Accident response taken by MEXT (Environmental Radiation Monitoring)

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Purpose

- In response to the accident at the Fukushima Daiichi Nuclear Power Plant, MEXT is conducting comprehensive environmental radiation monitoring
- The purposes of the monitoring are to contribute to
 - The safety and security of the public
 - > Appropriate actions of the government

Outline of Monitoring (1/2)

- Monitoring area
 - ➤ Land, Marine, and Sky area
- Monitoring frequency --- Daily (basically)
- Partners
 - > Prefectures, NPA, MOD, USDOE
 - >JAEA, NUSTEC, JAMSTEC, JAXA, Universities
 - > Electric companies

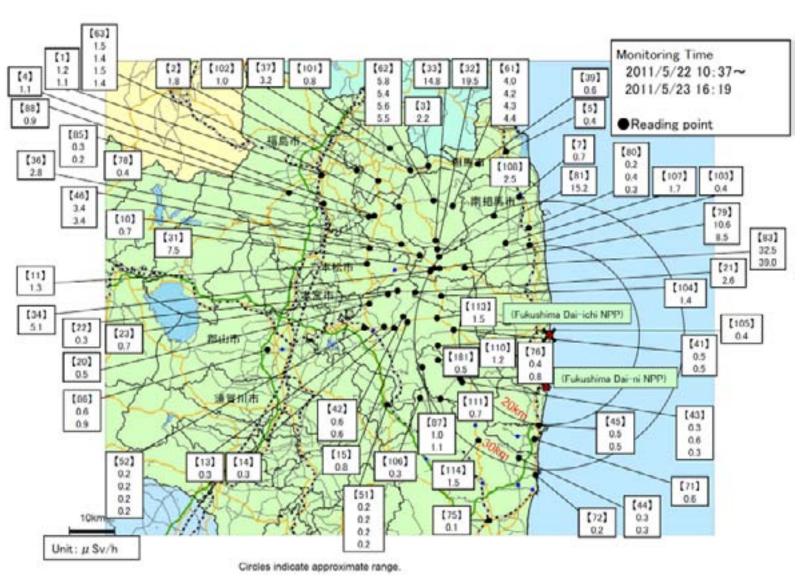
Outline of Monitoring (2/2)

- Monitoring items
 - >dose rate
 - ✓ Measurement at fixed monitoring points

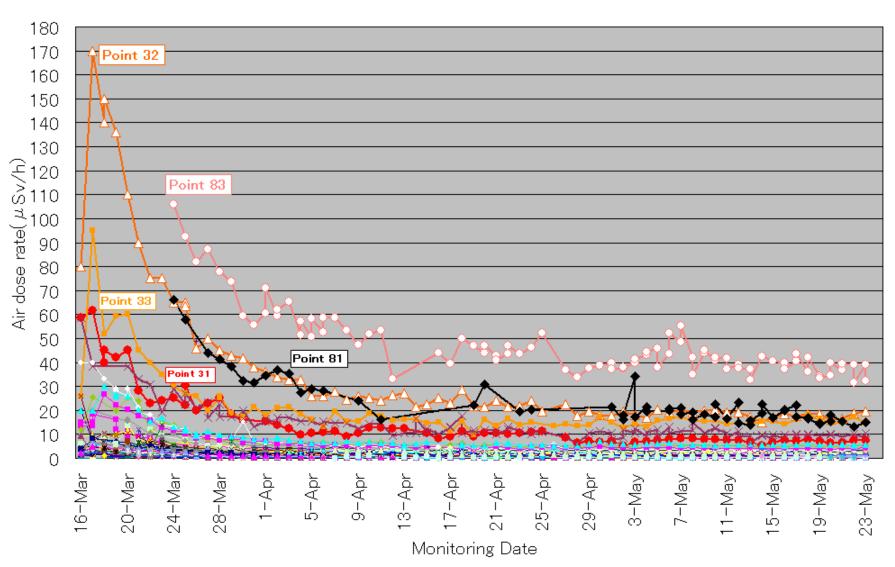
(MEXT & 47 Prefectures : All over Japan)

- ✓ Measurement by monitoring vehicle
- ✓ Measurement by aircraft
- ✓ Measurement at the sea
- ➤Integrated dose
 - ✓ Measurement at fixed monitoring points
- ➤ Radionuclide quantitative analyses (mainly ¹³¹I & ¹³⁷Cs)
 - √ Sampling items
 - Dust, Soil, Pond water, Weed
 - Drinking water, Fallout (47 Prefectures : All over Japan)
 - Sea water, Sea-bottom soil

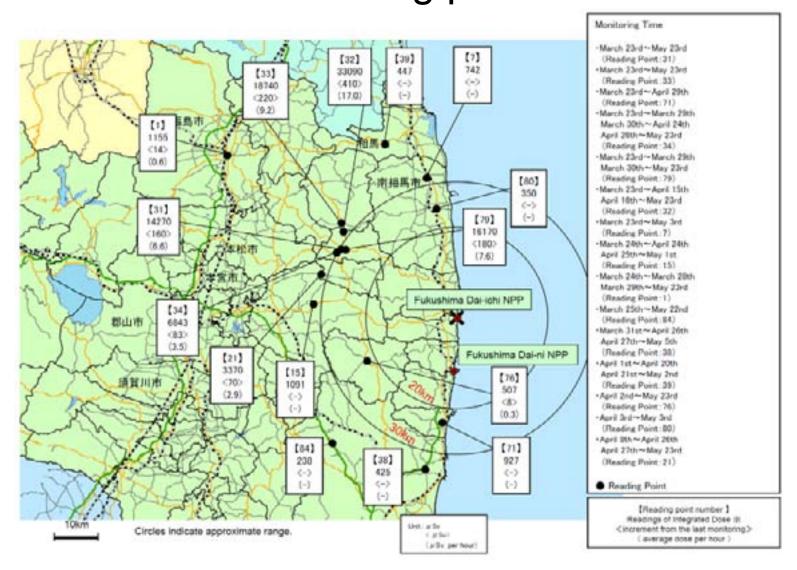
Dose rate measurement at fixed monitoring points (out of 20 Km zone of Fukushima Dai-ichi NPP)



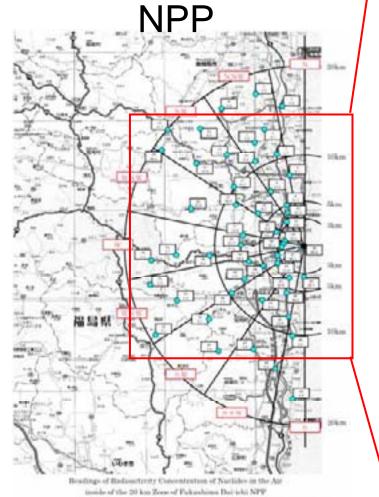
Chronological change of dose rate at fixed monitoring points (out of 20 km zone of Fukushima Dai-ichi NPP)

