



MEXT

MINISTRY OF EDUCATION,  
CULTURE, SPORTS,  
SCIENCE AND TECHNOLOGY-JAPAN

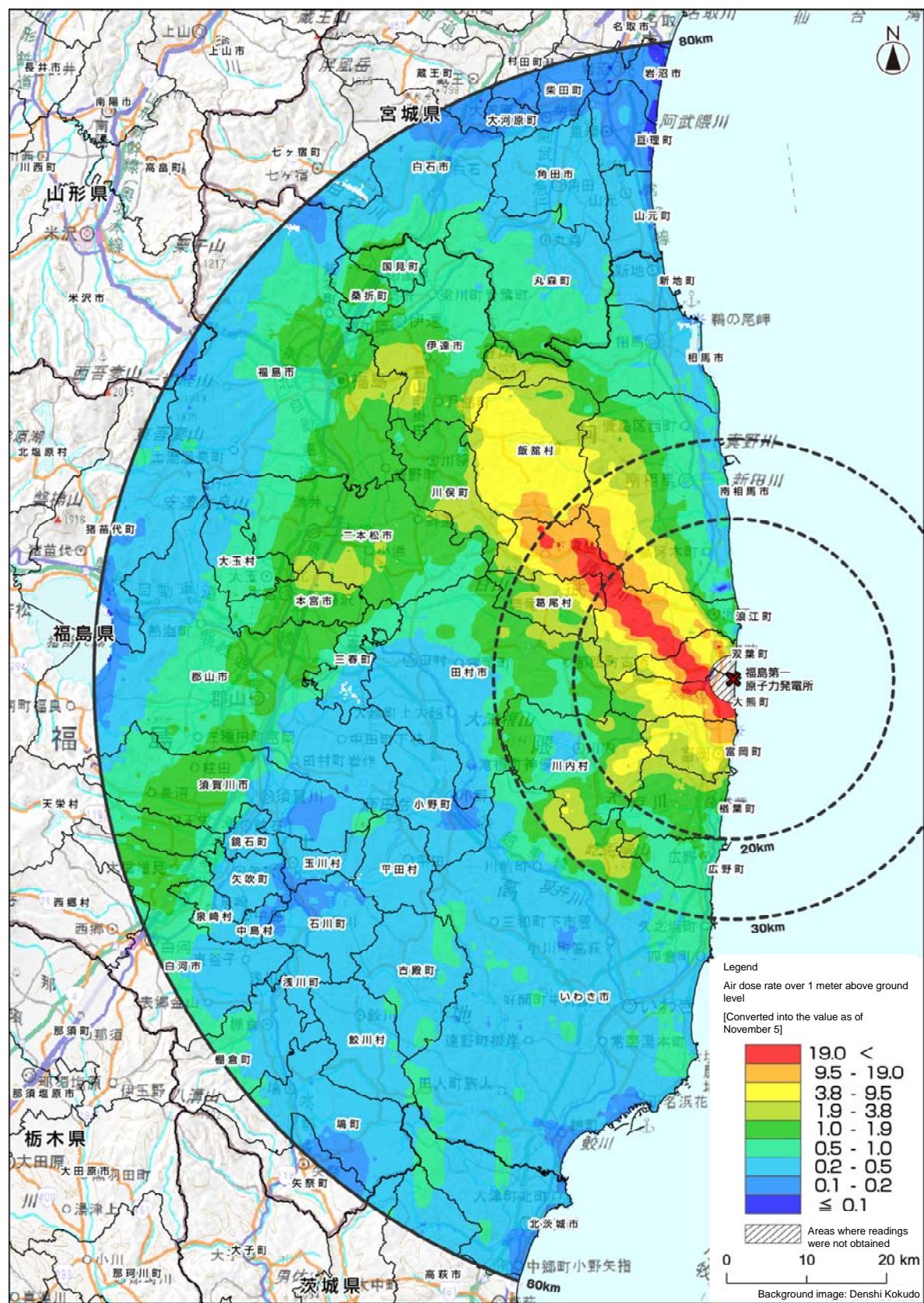
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# Monitoring of environmental radioactivity

- Results of the Fourth Airborne Monitoring Survey by MEXT                    ··· P. 01
- Distribution map of radioactivity concentration in the marine soil around TEPCO Fukushima Dai-ichi NPP                    ··· P. 09
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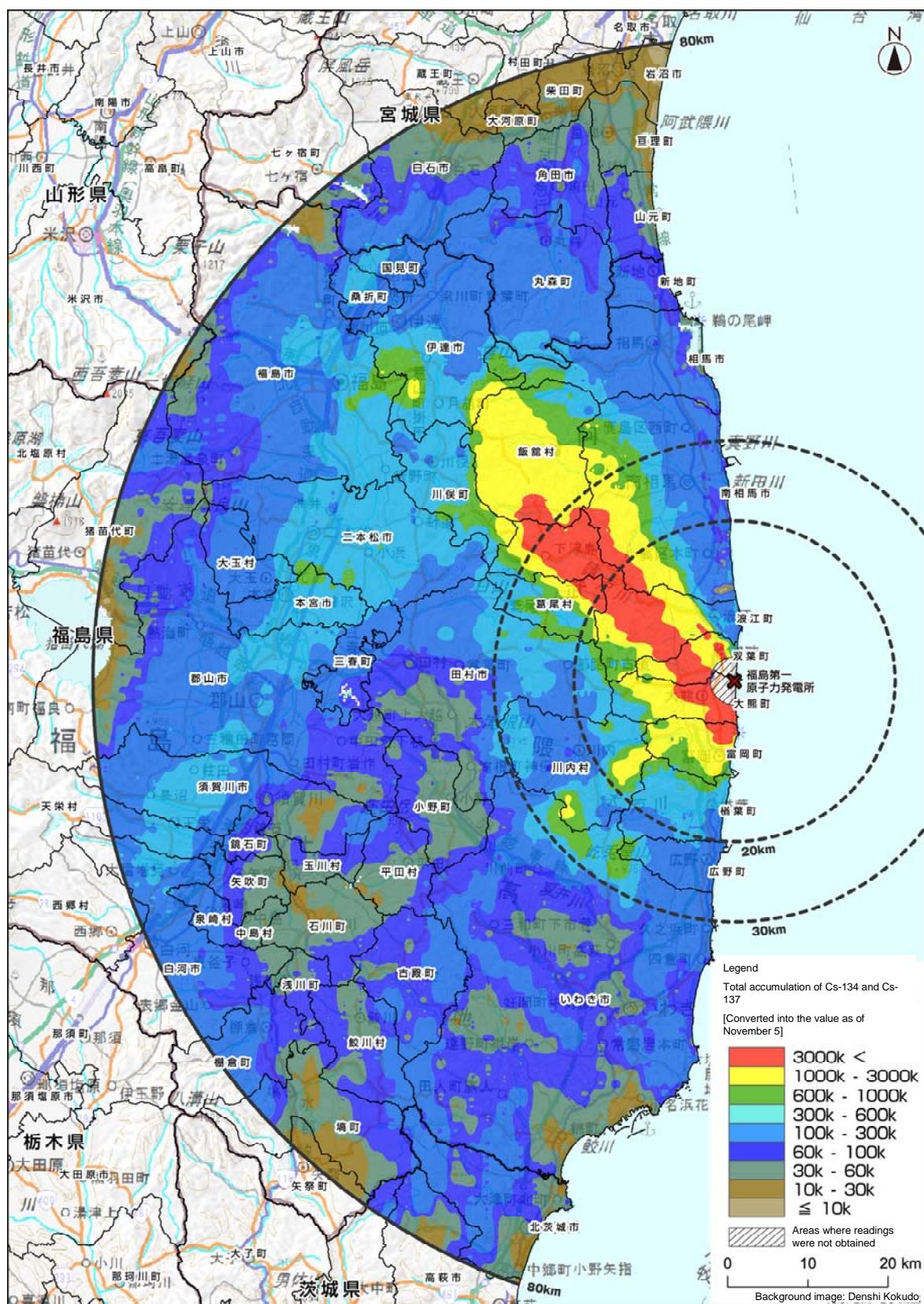
December 22, 2011

