soma city Yamakami (41km North/North/West)	2011/4/1	2021/6/29	3742	9.4	2021/9/29	92	有効測定範囲の下限值 (0.1mSv)未満 Less than lower limit of measurement (0.1mSv)	3834	9.4
【84】 いわき市三和町差塩(39km南西) Iwaki city Miwa town Saiso (39km South/West)	2016/3/28	2021/6/28	1918	1.1	2021/9/28	92	有効測定範囲の下限值 (0.1mSv)未満 Less than lower limit of measurement (0.1mSv)	2010	1.1
【76】 双葉郡川内村上川内(22km西南西) Futaba county Kawauchi village Kamikawauchi (22km West/South/West)	2016/3/28	2021/6/28	1918	2.0	2021/9/28	92	0.1	2010	2.1
【80】 南相馬市原町区高見町(24km北) Minamisoma city Haramachi ward Takami town (24km North)	2011/4/3	2021/6/28	3739	9.8	2021/9/28	92	0.1	3831	9.9
【21】 双葉郡葛尾村上野川(31km西北西) Futaba county Katsurao village Kaminogawa (31km West/North/West)	2011/4/1	2021/6/28	3741	62.7	2021/9/28	92	0.2	3833	62.9

福島第一原子力発電所20km圏内の大気浮遊じん放射放射性物質濃度測定結果

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

令和3年12月7日 Dec 7, 2021
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	○	2021/10/12 12:39 ~ 2021/10/14 12:39	ND (0.000028)	ND (0.000026)	ND	0.10	
		2021/9/14 12:10 ~ 2021/9/16 12:10	ND (0.000025)	ND (0.000027)	ND	0.09	
		2021/8/10 12:25 ~ 2021/8/12 12:25	ND (0.000026)	ND (0.000027)	ND	0.09	
		2021/7/13 13:03 ~ 2021/7/15 13:03	ND (0.000026)	0.000032 ± 0.0000077	ND	0.08	
		2021/6/8 12:54 ~ 2021/6/10 12:54	ND (0.000027)	0.000059 ± 0.000010	ND	0.10	
		2021/5/11 12:30 ~ 2021/5/13 12:30	ND (0.000027)	ND (0.000026)	ND	0.09	
		2021/4/13 12:45 ~ 2021/4/15 12:45	ND (0.000025)	ND (0.000025)	ND	0.09	
61 双葉郡浪江町大字幾世橋 Futaba county Namie town oaza Kiyohashi	○	2021/10/12 12:12 ~ 2021/10/14 12:12	ND (0.000026)	0.000042 ± 0.0000088	ND	0.09	
		2021/9/14 11:44 ~ 2021/9/16 11:44	ND (0.000027)	0.000033 ± 0.000013	ND	0.07	
		2021/8/10 12:01 ~ 2021/8/12 12:01	ND (0.000028)	0.000031 ± 0.000013	ND	0.07	
		2021/7/19 12:52 ~ 2021/7/21 12:52	0.000046 ± 0.0000093	0.0010 ± 0.000021	ND	0.06	
		2021/6/8 12:25 ~ 2021/6/10 12:25	ND (0.000028)	0.000073 ± 0.000011	ND	0.07	
		2021/5/11 12:11 ~ 2021/5/13 12:11	ND (0.000026)	0.000039 ± 0.0000090	ND	0.08	
		2021/4/13 12:29 ~ 2021/4/15 12:29	ND (0.000026)	0.000043 ± 0.0000090	ND	0.08	
62 双葉郡双葉町新山前沖 Futaba county Futaba town Shinzanmaeoki	○	2021/10/12 11:35 ~ 2021/10/14 11:35	ND (0.000028)	0.000060 ± 0.0000095	ND	0.28	
		2021/9/14 11:17 ~ 2021/9/16 11:17	ND (0.000026)	0.000093 ± 0.000010	ND	0.24	
		2021/8/10 11:32 ~ 2021/8/12 11:32	ND (0.000026)	0.000081 ± 0.0000095	ND	0.22	
		2021/7/13 12:00 ~ 2021/7/15 12:00	ND (0.000026)	0.000059 ± 0.0000091	ND	0.24	
		2021/6/8 11:46 ~ 2021/6/10 11:46	ND (0.000028)	0.000035 ± 0.000014	ND	0.25	
		2021/5/11 11:16 ~ 2021/5/13 11:16	0.000055 ± 0.0000095	0.0012 ± 0.000022	ND	0.26	
		2021/4/13 11:57 ~ 2021/4/15 11:57	ND (0.000026)	0.000071 ± 0.0000093	ND	0.26	

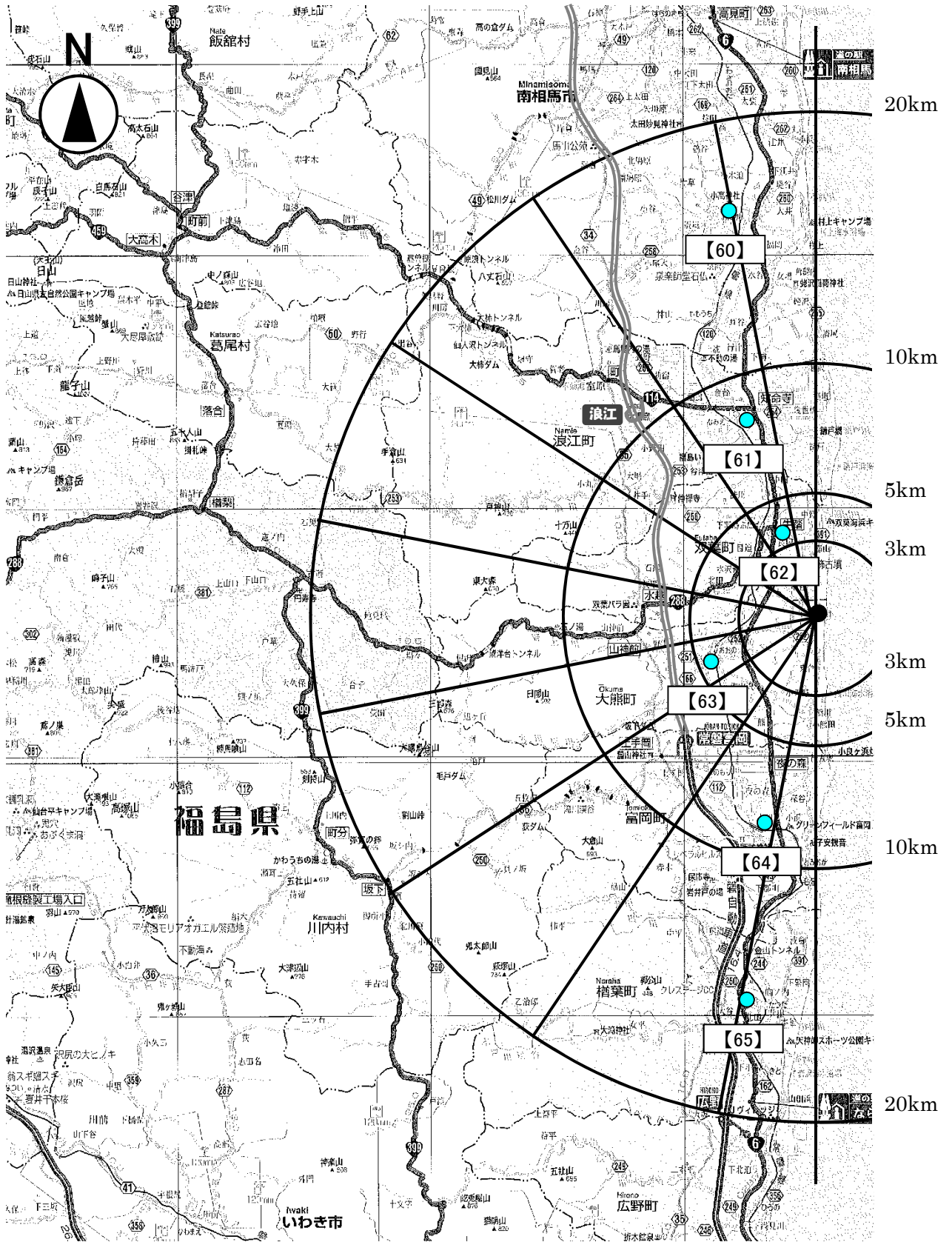
採取地点 Sampling Point	更新 Data updated	試料採取期間 Sampling period	放射性物質濃度 Radioactivity (Bq/m ³) *			空間線量率 Air dose rate (μ Sv/h)	備考 Remarks
			(検出限界値 Minimum Detectable Activity (Bq/m ³))				
			Cs-134	Cs-137	その他の人工核種 Other anthropogenic radionuclides		
63 双葉郡大熊町大字下野上 Futaba county Okuma town oaza Shimonogami	○	2021/10/12 11:10 ~ 2021/10/14 11:10	ND (0.000026)	0.00012 ± 0.000010	ND	0.41	
		2021/9/14 10:52 ~ 2021/9/16 10:52	ND (0.000029)	0.00015 ± 0.000011	ND	0.38	
		2021/8/10 11:10 ~ 2021/8/12 11:10	ND (0.000028)	0.000086 ± 0.000010	ND	0.37	
		2021/7/13 11:24 ~ 2021/7/15 11:24	ND (0.000027)	0.00017 ± 0.000012	ND	0.40	
		2021/6/8 11:14 ~ 2021/6/10 11:14	ND (0.000030)	0.00026 ± 0.000013	ND	0.41	
		2021/5/11 10:53 ~ 2021/5/13 10:53	ND (0.000029)	0.00010 ± 0.000010	ND	0.44	
		2021/4/13 11:33 ~ 2021/4/15 11:33	ND (0.000027)	0.00021 ± 0.000012	ND	0.44	
64 双葉郡富岡町大字本岡 Futaba county Tomioka town oaza Motooka	○	2021/10/12 10:34 ~ 2021/10/14 10:34	ND (0.000028)	0.000087 ± 0.000011	ND	0.20	
		2021/9/14 10:20 ~ 2021/9/16 10:20	ND (0.000030)	0.000067 ± 0.0000096	ND	0.22	
		2021/8/10 10:37 ~ 2021/8/12 10:37	ND (0.000028)	0.000071 ± 0.0000097	ND	0.19	
		2021/7/13 10:45 ~ 2021/7/15 10:45	ND (0.000027)	0.000099 ± 0.0000095	ND	0.22	
		2021/6/8 10:38 ~ 2021/6/10 10:38	0.000033 ± 0.000010	0.00055 ± 0.000016	ND	0.20	
		2021/5/11 10:24 ~ 2021/5/13 10:24	ND (0.000029)	0.000051 ± 0.0000091	ND	0.22	
		2021/4/13 10:59 ~ 2021/4/15 10:59	ND (0.000028)	0.00025 ± 0.000012	ND	0.22	
65 双葉郡檜葉町大字北田 Futaba county Naraha town oaza Kitada	○	2021/10/12 10:11 ~ 2021/10/14 10:11	ND (0.000028)	0.000033 ± 0.0000094	ND	0.11	
		2021/9/14 9:55 ~ 2021/9/16 9:55	ND (0.000026)	ND (0.000025)	ND	0.11	
		2021/8/10 10:12 ~ 2021/8/12 10:12	ND (0.000027)	ND (0.000028)	ND	0.11	
		2021/7/13 10:17 ~ 2021/7/15 10:17	ND (0.000027)	0.000043 ± 0.0000088	ND	0.11	
		2021/6/8 10:13 ~ 2021/6/10 10:13	ND (0.000029)	ND (0.000026)	ND	0.11	
		2021/5/11 10:00 ~ 2021/5/13 10:00	ND (0.000030)	ND (0.000027)	ND	0.11	
		2021/4/13 10:31 ~ 2021/4/15 10:31	ND (0.000028)	0.000056 ± 0.0000094	ND	0.11	

* 「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.

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		
300 相馬市中村 Soma city Nakamura 43km北北西 43km North/North/West	○	2021/10/19 13:52 ~ 2021/10/21 13:52	ND (0.000029)	ND (0.000027)	ND	0.07	
		2021/9/13 13:50 ~ 2021/9/15 13:50	ND (0.000026)	ND (0.000027)	ND	0.06	
		2021/8/17 14:00 ~ 2021/8/19 14:00	ND (0.000027)	ND (0.000026)	ND	0.06	
		2021/7/19 14:13 ~ 2021/7/21 14:13	ND (0.000025)	ND (0.000024)	ND	0.06	
		2021/6/21 14:20 ~ 2021/6/23 14:20	ND (0.000026)	ND (0.000026)	ND	0.07	
		2021/5/18 14:23 ~ 2021/5/20 14:23	ND (0.000026)	ND (0.000029)	ND	0.06	
		2021/4/13 13:38 ~ 2021/4/15 13:38	ND (0.000025)	ND (0.000023)	ND	0.06	
301 二本松市針道 Nihonmatsu city Harimichi 44km西北西 44km West/North/West	○	2021/10/19 11:00 ~ 2021/10/21 11:00	ND (0.000025)	ND (0.000025)	ND	0.14	
		2021/9/13 10:52 ~ 2021/9/15 10:52	ND (0.000026)	0.000045 ± 0.0000081	ND	0.14	
		2021/8/17 10:55 ~ 2021/8/19 10:55	ND (0.000027)	ND (0.000024)	ND	0.15	
		2021/7/19 10:47 ~ 2021/7/21 10:47	ND (0.000027)	ND (0.000023)	ND	0.15	
		2021/6/21 11:08 ~ 2021/6/23 11:08	ND (0.000026)	ND (0.000025)	ND	0.14	
		2021/5/18 11:07 ~ 2021/5/20 11:07	ND (0.000027)	0.000029 ± 0.0000094	ND	0.14	
		2021/4/13 10:48 ~ 2021/4/15 10:48	ND (0.000028)	0.000069 ± 0.0000088	ND	0.15	
302 双葉郡浪江町下津島 Futaba county Namie town Shimotsushima 29km西北西 29km West/North/West	○	2021/10/26 10:42 ~ 2021/10/28 10:42	ND (0.000027)	ND (0.000025)	ND	0.52	
		2021/9/14 10:42 ~ 2021/9/16 10:42	ND (0.000026)	0.000072 ± 0.0000097	ND	0.53	
		2021/8/24 10:42 ~ 2021/8/26 10:42	ND (0.000026)	0.000076 ± 0.0000093	ND	0.54	
		2021/7/27 10:38 ~ 2021/7/29 11:42	ND (0.000027)	0.000075 ± 0.0000092	ND	0.54	
		2021/6/22 10:40 ~ 2021/6/24 10:40	ND (0.000026)	0.000083 ± 0.0000093	ND	0.58	
		2021/5/25 11:10 ~ 2021/5/27 11:10	ND (0.000027)	0.00012 ± 0.000011	ND	0.58	
		2021/4/20 10:28 ~ 2021/4/22 10:28	ND (0.000027)	0.00038 ± 0.000014	ND	0.62	
303 田村市船引町船引 Iamura city Funehiki town Funehiki 41km西 41km West	○	2021/10/26 13:40 ~ 2021/10/28 13:40	ND (0.000028)	ND (0.000025)	ND	0.10	
		2021/9/14 13:56 ~ 2021/9/16 13:56	ND (0.000024)	ND (0.000025)	ND	0.10	
		2021/8/24 13:44 ~ 2021/8/26 13:44	ND (0.000026)	ND (0.000024)	ND	0.10	
		2021/7/27 13:45 ~ 2021/7/29 13:45	ND (0.000027)	ND (0.000024)	ND	0.10	
		2021/6/22 13:43 ~ 2021/6/24 13:43	ND (0.000028)	ND (0.000027)	ND	0.10	
		2021/5/25 14:01 ~ 2021/5/27 14:01	ND (0.000027)	ND (0.000028)	ND	0.11	
		2021/4/20 13:53 ~ 2021/4/22 13:53	ND (0.000026)	ND (0.000024)	ND	0.10	

* 「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

令和3年12月7日 Dec 7, 2021
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	○	2021/10/4 13:20 ~ 2021/10/5 13:20	ND (0.000042)	ND (0.000030)	ND	測定せず Not measured	
		2021/9/10 10:15 ~ 2021/9/11 10:15	ND (0.000034)	0.000061 ± 0.0000088	ND	測定せず Not measured	
		2021/8/6 14:40 ~ 2021/8/7 14:40	ND (0.000034)	ND (0.000026)	ND	測定せず Not measured	
		2021/7/8 15:00 ~ 2021/7/9 15:00	ND (0.000038)	ND (0.000030)	ND	測定せず Not measured	
		2021/6/10 15:00 ~ 2021/6/11 15:00	ND (0.000036)	0.000072 ± 0.0000096	ND	測定せず Not measured	
		2021/5/20 13:30 ~ 2021/5/21 13:30	ND (0.000041)	0.000055 ± 0.0000088	ND	測定せず Not measured	
		2021/4/6 10:00 ~ 2021/4/7 10:00	ND (0.000048)	ND (0.000037)	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.

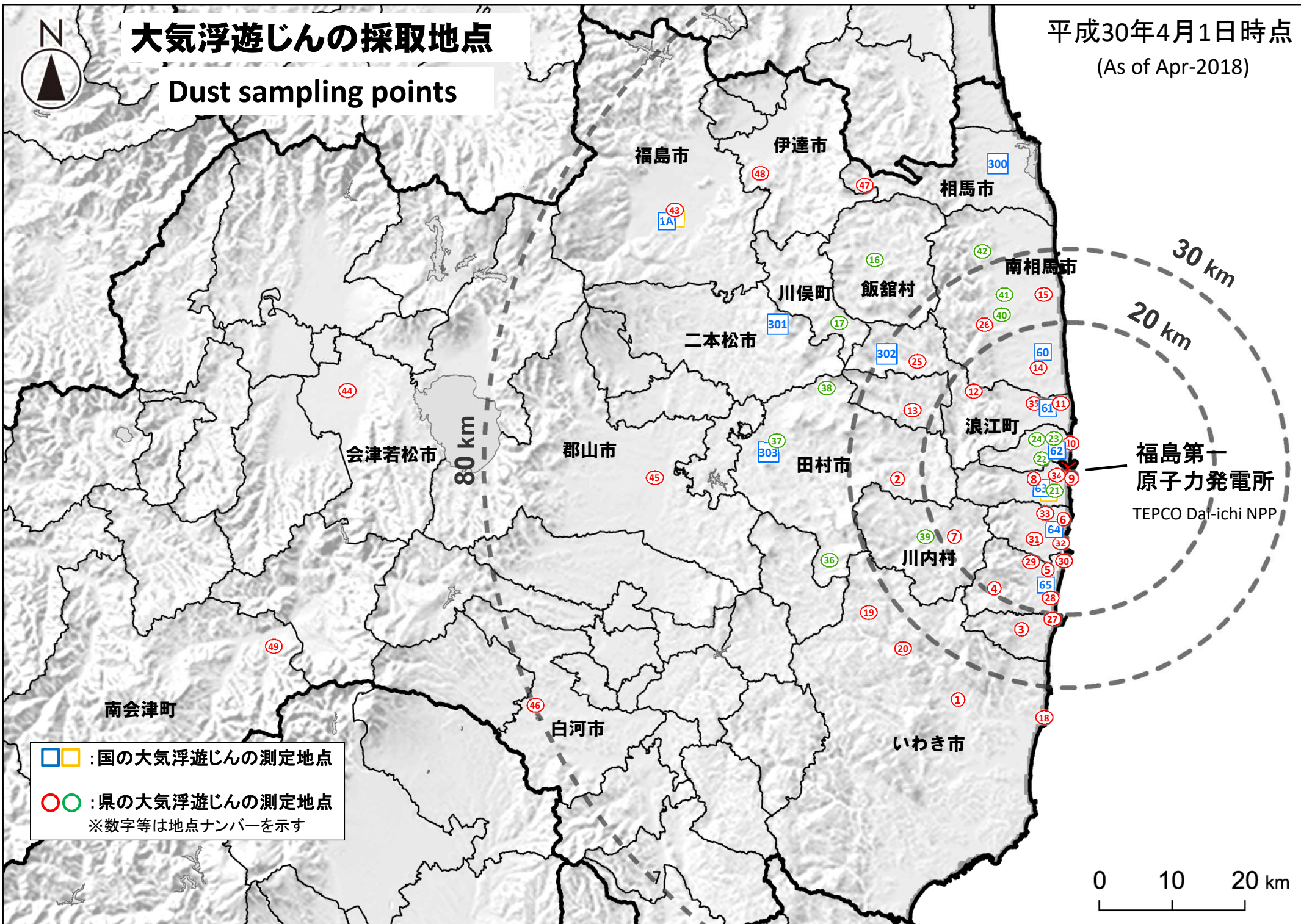
[Abbreviation]
NRA : Nuclear Regulation Authority



大気浮遊じんの採取地点

Dust sampling points

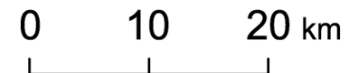
平成30年4月1日時点
(As of Apr-2018)



□ : 国の大気浮遊じんの測定地点

○ : 県の大気浮遊じんの測定地点

※数字等は地点ナンバーを示す



環境放射能水準調査結果(月間降下物)
 [Readings of environmental radioactivity level by prefecture (Fallout)]
 (R3年9月分 [Sep. 2021])

2021.10.29 [Oct 29, 2021]

MBq/km²・月 [MBq/km²・month]