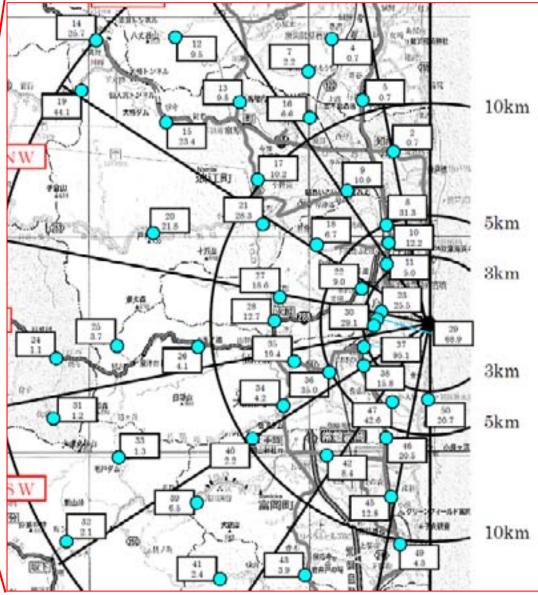


Measured value of Integrated dose at fixed monitoring points



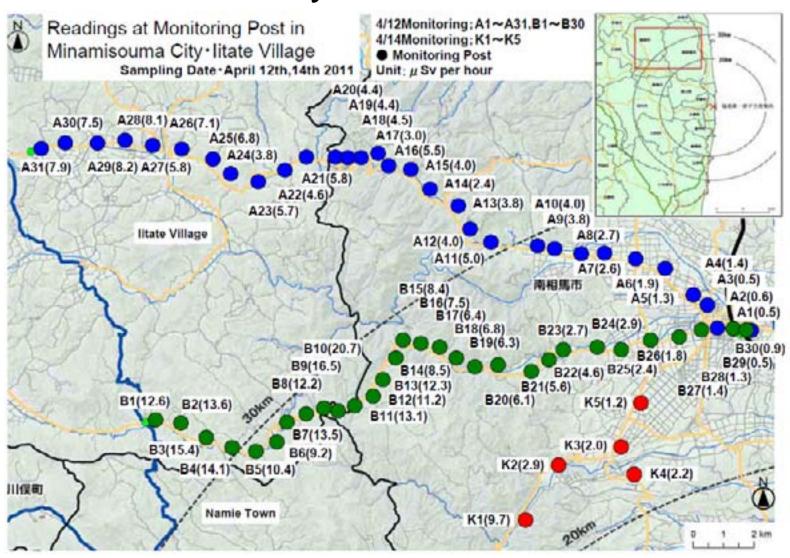
Results of dose rate measurement inside of 20 km zone of Fukushima Dai-ichi



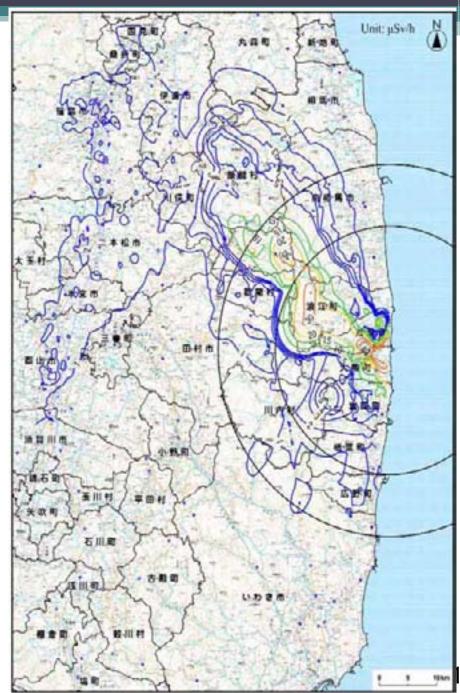


(Unit: µSv/h)

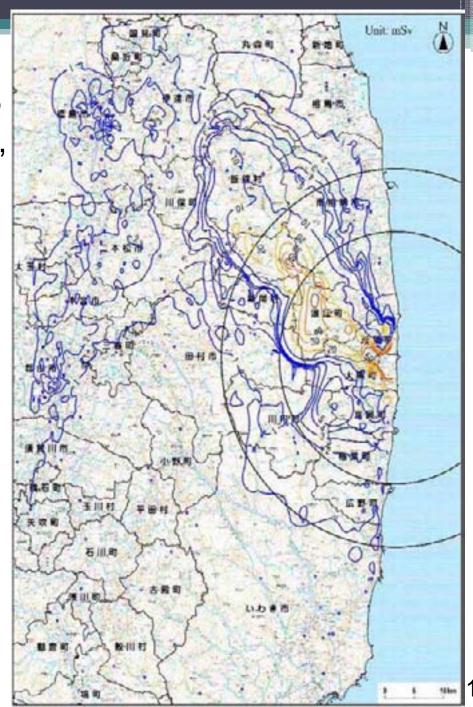
Results of dose rate measurement at the roadside by means of vehicle



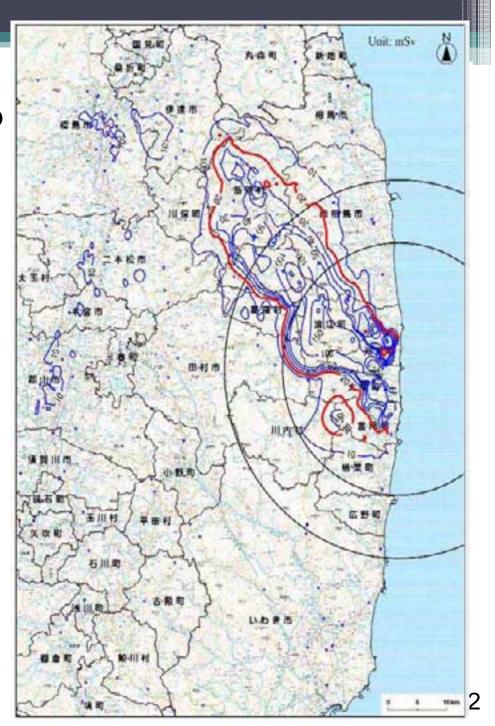
Dose Rate Map (as of May 11, 2011)



Integrated Dose Estimation Map (Integrated dose up until May 11, 2011)



Integrated Dose Estimation Map (Integrated dose up until March 11, 2012)



(Reference) Estimates of Integrated Dose at Each Continuous Monitoring Location based on Measured Values (1/2)

(Based on the latest values indicated in the press releases at 10:00 and 13:00, April 24.)