**Results of the Fourth Airborne Monitoring Survey by MEXT  
(Air dose rates at the height of 1m above the ground surface  
inside 80 km Zone of Fukushima Dai-ichi NPP)**

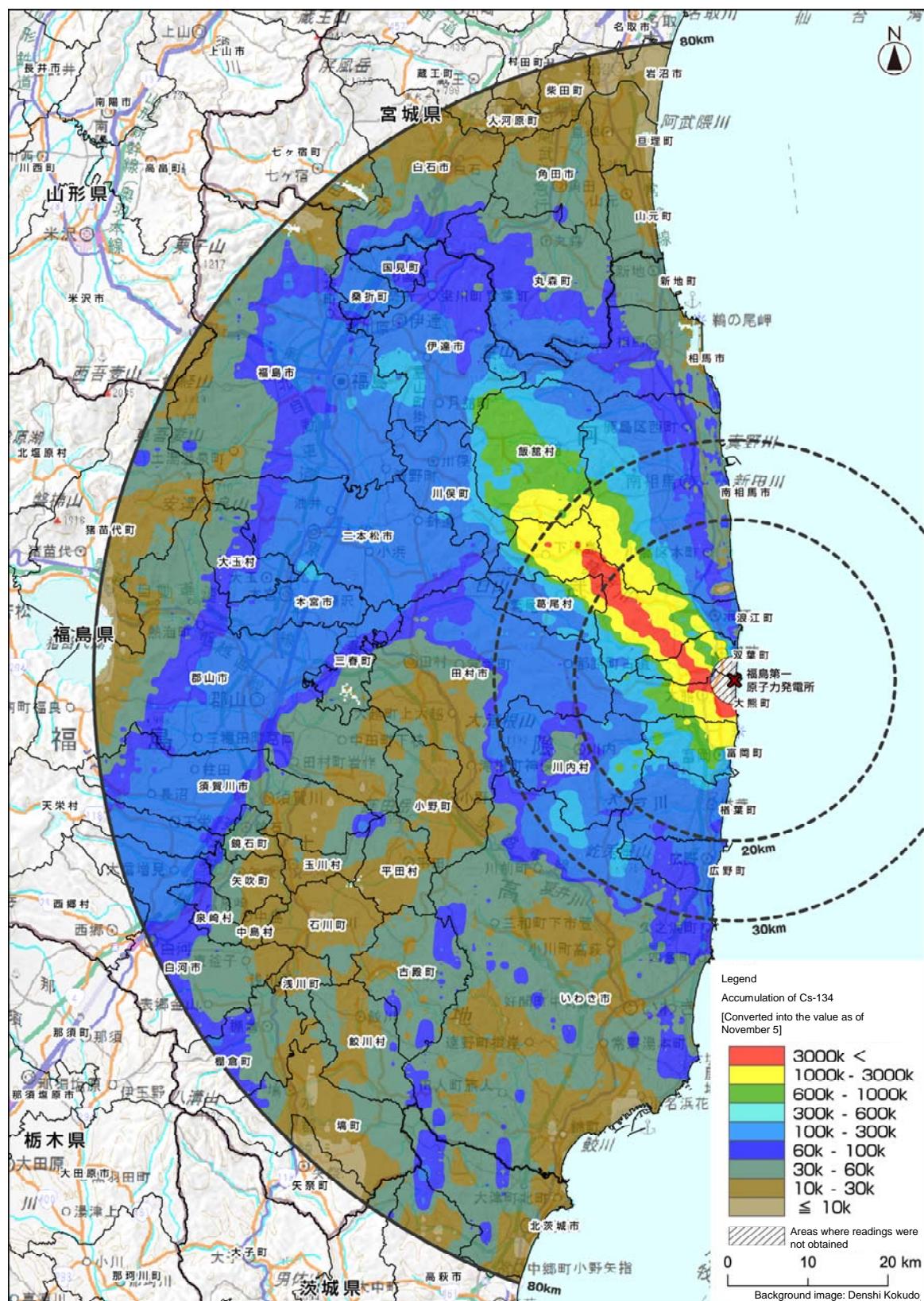


\* This map contains air dose rates by natural radionuclides.

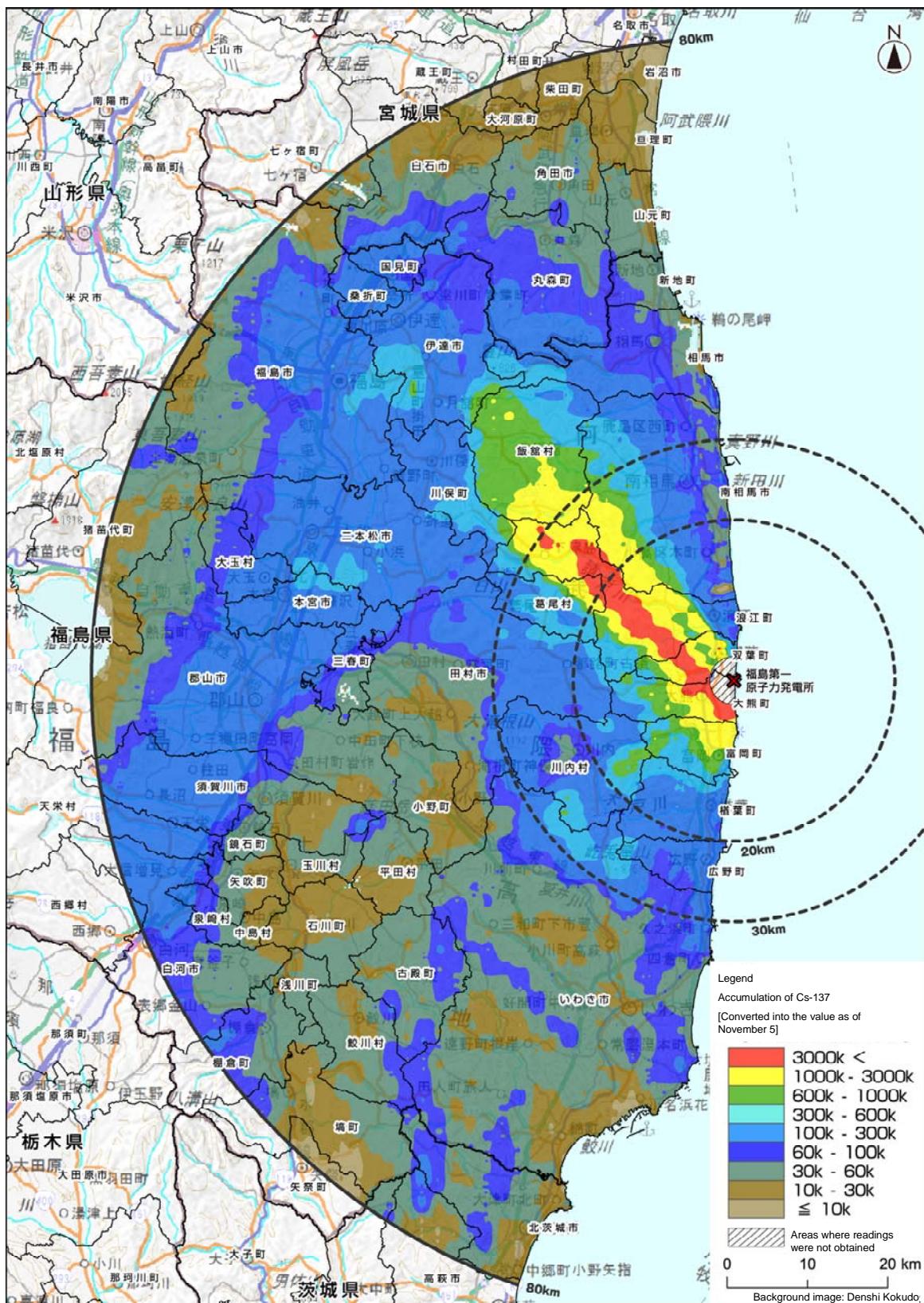
## Results of the Fourth Airborne Monitoring Survey by MEXT (Total accumulation of Cs-134 and Cs-137 on the ground surface inside 80 km Zone of Fukushima Dai-ichi NPP)