	都道府県名 [Prefecture] [City]	放射性物質濃度 [Radioactivity] (検出限界値 [Minimum Detectable Activity])				備考 [Remarks]
		放射性ヨウ素131 [I-131]	放射性セシウム134 [Cs-134]	放射性セシウム137 [Cs-137]	その他検出された核種 [Other detected nuclides]	
1	北海道(札幌市) [Hokkaido] [Sapporo]	不検出(0.12)	不検出(0.052)	0.044		
2	青森県(青森市) [Aomori] [Aomori]	不検出(0.094)	不検出(0.059)	不検出(0.049)		
3	岩手県(盛岡市) [Iwate] [Morioka]	不検出(0.46)	不検出(0.065)	0.066		
4	宮城県(仙台市) [Miyagi] [Sendai]	不検出(0.20)	不検出(0.055)	0.12		
5	秋田県(秋田市) [Akita] [Akita]	不検出(0.15)	不検出(0.054)	不検出(0.053)		
6	山形県(山形市) [Yamagata] [Yamagata]	不検出(0.095)	不検出(0.060)	0.073		
7	福島県(福島市) [Fukushima] [Fukushima]	不検出(0.17)	不検出(0.082)	0.88		
8	茨城県(ひたちなか市) [Ibaraki] [Hitachinaka]	不検出(0.52)	不検出(0.13)	0.17		
9	栃木県(宇都宮市) [Tochigi] [Utsunomiya]	不検出(0.48)	不検出(0.064)	0.080		
10	群馬県(前橋市) [Gunma] [Maebashi]	不検出(0.10)	不検出(0.064)	0.066		
11	埼玉県(比企郡) [Saitama] [Hiki]	不検出(0.19)	不検出(0.085)	不検出(0.055)		
12	千葉県(市原市) [Chiba] [Ichihara]	不検出(0.091)	不検出(0.059)	不検出(0.054)		
13	東京都(新宿区) [Tokyo] [Shinjuku]	不検出(0.12)	不検出(0.035)	0.091		
14	神奈川県(茅ヶ崎市) [Kanagawa] [Chigasaki]	不検出(0.12)	不検出(0.042)	0.053		
15	新潟県(新潟市) [Niigata] [Niigata]	不検出(0.12)	不検出(0.047)	不検出(0.039)		
16	富山県(射水市) [Toyama] [Imizu]	不検出(0.096)	不検出(0.036)	不検出(0.031)		
17	石川県(金沢市) [Ishikawa] [Kanazawa]	不検出(0.32)	不検出(0.043)	不検出(0.031)		
18	福井県(福井市) [Fukui] [Fukui]	不検出(0.11)	不検出(0.063)	不検出(0.053)		
19	山梨県(甲府市) [Yamanashi] [Kofu]	不検出(0.44)	不検出(0.074)	不検出(0.067)		
20	長野県(長野市) [Nagano] [Nagano]	不検出(0.13)	不検出(0.068)	0.072		
21	岐阜県(各務原市) [Gifu] [Kakamigahara]	不検出(0.18)	不検出(0.086)	不検出(0.052)		
22	静岡県(牧之原市) [Shizuoka] [Makinohara]	不検出(0.18)	不検出(0.056)	不検出(0.044)		
23	愛知県(名古屋) [Aichi] [Nagoya]	不検出(0.24)	不検出(0.048)	不検出(0.037)		
24	三重県(四日市) [Mie] [Yokkaichi]	不検出(0.21)	不検出(0.046)	不検出(0.042)		
25	滋賀県(大津市) [Shiga] [Otsu]	不検出(0.25)	不検出(0.052)	不検出(0.042)		
26	京都府(京都市) [Kyoto] [Kyoto]	不検出(0.18)	不検出(0.041)	不検出(0.033)		
27	大阪府(大阪市) [Osaka] [Osaka]	不検出(0.074)	不検出(0.037)	不検出(0.035)		
28	兵庫県(加古川市) [Hyogo] [Kakogawa]	不検出(0.074)	不検出(0.047)	不検出(0.041)		
29	奈良県(桜井市) [Nara] [Sakurai]	不検出(0.42)	不検出(0.059)	不検出(0.052)		
30	和歌山県(和歌山市) [Wakayama] [Wakayama]	不検出(0.29)	不検出(0.048)	不検出(0.043)		
31	鳥取県(東伯郡) [Tottori] [Touhaku]	不検出(0.14)	不検出(0.076)	不検出(0.066)		
32	島根県(松江市) [Shimane] [Matsue]	不検出(0.14)	不検出(0.040)	不検出(0.033)		
33	岡山県(岡山市) [Okayama] [Okayama]	不検出(0.082)	不検出(0.040)	不検出(0.031)		
34	広島県(広島市) [Hiroshima] [Hiroshima]	不検出(0.25)	不検出(0.060)	不検出(0.050)		
35	山口県(山口市) [Yamaguchi] [Yamaguchi]	不検出(0.36)	不検出(0.071)	不検出(0.050)		
36	徳島県(徳島市) [Tokushima] [Tokushima]	不検出(0.23)	不検出(0.067)	不検出(0.051)		
37	香川県(高松市) [Kagawa] [Takamatsu]	不検出(0.19)	不検出(0.074)	不検出(0.060)		
38	愛媛県(松山市) [Ehime] [Matsuyama]	不検出(0.15)	不検出(0.050)	不検出(0.040)		
39	高知県(高知市) [Kochi] [Kochi]	不検出(0.22)	不検出(0.058)	不検出(0.045)		
40	福岡県(太宰府市) [Fukuoka] [Dazaifu]	不検出(0.19)	不検出(0.057)	不検出(0.045)		
41	佐賀県(佐賀市) [Saga] [Saga]	不検出(0.13)	不検出(0.055)	不検出(0.043)		
42	長崎県(大村市) [Nagasaki] [Omura]	不検出(0.43)	不検出(0.082)	不検出(0.095)		
43	熊本県(宇土市) [Kumamoto] [Uto]	不検出(0.079)	不検出(0.042)	不検出(0.034)		
44	大分県(大分市) [Oita] [Oita]	不検出(0.31)	不検出(0.047)	不検出(0.041)		
45	宮崎県(宮崎市) [Miyazaki] [Miyazaki]	不検出(0.12)	不検出(0.049)	不検出(0.041)		
46	鹿児島県(薩摩川内市) [Kagoshima] [Satsumasendai]	不検出(0.47)	不検出(0.064)	不検出(0.053)		
47	沖縄県(うるま市) [Okinawa] [Uruma]	不検出(0.048)	不検出(0.036)	不検出(0.030)		

不検出 : Not detected activity

1. 原子力規制委員会が各都道府県等からの報告に基づき作成 [1. The table was made by Nuclear Regulation Authority, based on the reports from prefectures]

2. 1ヶ月間採取し続けた降下物を測定した結果 [2. Measurements of fallout collected during the month]

3. 検出下限値は試料及び測定状況により、都道府県によって異なる [3. The minimum detected activity of I-131, Cs-134 and Cs-137, contingent on samples or measurement conditions, are different for each prefecture]

環境放射能水準調査結果(月間降下物)
 [Readings of environmental radioactivity level by prefecture (Fallout)]
 (R3年10月分 [Oct. 2021])

2021.11.30 [Nov. 30, 2021]

MBq/km²・月 [MBq/km²・month]

	都道府県名 [Prefecture] [City]	放射性物質濃度 [Radioactivity] (検出限界値 [Minimum Detectable Activity])				備考 [Remarks]
		放射性ヨウ素131 [I-131]	放射性セシウム134 [Cs-134]	放射性セシウム137 [Cs-137]	その他検出された核種 [Other detected nuclides]	
1	北海道(札幌市) [Hokkaido] [Sapporo]	不検出(0.19)	不検出(0.057)	不検出(0.043)		
2	青森県(青森市) [Aomori] [Aomori]	不検出(0.16)	不検出(0.059)	不検出(0.050)		
3	岩手県(盛岡市) [Iwate] [Morioka]	不検出(0.56)	不検出(0.051)	不検出(0.047)		
4	宮城県(仙台市) [Miyagi] [Sendai]	不検出(0.27)	不検出(0.055)	0.11		
5	秋田県(秋田市) [Akita] [Akita]	不検出(0.24)	不検出(0.058)	不検出(0.053)		
6	山形県(山形市) [Yamagata] [Yamagata]	不検出(0.013)	不検出(0.063)	0.081		
7	福島県(福島市) [Fukushima] [Fukushima]	不検出(0.17)	0.063	1.1		
8	茨城県(ひたちなか市) [Ibaraki] [Hitachinaka]	不検出(0.48)	不検出(0.13)	0.48		
9	栃木県(宇都宮市) [Tochigi] [Utsunomiya]	不検出(0.34)	0.066	0.35		
10	群馬県(前橋市) [Gunma] [Maebashi]	不検出(0.12)	不検出(0.056)	0.27		
11	埼玉県(比企郡) [Saitama] [Hiki]	不検出(0.13)	不検出(0.083)	不検出(0.057)		
12	千葉県(市原市) [Chiba] [Ichihara]	不検出(0.075)	不検出(0.055)	0.066		
13	東京都(新宿区) [Tokyo] [Shinjuku]	不検出(0.091)	不検出(0.039)	0.086		
14	神奈川県(茅ヶ崎市) [Kanagawa] [Chigasaki]	不検出(0.092)	不検出(0.043)	0.093		
15	新潟県(新潟市) [Niigata] [Niigata]	不検出(0.19)	不検出(0.048)	不検出(0.041)		
16	富山県(射水市) [Toyama] [Imizu]	不検出(0.090)	不検出(0.034)	不検出(0.028)		
17	石川県(金沢市) [Ishikawa] [Kanazawa]	不検出(0.30)	不検出(0.042)	不検出(0.032)		
18	福井県(福井市) [Fukui] [Fukui]	不検出(0.11)	不検出(0.063)	不検出(0.049)		
19	山梨県(甲府市) [Yamanashi] [Kofu]	不検出(0.27)	不検出(0.075)	不検出(0.074)		
20	長野県(長野市) [Nagano] [Nagano]	不検出(0.13)	不検出(0.068)	不検出(0.064)		
21	岐阜県(各務原市) [Gifu] [Kakamigahara]	不検出(0.11)	不検出(0.071)	不検出(0.054)		
22	静岡県(牧之原市) [Shizuoka] [Makinohara]	不検出(0.13)	不検出(0.053)	不検出(0.042)		
23	愛知県(名古屋市) [Aichi] [Nagoya]	不検出(0.16)	不検出(0.045)	不検出(0.037)		
24	三重県(四日市市) [Mie] [Yokkaichi]	不検出(0.095)	不検出(0.050)	0.076		
25	滋賀県(大津市) [Shiga] [Otsu]	不検出(0.25)	不検出(0.058)	不検出(0.041)		
26	京都府(京都市) [Kyoto] [Kyoto]	不検出(0.11)	不検出(0.041)	不検出(0.034)		
27	大阪府(大阪市) [Osaka] [Osaka]	不検出(0.076)	不検出(0.037)	不検出(0.033)		
28	兵庫県(加古川市) [Hyogo] [Kakogawa]	不検出(0.057)	不検出(0.042)	不検出(0.043)		
29	奈良県(桜井市) [Nara] [Sakurai]	不検出(0.33)	不検出(0.058)	不検出(0.049)		
30	和歌山県(和歌山市) [Wakayama] [Wakayama]	不検出(0.28)	不検出(0.074)	不検出(0.064)		
31	鳥取県(東伯郡) [Tottori] [Touhaku]	不検出(0.19)	不検出(0.077)	不検出(0.069)		
32	島根県(松江市) [Shimane] [Matsue]	不検出(0.12)	不検出(0.036)	不検出(0.030)		
33	岡山県(岡山市) [Okayama] [Okayama]	不検出(0.088)	不検出(0.039)	不検出(0.034)		
34	広島県(広島市) [Hiroshima] [Hiroshima]	不検出(0.17)	不検出(0.057)	不検出(0.050)		
35	山口県(山口市) [Yamaguchi] [Yamaguchi]	不検出(0.36)	不検出(0.070)	不検出(0.059)		
36	徳島県(徳島市) [Tokushima] [Tokushima]	不検出(0.22)	不検出(0.064)	不検出(0.057)		
37	香川県(高松市) [Kagawa] [Takamatsu]	不検出(0.22)	不検出(0.072)	不検出(0.063)		
38	愛媛県(松山市) [Ehime] [Matsuyama]	不検出(0.11)	不検出(0.050)	不検出(0.040)		
39	高知県(高知市) [Kochi] [Kochi]	不検出(0.19)	不検出(0.056)	不検出(0.047)		
40	福岡県(太宰府市) [Fukuoka] [Dazaifu]	不検出(0.11)	不検出(0.053)	不検出(0.047)		
41	佐賀県(佐賀市) [Saga] [Saga]	不検出(0.096)	不検出(0.056)	不検出(0.046)		
42	長崎県(大村市) [Nagasaki] [Omura]	不検出(0.31)	不検出(0.074)	不検出(0.060)		
43	熊本県(宇土市) [Kumamoto] [Uto]	不検出(0.056)	不検出(0.035)	不検出(0.031)		
44	大分県(大分市) [Oita] [Oita]	不検出(0.28)	不検出(0.049)	不検出(0.042)		
45	宮崎県(宮崎市) [Miyazaki] [Miyazaki]	不検出(0.12)	不検出(0.051)	不検出(0.039)		
46	鹿児島県(薩摩川内市) [Kagoshima] [Satsumasendai]	不検出(0.46)	不検出(0.073)	不検出(0.064)		
47	沖縄県(うるま市) [Okinawa] [Uruma]	不検出(0.041)	不検出(0.037)	不検出(0.033)		

不検出 : Not detected activity

1. 原子力規制委員会が各都道府県等からの報告に基づき作成 [1. The table was made by Nuclear Regulation Authority, based on the reports from prefectures]

2. 1ヶ月間採取し続けた降下物を測定した結果 [2. Measurements of fallout collected during the month]

3. 検出下限値は試料及び測定状況により、都道府県によって異なる [3. The minimum detected activity of I-131, Cs-134 and Cs-137, contingent on samples or measurement conditions, are different for each prefecture]

環境放射能水準調査結果(月間降下物)
 [Readings of environmental radioactivity level by prefecture (Fallout)]
 (R3年11月分 [Nov. 2021])

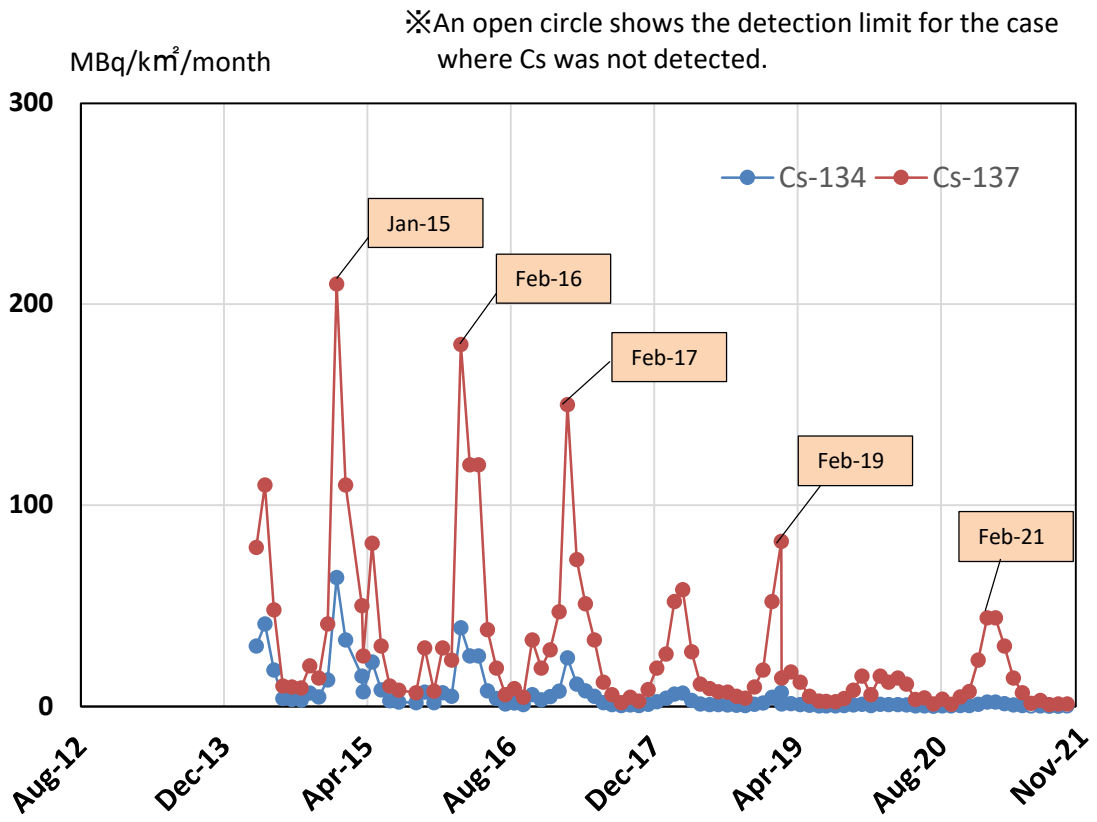
2021.12.28 [Dec 28, 2021]

MBq/km²・月 [MBq/km²・month]

	都道府県名 [Prefecture] [City]	放射性物質濃度 [Radioactivity] (検出限界値 [Minimum Detectable Activity])				備考 [Remarks]
		放射性ヨウ素131 [I-131]	放射性セシウム134 [Cs-134]	放射性セシウム137 [Cs-137]	その他検出された核種 [Other detected nuclides]	
1	北海道(札幌市) [Hokkaido] [Sapporo]	不検出(0.31)	不検出(0.054)	不検出(0.059)		
2	青森県(青森市) [Aomori] [Aomori]	不検出(0.15)	不検出(0.060)	不検出(0.050)		
3	岩手県(盛岡市) [Iwate] [Morioka]	不検出(0.67)	不検出(0.067)	不検出(0.061)		
4	宮城県(仙台市) [Miyagi] [Sendai]	不検出(0.15)	不検出(0.054)	0.13		
5	秋田県(秋田市) [Akita] [Akita]	不検出(0.44)	不検出(0.058)	不検出(0.056)		
6	山形県(山形市) [Yamagata] [Yamagata]	不検出(0.013)	不検出(0.061)	0.076		
7	福島県(福島市) [Fukushima] [Fukushima]	不検出(0.20)	不検出(0.073)	1.2		
8	茨城県(ひたちなか市) [Ibaraki] [Hitachinaka]	不検出(0.41)	不検出(0.11)	0.18		
9	栃木県(宇都宮市) [Tochigi] [Utsunomiya]	不検出(0.35)	不検出(0.065)	不検出(0.072)		
10	群馬県(前橋市) [Gunma] [Maebashi]	不検出(0.10)	不検出(0.066)	0.40		
11	埼玉県(比企郡) [Saitama] [Hiki]	不検出(0.12)	不検出(0.078)	不検出(0.054)		
12	千葉県(市原市) [Chiba] [Ichihara]	不検出(0.069)	不検出(0.053)	0.091		
13	東京都(新宿区) [Tokyo] [Shinjuku]	不検出(0.085)	不検出(0.038)	0.094		
14	神奈川県(茅ヶ崎市) [Kanagawa] [Chigasaki]	不検出(0.14)	不検出(0.039)	0.059		
15	新潟県(新潟市) [Niigata] [Niigata]	不検出(0.17)	不検出(0.050)	不検出(0.043)		
16	富山県(射水市) [Toyama] [Imizu]	不検出(0.16)	不検出(0.032)	不検出(0.030)		
17	石川県(金沢市) [Ishikawa] [Kanazawa]	不検出(0.56)	不検出(0.044)	不検出(0.035)		
18	福井県(福井市) [Fukui] [Fukui]	不検出(0.28)	不検出(0.061)	不検出(0.053)		
19	山梨県(甲府市) [Yamanashi] [Kofu]	不検出(0.26)	不検出(0.077)	不検出(0.073)		
20	長野県(長野市) [Nagano] [Nagano]	不検出(0.12)	不検出(0.068)	不検出(0.062)		
21	岐阜県(各務原市) [Gifu] [Kakamigahara]	不検出(0.18)	不検出(0.074)	不検出(0.050)		
22	静岡県(牧之原市) [Shizuoka] [Makinohara]	不検出(0.12)	不検出(0.051)	不検出(0.042)		
23	愛知県(名古屋市) [Aichi] [Nagoya]	不検出(1.9)	不検出(0.051)	不検出(0.035)		
24	三重県(四日市市) [Mie] [Yokkaichi]	不検出(0.094)	不検出(0.045)	不検出(0.039)		
25	滋賀県(大津市) [Shiga] [Otsu]	不検出(0.21)	不検出(0.063)	不検出(0.057)		
26	京都府(京都市) [Kyoto] [Kyoto]	不検出(0.16)	不検出(0.043)	不検出(0.038)		
27	大阪府(大阪市) [Osaka] [Osaka]	不検出(0.082)	不検出(0.043)	不検出(0.040)		
28	兵庫県(加古川市) [Hyogo] [Kakogawa]	不検出(0.076)	不検出(0.047)	不検出(0.040)		
29	奈良県(桜井市) [Nara] [Sakurai]	不検出(0.34)	不検出(0.057)	不検出(0.052)		
30	和歌山県(和歌山市) [Wakayama] [Wakayama]	不検出(0.20)	不検出(0.053)	不検出(0.049)		
31	鳥取県(東伯郡) [Tottori] [Touhaku]	不検出(0.14)	不検出(0.076)	不検出(0.067)		
32	島根県(松江市) [Shimane] [Matsue]	不検出(0.13)	不検出(0.040)	不検出(0.030)		
33	岡山県(岡山市) [Okayama] [Okayama]	不検出(0.071)	不検出(0.042)	不検出(0.034)		
34	広島県(広島市) [Hiroshima] [Hiroshima]	不検出(0.30)	不検出(0.061)	不検出(0.053)		
35	山口県(山口市) [Yamaguchi] [Yamaguchi]	不検出(0.34)	不検出(0.068)	不検出(0.062)		
36	徳島県(徳島市) [Tokushima] [Tokushima]	不検出(0.27)	不検出(0.066)	不検出(0.057)		
37	香川県(高松市) [Kagawa] [Takamatsu]	不検出(0.19)	不検出(0.069)	不検出(0.059)		
38	愛媛県(松山市) [Ehime] [Matsuyama]	不検出(0.10)	不検出(0.040)	不検出(0.040)		
39	高知県(高知市) [Kochi] [Kochi]	不検出(0.22)	不検出(0.052)	不検出(0.043)		
40	福岡県(太宰府市) [Fukuoka] [Dazaifu]	不検出(4.0)	不検出(0.055)	不検出(0.042)		
41	佐賀県(佐賀市) [Saga] [Saga]	不検出(0.12)	不検出(0.052)	不検出(0.045)		
42	長崎県(大村市) [Nagasaki] [Omura]	不検出(0.52)	不検出(0.079)	不検出(0.065)		
43	熊本県(宇土市) [Kumamoto] [Uto]	不検出(0.12)	不検出(0.039)	不検出(0.031)		
44	大分県(大分市) [Oita] [Oita]	不検出(0.22)	不検出(0.049)	不検出(0.039)		
45	宮崎県(宮崎市) [Miyazaki] [Miyazaki]	不検出(0.079)	不検出(0.049)	不検出(0.041)		
46	鹿児島県(薩摩川内市) [Kagoshima] [Satsumasendai]	不検出(0.51)	不検出(0.066)	不検出(0.056)		
47	沖縄県(うるま市) [Okinawa] [Uruma]	不検出(0.095)	不検出(0.038)	不検出(0.034)		

不検出 : Not detected activity

- 原子力規制委員会が各都道府県等からの報告に基づき作成 [1. The table was made by Nuclear Regulation Authority, based on the reports from prefectures]
- 1ヶ月間採取し続けた降下物を測定した結果 [2. Measurements of fallout collected during the month]
- 検出下限値は試料及び測定状況により、都道府県によって異なる [3. The minimum detected activity of ¹³¹I, ¹³⁴Cs-134 and ¹³⁷Cs-137, contingent on samples or measurement conditions, are different for each prefecture]



**Concentration ranges of radioactive Cs in monthly fallout,
in Fukushima prefecture**

福島第一原子力発電所近傍海域の海水の放射性物質濃度測定結果

(東京電力ホールディングス株の発表をもとに作成^{※1})

試料採取日: 令和3年11月1日、22日

Radioactivity concentration in the seawater near Fukushima Dai-ichi NPP

(Based on the press release of TEPCO^{※1})

Sampling Date: Nov 1, 22, 2021

令和3年12月28日

Dec 28, 2021

Cs-134	Cs-137	H-3	全α (gross α)	全β ^{※3} (gross β)	Sr-90	Pu-238	Pu-239+240
放射性物質濃度 (Bq/L) (※2 ND : 不検出)							
Radioactivity concentration (Bq/L) (※2 ND : Not Detectable)							

T-1	2021/8/9 9:00	0.0035	0.096						O
	2021/8/18 9:10	0.017	0.44						O
	2021/8/23 8:35	0.0064	0.17						O
	2021/8/30 8:30	0.0065	0.18						O
	2021/9/8 9:00	0.019	0.48	1.1 ND(2.2)	8.9	0.081			O
	2021/9/13 8:23	0.0029	0.083						O
	2021/9/20 8:20	0.015	0.40						O
	2021/9/27 8:30	0.0029	0.071						O
	2021/10/4 9:15	0.018	0.47	2.1 ND(1.9)	12	0.032	ND(0.0000054)	ND(0.0000051)	O
	2021/10/11 8:35	0.0059	0.18						O
	2021/10/18 9:00	0.0052	0.15						O
	2021/10/25 9:05	0.0064	0.20						O
	2021/11/1 8:55	0.0041	0.12	0.89 ND(1.9)	13	0.011			O
	2021/11/8 8:40	0.0026	0.071						O
2021/11/15 8:35	0.014	0.36						O	
2021/11/22 8:30	0.0025	0.071						O	

T-2	2021/8/9 7:13	0.0024	0.070						O	
	2021/8/18 7:40	0.012	0.29						O	
	2021/8/23 7:30	0.0023	0.066						O	
	2021/8/30 7:15	0.0014	0.035						O	
	2021/9/8 7:20	0.0047	0.13	ND(0.81)	ND(2.2)	12	0.018		O	
	2021/9/13 7:18	ND(0.0012)	0.032						O	
	2021/9/20 7:05	0.0026	0.076						O	
	2021/9/27 7:15	ND(0.0012)	0.023						O	
	2021/10/4 7:20	0.0036	0.097	ND(0.80)	ND(1.9)	7.2	0.0039	ND(0.0000052)	ND(0.0000052)	O
	2021/10/11 7:14	0.0014	0.040						O	
	2021/10/18 7:15	0.0042	0.11						O	
	2021/10/25 7:25	0.0014	0.042						O	
	2021/11/1 7:15	0.0015	0.038	ND(0.88)	ND(1.9)	12	0.0020		O	
	2021/11/8 7:10	0.0026	0.069						O	
2021/11/15 7:05	0.0034	0.096						O		
2021/11/22 7:05	0.0025	0.075						O		

O: 上層(表層~2m) Outer Layer

* 太字下線データが今回追加分。

* Boldface and underlined readings are new.