Location Number	Location (Motorning Arcs)	From Poloschim	Dui-idi NPP	Starting Date of Monitoring Air Dove		Torographed China III 13	Ernes Readings (205v/h)	Estimates of Seagner flow or of March 11 2012	
		Direction	Diristore	Bets	(mts)	Non	test	(mbcl [84]	
D Planne	ersoution roses			27 27 27 27				2070	
9,5	Akogi Katagulatra, Nattie Town, Fataba Contry	Nedman	2488	2011/3/24	44.5	(#2)	0.0405	235.4	
	Alingi Ishikowa, Katase Town, Futuba County	Software	Files	2003/24	25.3	[W2]	0.6349	199.6	
N	Alogs Testischery, Names Town, Futable County	Nethres	Film	2011-3-16	23.8	[83]	0.6115	.1102	
	Shimensudrinu Kayabaka, Namir Timm, Faraha County	Venezetimen	2949	2011/3/16	16.6	£0033	0.0097	.56.2	
	Trachima Natarki, Name Town, Futaltu Creaty	Westperfreed	. Piles	2011/3/17	30.9	[(0)]	there?	11.2	
- 34	Teachina Talkeyi, Namic Town, Fataba County	Vennethred	Hike	2011/3-19	4.6	[0:][0:5]	0.6942	34.3	
21	Katunggrou, Katuras Vidugo, Estato County	TOLARDON.	138	20113(17)	2.5	[(0,1)]	10,000,03	13.0	
164	Ara Ochini, Oura Odnisi, Karoano Villaga, Fundra Crusty	Northwest	25km	2011-07	2.6	(#2)	0.0819	11.0	
	Nagadowo, Istatic Villago, Yomar County	Nederte	17km	2011/3/16	13.7	[163]	0.0102	44.7	
	Kissene Linchely, little Village, Somo County	Northwest	Plan	2011/3/17	1.1] [0.0863	34.8	
	Yagisawa, Istate Village, Soma County	Nethrot	Nikes	2011/3/17	. A.I] [0.0847	24.3	
	Nimabada, Jesic Village, Nona County	Nedwork	64829	2011:3:17	2.9		0.0017	10.0	
	Yamatiya Makashiyama, Kawamata Town, Data County	Weenwillered	14km	2011/3/19	5.5		0.0650	1242	
.36	Yacuskina Ouskari, Kamanusia Tump, Date County	Winnerflein	47km	2011/3/26	3.7	[42]	0.0034	19.6	
Fred									
Other is	Oliata Daihata, Haramachi Ward, Minami, Sewa Circ	Senacesed	19919	2001.67	1.4	[4:1	0.0026	15.0	
	Skidy Minnesofianesyla, Haramaghi Ward, Marama Seira Cel	North northwest	29m	201147	1.0	(92)	0.0619	11.9	
	Niehimachi, Kashima Ward, Minami Sona City	Non	12hre	2011/3/17	0.9	4	0.0610	5.5	
	Taks Memogaraschi, Haramachi Ward, Minama Soma City	500	290	20(1)47	0.7	test	0.0000	1.5	
- 1	Taranghi Motoyadida, Kachima Ward, Misuani Soma City	North-parties out	12km	2011/3/17	0.6	(100)	0.0006	33	
610	Takanakho, Haramada Wani, Minami Semu City	North	24km	2011/3/20	0.0	[=:1[=:1	0.0004	2.6	
_	Kanahata, Oata Taonitrata, Kananata Letin, Oata Cinado	Nuthred	47km	2011/3/17	1.0	1-11-11	0.0015	6.1	
-				2011.3-26	1.2	t=:1	0.0010	1.7	
	Tennagena, Kamanapa Tenn, Data County Sebida Housena, Rivesen Tawn, Outs Cite	Nations Surfaces	Affice Filtre	2011/3/31	1.4	1002	0.0078	21.2	
			#thin	2011/3/17	2.4	10000	0.0029	14.0	
	Johish Hilichai, Resour Teven, Date City Tenkahan Teren, Date City	Nedwest Nedwest	The .	2011-47	1.5	(#:1	0.0027	4.5	
	Ara Manowa, Onda, Ryonga Town, Data City	Notice	175m	2001-07	13	(92)	0.000	4.1	
	Osami Takinotei, Fukushima Cira	Newtones	Triben	2011/017	5.9	F-2.7	0.0017	18.6	
_	Prikaroganka, Fokudoma Caty		11400	2011/43		test	0.0014	87	
	Supiromacho, Fukushima City	Noticethant Noticet	+2km	30113/16	1.4	1 1 1 1 1	0.0007	- 1.6	
	Arai Harainkis, Fakarshima City	West of these	1780	2011-0-75	0.5	t==1	0.0004	2.4	
	Kennogena, Opera Lovo, Iroda City	Suffred	Nin	20113-20	1.4	101	0.0004	6.6	
	Ara Ketasennolii, Historchema, Historchema Tewn, Iwaki Car	South	Tiles	2011/0/28	0.7	1007	0.0000	1.0	
	Aza Yasamugagea, Olasa, Olasa Tienn, Deuki Circ	Smill-seadment	Diten	2011/3/17	1.0	Trees.	0.0002	1.4	
	Yorkshira Toma, Produ City	Suit	Min	2011/3/26	0.6	(m)	0.0005	3.9	
_	Talishagi, Ogova Town, Iwalii City	South salebook	Price	20113-26	0.5	10021	0.6604	2.6	
	Hokan, Mangwa, Yotnikana Towa, Jwaki City	South sandonesi	160	2011-9-31	0.7	testicest.	0.0003	2.0	
	C. Ufuguemmayo Tatom, To sais 6 Wy	South-continued	4300	2011/3/26	0.5	(#:)	0.0003	1.7	
	Am Shokangoya, Opico, Kawamae Town, Iwaki Ciro	Seelines	friken	2011.47	0.2	1001	0.0005	1.6	
	Nation, Mirrie Toron, Brisky City	Septimen	Phin	2011/3/26	0.3	testimet.	0.6997	1.9	
	Unskindigger, Variabella, Sanda Town, Fetaba County	Said	Tibes	2011337		1000	0.0000	47	
	New addresses, Shimikitaha, House Loves, Fataba County	Track	2340	2011/3/26	-	(=3)(=0)	0.0007	11	
	Ara Shamada, Ota, Nihompatou City	Wemmediness	Alben	2011/3/17	- 13	1	0.0009	3.4	
	Ara Nakapina, Harimathi, Niboniama City	Wite nettern.	Auto	2011/3/17	0.9	1	0.0008	4.7	
	Ara Hagishira, Tarawa, Nihonmatou City	Wesnehmes	17hm	2011.3 14	0.8	t=ot	0.0009	1.5	

(Reference) Estimates of Integrated Dose at Each Continuous Monitoring Location based on Measured Values (2/2)

(Based on the latest values indicated in the press releases at 10:00 and 13:00, April 24.)

Location Number	Location (Motoreing Area)	From Eukarshima Dui-ichi NPP		Starting Date of Monitoring Air Dose	Estimates	of Integrated Dose	Latest Readings (mSv/h)	Estimates of Integrated Dose as of March 11, 2012
	12 × 50×××02 × 49 × 49 × 10 × 02 × 10 × 10 × 10 × 10 × 10 × 10	Direction	Distance	Rate	(mbv)	Note	[#3]	(mile) [164]
					[011]			
. 89	Toyota Toton, Kortyanta City	West	Notices:	2011/43	2.1	[銀2]	0.0017	10.1
.96	Ara Choumonhayashi, Otsaki Tuwu, Koriyama City	West.	638as	2011/3/27	1.2	[82]	0.0012	6.8
.97	Flansnowchi, Kantikuwauchi, Kamauchi Village, Futaha County	West-washinger .	2%in	2011/3/27	0.9	[#2]	0.0009	3.1
76	Ara Hayawata, Kamikawaschi, Kawasuhi Villaga, Futaba County	Westwarthwest	22km	2011/3/20	0.6	E=21E=51	0.0004	2.5
	Aza Miyawata, Shimukawasahi, Kamasahi Village, Fataba County	Westweithnest	228m	2011/3/16	0.5		0.0004	2.3
	Aza Shimo, Nistate, Funahiki Tawa, Tamura City	West	41306	20(1.0/17)	0.5		0.0012	6.2
-42	Ara Tomioka, Yamme, Tokina Town, Tamura City	West.	33600	2011/3/17	.0.8] [0.0068	4.3
15	Ara Kashima, Yamane: Tokiwa Town, Tamura City	West	328an	2011/3/17	0.9	[93]	0.0006	3.6
- 41	Forumachi, Miyokoji Town, Tamara City	Walt	21806	2011/3/17	0.7		0.0006	3.5
14	Aza Uchonaciu, Tokrusa, Tokowa Town, Tamura City	Want	34km	2011/3/17	0.3] [0.0006	3.1
23	Aza Survuschi, Minamiutsushi, Funchiki Town, Tantara City	West-mortiment	.71%co	2011/3/17	0.6] [0.0065	3.0
- 52	Aza Babakawara, Fundiski, Fundiski Town, Tamura City	Wast	40km	2011/3/17	0.2] [0.0003	1.7
55	Aza Ushimna, Kammunishi, Funchiki Town, Tamuru City	Westmirtmen	35km	2011/3/17	0.5] [0.0002	1.4
105	Furuenichi, Merakesi Tewn, Tamuta City	West	250a	2011/4/7	0.3	[@2]	0.0002	1,3
13	Am Yakata, Tokiwa Town Nishimskii	West	-25in	2011/3/17	0.4] [0.0001	0.9
12	Azu Ozawakawashiro, Funehikimachi, Tamura City	West	276.00	2011/3/17	0.3		0.0003	0.8
. 39	Vanukani-kammuniki, Souma City	Nethenritooni	4Dim	2011/4/1	0.9	[※2][※5]	0.0006	3,7
. 5	Nakano-tenanae, Souma City	North-sorthwest	420an	2011/3/17	0.6		0.0004	2.5
: 51,	Ononemachi-tatamawari, Ono Town, Tamura County	Westwinstowest	27500	2011/3/17	0.3		0.0002	1.2

This table was jointly compiled by the Nuclear Safety Countsission, MEXT, and the Nuclear and Industrial Safety Agency.

To prepare the isogram map of estimated imaginated doses, the values for a total of 2,138 locations were used (the 63 locations mentioned above plus the air dose monitoring locations mentioned below [2,078 locations]).

^{*1} Shown values are integrated values monitored from 6.00, March 12 through 24.00, April 21. The same estimation method is that used by the Nuclear Safety Commission on March 28, 2011 is used, whereby the values are estimated by multiplying the mantioned values by 0.6 in consideration of the reduction effect of wooden buildings (0.4) when staying outdoors for eight hours and indoors for 16 hours.