## Results of the Fourth Airborne Monitoring Survey by MEXT (Accumulation of Cs-134 on the ground surface inside 80 km Zone of Fukushima Dai-ichi NPP)

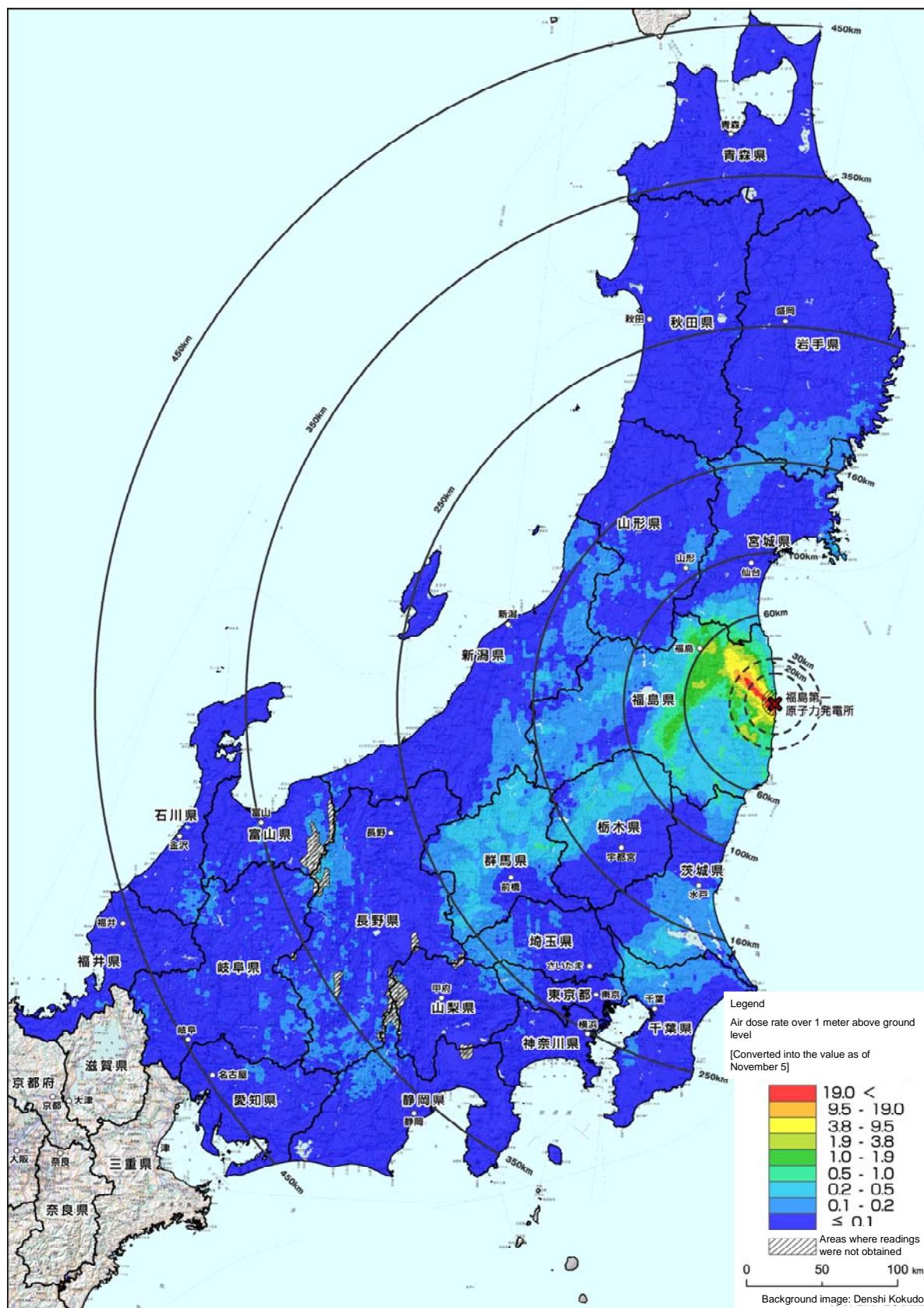


**Results of the Fourth Airborne Monitoring Survey by MEXT  
(Accumulation of Cs-137 on the ground surface inside 80 km Zone  
of Fukushima Dai-ichi NPP)**



(Reference 1)

