

## Readings at Monitoring Post out of 20 Km Zone of Fukushima Dai-ichi NPP

As of 19:00 April 5, 2011  
Ministry of Education, Culture, Sports, Science and  
Technology (MEXT)

Monitoring Outputs by MEXT \*Boldface and underlined readings are new.

- \* 1 measured by Geiger-Müller counter
- \* 2 measured by ionization chamber type survey meter
- \* 3 measured by NaI scintillator detector
- \* 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : $\mu$ Sv / h )	Weather	Reading by
Reading Point 【1】 (About60KmNorthWest)	2011/4/5 8:11	1.1 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【2】 (About55KmNorthWest)	2011/4/5 8:40	3.0 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【3】 (About45KmNorthWest)	2011/4/5 9:19	2.8 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【4】 (About50KmNorthWest)	2011/4/5 9:26	1.7 * <sup>2</sup>	No Rain	MEXT
Reading Point 【5】 (About45KmNorth)	2011/4/5 10:55	0.8 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【6】 (About45KmNorth)	2011/4/5 11:19	1.3 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【7】 (About45KmNorth)	2011/4/5 11:30	0.8 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【11】 (About40KmNorthWest)	2011/4/5 9:50	1.5 * <sup>2</sup>	No Rain	MEXT
Reading Point 【12】 (About40KmWest)	2011/4/5 10:32	0.5 * <sup>2</sup>	No Rain	MEXT
Reading Point 【13】 (About40KmWest)	2011/4/5 10:40	0.4 * <sup>2</sup>	No Rain	MEXT
Reading Point 【14】 (About35KmWest)	2011/4/5 10:50	0.4 * <sup>2</sup>	No Rain	MEXT
Reading Point 【15】 (About35KmWest)	2011/4/5 11:05	1.3 * <sup>2</sup>	No Rain	MEXT
Reading Point 【20】 (About45KmNorthWest)	2011/4/5 10:18	0.8 * <sup>2</sup>	No Rain	MEXT
Reading Point 【31】 (About30KmWestNorthWest)	2011/4/5 10:35	10.6 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)

- \* 1 measured by Geiger-Müller counter
- \* 2 measured by ionization chamber type survey meter
- \* 3 measured by NaI scintillator detector
- \* 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : $\mu$ Sv / h )	Weather	Reading by
Reading Point 【32】 (About30KmNorthWest)	2011/4/5 10:56	26.0 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【33】 (About30KmNorthWest)	2011/4/5 11:15	16.3 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【34】 (About30KmNorthWest)	2011/4/5 13:41	6.5 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【36】 (About40KmNorthWest)	2011/4/5 9:23	4.6 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【37】 (About50KmNorthWest)	2011/4/5 9:06	3.9 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【38】 (About35KmSouth)	2011/4/5 14:17	0.9 * <sup>2</sup>	No Rain	MEXT
Reading Point 【39】 (About45KmNorth)	2011/4/5 9:40	1.0 * <sup>2</sup>	No Rain	JAEA (Japan Atomic Energy Agency)
<b>Reading Point 【51】 (About40KmSouthWest)</b>	<b>2011/4/5 13:30</b>	<b>0.3 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【51】 (About40KmSouthWest)</b>	<b>2011/4/5 10:43</b>	<b>0.3 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【52】 (About40KmWest)</b>	<b>2011/4/5 14:04</b>	<b>0.4 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【52】 (About40KmWest)</b>	<b>2011/4/5 11:42</b>	<b>0.4 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【61】 (About40KmNorthWest)</b>	<b>2011/4/5 14:31</b>	<b>5.3 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【61】 (About40KmNorthWest)</b>	<b>2011/4/5 12:30</b>	<b>5.7 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【62】 (About40KmNorthWest)</b>	<b>2011/4/5 14:40</b>	<b>6.4 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【62】 (About40KmNorthWest)</b>	<b>2011/4/5 12:22</b>	<b>6.3 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【63】 (About45KmNorthWest)</b>	<b>2011/4/5 15:02</b>	<b>2.6 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【63】 (About45KmNorthWest)</b>	<b>2011/4/5 11:18</b>	<b>2.4 *<sup>3</sup></b>	<b>No Rain</b>	<b>Fukushima</b>
<b>Reading Point 【71】 (About25KmSouth)</b>	<b>2011/4/5 16:00</b>	<b>1.0 *<sup>2</sup></b>	<b>No Rain</b>	<b>MEXT</b>
Reading Point 【71】 (About25KmSouth)	2011/4/5 8:24	1.1 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )

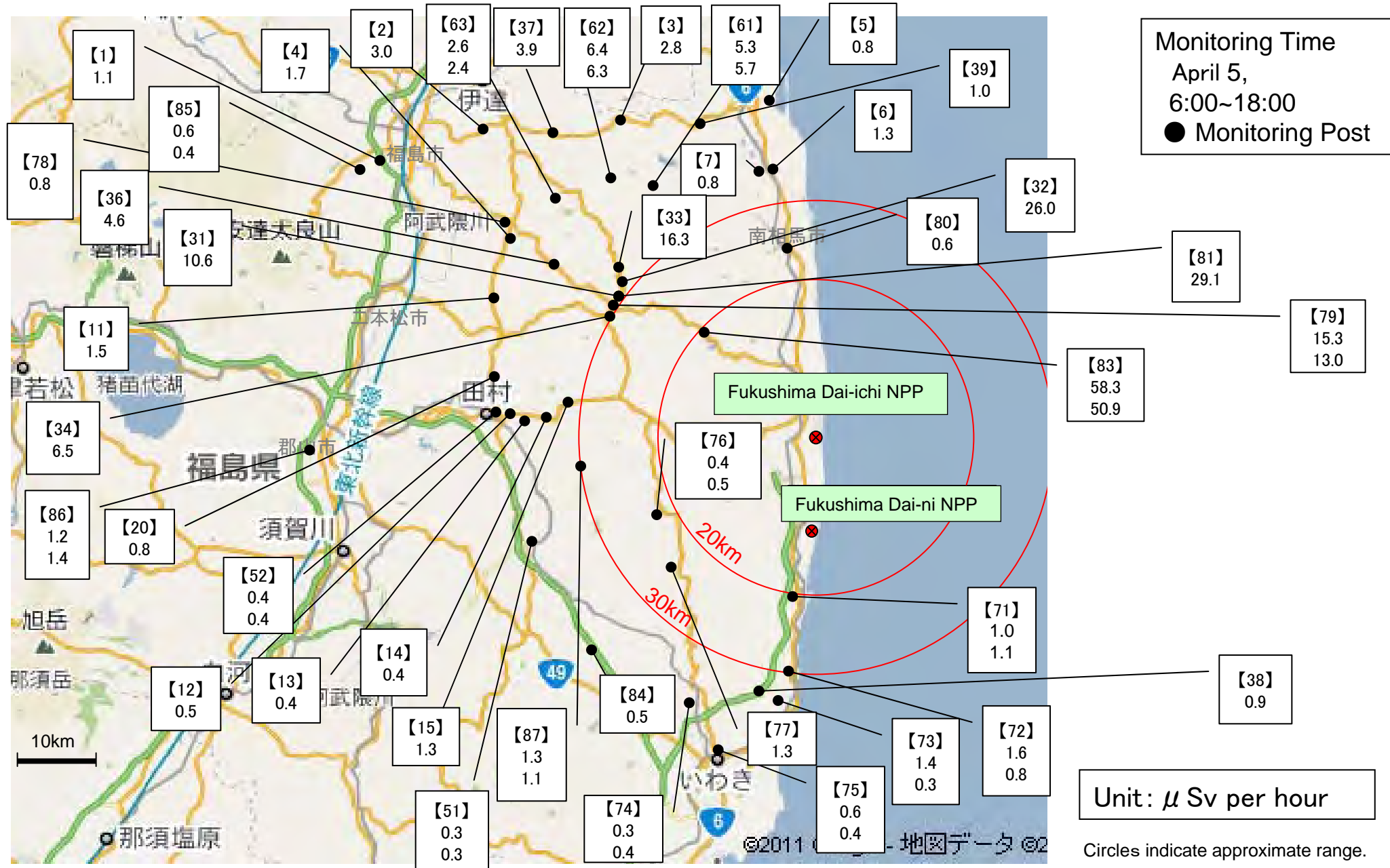
- \* 1 measured by Geiger-Müller counter
- \* 2 measured by ionization chamber type survey meter
- \* 3 measured by NaI scintillator detector
- \* 4 variation range of the measuring data in measuring time