^{*2} For locations where the monitoring was started on or after March 19, the dose data for the period from March 16 to the day before the start of monitoring has been derived by assuming that the dose has changed in proportion to changes at Location No. 32, where the steepest dose change has been observed.

^{*3} Shown values are the latest air dose rates monitored by the time of the press release at 10:00. Agril 22. As for locations [*5] where actual values have been obtained by a simple integrating desiracter, the values are the integrated values monitored since the time of the previous data sampling devided by the time laysed.

^{*4} Shows values have been obtained by the same medical as that mentioned in *1, while supposing that the latest munitured values [*3] will stay anchanged on and after April 22.

^{*5} For the period where actual values monitored by a simple integrating dosimeter are available, such values are indicated.

⁽¹⁾ Air dose rates observed in the emergency continuemental monitoring conducted by Fukushima Prefecture from March 20 to April 21: 91 locations

⁽²⁾ Air dose rates observed in monitoring conducted by MEXT on April 9 in Katsarno Village and Namic Town: 16 locations

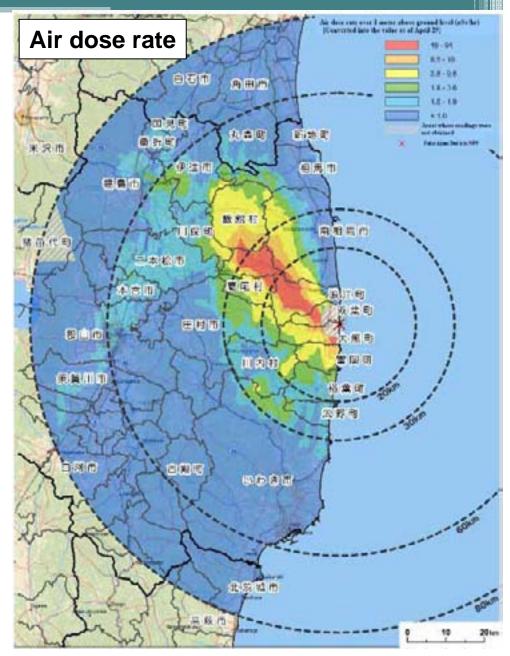
⁽³⁾ Air dose rates observed within the area covered by the isogram map in the grid survey conducted by Fukushima Prefecture from April 12 to April 16: 1,790 locations

⁽⁴⁾ Air dose rates observed inside the 20 km cone in monitoring conducted by MEXT and TEPCO on March 30 and 31, and April 2, 18 and 19, 178 locations

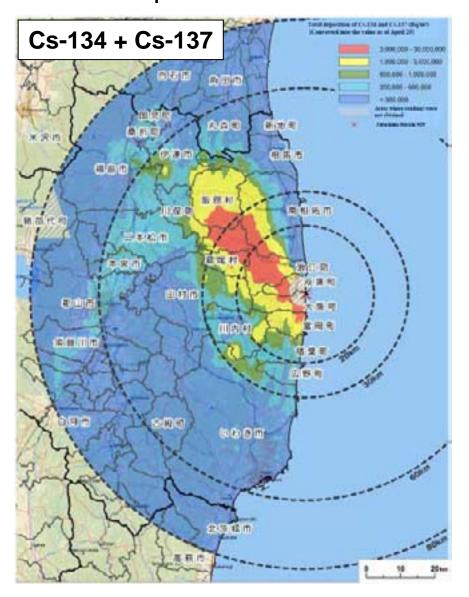
Results of airborne monitoring by MEXT and DOE

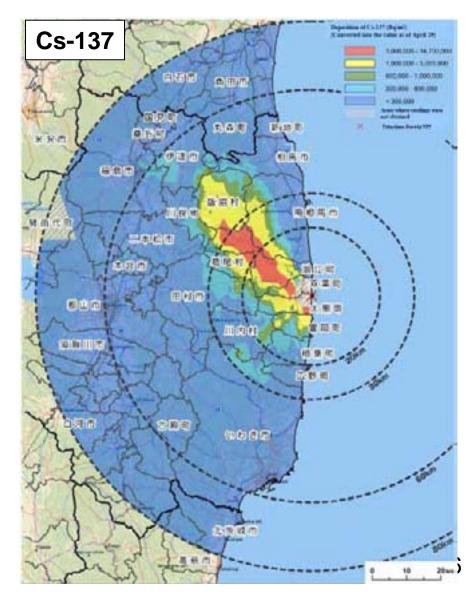
(Monitoring Spec)

- Monitoring mesh: 1 2km
- Target altitude of measurement : Terrain clearance 150 - 300m
- Monitoring Term : April 6th - April 12th
- Monitoring Items :
 - ➤ Air dose rate over 1 meter from ground level
 - Pollution situation of radionuclide deposited ground



Results of airborne monitoring by MEXT and DOE Surface deposition of Cs inside 80 km zone of Fukushima Dai-ichi NPP





Radionuclide quantitative analyses out of 20 km zone of Fukushima Dai-ichi NPP



Results of radionuclide quantitative analyses out of 20 km zone of Fukushima Daiichi NPP

(Example : Soil (1/2))

		Manager A	Reductivity Conventration (By Ng)							10000	Menturn			
Ses	ing Pyros.	Section Section 2	10%	18404	187 _{Cit}	imy,	10070	im _{Ce}	· ing.	Other detected nuclides	Air store nete (at \$4.50			
		3:25 (4:13	29.000	25,000	627						30.5			
		3:29 10:15	22.000	1,850	1,000						17.8			
		3/27 (1.00	120,000	23.500	27,000				_		254	ł		
					3/29 345	120,000	312000	270,000		_				18.7
		3 36 10 50	710,000	292,000	290,000						16.3	f		
		\$-31 10.45	10,000	14,200	15,000						1200	1		
		4/1 10:36	79.000	21400	29.000		-		_		15.4	-		
		4/2 (11/62 4/3 (039	21,000 80,000	35,000	21000		_		_		12.5	ł		
		4.4 1027	141,900	5,931	8,907						11	1		
		6.9 1042	103,979	62,636	68.209						19.6	1		
		4/8 (1.43	84,819	47,948	31,942						10.9	1		
		4:7 10:30 4:3 10:50	79,581	18:300	20,300				_		114	ł		
		4/10/10/17	58.3000 58.758	42.913	14,339		_				12.0	t		
		4/11 19/92	54.558	54.212	61.722						12.6	f		
		4:12 16:56	54,507	40,406	46,216						12.2	1		
		4/14 11/06	\$3,000	64,000	75,000						10.7	1		
		4:15 1045	1800081	16.046	21,000						16.5	1		
		4:16:10:00 4:17:10:40	17,000	12,000	21,000 11,000						8.2	1		
		# 17 10 40 # 16 950	8.780	12,000	8.100						11.8	f		
		4:30 10:46	39.000	81,000	41,000						10.6	f		
		4/21900	30,000	73,000	81,000						10.0	1		
		6:22 10:29	68,000	190,000	210100						19.1	1		
		4:34 (004 4:37 (004)	11:000	5.3081 29.000	8.800 29.900				_		112	1		
	Futable county Namin Source Thumbers	6:25 (0:10 6:27 (6:6)	3,800	4,000	11,000						8.6	1		
		6-29-143E	7,400	39.000	42,000						Tá			
		4/29 9:54 (4/30 HESS)	8200	16,000	34 000						7.5			
		4-30 (659 (5/1 584b)	3,000	14,000	14,000						44			
[3-12]		3/1 955 (5/2 1729)	4500	25.000	21.000						13	tro		
		D/218161	3,000	38,380	\$1000						54			
		5/2 1636	5,200	14,000	35,000						54			
		(5/63/60)	6.700	31.000	34,000						41			
		5-4 1120 (5-6 1929)	8,300	94.000	\$4,000						25			
		5/5 10:00	5300	31,000	40,000						12			
		5.5 1800	2300	31.000	21,000						12			
		5/9 18/09 (5/9 19/07)	2400	14,000	14,000	5300	No December	140	Not Street about		12			
		5/7 14/54 (5/9 16 16) 5/9 16/61	2,980	14300	14,000	1101	no traverse	130	Ted Statutorio	No feedings	7.8			
		35/30 1628	4100	34,000	44,000	21,800	N Books	*90	Not Ship make	teritorioni.	**			
		5/9 1005 (5/11 1746) 5/10 1016	4700	54,000	40.000	21,000	No December	190	No. Securitaria		13			
		(A/12/H21)	4700	62300	70.000	30300	ter treumen	510	The Today rapid		19			
		\$14 HEE	1200	36,000	45.000	17,000	the Between the	220	Nat Setudate	Total Control	11			
		(\$/14 (4).0) \$/0.000	3.300	42,000	41.000	21:000	ter (resemble)	270	An insurance	Ag: 140	15	-		
		(5/15 1439) 3/16 (0.0)	1,200	16,000	1E.000	6,300	the December		Mrs. Dieseration	aliana de la companya della companya della companya de la companya de la companya della companya	65			
		5/16 (1/4E) 5/16 (1/4E)	1.400	22,000 4,000	\$1.000	7.600	te besset		the December		53			
		576 1620	1,100	27,000	30,000	11,000	No Description		No Service		15			
		5/11/11/46	1.480	41,000	20,000	11,000	-		10/200			-		