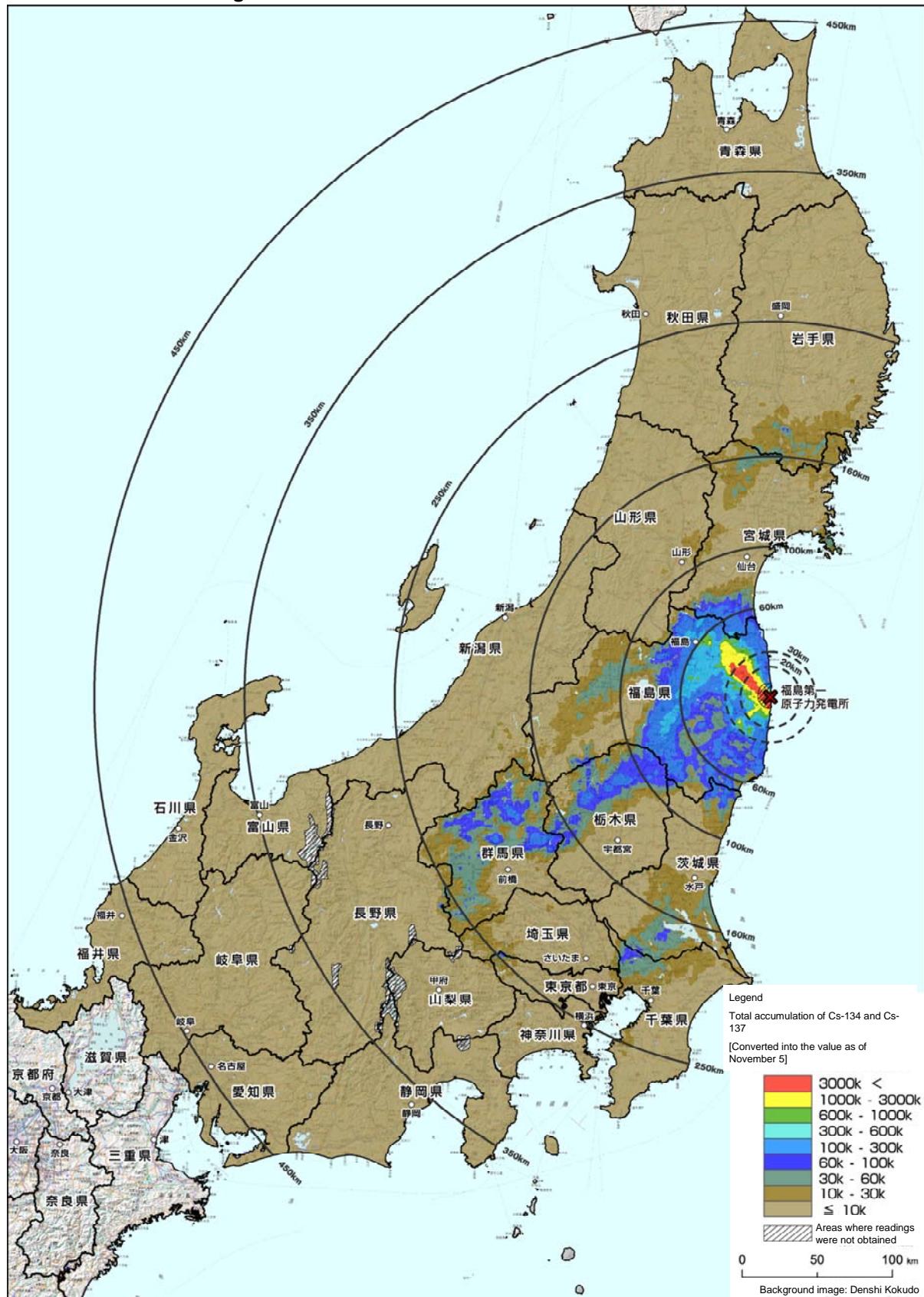
Air dose rates at 1m above the ground surface throughout all of East Japan,  
reflecting the results of the fourth airborne monitoring



\*This map contains air dose rates by natural radionuclides.

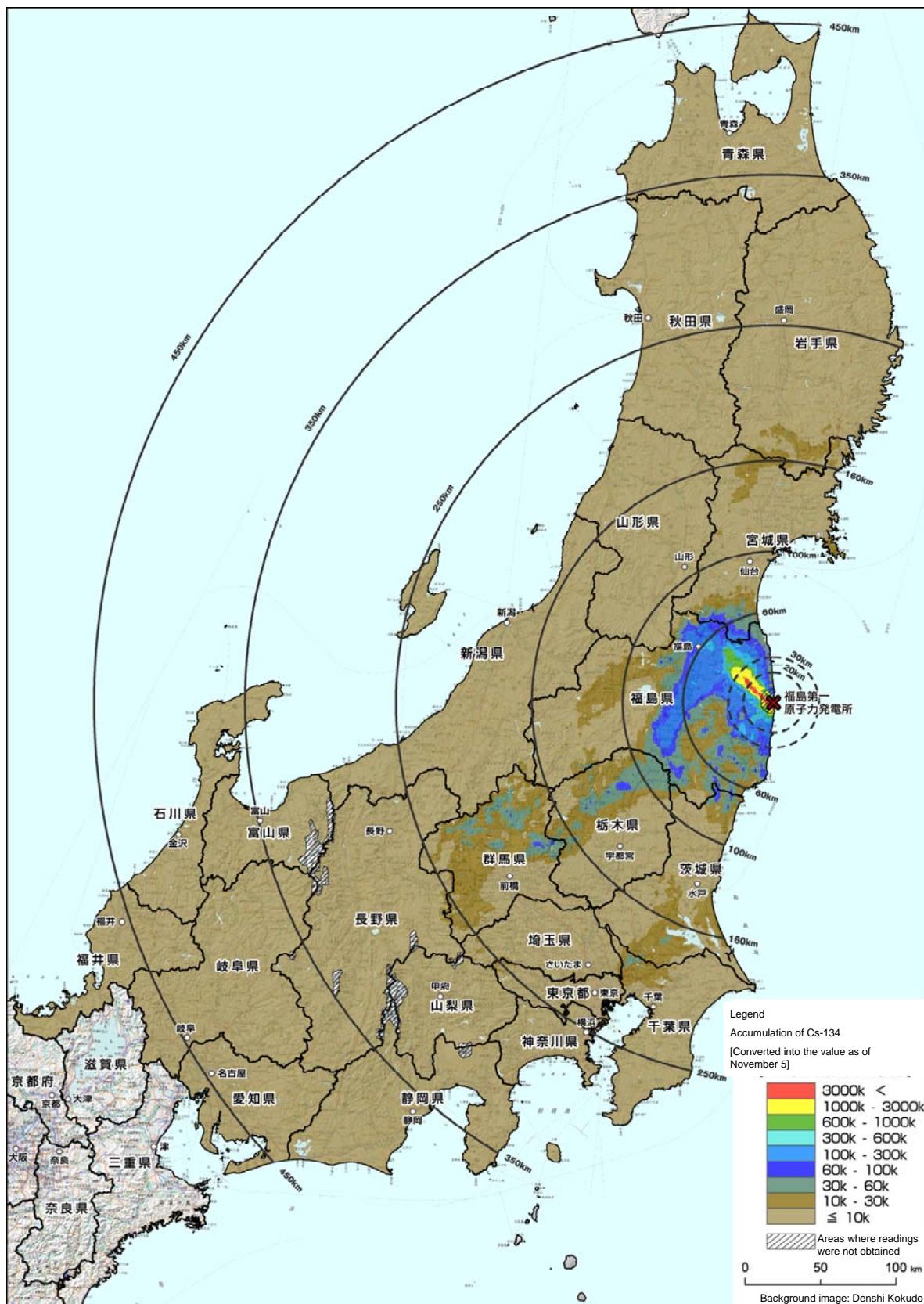
(Reference 2)

The total deposition of Cs-134 and Cs-137 on the ground surface throughout all of East Japan, reflecting the results of the fourth airborne monitoring