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : $\mu$ Sv / h )	Weather	Reading by
<b>Reading Point [72] (About30KmSouth)</b>	<b>2011/4/5 15:45</b>	<b>1.6 *<sup>2</sup></b>	<b>No Rain</b>	<b>MEXT</b>
Reading Point [72] (About30KmSouth)	2011/4/5 8:57	0.8 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [73] (About35KmSouth)	2011/4/5 14:27	1.4 * <sup>2</sup>	No Rain	MEXT
Reading Point [73] (About35KmSouth)	2011/4/5 9:16	0.3 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [74] (About35KmSouth)	2011/4/5 13:57	0.3 * <sup>2</sup>	No Rain	MEXT
Reading Point [74] (About35KmSouth)	2011/4/5 7:31	0.4 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [75] (About45KmSouth)	2011/4/5 13:16	0.6 * <sup>2</sup>	No Rain	MEXT
Reading Point [75] (About45KmSouth)	2011/4/5 7:03	0.4 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [76] (About20KmSouthWest)	2011/4/5 12:28	0.4 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [76] (About20KmSouthWest)	2011/4/5 11:50	0.5 * <sup>2</sup>	No Rain	MEXT
Reading Point [77] (About25KmSouthWest)	2011/4/5 12:10	1.3 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [78] (About45KmNorthWest)	2011/4/5 7:53	0.8 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [79] (About30KmNorthWest)	2011/4/5 11:50	15.3 * <sup>2</sup>	No Rain	JAEA ( Japan Atomic Energy Agency )
Reading Point [79] (About30KmNorthWest)	2011/4/5 10:33	13.0 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [80] (About25KmNorth)	2011/4/5 11:56	0.6 * <sup>2</sup>	No Rain	JAEA ( Japan Atomic Energy Agency )
Reading Point [81] (About30KmNorthWest)	2011/4/5 8:41	29.1 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [83] (About20KmNorthWest)	2011/4/5 13:24	58.3 * <sup>2</sup>	No Rain	JAEA ( Japan Atomic Energy Agency )
Reading Point [83] (About20KmNorthWest)	2011/4/5 11:16	50.9 * <sup>2</sup>	No Rain	Police ( counter NBC operations unit )
Reading Point [84] (About40KmSouthWest)	2011/4/5 10:10	0.5 * <sup>2</sup>	No Rain	MEXT

- \* 1 measured by Geiger-Müller counter
- \* 2 measured by ionization chamber type survey meter
- \* 3 measured by NaI scintillator detector
- \* 4 variation range of the measuring data in measuring time

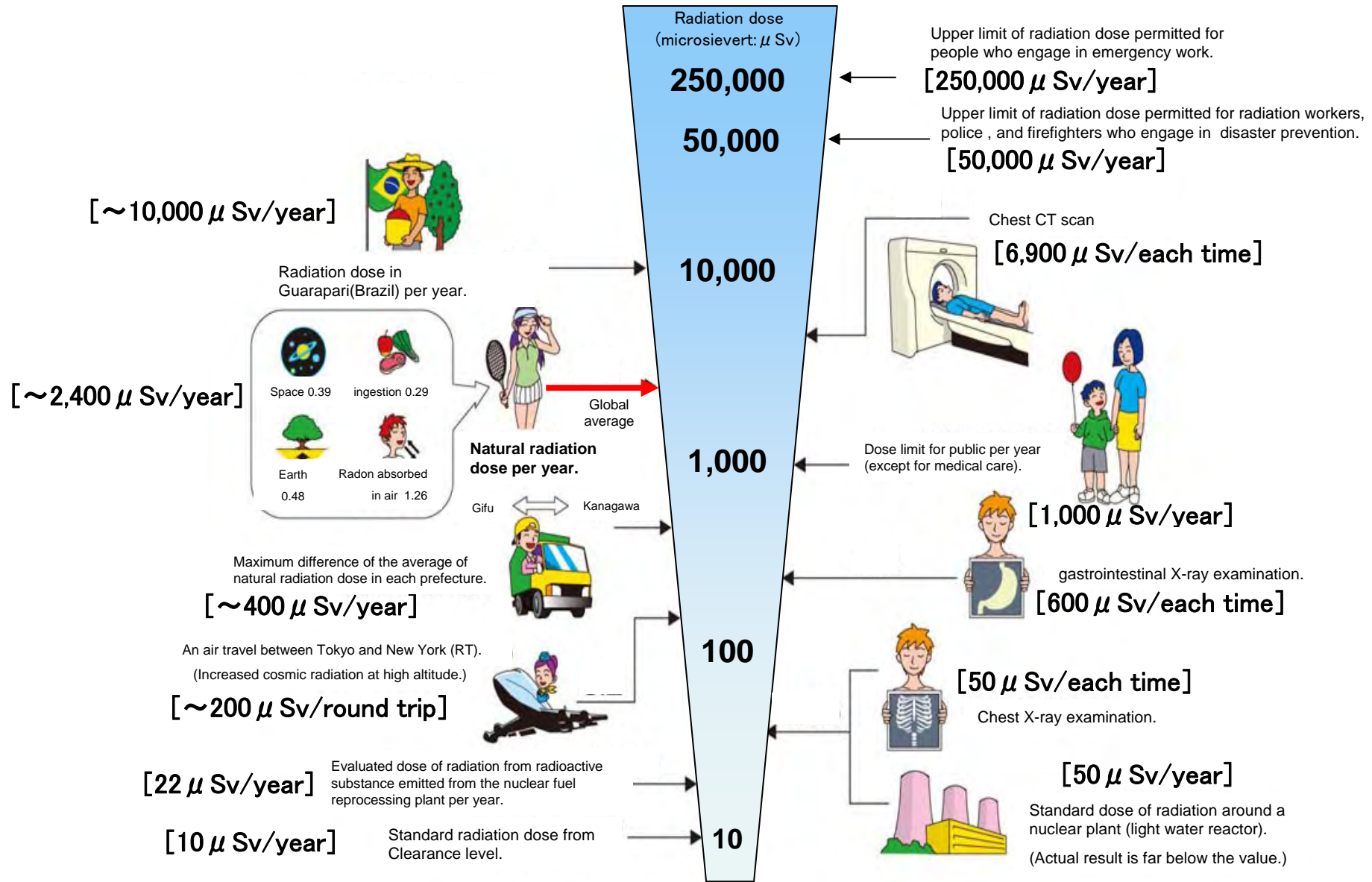
Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : $\mu$ Sv / h )	Weather	Reading by
<b><u>Reading Point [85] (About60KmNorthWest)</u></b>	<b><u>2011/4/5 14:00</u></b>	<b><u>0.6 <sup>*2</sup></u></b>	<b><u>No Rain</u></b>	<b><u>Ministry of Defense</u></b>
Reading Point [85] (About60KmNorthWest)	2011/4/5 6:00	0.4 <sup>*2</sup>	No Rain	Ministry of Defense
<b><u>Reading Point [86] (About55KmWest)</u></b>	<b><u>2011/4/5 14:00</u></b>	<b><u>1.2 <sup>*2</sup></u></b>	<b><u>No Rain</u></b>	<b><u>Ministry of Defense</u></b>
Reading Point [86] (About55KmWest)	2011/4/5 6:00	1.4 <sup>*2</sup>	No Rain	Ministry of Defense
<b><u>Reading Point [87] (About30KmWestSouthWest)</u></b>	<b><u>2011/4/5 14:00</u></b>	<b><u>1.3 <sup>*2</sup></u></b>	<b><u>No Rain</u></b>	<b><u>Ministry of Defense</u></b>
Reading Point [87] (About30KmWestSouthWest)	2011/4/5 6:00	1.1 <sup>*2</sup>	No Rain	Ministry of Defense