Results of radionuclide quantitative analyses out of 20 km zone of Fukushima Daiichi NPP (Example : Soil (2/2))

	12	toming free and				teriscientricity	Consentation	ritteringi			2000	Municipality
Serv	Sergity Fort		1919	184Ca	ist _{Cx}	tename	10074	100 _{C0}	inte	Other detected residen	Ar disserves (ar3+/h)	Point by marketing
		3/28 (430	81.500	9,500	6,560						61.0	
		3.78 10.40	290,009	25,400 76,000	33,000						414	
		3:27:1135 2:28:1931	£10,000	6300	9.200		_		_		303	1
		3/29 10/67	660,000	\$3,300	94,000						410	1
		3/30 1106	200,000	\$3,500	12,000						41.6	1
		4/1/1/84	\$1,000	\$8,790 122,000	130,000				-		34.5	
		4/2 1099	120,000	21,800	25.000						340	i
		A/3 10/M	780.000	110,000	110,000						117	1
		4.4 10.55	167.796 201.800	99,234	163,596				_		31.7	1
		4/9/11/09	125,200	11,404	34,791						214	
		4:7 1947	120,010	65.462	73,394						ITA.	1
		4/0.11.23	21.300	13,000	84,300						211	1
		4/10/10/64	41.805 114.200	120,190	42,835 160,860		_		_		21.8	-
		4.12 1645	102.450	77,991	86.040						26.4	
		4/14/10/0	61,000	84,000	13,000						21.3	1
		A115 1028	24.000	25.000 75.000	(91,000)		-		-		21.5	4
		4/17 1016 4/17 1056	17,000	8,700	10,000				_		23.3	1
		4/18 19:15	10,860	16,000	19,000						26.6	1
		4/20 16,ET	24,800	46,000	10,000						213	
		A:21.1033 A:23.1040	JE308 41.306	195,000	19,000 220,000		-		_		21.6	1
		4/34 1038	34,500	88.000	110,000				_		342	1
		A-25 10:38	19.800	82,000	96,000						19.4	
		4/27 1426	21,000	115,000	130,000	_	-		-		ELA.	
	Futaka caunty Names town Alexagi	A.798 10821 (8:29 18:34)	5,700	11,000	\$8,000						18.7	
		4.'29 10:11 14.'30 10:541	12,000	46,000	12,000						19.5	
		4/30 1112 (3/1 14/40)	16,000	110.000	110,000						18.7	
		\$19.1924 (\$12.1730)	1.300	\$6,000	\$4,000						17.8	0.50
(32 (3 Northwest, West)		\$-2 (048 (5-3 (919)	11.000	84.000	87,000						19.7	6383
		5/21049	11,000	79.000	\$1,000						19.7	
		3-71811	2100	7,300	6.210						162	
		5/4 (1/3K (5/6 (6/8))	1,000	\$2,000	81,000						16.6	
		5.5 1921	1,100	7,600	8,300						18.0	
		5/9 (021 (5/8 (106)	5.500	30.000	31.900						18.9	
		(5/9 /5/28)	E.500	130,000	140,000	14,000	the Security	1,500	No Debugation		18.6	
		5/7 (#36 (9/9 (#39)	10000	81000	97.980	10301	ter brance	1.000	ner (seuten	the Sampusation	19.6	
		\$/8.84F (\$10.961B)	1.200	10,000	81,000	31.300	nor (resource)	360	ner interes		116	
		\$19.950 (\$11.1764)	1,400	71.000	75.000	39.000	me (marate	360	ner (enumere	100 pg - 240	20.1	
		8-10-100E (8-12-161E)	7,900	100,000	110000	57.000·	te l'enter	1.100	the Description	**** Ag : 270	26.3	
		\$19.8ds (\$19.50)	4,000	75.000	96,000	33.000	te braces	.910	No Description	**** _{Ag} 330	18.0	
		5/12 V631 (5/14/678)	3,700	19.000	85,000	24,700	No. Deputies	100	No Security	No Processor	194	
		8/12 10:08 (8/18 14:05)	1,700	67,000	71,000	12,000	No December	140	No. December	100 Ag (210	17.2	
		\$114 SHIS (\$114 SHIS)	1/00	60.000	64,000	29.000	No become	470	No Delection	****Ag : 190	10.2	
		EVENTAL IS/10 YEAR	1,100	40,000	47.000	34300	No Severale	710	No Saturban	Ad Bowisto	173	
		\$16 1004 (\$16 1616)	2.100	82,000	81,000	34,000	No Encodes	600	No Security	****As 290	18.5	
		9/17/11/27 (9/19/19/06	1,500	11.000	20.000	9.000	the beauties	Sed December	was Delected	No December	118	

Results of radionuclide quantitative analyses out of 20 km zone of Fukushima Dai-ichi NPP (Sr, U and Pu)

Sample	Sampling Point (Number or Name)	Sampling Date	131[134Cs	137Cs	**Sr	%Sг	Unit
Land Soil	31*2	3/17	30,000	2,300	2,300	13	3.3	Bq/kg WetSoil
Land Soil	32*2	3/16	100,000	20,000	19,000	81	9.4	Bq/kg WetSoil
Land Soil	33*3	3/16	160,000	52,000	51,000	260	32	Bq/kg WetSoil
Plant	Ootama Village	3/19	43,000	89,000	90,000	61	5.9	Bq/kg raw
Plant	Motomiya City	3/19	21,000	57,000	57,000	28	3.7	Bq/kg raw
Plant	Ono Town	3/19	22,000	12,000	12,000	12	1.8	Bq/kg raw
Plant	Nishigou Village	3/19	12,000	25,000	25,000	15	3.8	Bq/kg raw

Si

- * 1 Plants are provided by Fukushima Pref.
- 2 Namie Town
- * 3 litate Village

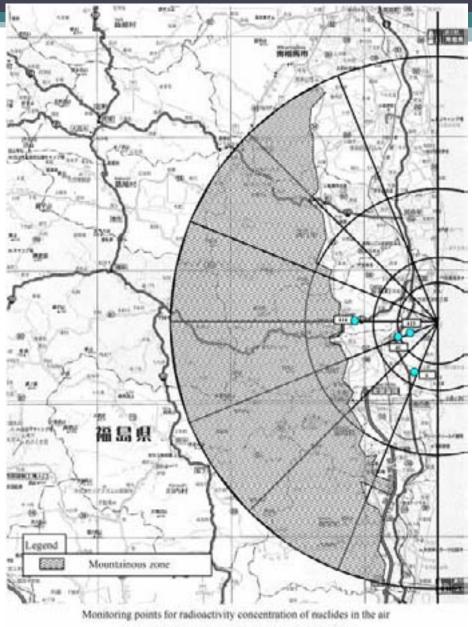
Only seven above-mentioned points were sampled, and measured.