※1 東京電力ホールディングス株の発表 (<https://www.tepco.co.jp/decommission/data/analysis/index-j.html>)

※1 Press release of TEPCO (<https://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/index-e.html>)

※2 NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。()内は検出下限値。

※2 ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits. The lower detection limit is in parenthesis.

※3 分析方法: 蒸発乾固法

※3 Analytical method: Evaporation drying method

参考

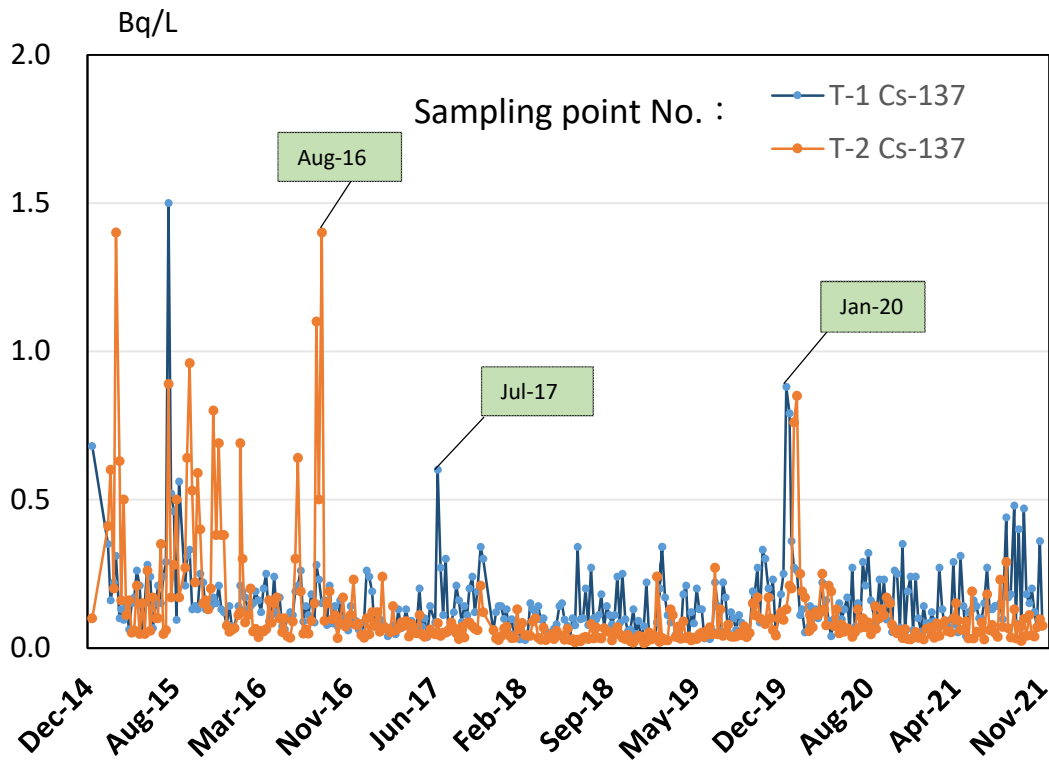
reference

福島第一原発事故以前の海水のモニタリング結果:

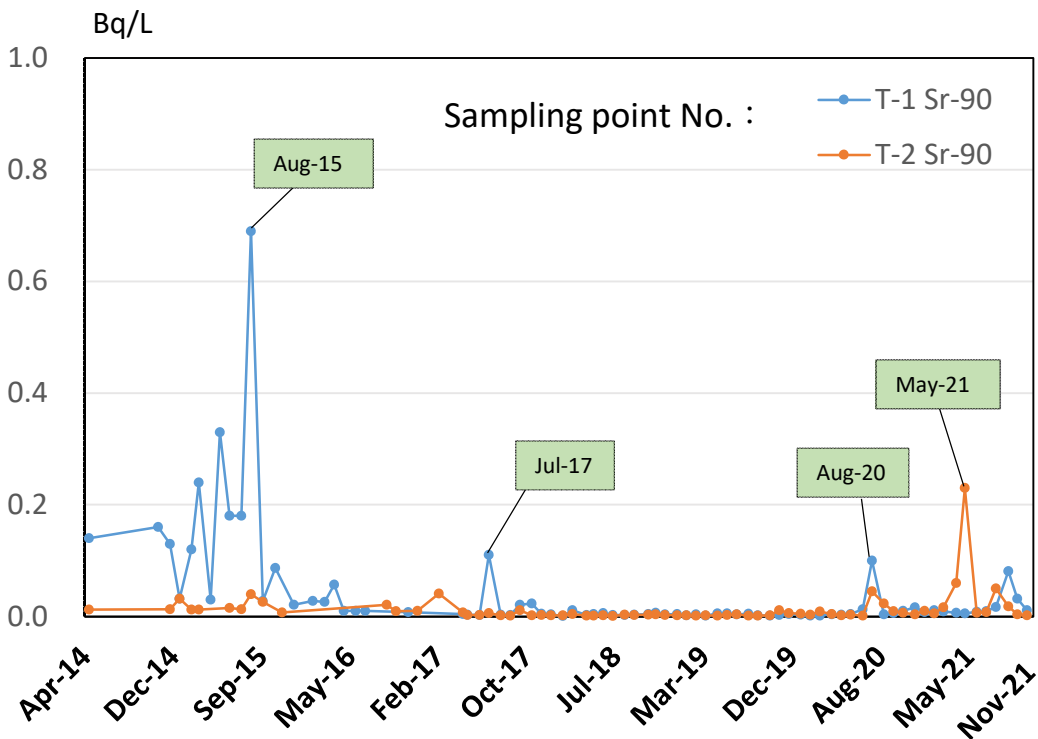
(<https://radioactivity.nsr.go.jp/ja/contents/9000/8483/24/Beforedisaster.pdf>)

Results of radiation monitoring before the accident at TEPCO's Fukushima Daiichi Nuclear Power Station.

(<https://radioactivity.nsr.go.jp/ja/contents/9000/8483/24/Beforedisaster.pdf>)



Concentration ranges of Cs-137 in sea-water near the Fukushima Daiichi NPS surveyed by TEPCO



Concentration ranges of Sr-90 in sea-water near the Fukushima Daiichi NPS surveyed by TEPCO

福島第一原子力発電所近傍の海域の海水のモニタリング結果
Readings of Sea Area Monitoring near Fukushima Dai-ichi NPP

試料採取日: 令和3年9月9日、10日、10月7日、8日、11月4日、5日
(Sampling Date: Sep 9, 10, Oct 7, 8, Nov 4, 5, 2021)

令和3年12月14日
Dec 14, 2021
原子力規制委員会
Nuclear Regulation Authority (NRA)

採取日 Sampling Date	採取深度 Sampling Depth (m)	Cs-134	Cs-137	Sr-90	H-3	
		放射性物質濃度 (Bq/L) (※ ND : 不検出) Radioactivity concentration (Bq/L) (※ ND : Not Detectable)				
M-101	2020/12/4	0.5	0.00055	0.0096	0.00079	0.069
	2021/1/14	0.5	ND(0.00028)	0.0087	0.00073	0.12
	2021/2/5	0.5	0.00095	0.015	0.00077	0.12
	2021/3/5	0.5	0.0028	0.061	0.011	0.35
	2021/4/22	0.5	0.00056	0.013	0.0010	0.096
	2021/5/19	0.5	ND(0.00045)	0.0098	0.00079	ND(0.051)
	2021/6/11	0.5	0.00063	0.013	0.00089	0.15
	2021/7/13	0.5	ND(0.00045)	0.0034	0.00091	0.094
	2021/8/7	0.5	ND(0.00046)	0.016	0.0011	0.14
	2021/9/9	0.5	0.0035	0.093	0.011	0.38
2021/10/8	0.5	0.0030	0.083	0.0043		
2021/11/5	0.5	ND(0.00048)	0.017			
M-102	2020/12/3	0.5	0.00061	0.014	0.00098	0.079
	2021/1/15	0.5	0.00048	0.010	0.00098	0.12
	2021/2/4	0.5	0.0013	0.032	0.00094	0.12
	2021/3/4	0.5	0.0011	0.027	0.0052	0.090
	2021/4/24	0.5	0.00073	0.020	0.0011	0.11
	2021/5/18	0.5	0.00086	0.022	0.00098	0.092
	2021/6/10	0.5	0.00064	0.012	0.00089	0.11
	2021/7/14	0.5	ND(0.00056)	0.011	0.00097	0.10
	2021/8/6	0.5	ND(0.00042)	0.0049	0.00074	0.092
	2021/9/10	0.5	0.00086	0.019	0.0019	0.085
2021/10/7	0.5	0.00066	0.017	0.0019		
2021/11/4	0.5	ND(0.00051)	0.0074			
M-103	2020/12/4	0.5	0.00035	0.0062	0.00091	0.083
	2021/1/14	0.5	0.00049	0.013	0.00095	0.10
	2021/2/5	0.5	0.00038	0.0089	0.00080	0.090
	2021/3/5	0.5	0.00071	0.016	0.0014	0.10
	2021/4/22	0.5	ND(0.00047)	0.010	0.00083	0.061
	2021/5/19	0.5	ND(0.00049)	0.0068	0.00084	0.074
	2021/6/11	0.5	ND(0.00051)	0.0053	0.00087	0.097
	2021/7/13	0.5	ND(0.00048)	0.0043	0.00084	0.13
	2021/8/7	0.5	ND(0.00045)	0.011	0.0010	0.12
	2021/9/9	0.5	0.00064	0.019	0.0015	0.12
2021/10/8	0.5	0.00056	0.016	0.00072		
2021/11/5	0.5	ND(0.00051)	0.0082			
M-104	2020/12/3	0.5	ND(0.00027)	0.0048	0.00071	0.11
	2021/1/15	0.5	ND(0.00030)	0.0036	0.00087	0.088
	2021/2/4	0.5	0.00041	0.011	0.00085	0.097
	2021/3/4	0.5	0.00062	0.011	0.00068	0.067
	2021/4/24	0.5	ND(0.00051)	0.0098	0.00094	0.067
	2021/5/18	0.5	ND(0.00049)	0.0058	0.00096	0.078
	2021/6/10	0.5	ND(0.00047)	0.0054	0.00083	0.10
	2021/7/14	0.5	ND(0.00049)	0.0049	0.00077	0.22
	2021/8/6	0.5	ND(0.00050)	0.0039	0.00072	0.075
	2021/9/10	0.5	ND(0.00049)	0.0058	0.0010	ND(0.061)
2021/10/7	0.5	ND(0.00045)	0.0059	0.00074		
2021/11/4	0.5	ND(0.00057)	0.0047			

※ NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。()内は検出下限値。

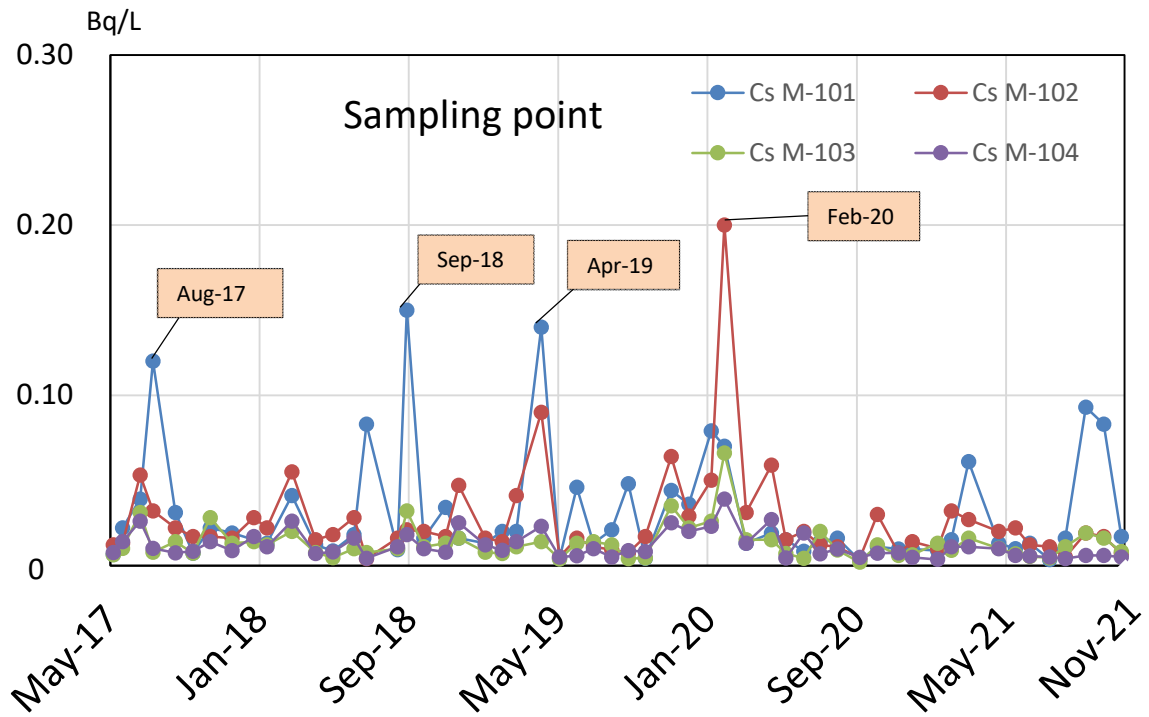
※ ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits. The lower detection limit is in parenthesis.

*原子力規制委員会の委託事業により、(公財)海洋生物環境研究所が採取した試料を用いて、(公財)海洋生物環境研究所[Cs,H-3]、(株)KANSOテクノス[Sr]が分析。

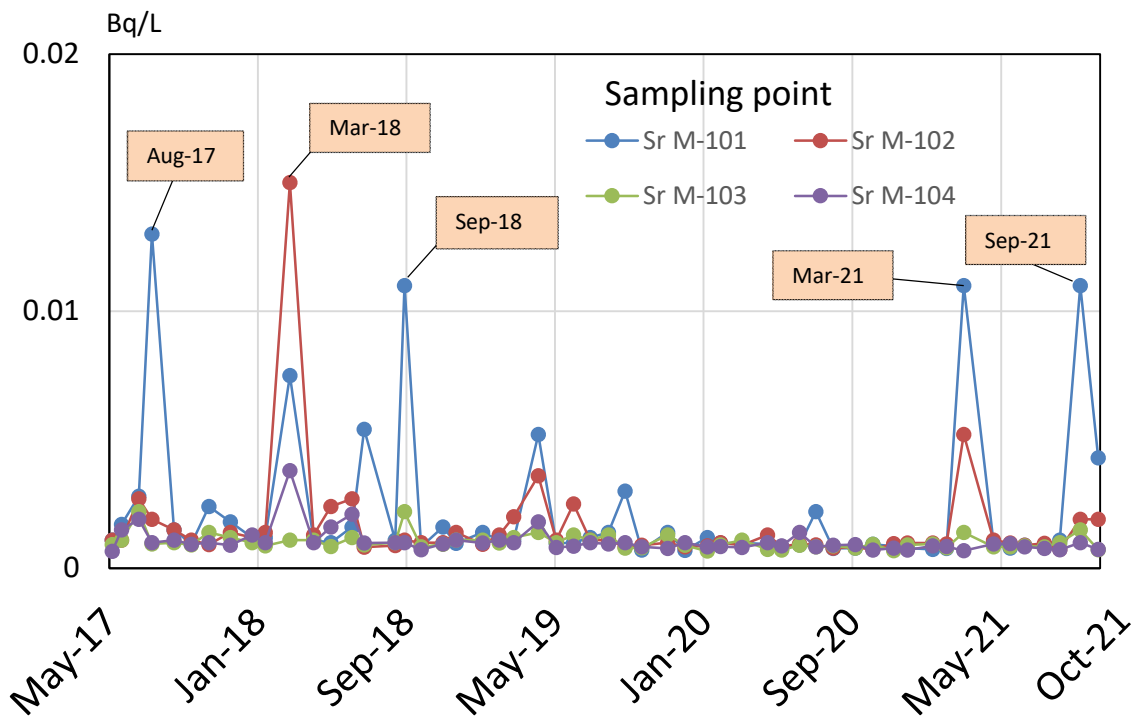
* Analysis by Marine Ecology Research Institute (MERI)[Cs,H-3] and KANSO Co.,Ltd.[Sr] of the samples collected by MERI at the request of Nuclear Regulation Authority (NRA).

* 太字下線データが今回追加分。

* Boldface and underlined readings are new.



Concentration ranges of Cs-137 in sea-water near the Fukushima Daiichi NPS surveyed by the NRA



Concentration ranges of Sr-90 in sea-water near the Fukushima Daiichi NPS surveyed by the NRA

福島第一原子力発電所近傍海域の海水の放射性物質濃度測定結果
(福島県の発表をもとに作成^{※1})

Radioactivity concentration in the seawater near Fukushima Dai-ichi NPP
(Based on the press release of Fukushima Prefecture^{※1})

採取日 Sampling date	Cs-134	Cs-137	H-3	全β Gross β	Sr-90	Pu-238	Pu-239+240
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放射性物質濃度(検出下限値)(Bq/L)(ND^{※2}:不検出)
Radioactivity concentration (Lower detection limit) (Bq/L) (ND^{※2}: Not Detectable)

南放水口付近 F-P01	2020/8/6	ND	0.021	ND	0.02	0.0009	ND	ND
	2020/9/11	ND	0.011	ND	0.03	0.0009	ND	0.000008
	2020/10/20	ND	0.012	ND	0.02	0.0010	ND	0.000006
	2020/11/12	ND	0.012	ND	0.04	0.0007	ND	ND
	2020/12/4	ND	0.031	ND	0.02	0.0009	ND	ND
	2021/1/7	ND	0.016	ND	0.05	0.0006	ND	ND
	2021/2/12	ND	0.016	ND	0.03	0.0010	ND	0.000013
	2021/3/4	ND	0.028	ND	0.03	0.0024	ND	0.000011
	2021/4/20	ND	0.033	ND	0.02	0.0011	ND	0.000019
	2021/5/12	ND	0.007	ND	0.02	0.0007	ND	ND
	2021/6/3	ND	0.009	ND	0.02	0.0013	ND	0.000008
	2021/7/6	ND	0.018	ND	0.02	0.0017	ND	ND
	2021/8/4	ND	0.015	ND	0.02	0.0008	ND	ND
	2021/9/2	ND	0.020	ND	0.01	0.0015	ND	ND

北放水口付近 F-P02	2020/8/6	ND	0.007	ND	0.02	0.0010	ND	ND
	2020/9/11	ND	0.004	ND	0.03	0.0007	ND	ND
	2020/10/20	ND	0.038	ND	0.02	0.0012	ND	ND
	2020/11/12	ND	0.015	ND	0.02	0.0010	ND	ND
	2020/12/4	ND	0.017	ND	0.02	0.0008	ND	ND
	2021/1/7	ND	0.009	ND	0.03	0.0009	ND	0.000011
	2021/2/12	ND	0.013	ND	0.04	0.0009	ND	0.000009
	2021/3/4	0.003	0.061	ND	0.04	0.0027	ND	0.000017
	2021/4/20	ND	0.036	ND	0.02	0.0012	ND	0.000013
	2021/5/12	ND	0.011	ND	0.02	0.0013	ND	ND
	2021/6/3	ND	0.012	ND	0.02	0.0016	ND	ND
	2021/7/6	ND	0.024	ND	0.02	0.0015	ND	ND
	2021/8/4	ND	0.019	ND	0.01	0.0013	ND	ND
2021/9/2	ND	0.014	ND	0.01	0.0034	ND	ND	

取水口付近 F-P03	2020/8/6	ND	0.009	ND	0.03	0.0006	ND	ND
	2020/9/11	ND	0.005	ND	0.03	0.0010	ND	ND
	2020/10/20	ND	0.011	ND	0.02	0.0009	ND	ND
	2020/11/12	ND	0.017	ND	0.03	0.0008	ND	ND
	2020/12/4	ND	0.032	ND	0.03	0.0009	ND	ND
	2021/1/7	0.004	0.056	ND	0.04	0.0020	ND	ND
	2021/2/12	ND	0.030	ND	0.04	0.0011	ND	0.000014
	2021/3/4	0.003	0.098	ND	0.03	0.0072	ND	0.000018
	2021/4/20	0.008	0.19	0.46	0.02	0.0096	ND	0.000011
	2021/5/12	ND	0.022	ND	0.02	0.0015	ND	ND
	2021/6/3	ND	0.048	ND	0.02	0.0030	ND	0.000007
	2021/7/6	ND	0.010	ND	0.02	0.0012	ND	ND
	2021/8/4	0.004	0.12	0.34	0.01	0.0046	ND	0.000008
2021/9/2	0.010	0.31	1.4	0.03	0.035	ND	ND	