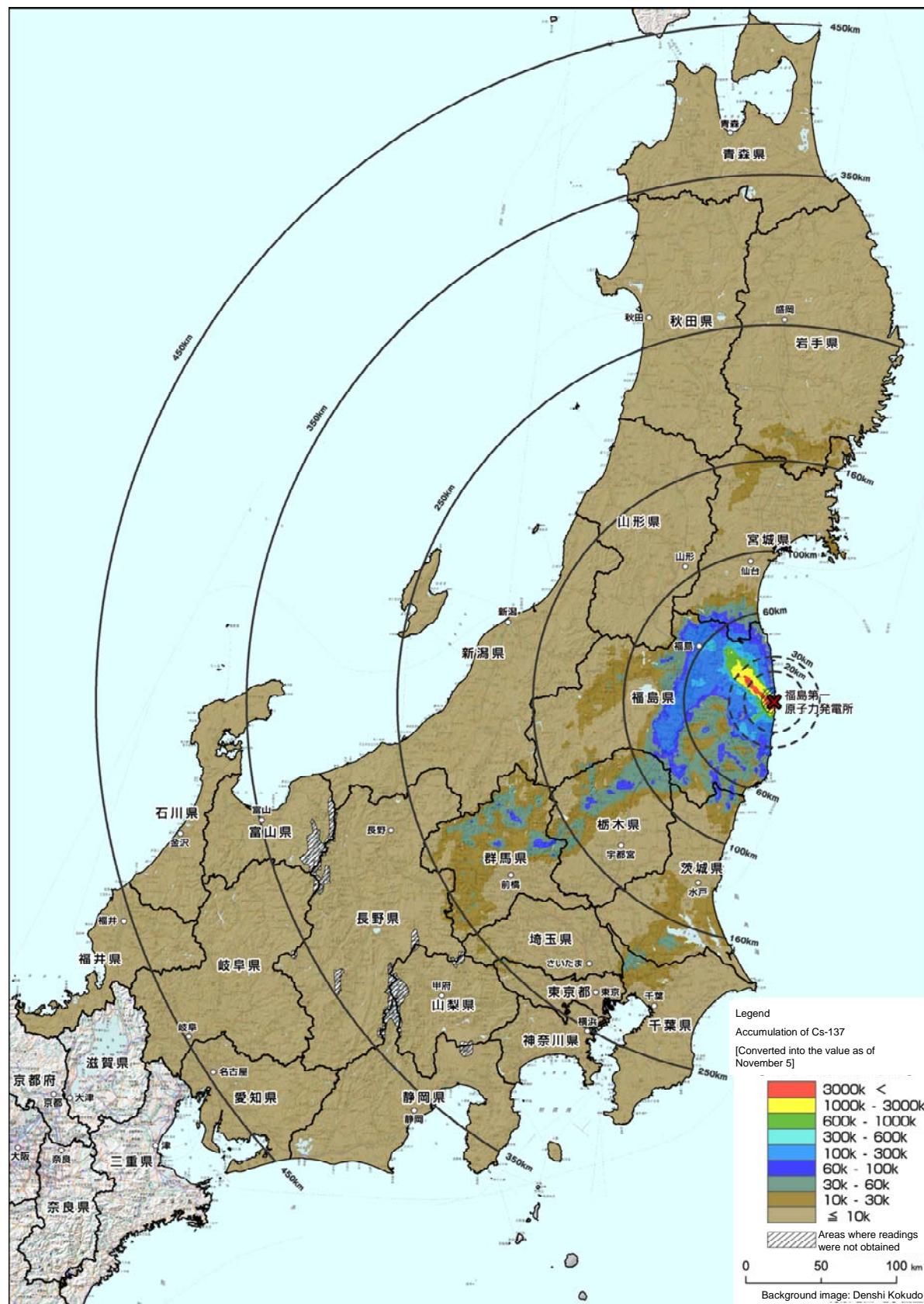
### (Reference 3)

The deposition of Cs-134 on the ground surface throughout all of East Japan, reflecting the results of the fourth airborne monitoring

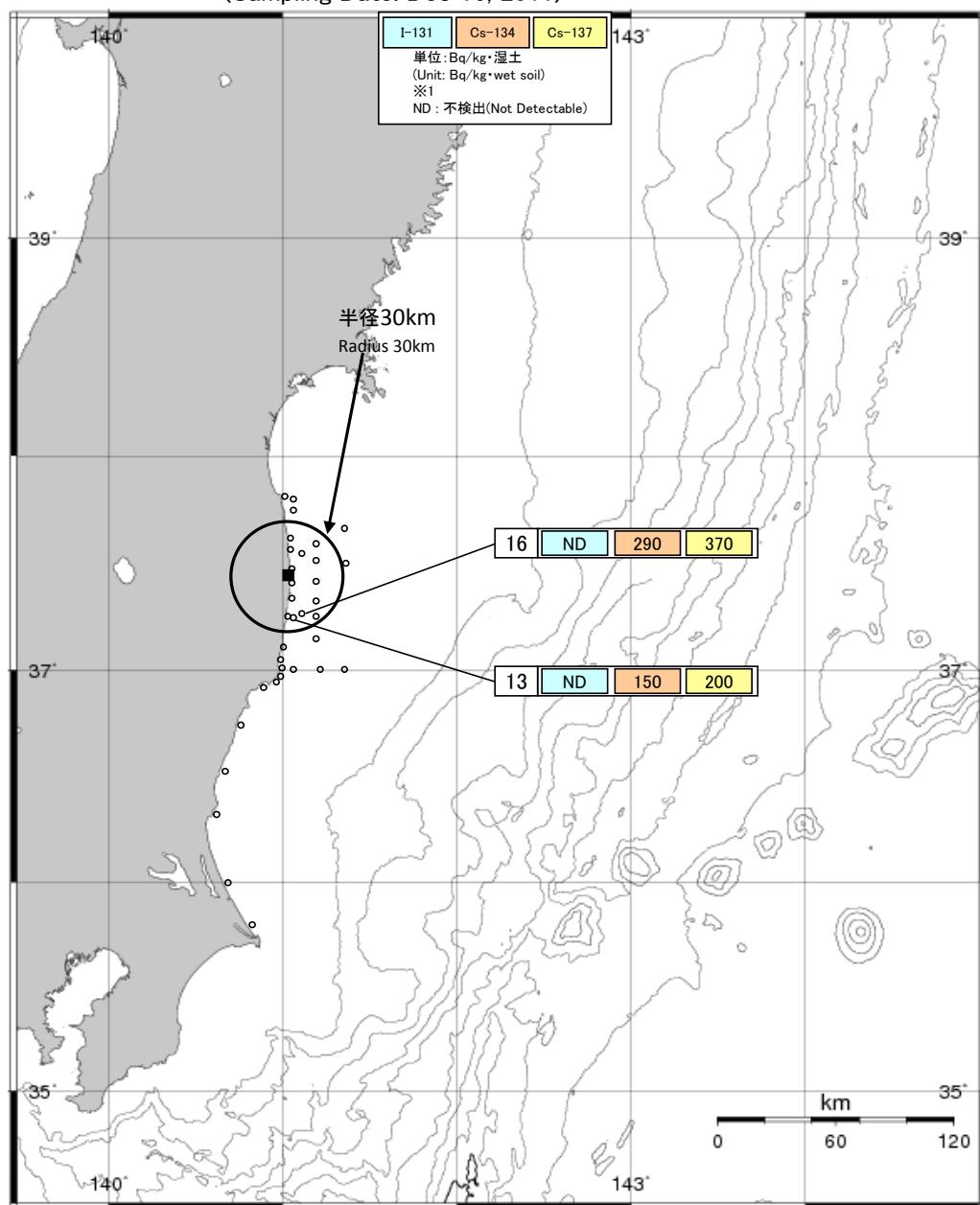


## (Reference 4)

The deposition of Cs-137 on the ground surface throughout all of East Japan, reflecting the results of the fourth airborne monitoring