U and Pu

Sampling Point	Sampling Date and Time	radiation dose rate [µSv/h]	Pu 238	Pu-239+240	U-235/U-238
Around Kodeya in Kuzuo Village	3/23 About 10:20	43.5	Not Detectable (Below 0.1 Bq/kg)	Not Detectable (Below 0.1 Bq/kg)	0.00731
East Side of Hirusone Tunnel .Namie Town	3/23 About 10:40	46.5	Not Detectable (Below 0.1 Bq/kg)	Not Detectable (Below 0.1 Bq/kg)	0.00726
Akougi Namie Town	3/22 About 11:30	50.1	Not Detectable (Below 0.1 Bq/kg)	Not Detectable (Below 0.1 Bq/kg)	0.00723

^{*} Isotope abundance ratio of U-235/U-238 in a state of nature: 0.00725

Readings of Radioactivity Concentration in the Soil inside of the 20 km Zone of Fukushima Dai-ichi NPP (Monitoring points)



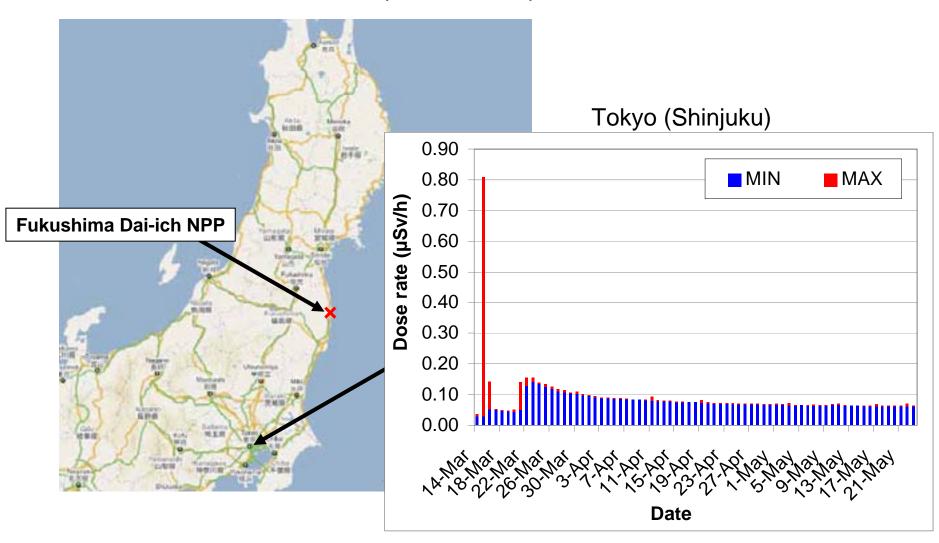
inside of the 20 km zone of Fukushima Das-ichi NPP

(Monitoring dates: May 3, 2011)

Readings of Radioactivity Concentration in the Soil inside of the 20 km Zone of Fukushima Dai-ichi NPP (Monitoring date: May 3, 2011)

		Readings of Radioactivity Concentration						
Location Number	Location (Monitoring Area)	Monitoring Date and Time	Nuclide	Radioactivity Concentration (Bq/kg)				
6	Okuma town Oaza Kumagawa	May 3	131[9,500				
	(About 4km South/South/West)	14:52	134Cs	18,000				
	2 (A)		136Cs	250				
			137Cs	17,000				
		1 1	129mTe	8,800				
41	Okuma town Oaza Ottozawa	May 3	131	11,000				
	(About 3km West/South/West)	14:55	134Cs	52,000				
			¹³⁶ Cs	760				
		1 1	¹³⁷ Cs	49,000				
			129mTe	23,000				
A13	Okuma town Oaza Ottozawa	May 3	131	110,000				
	(About 2km West/South/West)	14:54	134Cs	270,000				
			136Cs	3,400				
		1 1	137Cs	270,000				
	CH1		129mTe	180,000				
Λ14	Futaba county Futaba town Oaza Yamada	May 3	131	7,200				
	(About 2km West)	14:53	134Cs	5,000				
			136Cs	87				
			137Cs	5,000				
		1	^{129m} Te	7,300				

Results of environmental radiation monitoring by 47 Prefectures (Dose rate)

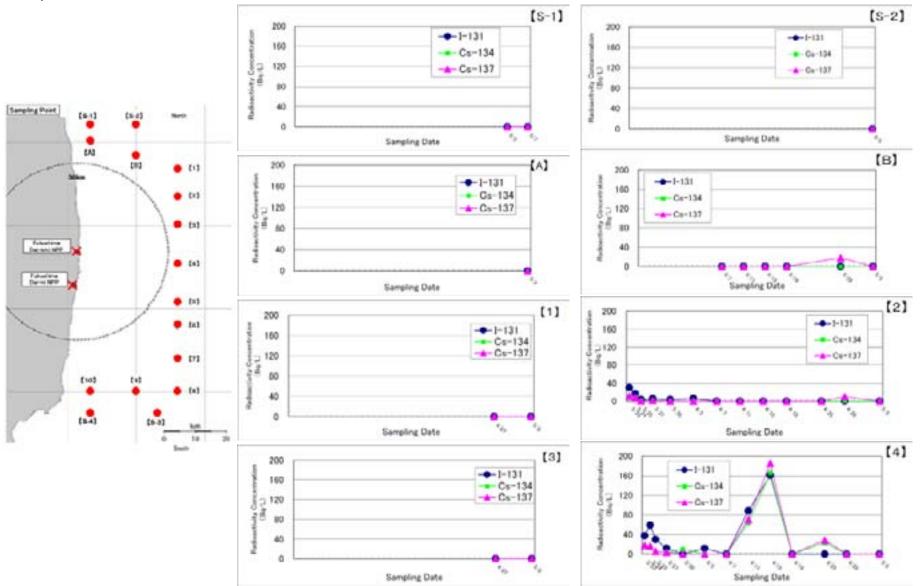


Results of environmental radiation monitoring by 47 Prefectures (Fallout and Drinking water)