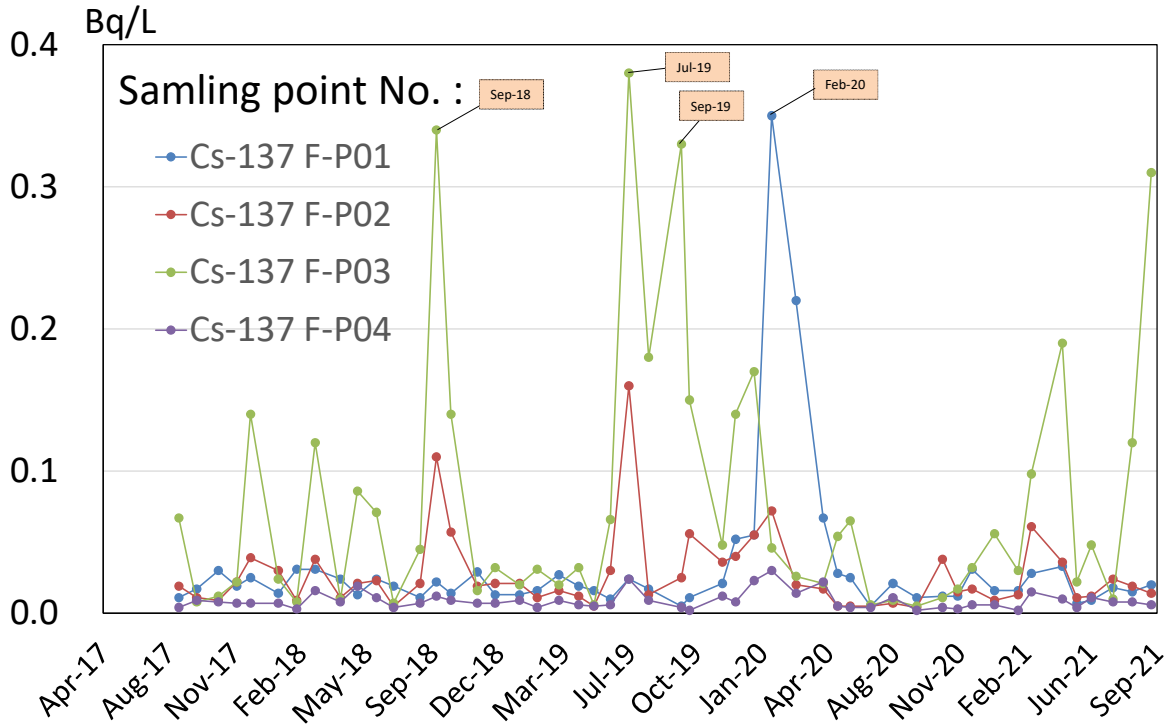
第一(発)沖合 2km F-P04	2020/8/6	ND	0.011	ND	0.02	0.0007	ND	ND
	2020/9/11	ND	0.002	ND	0.02	0.0008	ND	ND
	2020/10/20	ND	0.004	ND	0.02	0.0006	ND	ND
	2020/11/12	ND	0.003	ND	0.03	0.0009	ND	ND
	2020/12/4	ND	0.006	ND	0.02	0.0005	ND	ND
	2021/1/7	ND	0.006	ND	0.02	0.0009	ND	ND
	2021/2/12	ND	0.002	ND	0.04	0.0006	ND	ND
	2021/3/4	ND	0.015	ND	0.02	0.0009	ND	ND
	2021/4/20	ND	0.010	ND	0.02	0.0007	ND	0.000011
	2021/5/12	ND	0.004	ND	0.02	0.0007	ND	ND
	2021/6/3	ND	0.011	ND	0.02	0.0010	ND	0.000008
	2021/7/6	ND	0.008	ND	0.01	0.0011	ND	ND
	2021/8/4	ND	0.008	ND	0.02	0.0006	ND	ND
	2021/9/2	ND	0.006	ND	0.01	0.0008	ND	ND

※1 福島県の発表(<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

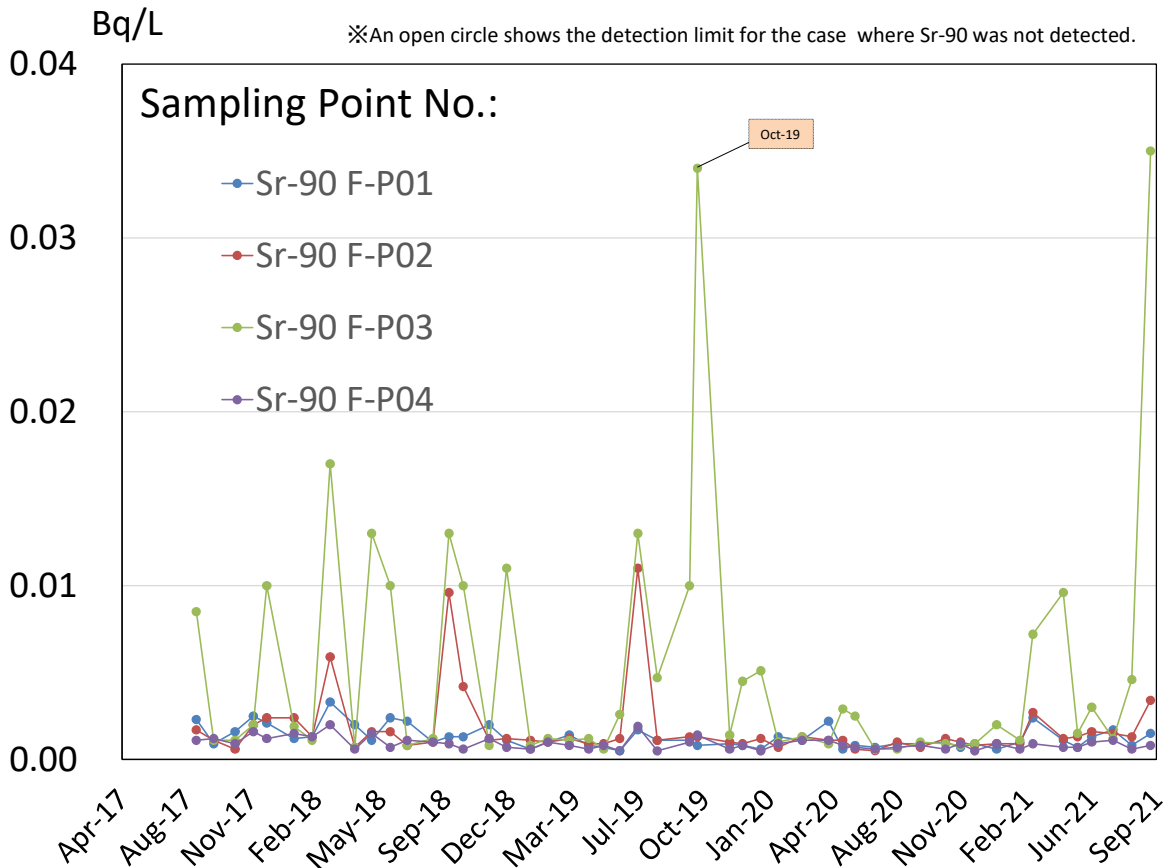
※1 Press release of Fukushima Prefecture (<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

※2 NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。

※2 ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits.

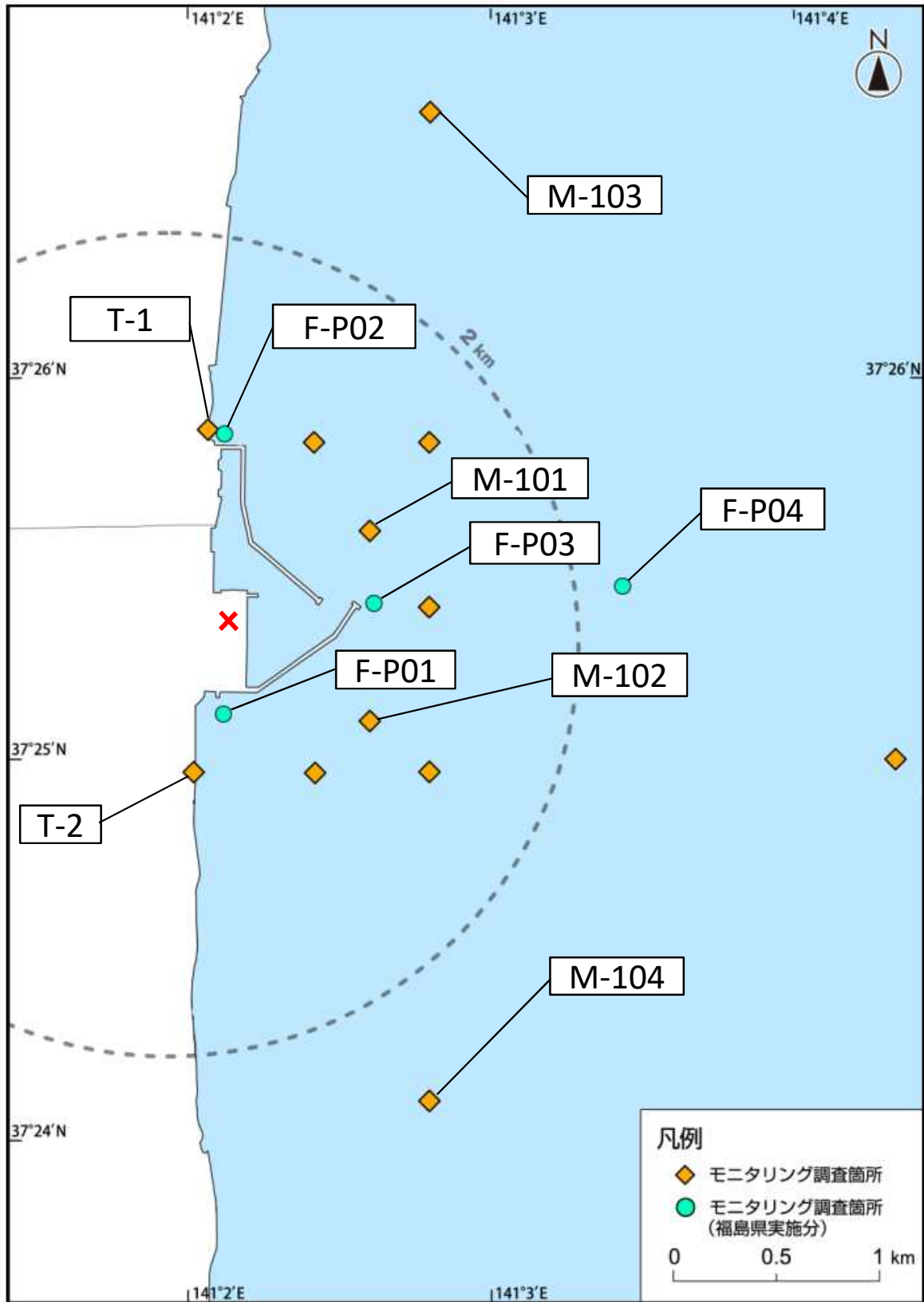


Concentration ranges of Cs-137 in sea-water near the Fukushima Daiichi NPS surveyed by Fukushima prefecture



Concentration ranges of Sr-90 in sea-water near the Fukushima Daiichi NPS surveyed by Fukushima prefecture

福島第一原子力発電所近傍海域の海水採取ポイント
(Seawater sampling points near and around Fukushima Dai-ichi NPP)



* 図中の×は東京電力ホールディングス(株)福島第一原子力発電所を示す。

* The mark × indicates the location of TEPCO Fukushima Dai-ichi NPP.

福島第一原子力発電所沿岸海域の海水の放射性物質濃度測定結果
 (東京電力ホールディングス㈱の発表をもとに作成^{※1})
 試料採取日: 令和3年11月15日、16日、24日、25日

Radioactivity concentration in the seawater around Fukushima Dai-ichi NPP
 (Based on the press release of TEPCO^{※1})
 Sampling Date: Nov 15, 16, 24, 25, 2021

令和3年12月28日
 Dec 28, 2021

Cs-134	Cs-137	H-3	全α (gross α)	全β ^{※3} (gross β)	Sr-90	Pu-238	Pu-239+240
放射線物質濃度 (Bq/L) (※2 ND: 不検出)							
Radioactivity concentration (Bq/L) (※2 ND: Not Detectable)							

T-3	2021/8/10 13:50	ND(0.0012)	0.024							
	2021/8/17 10:00	0.0011	0.035	ND(0.30)		ND(14)				
	2021/8/24 14:05	ND(0.00097)	0.020							
	2021/8/31 10:50	ND(0.0011)	0.023							
	2021/9/7 14:10	0.0015	0.035	ND(0.29)		ND(14)				
	2021/9/14 11:00	ND(0.0012)	0.014							
	2021/9/21 14:10	ND(0.0012)	0.028	0.37		15				
	2021/9/28 11:40	ND(0.0013)	0.019							
	2021/10/5 11:20	0.0016	0.035	ND(0.29)		ND(14)				
	2021/10/12 14:15	0.0017	0.044							
	2021/10/19 14:50	0.0012	0.030	ND(0.29)		ND(13)				
	2021/10/28 14:05	ND(0.0013)	0.033							
	2021/11/2 10:15	ND(0.0013)	0.025	ND(0.29)		ND(13)				
2021/11/11 14:00	ND(0.0014)	0.032								
2021/11/16 14:35	ND(0.0012)	0.016	ND(0.29)		ND(13)					
2021/11/24 14:30	ND(0.0012)	0.027								
T-4	2021/8/10 9:30	ND(0.0013)	0.017							
	2021/8/17 8:30	ND(0.0011)	0.025							
	2021/8/24 9:15	ND(0.0011)	0.011							
	2021/8/31 8:40	ND(0.00099)	0.0074							
	2021/9/7 9:00	ND(0.0013)	0.028							
	2021/9/14 8:50	ND(0.0011)	0.0097							
	2021/9/21 9:10	ND(0.0014)	0.015							
	2021/9/28 8:55	ND(0.0013)	0.014							
	2021/10/5 8:55	0.0015	0.035							
	2021/10/12 11:05	ND(0.0011)	0.022							
	2021/10/19 13:10	ND(0.0011)	0.020							
	2021/10/28 11:25	ND(0.0014)	0.025							
	2021/11/2 11:40	ND(0.0014)	0.020							
2021/11/11 11:35	ND(0.0010)	0.022								
2021/11/16 8:35	ND(0.0013)	0.025								
2021/11/24 13:10	0.0016	0.033								
T-6	2021/8/10 10:50	0.0017	0.043							
	2021/8/17 13:40	ND(0.0013)	0.018	ND(0.30)		ND(14)				
	2021/8/24 10:40	ND(0.0012)	0.012							
	2021/8/31 14:10	ND(0.0011)	0.0089							
	2021/9/7 10:30	ND(0.0011)	0.019	ND(0.29)		ND(12)				
	2021/9/14 14:00	ND(0.0013)	0.0094							
	2021/9/21 10:25	ND(0.0013)	0.019	0.42		14				
	2021/9/28 14:40	ND(0.0012)	0.018							
	2021/10/5 14:00	ND(0.0013)	0.025	ND(0.29)		ND(14)				
	2021/10/12 9:50	ND(0.0012)	0.019							
	2021/10/19 10:50	ND(0.0012)	0.024	ND(0.29)		ND(13)				
	2021/10/28 9:40	ND(0.0014)	0.037							
	2021/11/2 14:20	ND(0.0013)	0.018	ND(0.29)		ND(13)				
2021/11/11 10:05	0.0015	0.050								
2021/11/16 10:25	ND(0.0013)	0.017	ND(0.30)		16					
2021/11/24 11:25	ND(0.0011)	0.026								

○: 上層(表層~2m) Outer Layer

* 太字下線データが今回追加。 * Boldface and underlined readings are new.

※1 東京電力ホールディングス㈱の発表 (<https://www.tepco.co.jp/decommission/data/analysis/index-j.html>)

※1 Press release of TEPCO (<https://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/index-e.html>)

※2 NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。()内は検出下限値。

※2 ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits. The lower detection limit is in parenthesis.

※3 分析方法: 蒸発乾固法

※3 Analytical method: Evaporation drying method

参考

reference

福島第一原発事故以前の海水のモニタリング結果:

(<https://radioactivity.nsr.go.jp/ja/contents/9000/8483/24/Beforedisaster.pdf>)

Results of radiation monitoring before the accident at TEPCO's Fukushima Daiichi Nuclear Power Station.

(<https://radioactivity.nsr.go.jp/ja/contents/9000/8483/24/Beforedisaster.pdf>)

Cs-134	Cs-137	H-3	全α (gross α)	全β ^{※3} (gross β)	Sr-90	Pu-238	Pu-239+240
放射性物質濃度 (Bq/L) (※2 ND : 不検出) Radioactivity concentration (Bq/L) (※2 ND : Not Detectable)							

T-5	2021/8/11 7:14	ND(0.0013)	0.0022						O
		ND(0.0012)	0.0021						L
	2021/8/17 7:15	ND(0.0013)	0.0021	ND(0.29)		16			O
		ND(0.0012)	0.0019						L
	2021/8/23 7:26	ND(0.0013)	0.0020						O
		ND(0.0014)	0.0026						L
	2021/8/30 7:25	ND(0.0014)	0.0020						O
		ND(0.0012)	0.0017						L
	2021/9/10 7:36	ND(0.0012)	0.0039	ND(0.30)	ND(2.5)	ND(13)	ND(0.00077)		O
		ND(0.0013)	0.0021						L
	2021/9/13 7:15	ND(0.00099)	0.0026						O
		ND(0.0012)	0.0024						L
	2021/9/21 7:18	ND(0.0011)	0.0028	ND(0.29)		ND(13)			O
		ND(0.0011)	0.0019						L
	2021/9/27 7:21	ND(0.0011)	0.0013						O
		ND(0.0014)	0.0020						L
	2021/10/4 7:16	ND(0.0012)	0.0017	ND(0.33)	ND(2.4)	ND(15)	ND(0.00072)		O
		ND(0.0012)	0.0017						L
	2021/10/15 7:19	ND(0.0012)	0.0018				ND(0.000046)	ND(0.000047)	O
		ND(0.0013)	0.0019						L
2021/10/18 7:49	ND(0.0013)	0.0016	ND(0.30)		ND(12)			O	
	ND(0.0014)	0.0026						L	
2021/10/25 7:32	ND(0.0013)	0.0019						O	
	ND(0.0013)	0.0019						L	
2021/11/1 7:46	ND(0.0011)	0.0027	ND(0.30)	ND(1.9)	ND(13)	ND(0.00074)		O	
	ND(0.0011)	0.0020						L	
2021/11/8 7:29	ND(0.0013)	0.0027						O	
	ND(0.0014)	0.0028						L	
2021/11/15 7:31	ND(0.0013)	0.0025	ND(0.30)					O	
	ND(0.0011)	0.0025			17			L	
2021/11/24 7:22	ND(0.0011)	0.0017						O	
	ND(0.0012)	0.0025						L	

T-D1	2021/8/11 7:50	ND(0.0010)	0.0080						O
		ND(0.0012)	0.0053						L
	2021/8/17 8:11	ND(0.0013)	0.0037	ND(0.29)		ND(12)			O
		ND(0.0012)	0.0026						L
	2021/8/23 8:30	ND(0.0013)	0.0032						O
		ND(0.0013)	0.0038						L
	2021/8/30 7:55	ND(0.0012)	0.0047						O
		ND(0.0013)	0.0035						L
	2021/9/9 8:06	ND(0.0012)	0.014	ND(0.30)	ND(2.3)	ND(13)	0.0014		O
		ND(0.0012)	0.0068						L
	2021/9/13 8:06	ND(0.0012)	0.0029						O
		ND(0.0012)	0.0036						L
	2021/9/21 8:43	ND(0.0014)	0.0037	ND(0.29)		ND(13)			O
		ND(0.0012)	0.0069						L
	2021/9/27 8:27	ND(0.0012)	0.0035						O
		ND(0.0013)	0.0033						L
	2021/10/4 8:30	ND(0.0013)	0.032	0.34	ND(2.4)	ND(15)	0.0012		O
		ND(0.0014)	0.018						L
	2021/10/11 8:16	ND(0.0013)	0.0097				ND(0.000043)	ND(0.000040)	O
		ND(0.0011)	0.0046						L
2021/10/19 8:15	ND(0.0014)	0.0068	ND(0.30)		ND(13)			O	
	ND(0.0012)	0.0057						L	
2021/10/25 7:58	ND(0.0011)	0.0086						O	
	ND(0.0014)	0.0037						L	
2021/11/1 7:59	ND(0.0014)	0.0066	ND(0.30)	ND(1.9)	ND(13)	0.00089		O	
	ND(0.0012)	0.0061						L	
2021/11/8 7:54	ND(0.0013)	0.0049						O	
	ND(0.0013)	0.012						L	
2021/11/15 8:06	ND(0.0010)	0.0093	ND(0.30)		ND(13)			O	
	ND(0.0014)	0.0087						L	
2021/11/25 8:15	ND(0.00094)	0.026						O	
	ND(0.0012)	0.0058						L	

O: 上層 (表層~2m) Outer Layer
L: 下層 (海底より2~3m上) Lower Layer

Cs-134	Cs-137	H-3	全α (gross α)	全β ^{※3} (gross β)	Sr-90	Pu-238	Pu-239+240
放射性物質濃度 (Bq/L) (※2 ND : 不検出)							
Radioactivity concentration (Bq/L) (※2 ND : Not Detectable)							

T-D5	2021/8/11 8:17	ND(0.0011)	0.0031						O
		ND(0.0010)	0.0058						L
	2021/8/17 8:43	ND(0.0013)	0.0045	ND(0.29)		ND(12)			O
		ND(0.0012)	0.0034						L
	2021/8/23 8:56	ND(0.0013)	0.0041						O
		ND(0.0015)	0.0037						L
	2021/8/30 8:25	ND(0.0013)	0.0051						O
		ND(0.0013)	0.0031						L
	2021/9/9 8:36	ND(0.0013)	0.0068	ND(0.30)	ND(2.3)	19	ND(0.00077)		O
		ND(0.0014)	0.0061						L
	2021/9/13 8:31	ND(0.0012)	0.0042						O
		ND(0.00097)	0.0023						L
	2021/9/21 9:13	ND(0.0012)	0.0020	ND(0.29)		ND(13)			O
		ND(0.0013)	0.0027						L
	2021/9/27 8:58	ND(0.0013)	0.0034						O
		ND(0.00096)	0.0032						L
	2021/10/4 9:04	ND(0.0013)	0.024	ND(0.30)	ND(2.4)	ND(15)	0.00077		O
		ND(0.0013)	0.0099						L
	2021/10/11 8:52	ND(0.0013)	0.0085				ND(0.000044)	ND(0.000044)	O
		ND(0.0013)	0.0031						L
2021/10/19 8:44	ND(0.0011)	0.0055	ND(0.30)		15			O	
	ND(0.0012)	0.0035						L	
2021/10/25 8:26	ND(0.0013)	0.0047						O	
	ND(0.0014)	0.0032						L	
2021/11/1 8:31	ND(0.0014)	0.0095	ND(0.29)	ND(1.9)	ND(13)	0.0014		O	
	ND(0.0011)	0.0066						L	
2021/11/8 8:21	ND(0.0012)	0.0095						O	
	ND(0.0013)	0.0065						L	
2021/11/15 8:39	ND(0.0012)	0.015	ND(0.30)		ND(13)			O	
	ND(0.0011)	0.010						L	
2021/11/25 8:45	ND(0.0013)	0.0044						O	
	ND(0.0011)	0.0063						L	
T-D9	2021/8/11 8:01	ND(0.0012)	0.0036						O
		ND(0.0013)	0.0091						L
	2021/8/17 8:07	ND(0.0012)	0.0040	ND(0.29)		ND(12)			O
		ND(0.0012)	0.0027						L
	2021/8/23 8:22	ND(0.0012)	0.0034						O
		ND(0.0012)	0.0030						L
	2021/8/30 8:23	ND(0.0012)	0.0052						O
		ND(0.0014)	0.0024						L
	2021/9/10 8:32	ND(0.0013)	0.0027	ND(0.30)	ND(2.5)	ND(13)	0.00091		O
		ND(0.0012)	0.0032						L
	2021/9/13 8:05	ND(0.0014)	0.0060						O
		ND(0.0010)	0.0036						L
	2021/9/21 8:39	ND(0.0013)	0.0031	ND(0.29)		15			O
		ND(0.0010)	0.0047						L
	2021/9/27 8:12	ND(0.0011)	0.0036						O
		ND(0.0012)	0.0027						L
	2021/10/4 8:15	ND(0.0014)	0.025	ND(0.30)	ND(2.4)	ND(15)	0.0010		O
		ND(0.0014)	0.013						L
	2021/10/15 8:08	ND(0.0013)	0.0076				ND(0.000049)	ND(0.000047)	O
		ND(0.0012)	0.0055						L
2021/10/18 8:44	ND(0.0012)	0.0040	ND(0.30)		ND(12)			O	
	ND(0.0012)	0.0031						L	
2021/10/25 8:26	ND(0.0011)	0.0057						O	
	ND(0.0011)	0.0026						L	
2021/11/1 8:45	ND(0.0013)	0.0098	ND(0.30)	ND(1.9)	14	0.0014		O	
	ND(0.0014)	0.0040						L	
2021/11/8 8:22	ND(0.0012)	0.011						O	
	ND(0.0013)	0.0068						L	
2021/11/15 8:34	ND(0.0012)	0.0064	ND(0.30)		ND(13)			O	
	ND(0.0014)	0.0064						L	
2021/11/24 8:23	ND(0.0012)	0.0046						O	
	ND(0.0013)	0.0053						L	