東京電力株式会社福島第一原子力発電所周辺の  
海底土の放射能濃度分布  
(Distribution map of radioactivity concentration in the  
marine soil around TEPCO Fukushima Dai-ichi NPP)  
公表日:平成23年12月19日  
(Published: Dec 19, 2011)  
試料採取日:平成23年12月16日  
(Sampling Date: Dec 16, 2011)



図中の■は東京電力(株)福島第一原子力発電所を示す

\*東京電力(株)の発表(<http://www.tepco.co.jp/cc/press/index11-j.html>)をもとに文部科学省が作成

Based on the press release of TEPCO (<http://www.tepco.co.jp/cc/press/index11-j.html>)

※1 NDの記載は、海底土の放射能濃度の検出値が以下の検出下限値を下回る場合。ただし、検出下限値は検出器や試料性状により異なるため、この値以下でも検出される場合もある。

- I-131が約6Bq/kg・湿土

※1 ND indicates the case that the detected radioactivity concentration in marine soil was lower than the detection limits as follows.

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

- Approximately 6 Bq/kg・wet soil for I-131

東京電力株式会社福島第一原子力発電所周辺及び茨城県沿岸の海水中の放射能濃度分布

(Distribution map of radioactivity concentration in the seawater  
around TEPCO Fukushima Dai-ichi NPP and coast of Ibaraki Prefecture)

公表日 平成23年12月14日

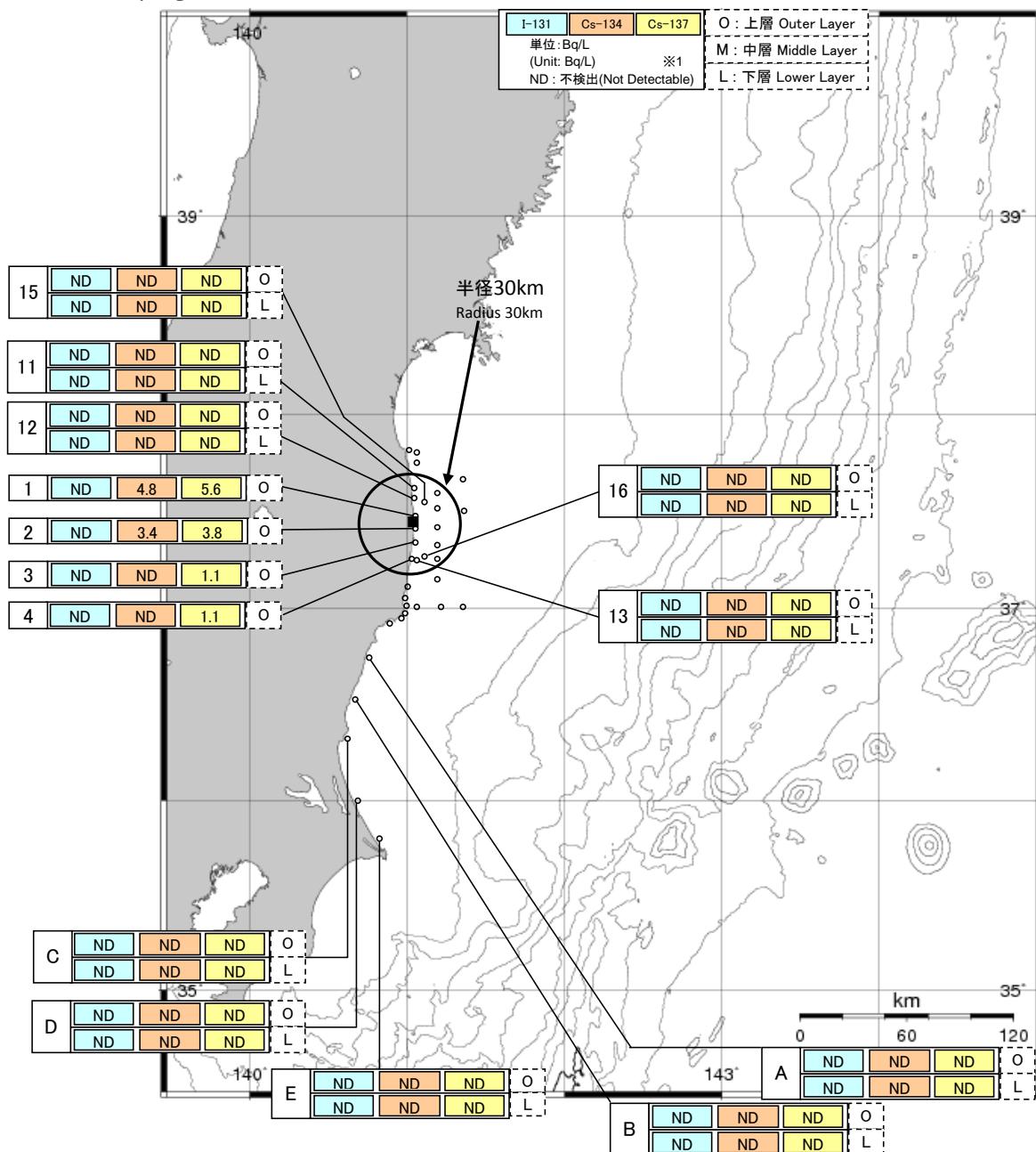
(Published: Dec 14, 2011)

試料採取日: 茨城県沿岸 平成23年12月6日～7日

(Sampling Date: Coast of Ibaraki Prefecture Dec 6, 2011–Dec 7, 2011)

試料採取日: 東京電力福島第一原子力発電所周辺 平成23年12月11日～12日

(Sampling Date: Around TEPCO Fukushima Dai-ichi NPP Dec 11, 2011–Dec 12, 2011)



図中の■は東京電力(株)福島第一原子力発電所を示す

\*東京電力(株)の発表(<http://www.tepco.co.jp/cc/press/index11-j.html>)をもとに文部科学省が作成

\*Based on the press release of TEPCO (<http://www.tepco.co.jp/cc/press/index11-j.html>)

\*「水浴場の放射性物質に関する指針について(環境省)」水浴場開設の判断を行う際に考慮する、水浴場の放射性物質に係る水質の暫定的な値  
放射性セシウム: 50Bq/L

\*Guidelines on Radioactive Substances in Bathing Areas" (Ministry of the Environment) Guideline levels of radioactive substances in bathing areas to be considered when determining whether to open a bathing area (provisional values) Cs-134 and Cs-137: 50Bq/L

※1 NDの記載は、海水の放射能濃度の検出値が以下の検出下限値を下回る場合。ただし、検出下限値は検出器や試料性状により異なるため、  
この値以下でも検出される場合もある。

・採取場所1,2,3,4: I-131が約0.7Bq/L、Cs-134が約0.89Bq/L

・採取場所11,12,13,15,16: I-131が約0.72Bq/L、Cs-134が約1.0Bq/L、Cs-137が約1.0Bq/L

・採取場所A,B,C,D,E: I-131が約1.3Bq/L、Cs-134が約1.5Bq/L、Cs-137が約1.3Bq/L

※1 ND indicates the case that the detected radioactivity concentration in sea water was lower than the detection limits as follows.