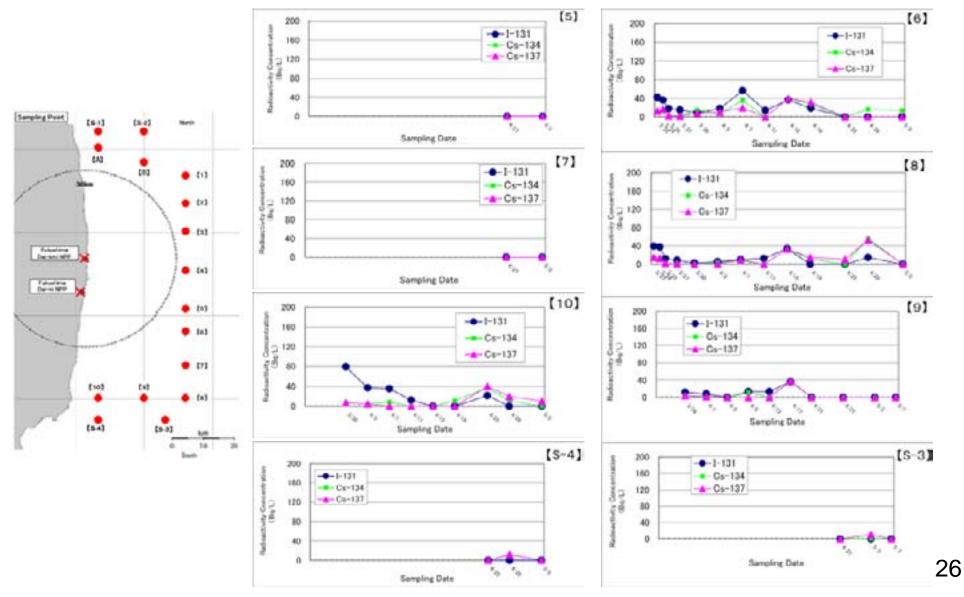
	Profestore (Dts)	False							
	Hamilton Diff.	1-101	Ge=104	fameto					
۱	Philosoph/Seasons/	Not Detectobre	Not Detectable	Not Detectable					
£	Annel Annel	Hart Detectable	Not Detectable	Not Swiscistic					
3	Instable one)	Hat Detectable	Not Detectable	Non Denomina					
a	Mose				Mill be measured because a the authorise Scotter denials				
3	Antichetal	Not Describe	Not Detectable	Nor Services					
	Yeromate/Yeromate/	Hon Denombre	Not Desposable	Non Demonstrative					
7	Futurina (Fyturiana)	Not Debutaire	Not Detectable	Not Detectable					
B	Bergi Ditariophel	Not Detectable	Not Detectable	Not Denomine					
9	TechylUnearried	Not Detectable	Not Detectable	Not Denoctable					
10	Gunnal Manhach 2	Not Detectable	Not Districtable	Bird Divisionalis					
11	Satana Satanal	Had Delectable	Not Detectable	2.5					
12	Oshalimhasi	Not Constitution	Not Detectable	Not Datachates					
13	Total Strengton	Name Contactories	not Detectable	but Senertune					
16	Kerajawi (Piposi)	No Deservative	Not Description	Non Democratile					
15	Water/Water	Not Detectable	Not Detectable	Not Detectable					
-	Transactionical	Hot Dates/akir	Not Detectable	Not Entertain					
17	hithaud Keratheal	Not Detectable	Not Detrotation	Not Detectable					
19	FelulFalui	Not Datedalin	Ryt Detectable	Not Setestable					
19	Tenanski Eufly	Not Detectable	Not Detectable	But Extectable					
23		Not Detectable	Not Ostaction	But Datacture					
-	Napani Napani	Pro. Principles and State Sant							
21	GARGEARGINES	Start Elementation	Not Describe	NOT DEPARTMENT					
12	Driceta/Oreman)	Hys Detectable	Not Detectable	Not Deservable					
23	Ashiftsgrafi	Not Delector	Not Detectable	Not Detectable					
24	Michiganol	Het Detectable	Not Detectative	Net Extectable					
25	Sharibasi	Not Detectable	Not Detectable	Not Denocable					
28	Fyels(Kyels)	Het Datestukie	Net Detectable	Not Districtable					
17	Contractions	Most Chaltectubile	Not Detectable	But Detectable					
310	Hyrgot Folia?	Not Detectable	Not Detectable	But Datestalle					
19	Plans (None)	fen Desertate	Not Selectors	Nor Denomine					
30	Refugerse (Newsparts)	Het Desendre	Not Detectable	Not Denomine					
21	Total (Talkelo)	Not Detectable	Not Detectable	Not Detectable					
32	Director(Hat Datecladre	Not Detectable	Not Detectable					
25	Chapma Chapma	Hat Detectable	Not Detectable	Not Establish					
34	Hystina Historia	Met Detectoble	Nyk Dekoptykle	Not Detectable					
15	Yanaputh(Yanaputh)	Net Oriscolte	Not Detectable	But Detectable					
25	Tokushina(Yokushina)	Not Delectable	Not Owtochen	But Debututes					
10	Faces (Telephone)	Non Deservation	Not Generative	Not Denocration					
26	Etimol Yenetahamai	Not Describble	Not Detectable	Not Denominate					
15	Forch (Kools)	Net Detectable	Not Detectable	Not Detectable					
40	Futuri d'Encurtui	Het Detectable	Not Detectable	Not Detectable	0				
41	Supe (Sups)	Het Detectable	Not Detectable	Not Detectable					
40	Magnish (Otenina)	Het Detectable	Rot Detectable	Not Detectable					
43	Europetic (Pro)	the Description	Not Debutters	But Tatectable					
80	BREDNE	Not Strimbare	Not Detectable	And Servicion					
45	Mystat/Mysess/	ten Descripto	Not Detectable	tur Senanus					
40	Kaprelina/Kapotima)	Hel Detectable	No. Detectation	Not Determine					
42	Oreanthrail				Unite adjustment of the represent				

Т	222			Drinking	Water
1	Prefecture (City)	1-131	Cs=134	Cs-137	Remarks
rt	Hokkaido Sapporo)	ND	ND	ND	
2	Apmori(Apmori)	ND	NO	ND	
ît	Iwate(Morioka)	ND	NO	ND	
4	energy (mineral)	- 114	100	- 77	Refer to the website of Miyagi Pref.:
4	Miyagi	+:	-	-	http://www.pref.miyagi.jp/kokusai/en/ac idents fukushima nuclear.htm
st	Akita(Akita)	ND:	NO.	ND	The state of the s
0	Yamagata(Yamagata)	NO	ND .	ND	
,	Fulushime (Fulushima)	-	-	-	Refer to the website of Fukushima Pret. http://www.pretfukushima.jp/index.s.htr
B.	Barak/Hitachinaka)	ND:	ND:	ND:	
ij	Techig(Utsunemiya)	ND	ND	ND	
õt	Gurme(Maebashi)	ND	NO.	NO	
Դ	GOVERNMENT OF THE PARTY OF THE	1967	0.13	1962	
1	Soiteme(Soiteme)	NO	(Under the reference	ND	
3	Chiba(Ishihara)	ND	ND	ND	
3	Tokyo Shirpaku)	ND.	ND:	ND	
4	Kanagawa/Chigasaki)	ND	ND	ND .	
4 6	Nigata(Nigata)	ND	ND.	ND	
at	Toyama(lmigs/)	NO	NO.	NO	
5	Ishkana/Kanacawa)	ND	ND	ND	
7 8	Fahad(Fahad)	ND	ND	NO	
ij	Yamanashi(Kofu)	ND	ND	ND	
ő	Nagaro(Nagaro)	ND	NO.	ND	
ä	Gru(Kakamigahara)	ND	NO.	ND	
2	Shizuoka(Shizuoka)	ND	NO	ND	
ât	Aich(Nagoya)	ND	NO	NO	
æ	Me(Yokkaichi)	ND	ND	ND	
8,08/4	Ships(Otsu)	ND	NO	ND	l
21	Kyoto(Kyoto)	ND	NO	ND	
ăŀ	Osaka (Osaka)	ND	ND	ND	
7	Hyogo(Kobe)	NO	ND ND	ND	
at	Nora (Nora)	ND	ND	ND	
핪		ND	ND	NO	
ñ	Wahayama(Wahayama) Totton (Tohhaku)	ND.	ND	ND	
过	Shimane/Mataue)	ND	ND	ND	
ä	Okayama(Okayama)	NO	NO	NO	
4	Hroshima[Hiroshima]	ND	ND	ND ND	
15	Yamaguchi(Yamaguchi)	NO	NO.	ND	
M	Tokushima(Tokushima)	ND	NO	ND	
17	Kagawa(Takamatau)	ND	ND	ND	
ă.	Ehime (Yawatahama)	NO	NO:	NO	
10	Kachi[Kachi]	ND	ND:	ND	
άľ	Fukucka(Dazaiki)	ND	ND	NO	
it	Saga(Saga)	ND:	ND.	ND	
2	Nagasaki(Ohmura)	ND	NO.	ND	
â	Kumamoto(Uto)	ND.	ND .	NO	
4	Ota(Ota)	ND	NO	ND	
5	Miyazaki(Miyazaki)	ND	NO.	ND	
	Kagoshima[Kagoshima]	ND	ND	ND	
41	Okinsan(Naha)	100	196	100	On setting up the equipment NO : Not Detected