O : 上層(表層~2m) Outer Layer
 L : 下層(海底より2~3m上) Lower Layer

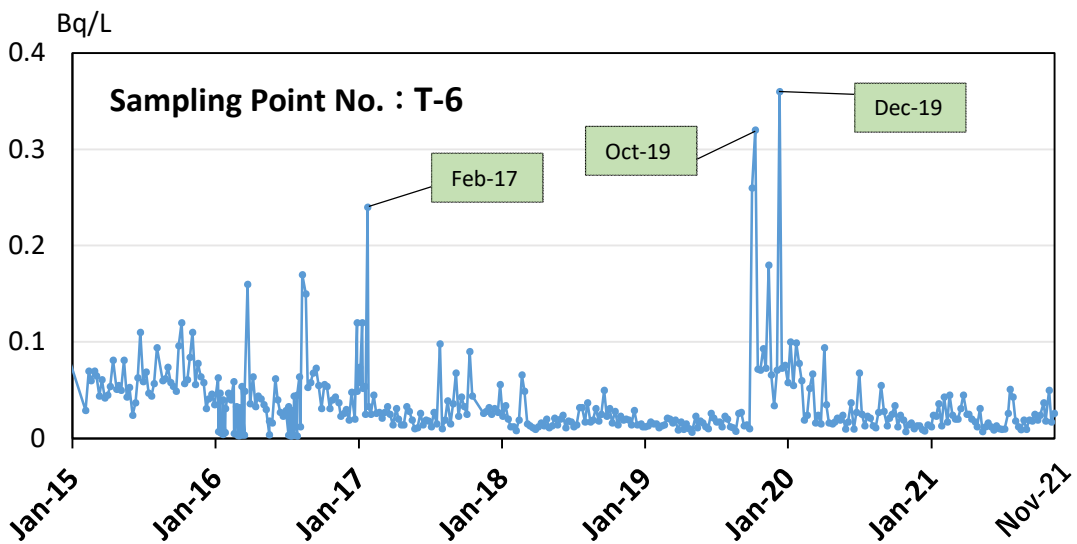
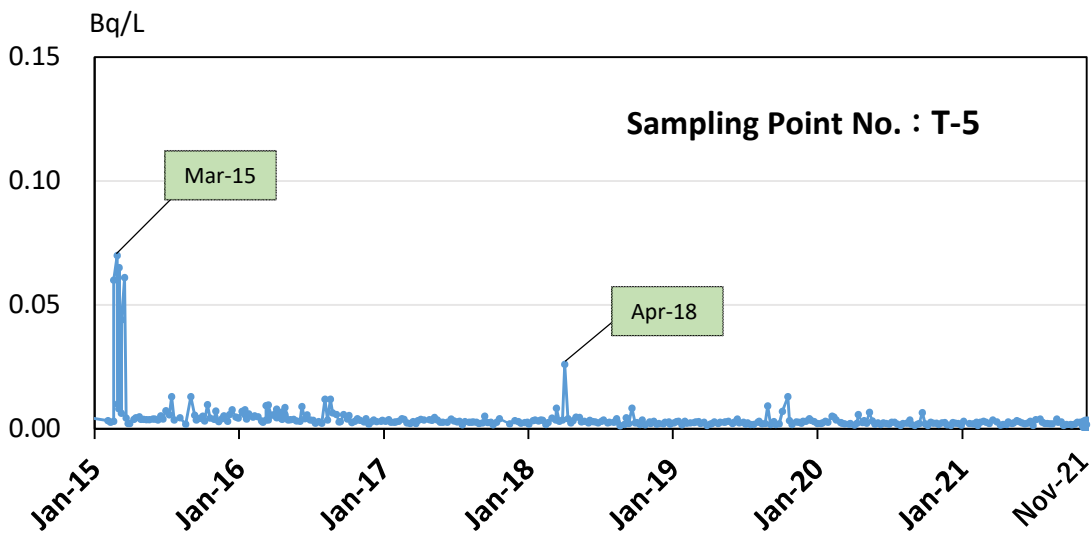
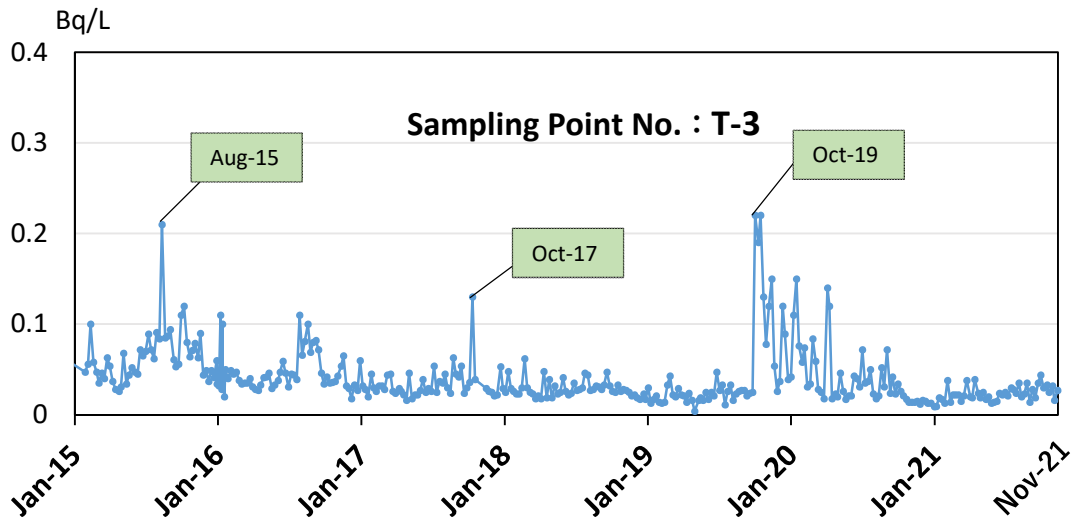
Cs-134	Cs-137
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放射性物質濃度 (Bq/L) (*2 ND : 不検出)
Radioactivity concentration (Bq/L) (*2 ND : Not Detectable)

T-11	2021/8/11 8:31	ND(0.0013)	0.0040	O
		ND(0.0014)	0.0049	L
	2021/8/17 8:44	ND(0.0012)	0.011	O
		ND(0.0011)	0.0045	L
	2021/8/23 8:57	ND(0.0011)	0.0043	O
		ND(0.0014)	0.0044	L
	2021/8/30 8:53	ND(0.0014)	0.0030	O
		ND(0.0013)	0.0026	L
	2021/9/10 9:08	ND(0.00098)	0.0058	O
		ND(0.0011)	0.0054	L
	2021/9/13 8:35	ND(0.0011)	0.0052	O
		ND(0.0012)	0.0035	L
	2021/9/21 9:11	ND(0.0012)	0.0071	O
		ND(0.0012)	0.0070	L
	2021/9/27 8:47	ND(0.0012)	0.0042	O
		ND(0.0012)	0.0035	L
	2021/10/4 8:49	ND(0.0012)	0.012	O
		ND(0.0014)	0.016	L
	2021/10/15 8:38	ND(0.0012)	0.011	O
		ND(0.0013)	0.011	L
2021/10/18 9:13	ND(0.0013)	0.010	O	
	ND(0.0013)	0.0063	L	
2021/10/25 8:56	ND(0.0012)	0.0079	O	
	ND(0.0013)	0.0066	L	
2021/11/1 9:19	ND(0.0011)	0.0083	O	
	ND(0.0013)	0.0053	L	
2021/11/8 8:53	ND(0.0012)	0.014	O	
	ND(0.0014)	0.018	L	
2021/11/15 9:15	ND(0.0013)	0.0084	O	
	ND(0.0014)	0.012	L	
2021/11/24 8:54	ND(0.0013)	0.0072	O	
	ND(0.0012)	0.0089	L	

T-14	2021/8/11 7:31	ND(0.0014)	0.0052	O
		ND(0.0014)	0.0052	L
	2021/8/17 7:48	ND(0.0014)	0.0022	O
		ND(0.0014)	0.0062	L
	2021/8/23 8:11	ND(0.0014)	0.0028	O
		ND(0.0014)	0.0030	L
	2021/8/30 7:34	ND(0.0014)	0.0047	O
		ND(0.0014)	0.0030	L
	2021/9/9 7:41	ND(0.0014)	0.0088	O
		ND(0.0014)	0.0056	L
	2021/9/13 7:46	ND(0.0014)	0.0060	O
		ND(0.0014)	0.0042	L
	2021/9/21 8:18	ND(0.0014)	0.0037	O
		ND(0.0014)	0.0040	L
	2021/9/27 8:03	ND(0.0014)	0.0034	O
		ND(0.0014)	0.0031	L
	2021/10/4 7:57	ND(0.0014)	0.0098	O
		ND(0.0014)	0.016	L
	2021/10/11 7:52	ND(0.0014)	0.0054	O
		ND(0.0014)	0.0035	L
2021/10/19 7:54	ND(0.0014)	0.0047	O	
	ND(0.0014)	0.0027	L	
2021/10/25 7:37	ND(0.0014)	0.0034	O	
	ND(0.0014)	0.0027	L	
2021/11/1 7:35	ND(0.0014)	0.0038	O	
	ND(0.0014)	0.0047	L	
2021/11/8 7:35	ND(0.0014)	0.0050	O	
	ND(0.0014)	0.010	L	
2021/11/15 7:44	ND(0.0014)	0.0064	O	
	ND(0.0014)	0.0080	L	
2021/11/25 7:52	ND(0.0014)	0.0046	O	
	ND(0.0014)	0.0045	L	

O : 上層 (表層~2m) Outer Layer
L : 下層 (海底より2~3m上) Lower Layer



Concentration ranges of Cs-137 in sea-water around the Fukushima Daiichi NPS surveyed by TEPCO

福島第一原子力発電所沿岸の海域モニタリング結果

Readings of Sea Area Monitoring around Fukushima Dai-ichi NPP

試料採取日：令和3年9月9日、10日、10月7日、8日、11月4日、5日
(Sampling Date: Sep 9, 10, Oct 7, 8, Nov 4, 5, 2021)

令和3年12月14日
Dec 14, 2021
原子力規制委員会
Nuclear Regulation Authority (NRA)

		Cs-134	Cs-137	Sr-90	H-3	
採取日 Sampling Date	採取深度 Sampling Depth (m)	放射性物質濃度 Bq/L (※ ND : 不検出) Radioactivity concentration (Bq/L) (※ ND : Not Detectable)				
T-D1	2020/12/4	0.5	ND(0.00029)	0.0036	0.00082	0.11
	2021/1/14	0.5	ND(0.00026)	0.0037	0.00070	0.095
	2021/2/5	0.5	0.00043	0.0079	0.00075	0.12
	2021/3/5	0.5	0.00044	0.010	0.0013	0.072
	2021/4/22	0.5	ND(0.00051)	0.0077	0.00076	0.077
	2021/5/19	0.5	ND(0.00047)	0.0037	0.00069	ND(0.059)
	2021/6/11	0.5	ND(0.00045)	0.0031	0.00079	0.085
	2021/7/13	0.5	ND(0.00051)	0.0025	0.00057	0.16
	2021/8/7	0.5	ND(0.00042)	0.0031	0.00077	0.11
	2021/9/9	0.5	ND(0.00049)	0.0070	0.0011	0.076
	2021/10/8	0.5	0.00057	0.014	0.00095	
2021/11/5	0.5	ND(0.00056)	0.0039			
T-D5	2020/12/3	0.5	ND(0.00027)	0.0032	0.00070	0.090
	2021/1/15	0.5	ND(0.00025)	0.0033	0.00084	0.099
	2021/2/4	0.5	ND(0.00061)	0.0020	0.00066	0.085
	2021/3/4	0.5	ND(0.00028)	0.0063	0.00069	0.065
	2021/4/24	0.5	ND(0.00053)	0.0065	0.00065	0.12
	2021/5/18	0.5	ND(0.00051)	0.0048	0.00091	0.11
	2021/6/10	0.5	ND(0.00050)	0.0027	0.00086	0.14
	2021/7/14	0.5	ND(0.00052)	0.0024	0.00075	0.13
	2021/8/6	0.5	ND(0.00052)	0.0040	0.00077	0.10
	2021/9/10	0.5	ND(0.00050)	0.0029	0.00089	0.083
	2021/10/7	0.5	ND(0.00052)	0.0049	0.0010	
2021/11/4	0.5	ND(0.00052)	0.0055			
T-D9	2020/12/3	0.5	ND(0.00027)	0.0027	0.00095	0.078
	2021/1/15	0.5	ND(0.00030)	0.0029	0.00083	0.083
	2021/2/4	0.5	ND(0.00058)	0.0027	0.00068	0.079
	2021/3/4	0.5	ND(0.00029)	0.0050	0.00079	0.058
	2021/4/24	0.5	ND(0.00053)	0.0026	0.00087	0.088
	2021/5/18	0.5	ND(0.00048)	0.0036	0.00093	ND(0.049)
	2021/6/10	0.5	ND(0.00050)	0.0043	0.00071	0.074
	2021/7/14	0.5	ND(0.00052)	0.0030	0.00086	0.12
	2021/8/6	0.5	ND(0.00048)	0.0040	0.00099	0.074
	2021/9/10	0.5	ND(0.00047)	0.0027	0.00066	0.075
	2021/10/7	0.5	ND(0.00048)	0.0036	0.0011	
	2021/11/4	0.5	ND(0.00053)	0.0060		

※ NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。()内は検出下限値。

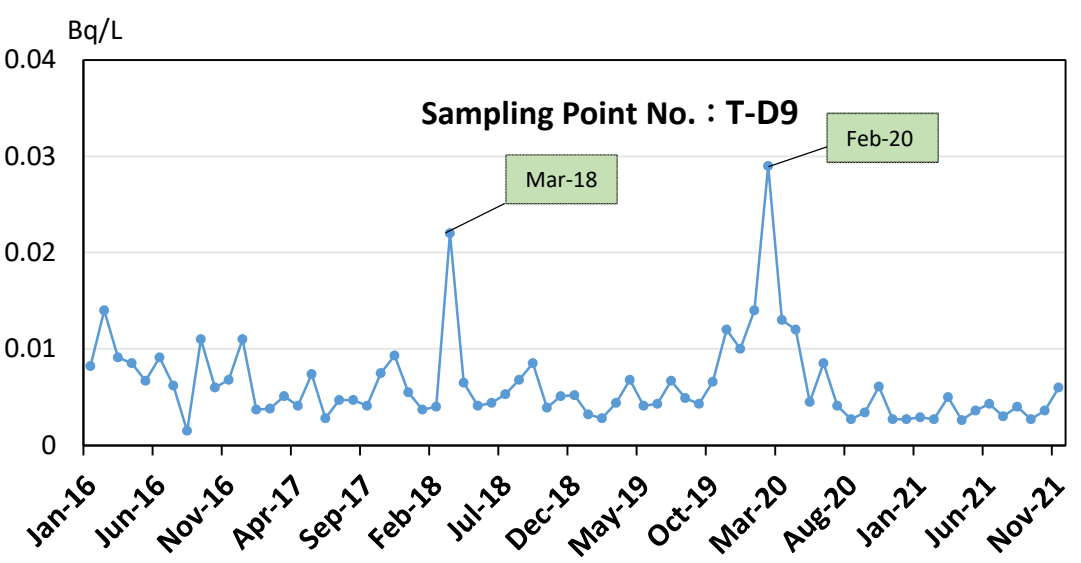
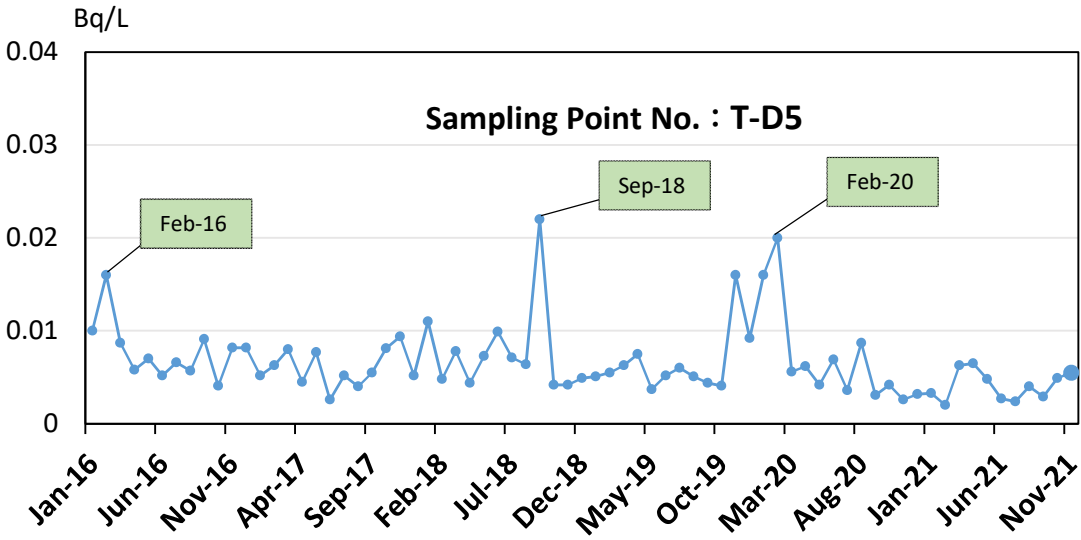
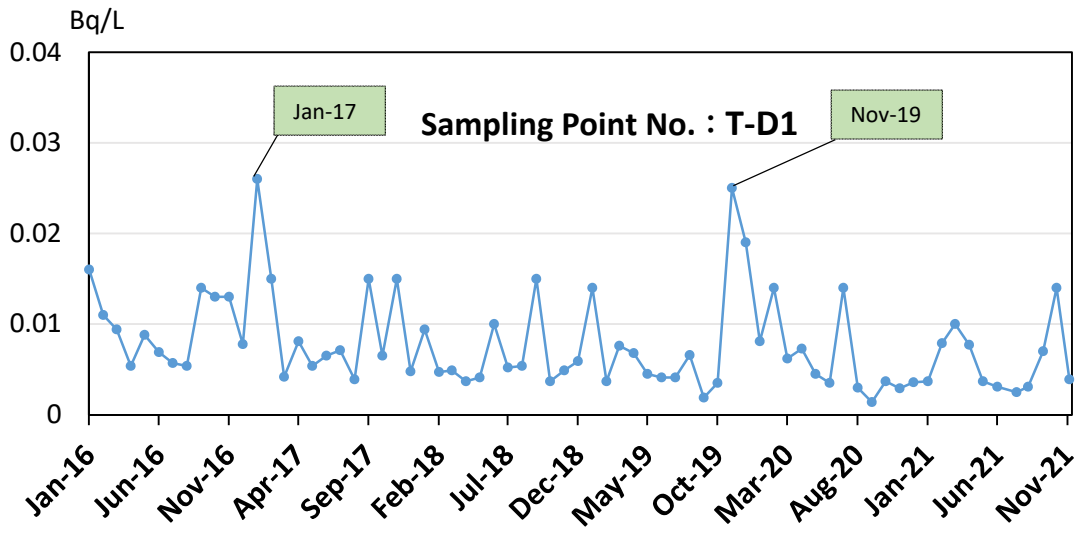
※ ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits. The lower detection limit is in parenthesis.

*原子力規制委員会の委託事業により、(公財)海洋生物環境研究所が採取した試料を用いて、(公財)海洋生物環境研究所[Cs,H-3]、(株)KANSOテクノス[Sr]が分析。

* Analysis by Marine Ecology Research Institute (MERI)[Cs,H-3] and KANSO Co.,Ltd.[Sr] of the samples collected by MERI at the request of Nuclear Regulation Authority (NRA).

* 太字下線データが今回追加分。

* Boldface and underlined readings are new.