# Readings at Monitoring Post out of Fukushima Dai-ichi NPP



# Radiation in Daily-life

※Unit :  $\mu\text{Sv}$



[~10,000  $\mu\text{Sv}/\text{year}$ ]



Radiation dose in Guarapari(Brazil) per year.

[~2,400  $\mu\text{Sv}/\text{year}$ ]

Space 0.39    ingestion 0.29

Earth 0.48    Radon absorbed in air 1.26

**Natural radiation dose per year.**

Gifu ↔ Kanagawa



Global average

Maximum difference of the average of natural radiation dose in each prefecture.

[~400  $\mu\text{Sv}/\text{year}$ ]



An air travel between Tokyo and New York (RT). (Increased cosmic radiation at high altitude.)

[~200  $\mu\text{Sv}/\text{round trip}$ ]



[22  $\mu\text{Sv}/\text{year}$ ]

Evaluated dose of radiation from radioactive substance emitted from the nuclear fuel reprocessing plant per year.

[10  $\mu\text{Sv}/\text{year}$ ]

Standard radiation dose from Clearance level.

Upper limit of radiation dose permitted for people who engage in emergency work.

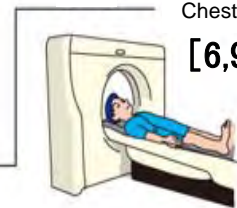
[250,000  $\mu\text{Sv}/\text{year}$ ]

Upper limit of radiation dose permitted for radiation workers, police, and firefighters who engage in disaster prevention.

[50,000  $\mu\text{Sv}/\text{year}$ ]

Chest CT scan

[6,900  $\mu\text{Sv}/\text{each time}$ ]



Dose limit for public per year (except for medical care).

[1,000  $\mu\text{Sv}/\text{year}$ ]



gastrointestinal X-ray examination.

[600  $\mu\text{Sv}/\text{each time}$ ]



[50  $\mu\text{Sv}/\text{each time}$ ]

Chest X-ray examination.



[50  $\mu\text{Sv}/\text{year}$ ]

Standard dose of radiation around a nuclear plant (light water reactor). (Actual result is far below the value.)