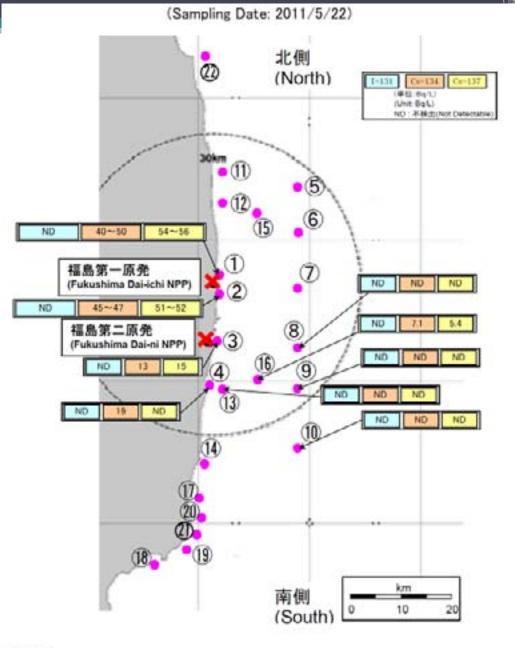
Results of radionuclide quantitative analyses (Sea water; out of 30 km zone of Fukushima Dai-ichi NPP; 1/2)



Results of radionuclide quantitative analyses (Sea water; out of 30 km zone of Fukushima Dai-ichi NPP; 2/2)



Results of radionuclide quantitative analyses (Sea water; inside of the 30 km Zone of Fukushima Daiichi NPP and coast area)

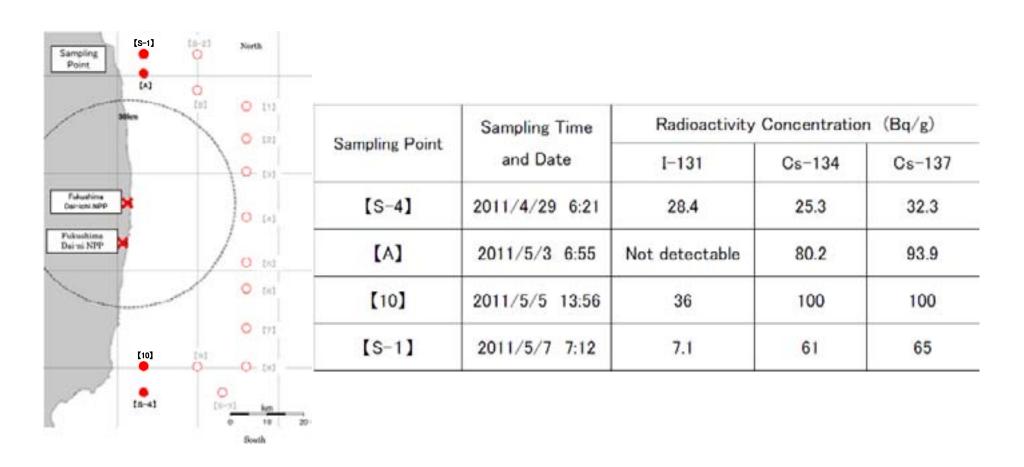


^{*}全て上层

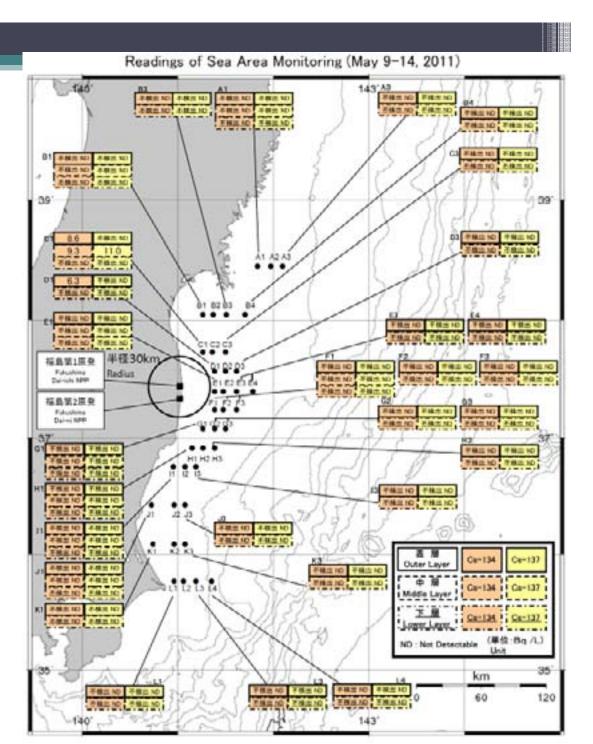
⁽All sampling depth of all data: Outer Layer)

^{*}東京電力(株)の免表 (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)

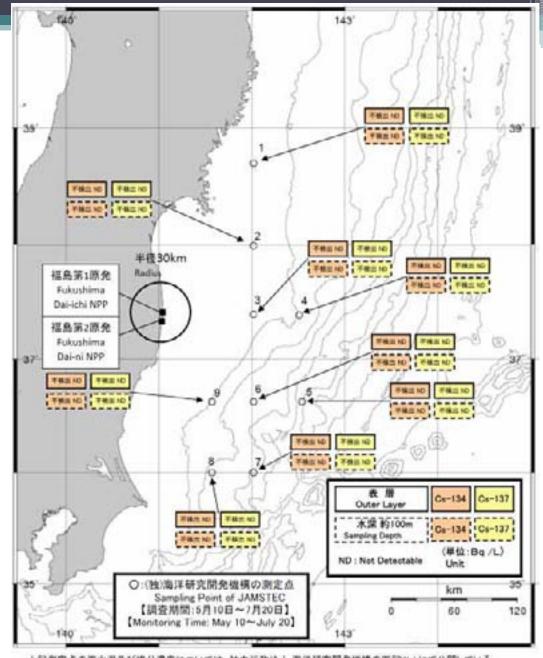
Results of radionuclide quantitative analyses (Sea soil; out of 30 km zone of Fukushima Dai-ichi NPP)



Readings of Sea Area Monitoring at offshore of Miyagi, Fukushima and Ibaraki Prefecture (1/2)



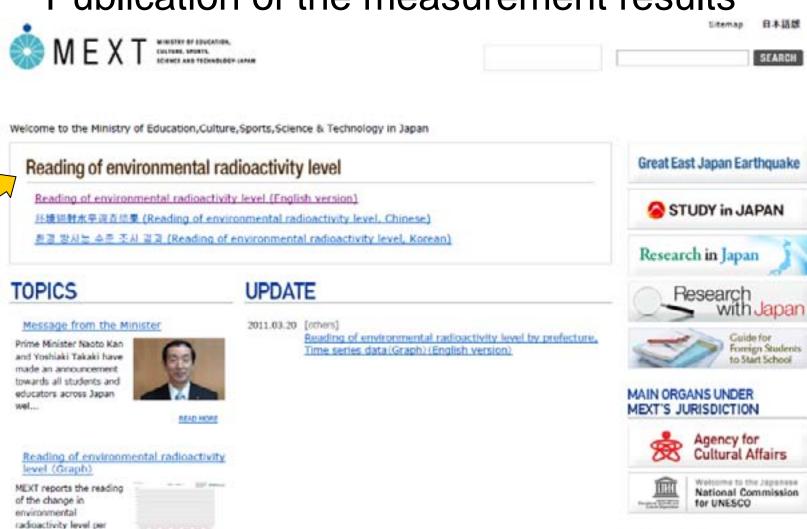
Readings of Sea Area Monitoring at offshore of Miyagi, Fukushima and Ibaraki Prefecture (2/2)



上記劃定点の海水温及び塩分環度については、独立行政法人 海洋研究開発機構の下記Webにて公開している。 The readings of temperatures and safnity levels of seawater at the measurement points are put on the websites of JAMSTEG bellow.

http://www.godac.jamstec.go.jp/monitoringdata/

Publication of the measurement results



week for every prefecture.

across Japan.

http://www.mext.go.jp/english/

RELATED SITES

Future Plan

(For the recovery after the accident on Fukushima-Daiich NPP)

- For the purpose of the recovery after the accident on Fukushima-Daiich NPP, the environmental radiation monitoring operation will be enhanced in order to
 - Adding the monitoring point of land and sea area monitoring
 - Strengthening of analysis of radioactive strontium concentration
 - Updating detailed map of dose rate and integrated dose
 - Making detailed contamination map of soil