Concentration ranges of Cs-137 in sea-water around the Fukushima Daiichi NPS surveyed by the NRA

福島第一原子力発電所沿岸海域の海水の放射性物質濃度測定結果
(福島県の発表をもとに作成^{※1})

Radioactivity concentration in the seawater around Fukushima Dai-ichi NPP
(Based on the press release of Fukushima Prefecture^{※1})

採取日 Sampling date	Cs-134	Cs-137	H-3	全β Gross β	Sr-90	Pu-238	Pu-239+240
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放射性物質濃度(検出下限値)(Bq/L)(ND^{※2}:不検出)
Radioactivity concentration (Lower detection limit) (Bq/L) (ND^{※2}: Not Detectable)

夫沢・熊川沖 2km(大熊町) (F-P05)	2020/8/6	ND	0.010	ND	0.02	0.0007	ND	ND
	2020/9/11	ND	0.004	ND	0.04	0.0010	ND	ND
	2020/10/20	ND	0.005	ND	0.02	0.0008	ND	ND
	2020/11/12	ND	0.004	ND	0.03	0.0011	ND	ND
	2020/12/4	ND	0.006	ND	0.03	0.0008	ND	ND
	2021/1/7	ND	0.004	ND	0.03	0.0010	ND	ND
	2021/2/12	ND	0.008	ND	0.03	0.0006	ND	0.000009
	2021/3/4	ND	0.010	ND	ND	0.0009	ND	ND
	2021/4/20	ND	0.010	ND	0.02	0.0008	ND	0.000010
	2021/5/12	ND	0.004	ND	0.02	0.0010	ND	ND
	2021/6/3	ND	0.006	ND	0.02	0.0012	ND	ND
	2021/7/6	ND	0.009	ND	0.01	0.0008	ND	ND
	2021/8/4	ND	0.005	ND	0.01	0.0010	ND	ND
	2021/9/2	ND	0.007	ND	0.01	0.0012	ND	ND

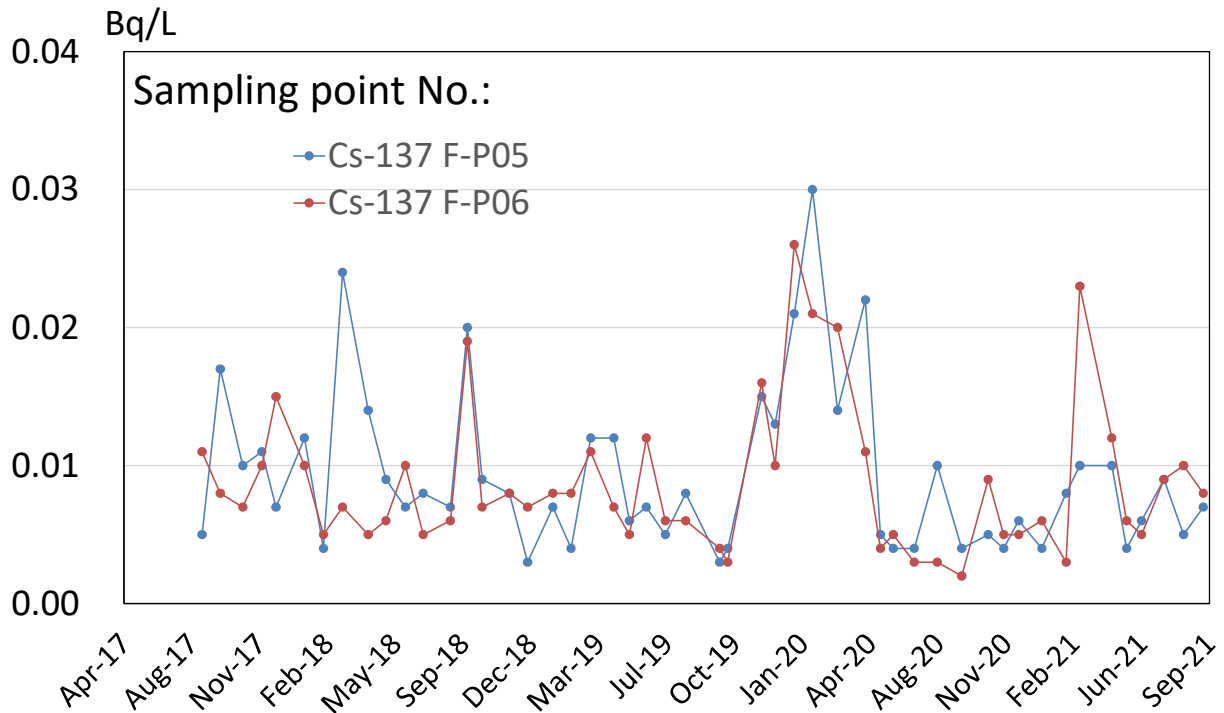
前田川沖2km (双葉町) (F-P06)	2020/8/6	ND	0.003	ND	0.02	0.0008	ND	ND
	2020/9/11	ND	0.002	ND	0.04	0.0009	ND	ND
	2020/10/20	ND	0.009	ND	0.03	0.0012	ND	ND
	2020/11/12	ND	0.005	ND	0.03	0.0008	ND	ND
	2020/12/4	ND	0.005	ND	0.03	0.0009	ND	ND
	2021/1/7	ND	0.006	ND	0.03	0.0009	ND	ND
	2021/2/12	ND	0.003	ND	0.04	0.0010	ND	ND
	2021/3/4	ND	0.023	ND	0.03	0.0012	ND	0.000009
	2021/4/20	ND	0.012	ND	0.02	0.0013	ND	ND
	2021/5/12	ND	0.006	ND	0.02	0.0008	ND	ND
	2021/6/3	ND	0.005	ND	0.02	0.0006	ND	0.000005
	2021/7/6	ND	0.009	ND	0.02	0.0009	ND	ND
	2021/8/4	ND	0.010	ND	0.02	0.0008	ND	0.000005
	2021/9/2	ND	0.008	ND	0.01	0.0016	ND	ND

※1 福島県の発表(<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

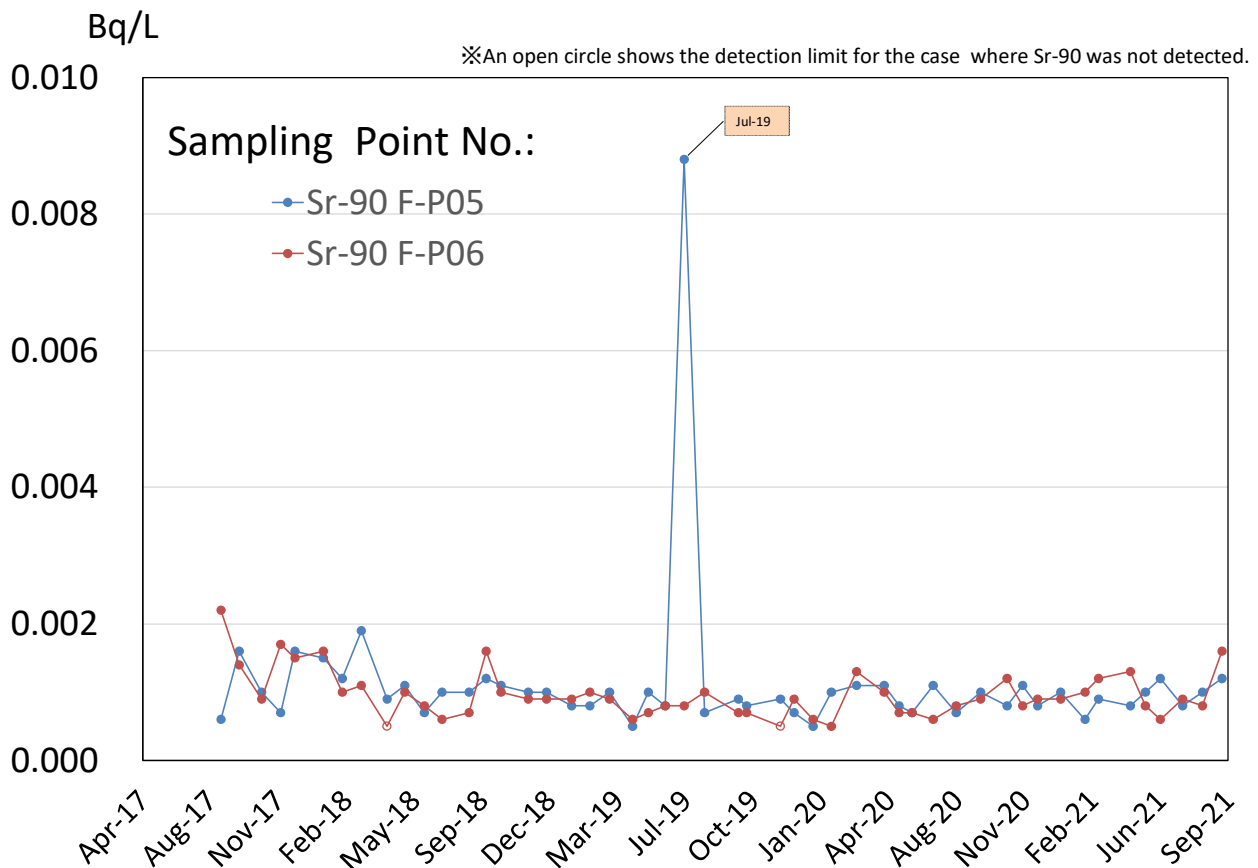
※1 Press release of Fukushima Prefecture (<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

※2 NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。

※2 ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits.

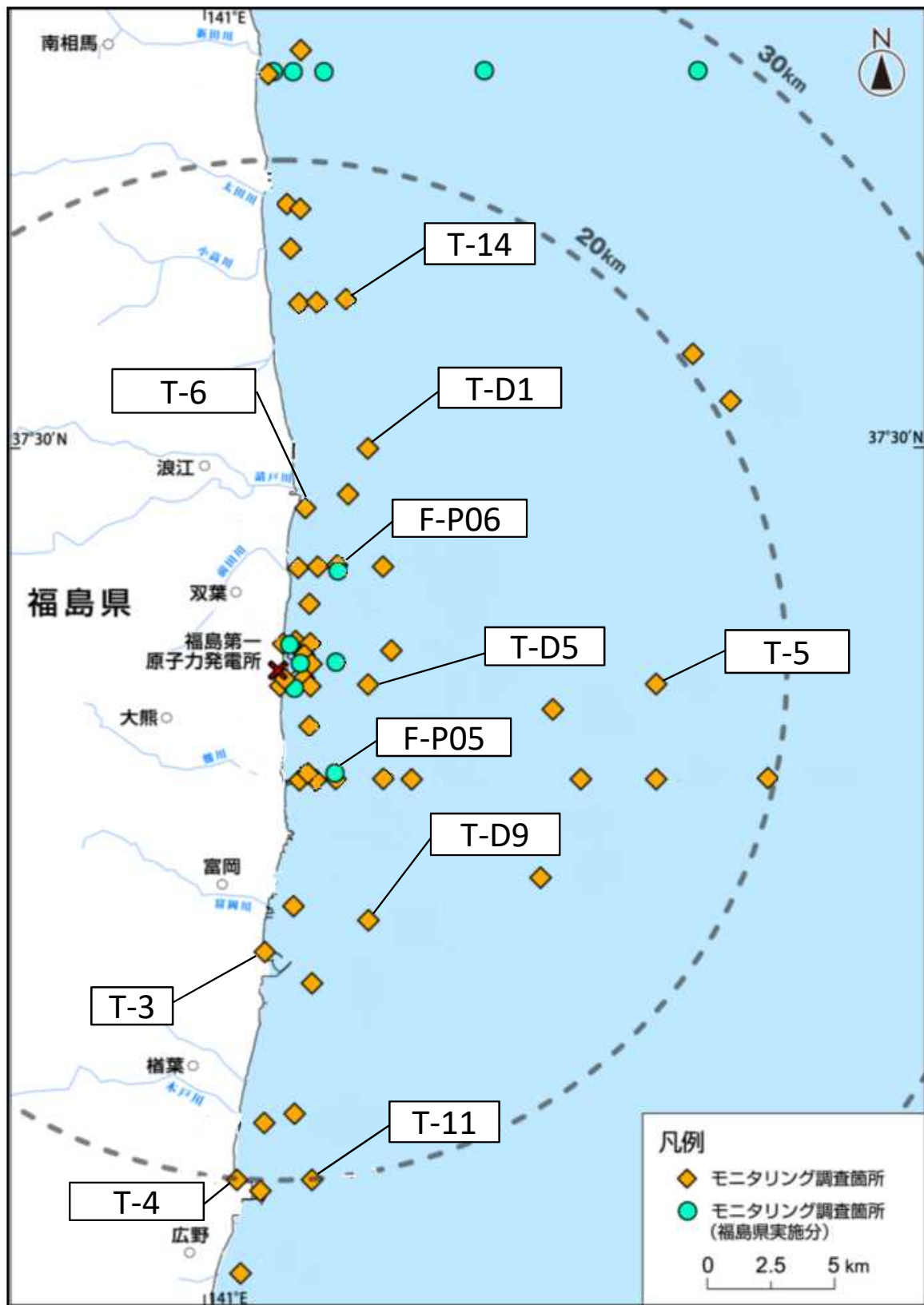


Concentration ranges of Cs-137 in sea-water around the Fukushima Daiichi NPS surveyed by Fukushima prefecture



Concentration ranges of Sr-90 in sea-water around the Fukushima Daiichi NPS served by Fukushima prefecture

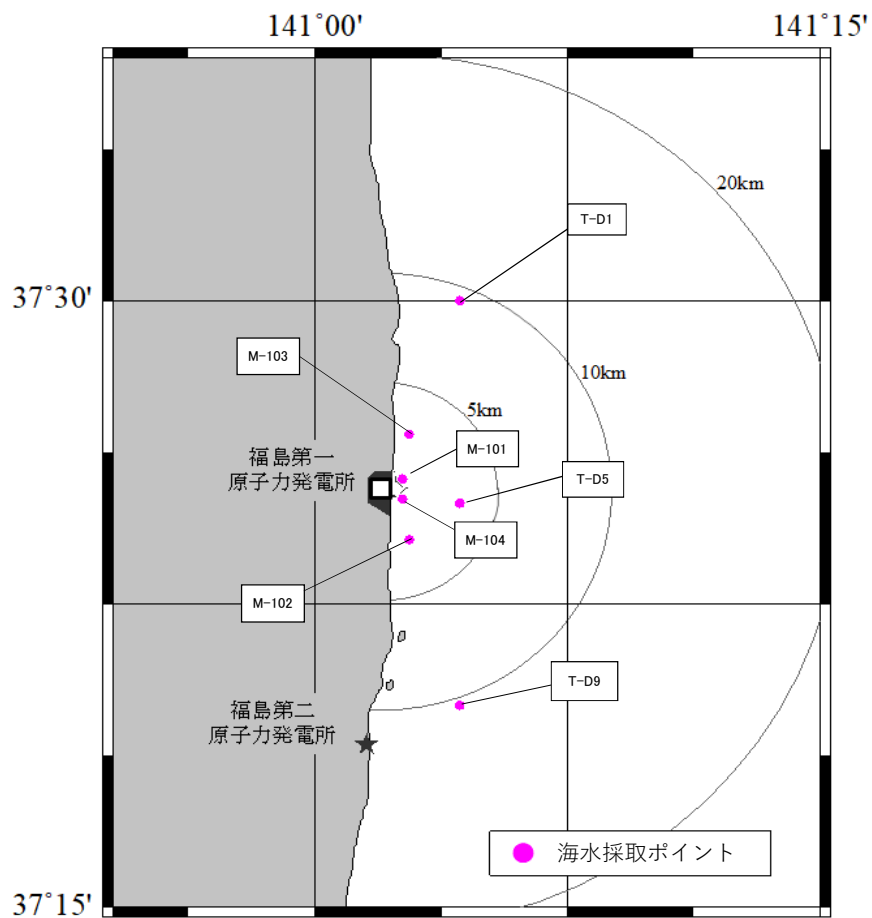
福島第一原子力発電所沿岸海域の海水採取ポイント
 (Seawater sampling points near and around Fukushima Dai-ichi NPP)



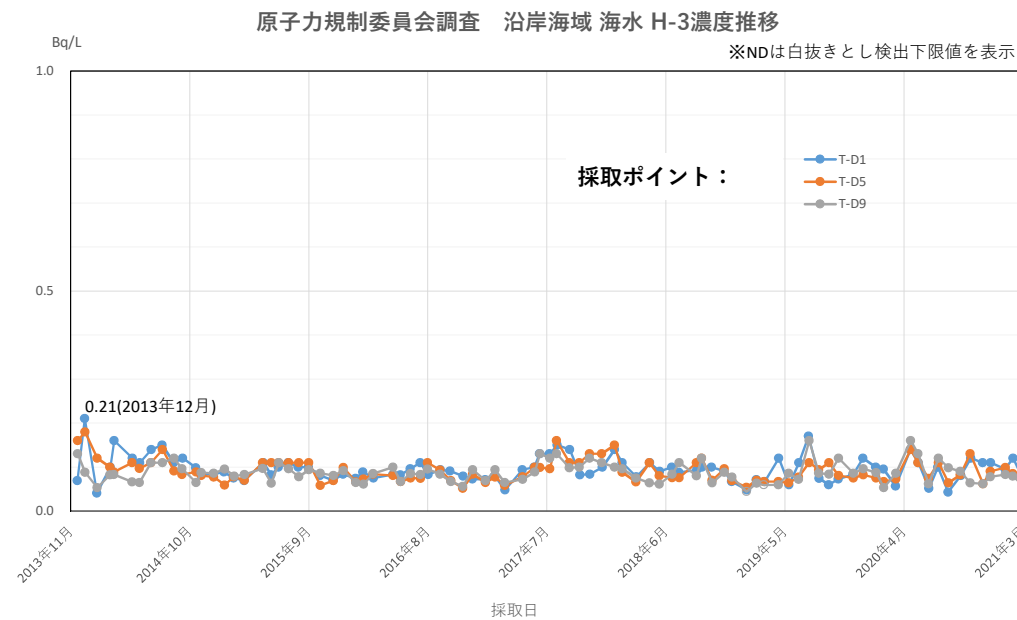
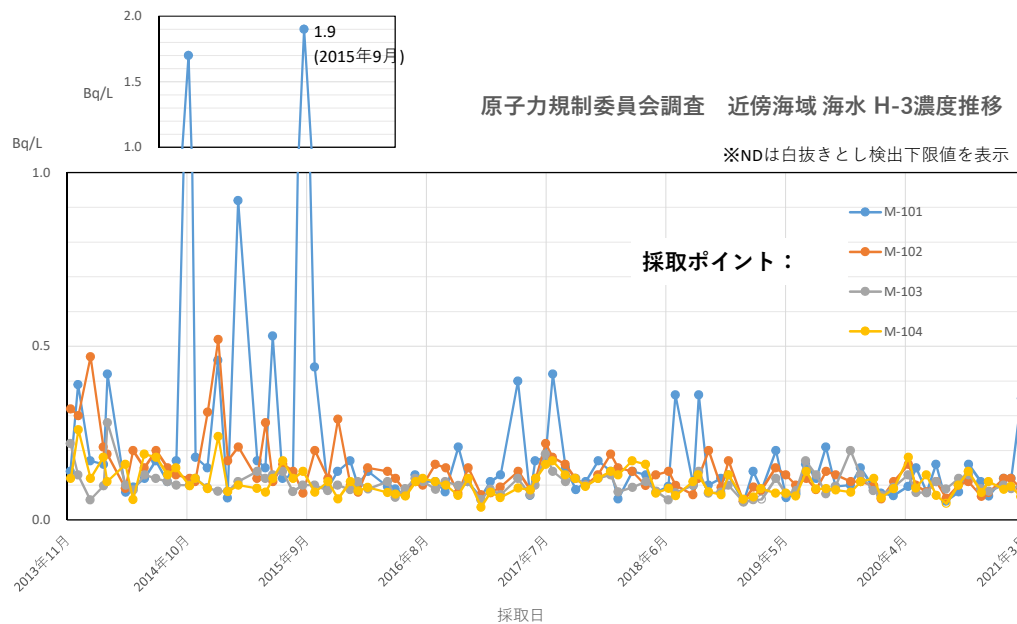
* 図中の×は東京電力ホールディングス㈱福島第一原子力発電所を示す。

* The mark × indicates the location of TEPCO Fukushima Dai-ichi NPP.

福島第一原子力発電所周辺の海域の海水採取ポイント
 (Seawater sampling points around Fukushima Dai-ichi NPP)

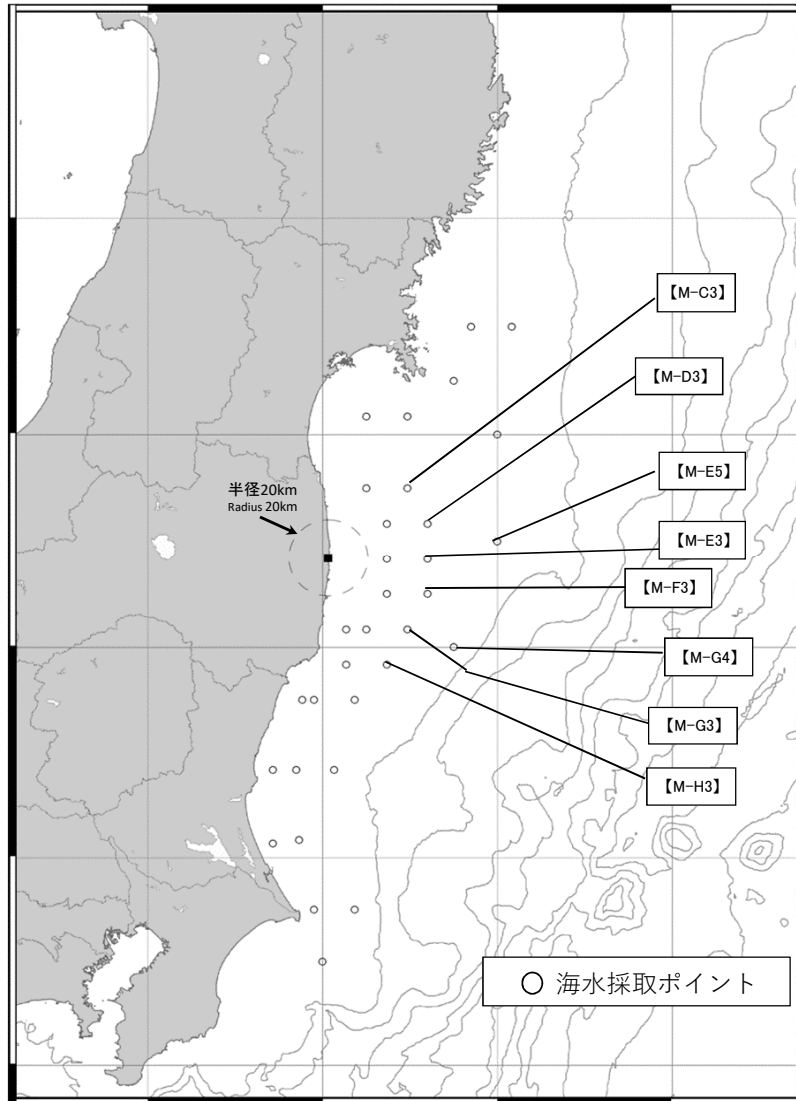


* 図中の□は東京電力ホールディングス株式会社福島第一原子力発電所、★は東京電力ホールディングス株式会社福島第二原子力発電所を示す。
 * The legend □ indicates the location of TEPCO Fukushima Dai-ichi NPP.
 The legend ★ indicates the location of TEPCO Fukushima Dai-ni NPP.