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

・For sampling points 1,2,3,4: Approximately 0.7 Bq/L for I-131 and 0.89 Bq/L for Cs-134

・For sampling points 11,12,13,15,16: Approximately 0.72 Bq/L for I-131, 1.0 Bq/L for Cs-134 and 1.0 Bq/L for Cs-137

・For sampling points A,B,C,D,E: Approximately 1.3 Bq/L for I-131, 1.5 Bq/L for Cs-134 and 1.3 Bq/L for Cs-137

# 東京電力株式会社発表に基づく宮城県沖の海水中的放射能濃度分布

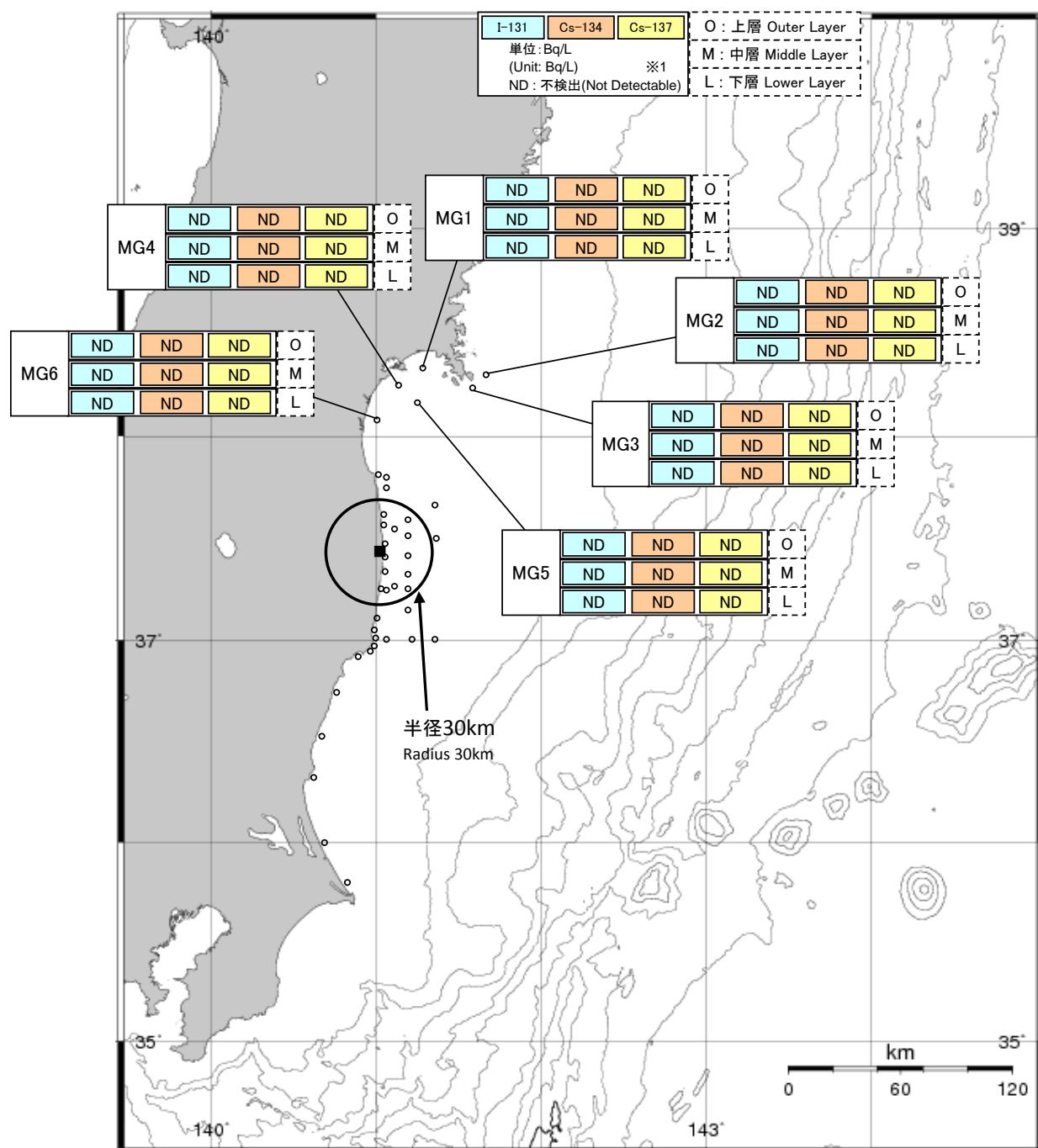
(Distribution map of radioactivity concentration in the seawater at offshore of Miyagi prefecture based on the press release of TEPCO.)

公表日：平成23年12月13日

(Published : Dec 13, 2011)

試料採取日：平成23年12月7日

(Sampling Date: Dec 7, 2011)



図中の■は東京電力(株)福島第一原子力発電所を示す

\*東京電力(株)の発表(<http://www.tepco.co.jp/cc/press/index11-j.html>)をもとに文部科学省が作成

\*Based on the press release of TEPCO (<http://www.tepco.co.jp/cc/press/index11-j.html>)

\*「水浴場の放射性物質に関する指針について(環境省)」水浴場開設の判断を行う際に考慮する、水浴場の放射性物質に係る水質の暫定的な値  
放射性セシウム: 50Bq/L

\*Guidelines on Radioactive Substances in Bathing Areas" (Ministry of the Environment) Guideline levels of radioactive substances in bathing areas to be considered when determining whether to open a bathing area (provisional values) Cs-134 and Cs-137: 50Bq/L

※1 NDの記載は、海水の放射能濃度の検出値が以下の検出下限値を下回る場合。ただし、検出下限値は検出器や試料性状により異なるため、この値以下でも検出される場合もある。

・採取場所 MG1, MG2, MG3, MG4: I-131が約0.93Bq/L, Cs-134が約1.2Bq/L, Cs-137が約1.2Bq/L

・採取場所 MG5, MG6: I-131が約1.0Bq/L, Cs-134が約1.1Bq/L, Cs-137が約1.1Bq/L

※1 ND indicates the case that the detected radioactivity concentration in sea water was lower than the detection limits as follows.