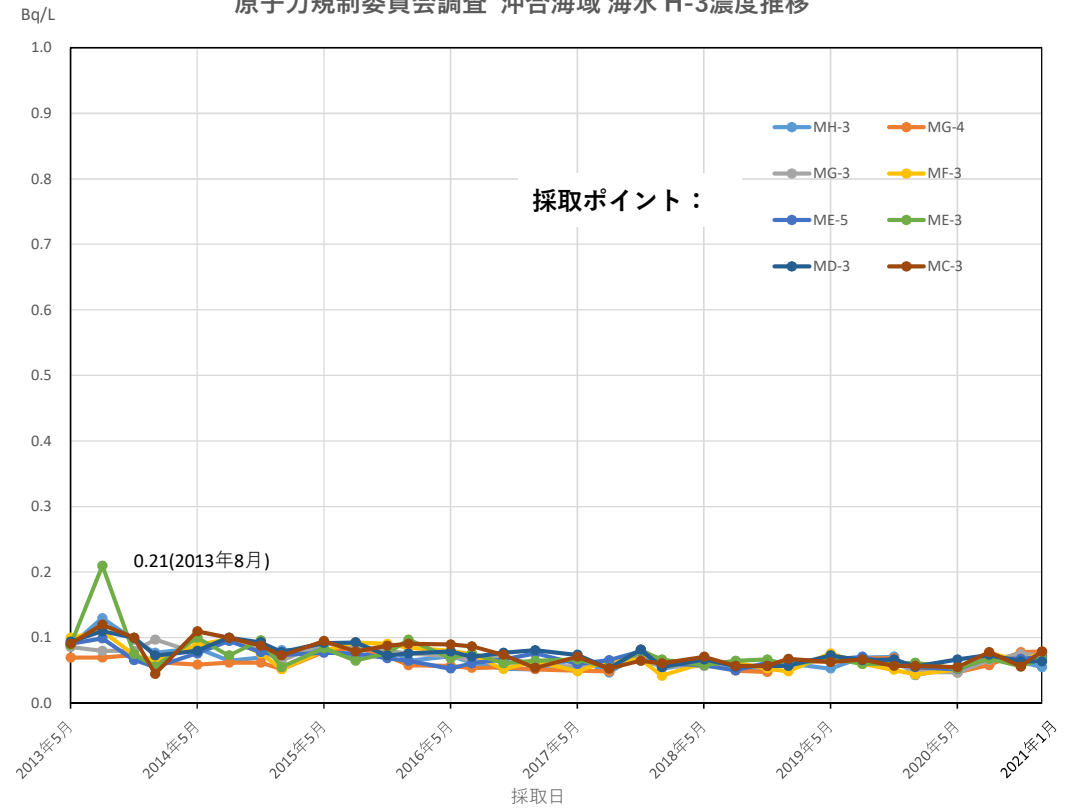
宮城県・福島県・茨城県・千葉県沖における海域の海水採取ポイント

Seawater sampling points offshore of Miyagi, Fukushima, Ibaraki and Chiba Prefecture



* The legend ■ indicates the location of TEPCO Fukushima Dai-ichi NPP.

原子力規制委員会調査 沖合海域 海水 H-3濃度推移



福島第一原子力発電所近傍・沿岸海域の海底土の放射性物質濃度分布
(東京電力ホールディングス㈱の発表をもとに作成※1)
試料採取日: 令和3年11月1日

Radioactivity concentration in the sediment near and around Fukushima Dai-ichi NPP
(Based on the press release of TEPCO※1)
Sampling Date: Nov 1, 2021

令和3年12月28日
Dec 28, 2021

Cs-134	Cs-137	Sr-90	Pu-238	Pu-239+240
放射性物質濃度 (Bq/kg・乾土) (ND ^{※2} : 不検出) Radioactivity concentration (Bq/kg・dry soil) (ND ^{※2} : Not Detectable)				

近傍海域

T-1	2021/8/2 8:47	14	350		
	2021/9/8 9:00	14	300	ND(0.65)	
	2021/10/4 9:15	9.4	310		
	2021/11/1 8:55	11	300	ND(0.74)	

T-2	2021/8/2 7:36	7.1	150		
	2021/9/8 7:20	6.2	140	ND(0.65)	
	2021/10/4 7:20	3.7	150		
	2021/11/1 7:15	4.6	130	ND(0.74)	

沿岸海域

T-3	2021/8/3 15:10	3.4	49	
	2021/9/14 11:00	3.2	53	
	2021/10/5 11:20	ND(2.4)	50	
	2021/11/2 10:15	ND(2.2)	47	

T-4	2021/8/3 12:30	ND(2.7)	35	
	2021/9/7 9:00	ND(2.5)	32	
	2021/10/5 8:55	3.3	85	
	2021/11/2 11:40	ND(2.6)	43	

T-5	2021/8/5 7:21	2.0	24	
	2021/9/10 7:36	ND(2.4)	40	
	2021/10/4 7:16	ND(2.9)	40	
	2021/11/1 7:46	ND(2.2)	38	

T-14	2021/8/2 7:26	ND(2.3)	16	
	2021/9/9 7:41	ND(2.0)	4.7	
	2021/10/4 7:57	ND(2.1)	15	
	2021/11/1 7:35	ND(2.1)	4.6	

T-①	2021/8/25 7:59	ND(2.8)	15	
	2021/9/22 7:39	ND(2.7)	21	
	2021/10/21 8:09	ND(2.7)	43	
	2021/11/17 8:06	2.8	64	

T-②	2021/8/25 7:51	ND(2.3)	20	
	2021/9/22 7:29	ND(2.7)	17	
	2021/10/21 7:57	ND(2.2)	14	
	2021/11/17 7:59	ND(3.0)	16	

T-③	2021/8/25 8:43	7.5	210	
	2021/9/22 8:31	13	330	
	2021/10/21 8:57	5.0	110	
	2021/11/17 8:55	4.3	100	

T-④	2021/8/25 8:35	ND(2.6)	60	
	2021/9/22 8:20	ND(3.0)	78	
	2021/10/21 8:50	2.6	86	
	2021/11/17 8:46	5.7	200	

T-⑤	2021/8/25 8:26	7.5	210	
	2021/9/22 8:08	24	730	
	2021/10/21 8:38	ND(2.7)	55	
	2021/11/17 8:35	6.3	140	

T-⑥	2021/8/26 7:33	10	260	
	2021/9/28 8:09	4.4	150	
	2021/10/22 7:52	10	200	
	2021/11/19 7:46	6.3	200	

T-⑦	2021/8/26 7:26	3.1	88	
	2021/9/28 8:01	2.9	73	
	2021/10/22 7:43	ND(2.8)	99	
	2021/11/19 7:37	6.9	130	

T-⑧	2021/8/26 7:18	ND(2.5)	32	
	2021/9/28 7:49	ND(2.5)	29	
	2021/10/22 7:33	ND(3.0)	31	
	2021/11/19 7:26	ND(2.7)	41	

T-⑨	2021/8/26 7:06	4.9	130	
	2021/9/28 7:27	ND(2.1)	3.1	
	2021/10/22 7:22	ND(3.0)	39	
	2021/11/19 7:14	ND(2.5)	18	

T-⑩	2021/8/31 8:22	ND(2.4)	22	
	2021/9/28 8:11	ND(2.7)	35	
	2021/10/11 8:07	ND(2.6)	19	
	2021/11/2 8:04	ND(2.5)	52	

T-⑪	2021/8/31 7:51	ND(2.4)	50	
	2021/9/28 7:48	ND(2.7)	42	
	2021/10/11 7:41	ND(2.3)	34	
	2021/11/2 7:40	ND(4.3)	32	

* 太字下線データが今回追加分。

* Boldface and underlined readings are new.

※1 東京電力ホールディングス㈱の発表 (<https://www.tepco.co.jp/decommission/data/analysis/index-j.html>)

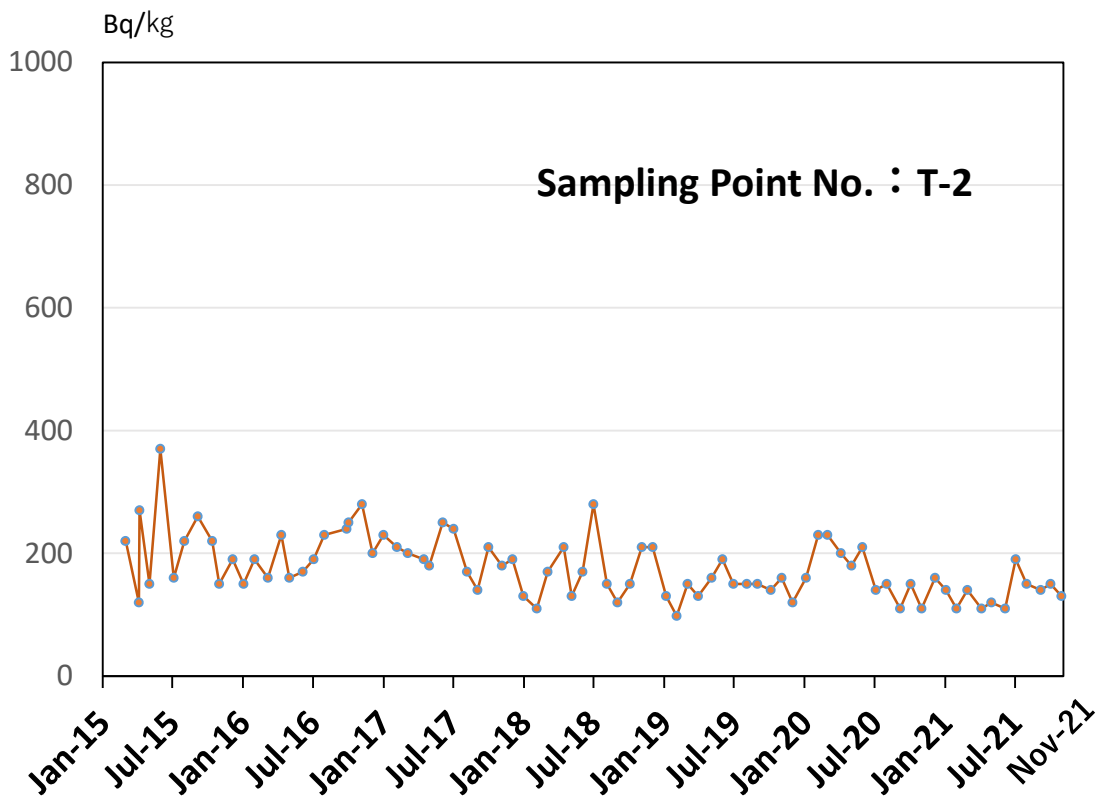
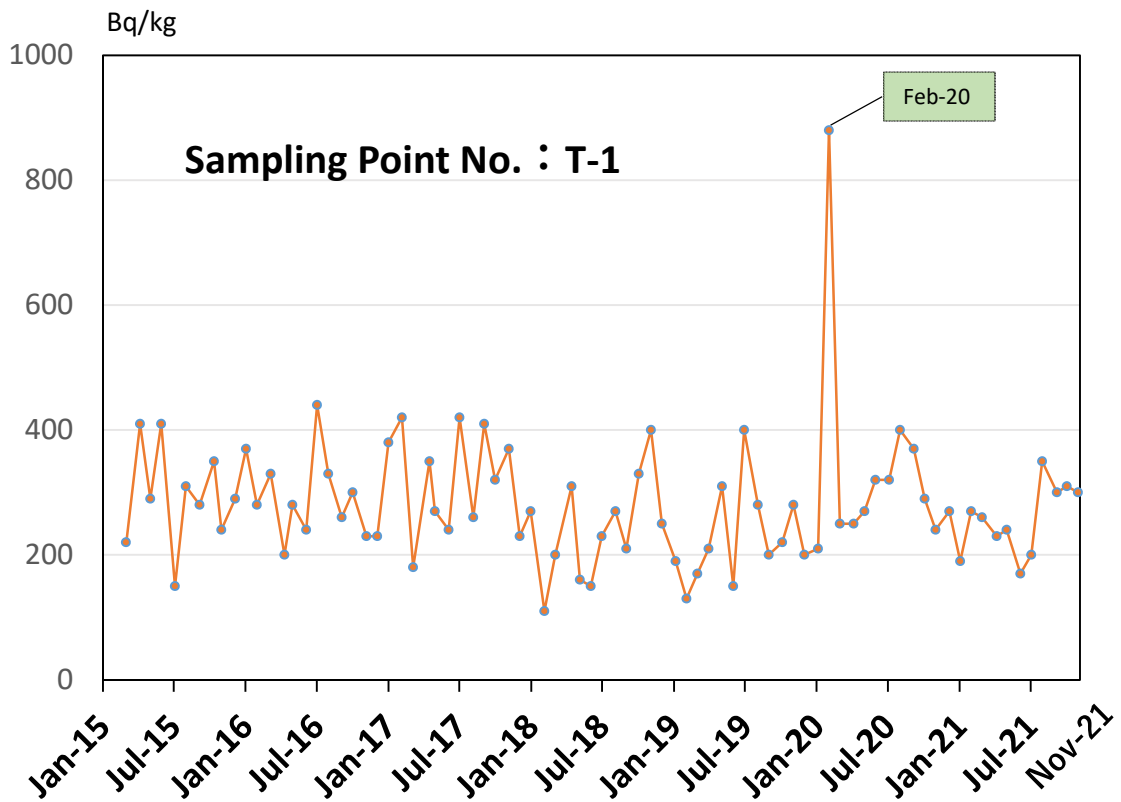
※1 Based on the press release of TEPCO (<https://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/index-e.html>)

※2 NDの記載は、海底土の放射性物質濃度の検出値が検出下限値を下回る場合。()内は検出下限値。

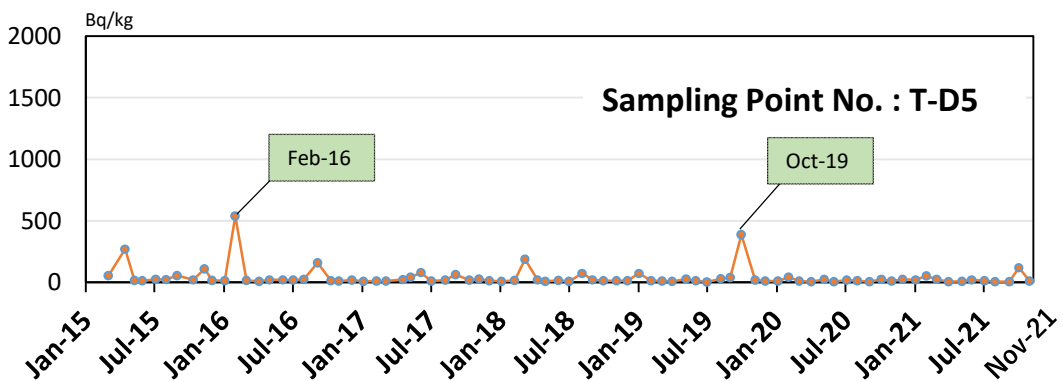
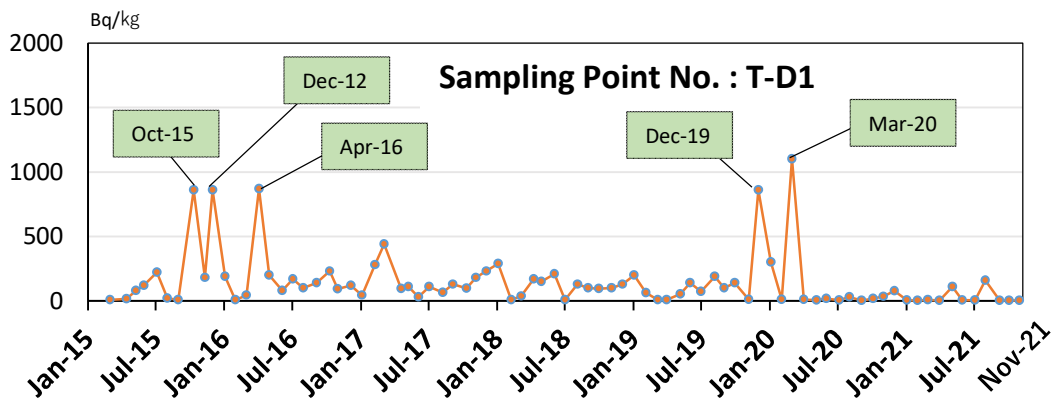
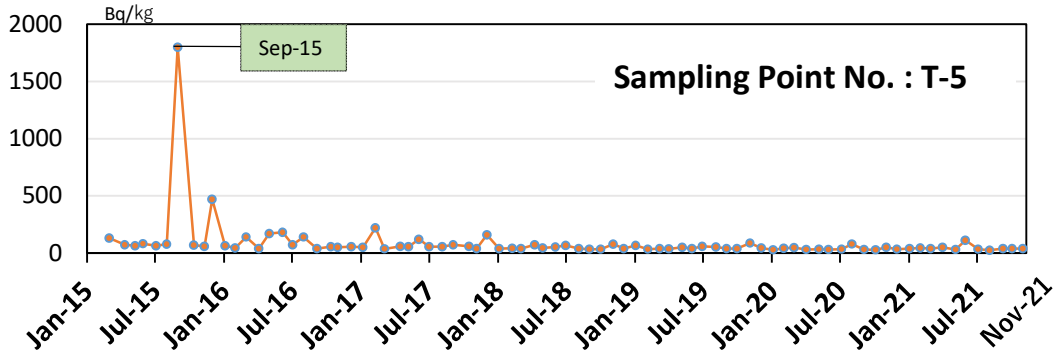
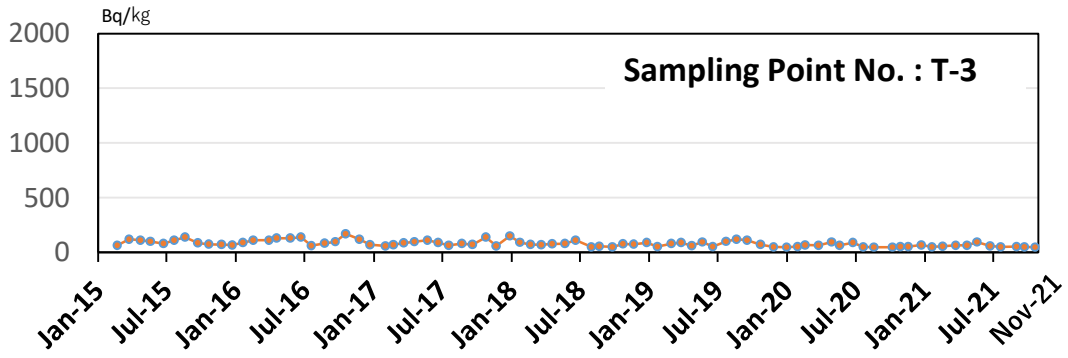
※2 ND indicates the case that the detected radioactivity concentration in marine sediment was lower than the detection limits.
The lower detection limit is in parenthesis.

Cs-134	Cs-137
放射性物質濃度 (Bq/kg・乾土) (ND※2 : 不検出)	
Radioactivity concentration (Bq/kg・dry soil) (ND※2 : Not Detectable)	

T-D1	2021/8/2 7:52	4.8	160
	2021/9/9 8:06	ND(1.7)	4.6
	2021/10/4 8:30	ND(2.1)	3.3
	2021/11/1 7:59	ND(2.0)	4.7
T-D5	2021/8/2 8:25	ND(2.1)	5.1
	2021/9/9 8:36	ND(1.8)	5.5
	2021/10/4 9:04	7.3	120
	2021/11/1 8:31	ND(2.5)	10
T-D9	2021/8/5 8:12	8.0	150
	2021/9/10 8:32	ND(2.5)	14
	2021/10/4 8:15	4.3	47
	2021/11/1 8:45	ND(2.9)	110
T-⑫	2021/8/31 7:28	ND(3.0)	42
	2021/9/28 7:25	ND(2.5)	29
	2021/10/11 7:05	ND(3.1)	46
	2021/11/2 7:15	ND(2.9)	38
T-⑬	2021/8/26 8:10	3.1	110
	2021/9/28 9:01	6.0	160
	2021/10/22 8:30	4.2	130
	2021/11/19 8:29	4.2	82
T-S1	2021/8/18 6:09	ND(2.9)	8.9
	2021/9/1 11:19	ND(3.4)	15
	2021/10/6 6:28	ND(3.1)	46
	2021/11/25 12:20	ND(2.4)	7.8
T-S3	2021/8/25 9:58	ND(2.0)	5.7
	2021/9/2 11:24	ND(2.5)	18
	2021/10/12 6:18	27	740
	2021/11/17 11:13	3.2	64
T-S4	2021/8/25 10:29	6.4	180
	2021/9/2 11:41	ND(2.6)	31
	2021/10/12 5:55	ND(2.4)	32
	2021/11/17 11:00	ND(2.6)	24
T-S5	2021/8/30 6:17	ND(2.0)	10
	2021/9/21 9:50	5.9	160
	採取中止(No samples)		
	2021/11/18 6:29	3.4	80
T-S7	2021/8/30 5:48	ND(2.3)	11
	2021/9/21 9:30	6.6	170
	採取中止(No samples)		
	2021/11/18 6:00	5.0	150
T-S8	2021/8/26 7:03	ND(2.4)	6.6
	2021/9/14 6:11	23	610
	2021/10/20 5:42	ND(2.0)	23
	2021/11/24 6:04	ND(2.6)	34
T-B1	2021/8/24 6:28	ND(2.3)	7.5
	2021/9/24 5:49	ND(2.4)	3.4
	2021/10/5 6:21	ND(2.6)	9.6
	2021/11/16 7:56	ND(1.8)	4.0
T-B2	2021/8/24 5:51	ND(2.6)	23
	2021/9/24 6:22	ND(2.2)	14
	2021/10/5 5:45	ND(2.2)	12
	2021/11/16 7:33	ND(2.1)	9.1
T-B3	2021/8/27 5:56	ND(2.1)	3.0
	2021/9/14 5:56	ND(1.6)	4.2
	2021/10/19 5:45	ND(2.1)	2.4
	2021/11/30 5:47	ND(2.4)	5.3
T-B4	2021/8/27 6:36	ND(3.1)	13
	2021/9/14 6:40	ND(2.3)	8.6
	2021/10/19 6:26	ND(2.2)	7.4
	2021/11/30 6:30	ND(2.4)	21
T-13-1	2021/9/1 10:10	ND(3.1)	94
	2021/11/26 6:30	ND(3.0)	78
T-7			
	2021/9/22 6:54	ND(3.4)	51
	2021/11/4 7:17	ND(2.8)	54
T-18			
	2021/9/22 9:34	ND(3.6)	83
	2021/11/4 9:40	ND(3.0)	59
T-12			
	2021/9/28 5:36	ND(3.5)	14
	2021/11/12 10:12	4.2	100
T-17-1			
	2021/9/28 6:02	ND(2.6)	23
	2021/11/12 10:40	ND(2.4)	20
T-20			
	2021/9/28 6:31	ND(2.5)	18
	2021/11/12 11:04	ND(3.3)	49
T-22			
	2021/9/1 9:05	6.3	170
	2021/11/26 7:43	ND(2.3)	4.1
T-MA			
	2021/9/1 9:35	ND(1.7)	3.0
	2021/11/26 7:07	ND(0.66)	ND(0.72)
T-M10			
	2021/9/22 8:25	ND(3.1)	90
	2021/11/4 8:42	ND(3.4)	53

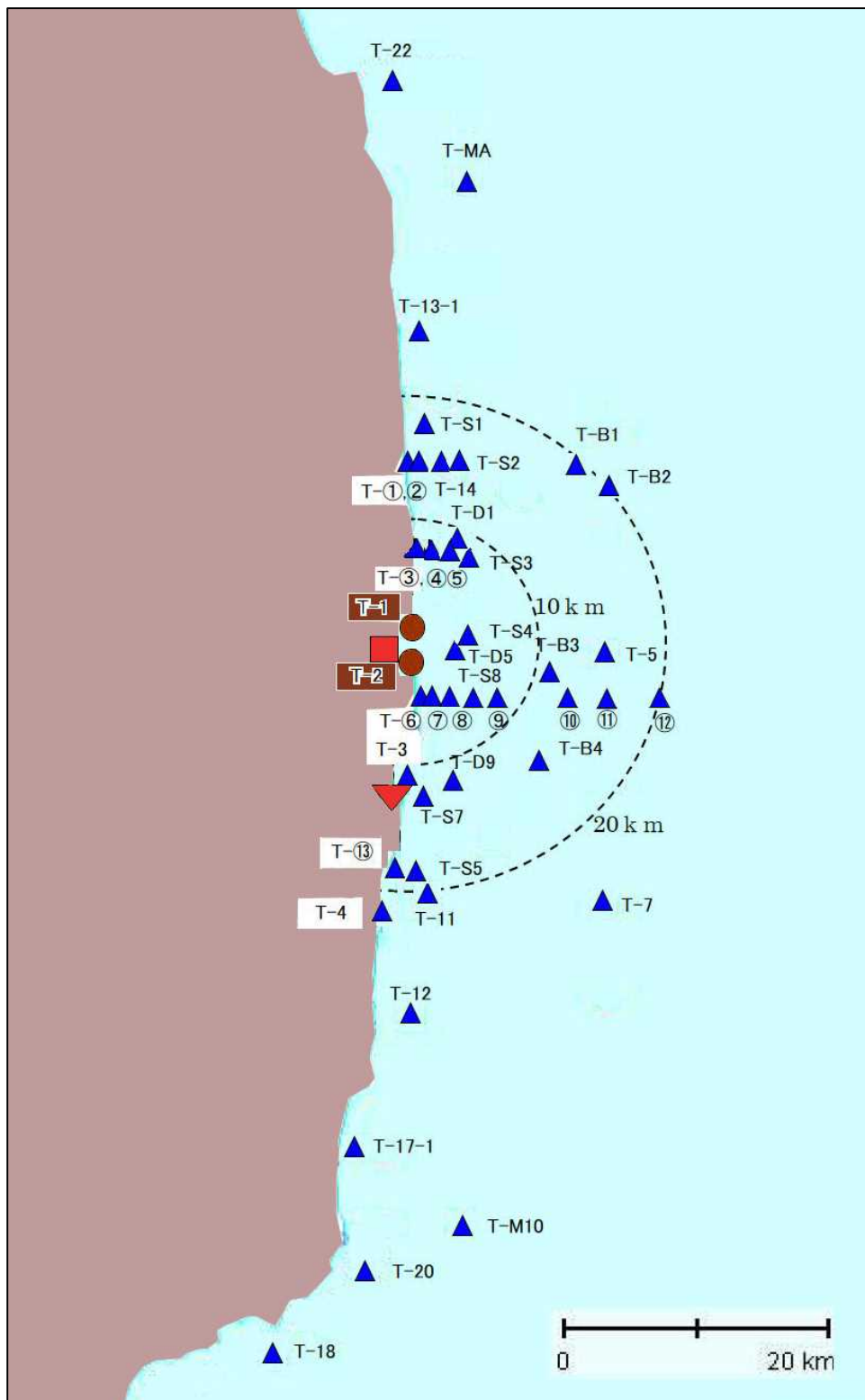


Concentration ranges of Cs-137 in sea-sediment near the Fukushima Daiichi NPS surveyed by TEPCO



Concentration ranges of Cs-137 in sea-sediment around the Fukushima Daiichi NPS surveyed by TEPCO

福島第一及び第二原子力発電所近傍海域の海底土採取ポイント
 (Sediment sampling points near Fukushima Dai-ichi and Dai-ni NPPs)



- ・図中の■及び▼は東京電力ホールディングス㈱福島第一原子力発電所及び福島第二原子力発電所を示す。
- ・The marks ■ and ▼ indicate the locations of TEPCO Dai-ichi and Dai-ni NPPs, respectively.

福島第一原子力発電所近傍海域の海底土の放射性物質濃度測定結果
(福島県の発表をもとに作成^{※1})

Radioactivity concentration in the sediment near Fukushima Dai-ichi NPP
(Based on the press release of Fukushima Prefecture^{※1})

採取場所 Sampling point	採取日 Sampling date	Cs-134	Cs-137	Sr-90	Pu-238	Pu-239+240
放射性物質濃度(検出下限値)(Bq/kg)(ND ^{※2} :不検出) Radioactivity concentration (Lower detection limit) (Bq/kg) (ND ^{※2} : Not)						
南放水口付近 F-P01	2019/8/1	25	330	0.27	ND	0.29
	2019/11/21	18	270	ND	ND	0.15
	2020/2/4	13	210	ND	ND	0.12
	2020/5/14	13	240	ND	ND	0.19
	2020/8/6	17	320	ND	ND	0.15
	2020/11/12	11	220	0.21	ND	0.21
	2021/2/12	10	250	0.29	ND	0.22
	2021/5/12	8.3	210	ND	ND	0.14
	2021/8/4	8.2	220	ND	ND	0.13
北放水口付近 F-P02	2019/8/1	15	210	0.19	ND	0.29
	2019/11/21	23	330	0.35	ND	0.29
	2020/2/4	8.7	150	ND	ND	0.25
	2020/5/14	13	230	0.44	ND	0.15
	2020/8/6	12	230	ND	ND	0.15
	2020/11/12	11	240	ND	ND	0.18
	2021/2/12	9.1	190	0.21	ND	0.19
	2021/5/12	7.2	180	ND	ND	0.27
	2021/8/4	7.7	180	ND	ND	0.21
取水口付近 F-P03	2019/8/1	26	390	0.19	ND	0.32
	2019/11/21	19	280	0.19	ND	0.18
	2020/2/4	13	190	ND	ND	0.26
	2020/5/14	15	270	0.30	ND	0.24
	2020/8/6	11	220	0.25	ND	0.21
	2020/11/12	12	240	ND	ND	0.27
	2021/2/12	13	290	0.43	ND	0.26
	2021/5/12	8.9	210	ND	ND	0.27
	2021/8/4	10	260	0.39	ND	0.25
第一(発)沖合 2km F-P04	2019/8/1	2.6	29	ND	0.01	0.36
	2019/11/21	12	190	ND	ND	0.45
	2020/2/4	2.9	48	ND	ND	0.33
	2020/5/14	3.6	65	ND	ND	0.40
	2020/8/6	3.1	56	ND	ND	0.31
	2020/11/12	1.3	45	0.26	ND	0.25
	2021/2/12	1.8	38	ND	ND	0.37
	2021/5/12	2.3	65	ND	0.01	0.39
	2021/8/4	ND	20	ND	ND	0.38

※1 福島県の発表(<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

※1 Press release of Fukushima Prefecture (<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

※2 NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。

※2 ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits.

福島第一原子力発電所周辺海域の海底土の放射性物質濃度測定結果
(福島県の発表をもとに作成^{※1})

Radioactivity concentration in the sediment around Fukushima Dai-ichi NPP
(Based on the press release of Fukushima Prefecture^{※1})

採取場所 Sampling point	採取日 Sampling date	Cs-134	Cs-137	Sr-90	Pu-238	Pu-239+240
放射性物質濃度 (検出下限値) (Bq/kg) (ND ^{※2} : 不検出)						

夫沢・熊川沖2km (大熊町) (F-P05)	2019/8/1	1.9	28	ND	ND	0.42
	2019/11/21	5.0	76	0.32	ND	0.44
	2020/2/4	3.4	60	ND	ND	0.50
	2020/5/14	3.2	54	ND	0.02	0.50
	2020/8/6	2.1	35	ND	ND	0.42
	2020/11/12	1.6	44	0.25	ND	0.48
	2021/2/12	1.5	32	0.20	ND	0.44
	2021/5/12	2.3	45	ND	ND	0.43
	2021/8/4	1.1	23	ND	ND	0.41

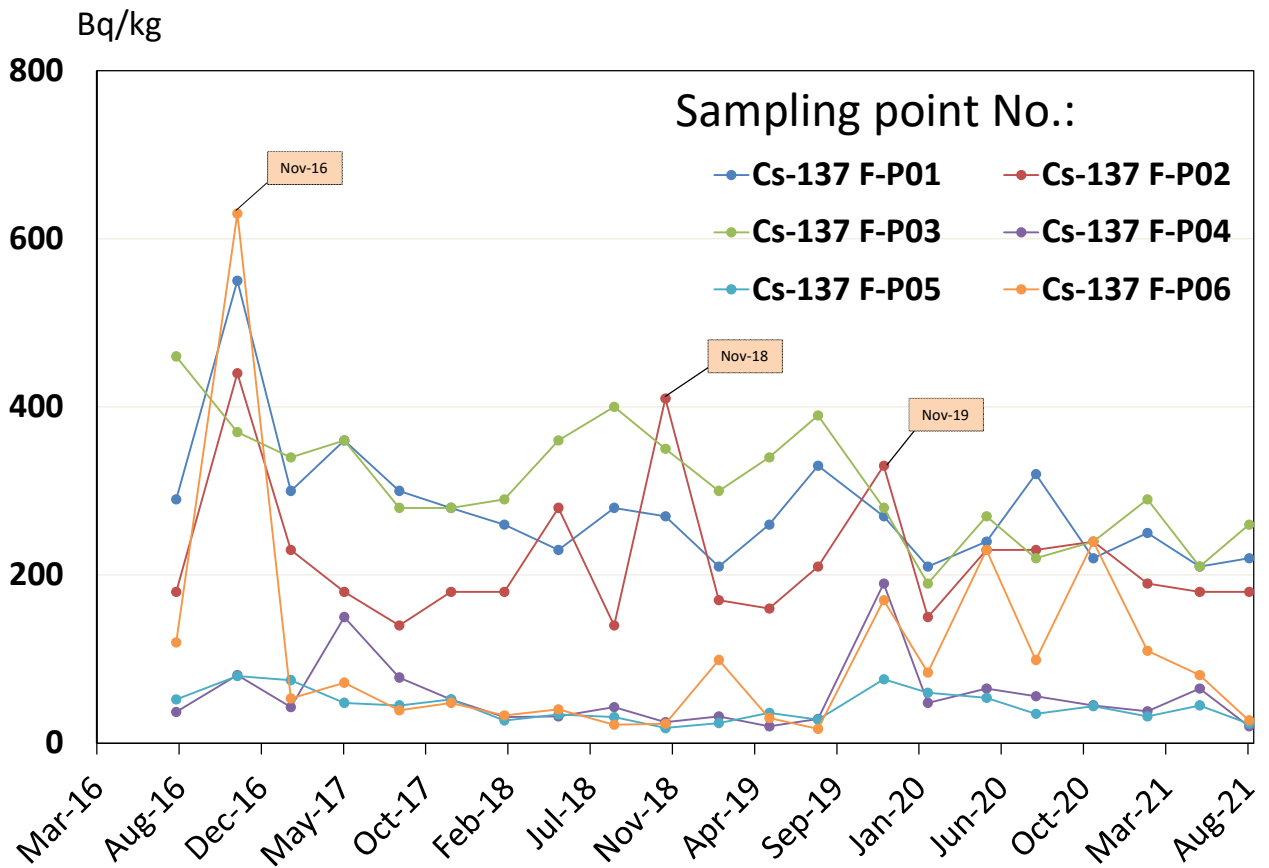
前田川沖2km (双葉町) (F-P06)	2019/8/1	1.7	17	ND	ND	0.38
	2019/11/21	11	170	0.33	0.01	0.43
	2020/2/4	4.6	84	ND	0.01	0.38
	2020/5/14	13	230	ND	ND	0.37
	2020/8/6	5.2	99	ND	ND	0.41
	2020/11/12	11	240	ND	ND	0.33
	2021/2/12	4.6	110	0.19	ND	0.49
	2021/5/12	3.3	81	ND	ND	0.42
	2021/8/4	1.0	27	ND	ND	0.33

※1 福島県の発表(<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

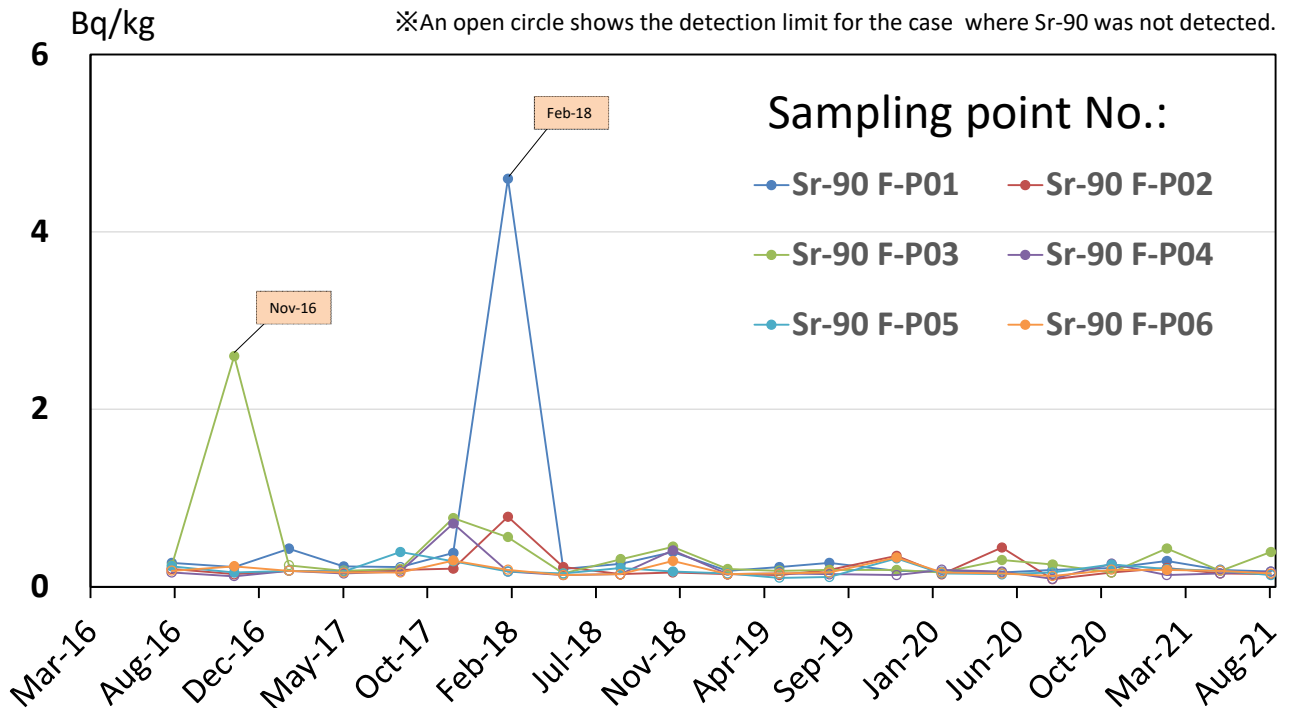
※1 Press release of Fukushima Prefecture (<http://www.pref.fukushima.lg.jp/site/portal/genan208.html>)

※2 NDの記載は、海水の放射性物質濃度の検出値が検出下限値を下回る場合。

※2 ND indicates the case that the detected radioactivity concentration in seawater was lower than the detection limits.

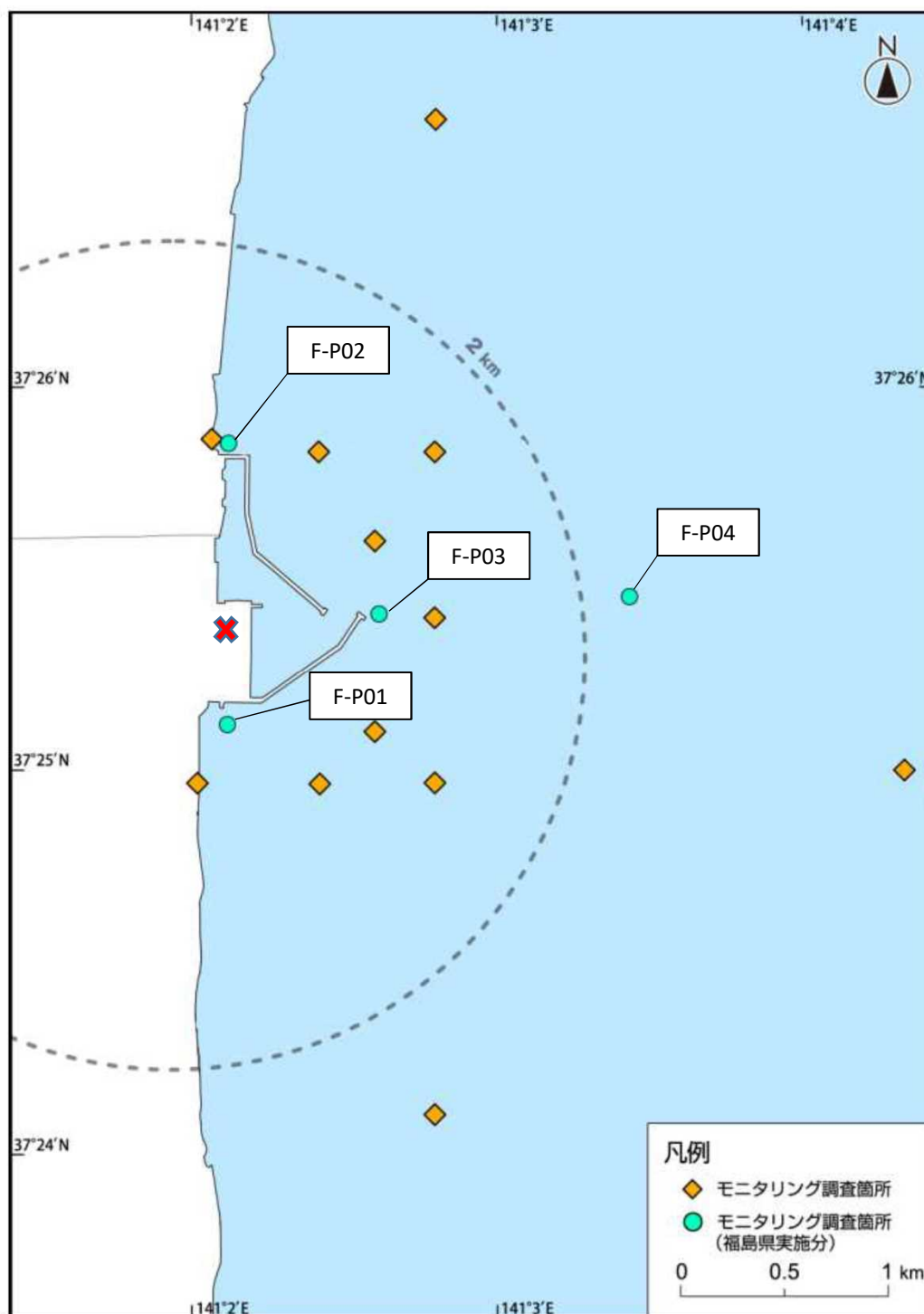


Concentration ranges of Cs-137 in sea-sediment near and around the Fukushima Daiichi NPS surveyed by Fukushima prefecture



Concentration ranges of Sr-90 in sea-sediment near and around the Fukushima Daiichi NPS surveyed by Fukushima prefecture

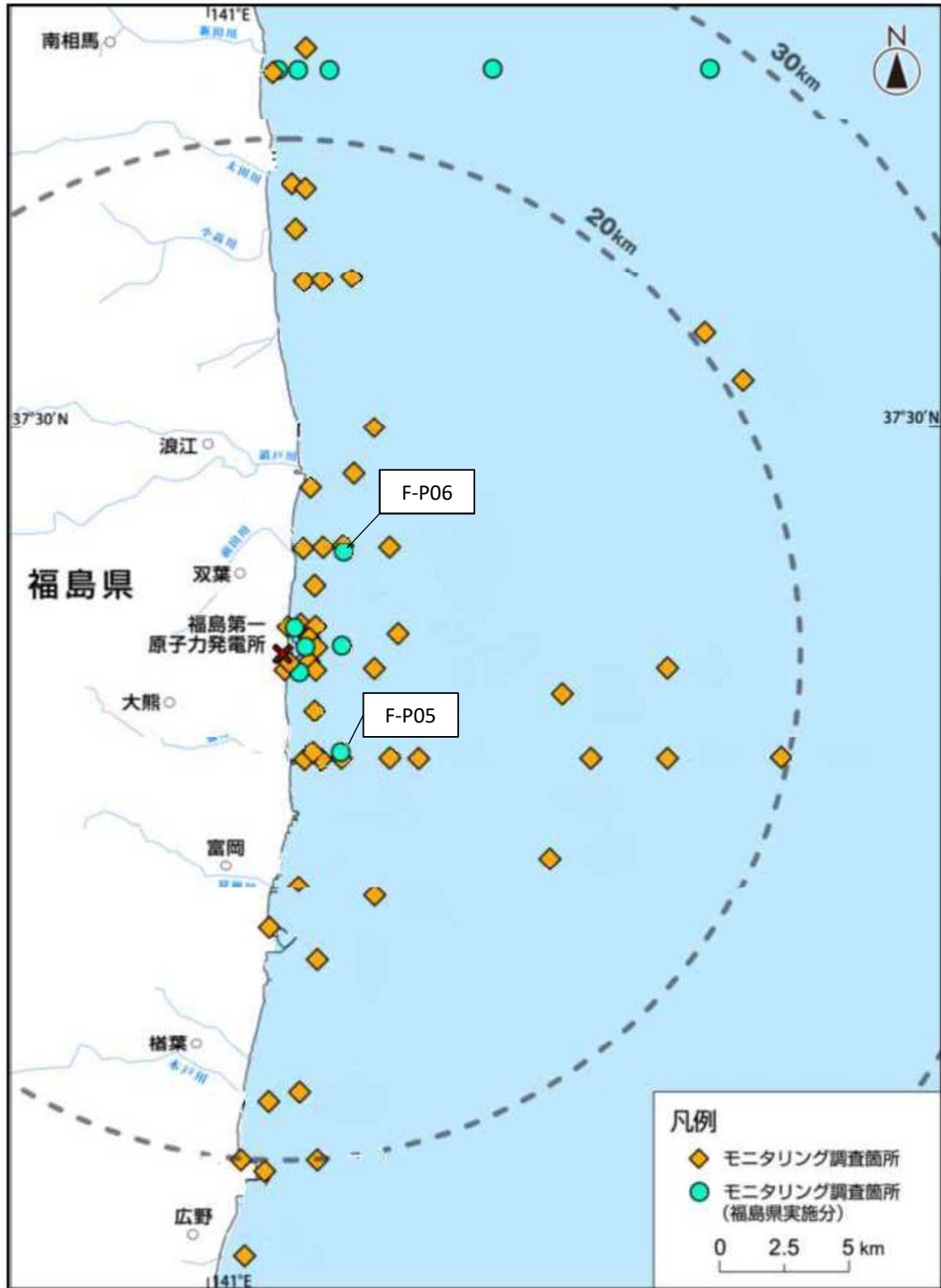
福島第一原子力発電所近傍海域の福島県による採泥ポイント
 (Sediment sampling points near Fukushima Dai-ichi NPP)



*図中の✕は東京電力ホールディングス(株)福島第一原子力発電所を示す。

*The legend ✕ indicates the location of TEPCO Fukushima Dai-ichi NPP.

福島第一原子力発電所沿岸海域の福島県による採泥ポイント
 (Sediment sampling points around Fukushima Dai-ichi NPP)



*図中の×は東京電力ホールディングス(株)福島第一原子力発電所を示す。
 *The legend × indicates the location of TEPCO Fukushima Dai-ichi NPP.