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

・For sampling points MG1, MG2, MG3, MG4: Approximately 0.93 Bq/L for I-131, 1.2 Bq/L for Cs-134 and 1.2 Bq/L for Cs-137

・For sampling points MG5, MG6: Approximately 1.0 Bq/L for I-131, 1.1 Bq/L for Cs-134 and 1.1 Bq/L for Cs-137

東京電力株式会社福島第一原子力発電所周辺及び茨城県沿岸の海水中の放射能濃度分布(ストロンチウム)

(Distribution map of radioactivity concentration in the seawater around TEPCO Fukushima Dai-ichi NPP and coast of Ibaraki Prefecture—Sr—)

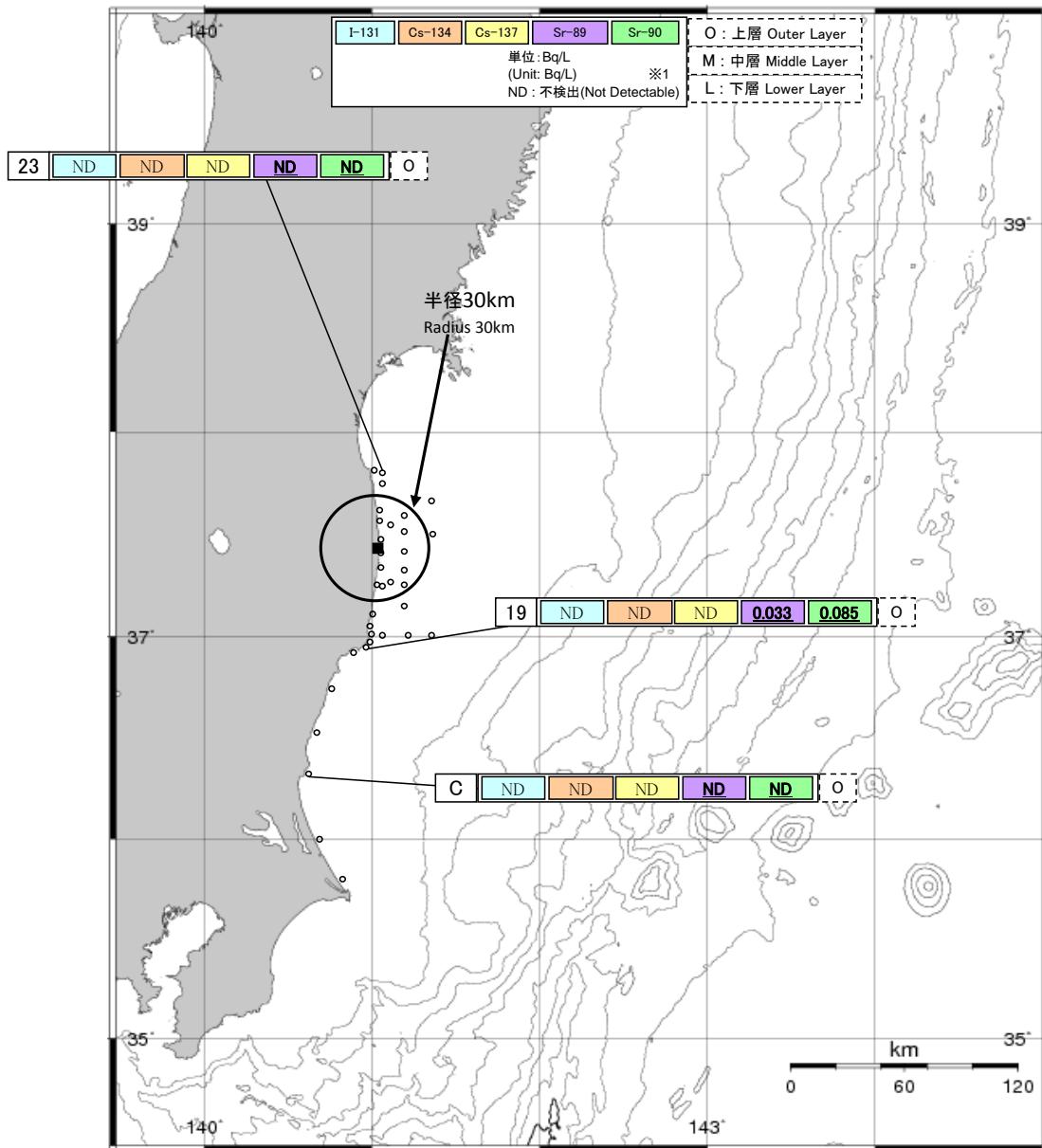
公表日 平成23年12月20日

(Published: Dec 20, 2011)

試料採取日: 茨城県沿岸 平成23年11月16日

(Sampling Date: Coast of Ibaraki Prefecture Nov 16, 2011)

試料採取日: 東京電力福島第一原子力発電所周辺 平成23年11月14日～15日  
(Sampling Date: Around TEPCO Fukushima Dai-ichi NPP Nov 14, 2011– Nov 15, 2011)



図中の■は東京電力(株)福島第一原子力発電所を示す

\*太字下線データが今回追加分(Boldface and underlined readings are new)

\*東京電力(株)の発表(<http://www.tepco.co.jp/cc/press/index11-j.html>)をもとに文部科学省が作成

\*Based on the press release of TEPCO (<http://www.tepco.co.jp/cc/press/index11-j.html>)

\*「水浴場の放射性物質に関する指針について(環境省)」水浴場開設の判断を行う際に考慮する、水浴場の放射性物質に係る水質の暫定的な値 放射性セシウム・ $50\text{Bq/L}$

\*Guidelines on Radioactive Substances in Bathing Areas" (Ministry of the Environment) Guideline levels of radioactive substances in bathing areas to be considered when determining whether to open a bathing area (provisional values) Cs-134 and Cs-137:  $50\text{Bq/L}$

\*ストロンチウムについては、半減期50.5日のSr-89が検出されていることから、東京電力(株)福島第一原子力発電所から放出されたものと考えられます。

\*Regarding strontium, Sr-89 that has half life of 50.5 days, was detected. It is thought to be released from the site of TEPCO Fukushima Dai-ichi NPP

※1 NDの記載は、海水の放射能濃度の検出値が以下の検出下限値を下回る場合。ただし、検出下限値は検出器や試料性状により異なるため、この値以下でも検出される場合もある。

- 採取場所19:I-131が約 $0.84\text{Bq/L}$ 、Cs-134が約 $0.97\text{Bq/L}$ 、Cs-137が約 $1.1\text{Bq/L}$

- 採取場所23:I-131が約 $0.71\text{Bq/L}$ 、Cs-134が約 $0.90\text{Bq/L}$ 、Cs-137が約 $1.1\text{Bq/L}$ 、Sr-89が約 $0.01\text{Bq/L}$ 、Sr-90が約 $0.009\text{Bq/L}$

- 採取場所C:I-131が約 $1.1\text{Bq/L}$ 、Cs-134が約 $1.3\text{Bq/L}$ 、Cs-137が約 $1.3\text{Bq/L}$ 、Sr-89が約 $0.02\text{Bq/L}$ 、Sr-90が約 $0.009\text{Bq/L}$

※1 ND indicates the case that the detected radioactivity concentration in sea water was lower than the detection limits as follows.

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

- For sampling points 19: Approximately  $0.84\text{Bq/L}$  for I-131,  $0.97\text{Bq/L}$  for Cs-134,  $1.1\text{Bq/L}$  for Cs-137

- For sampling points 23: Approximately  $0.71\text{Bq/L}$  for I-131,  $0.90\text{Bq/L}$  for Cs-134,  $1.1\text{Bq/L}$  for Cs-137,  $0.01\text{Bq/L}$  for Sr-89,  $0.009\text{Bq/L}$  for Sr-90

- For sampling points C: Approximately  $1.1\text{Bq/L}$  for I-131,  $1.5\text{Bq/L}$  for Cs-134,  $1.3\text{Bq/L}$  for Cs-137,  $0.02\text{Bq/L}$  for Sr-89,  $0.009\text{Bq/L}$  for Sr-90