

1 **Initial decrease in ambient dose equivalent rate after the Fukushima accident and its difference from the Chernobyl.**

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7 **Supplementary Table S1.** Descriptions of Dataset_Unpaved. The column of “No” indicates the monitoring sites numbered in the
8 monitoring program by MEXT. The maximum and minimum $dH^*(10) dt^{-1}$ ($\mu\text{Sv hr}^{-1}$) were observed during the monitoring period in
9 2011. Circle in the column of “Evacuation Zone” indicates the monitoring sites subjected to be evacuation zone at the end of 2011.

No	Latitude	Longitude	Land type (proportion)	Monitoring period in 2011	$dH^*(10) dt^{-1}$ ($\mu\text{Sv hr}^{-1}$)		^{137}Cs activity per unit area (kBq m^{-2})	Evacuation zone
					Max.	Min.		
23	37°30'30.3"	140°37'30.3"	Paved surface (50), Grassland (50)	March 16 - December 28	5.0	0.3	109	
31	37°33'56.2"	140°44'37.8"	Paved surface (50), Grassland (20), Forest (30)	March 16 - December 28	66	4.7	1590	○
33	37°36'45.5"	140°44'56.8"	Paved surface (50), Grassland (50)	March 16 - December 24	110	7.5	1938	○
37	37°45'18.5"	140°41'17.1"	Paved surface (45), Grassland (15), Forest (40)	March 16 - December 24	4.7	2.2	436	
41	37°26'02.5"	140°48'06.3"	Paved surface (50), Forest (50)	March 16 - December 28	13.0	0.4	169	
44	37°10'34.3"	140°57'17.3"	Paved surface (40), Bare ground (20), Forest (40)	March 16 - December 28	19.0	0.2	94	
45	37°14'45.8"	141°00'12.0"	Paved surface (40), Grassland (60)	March 16 - December 28	19.0	0.4	168	○
46	37°35'09.5"	140°42'40.9"	Paved surface (50), Grassland (50)	March 17 - December 28	40	3.0	800	○
81	37°35'04.3"	140°45'24.3"	Paved surface (50), Grassland (15), Forest (35)	March 24 - December 28	66	12	3002	○
83	37°33'37.5"	140°49'26.0"	Grassland (100)	March 24 - December 28	110	28	4692	○
181	37°22'33.3"	140°45'15.9"	Paved surface (35), Grassland (50), River (15)	May 20 - December 28	0.6	0.4	108	
i10	37°44'15.3"	140°42'13.1"	Paved surface (50), Grassland (50)	April 25 - December 24	5.5	3.3	690	○
i20	37°40'26.4"	140°46'41.4"	Paved surface (50), Grassland (50)	April 26 - December 22	7.0	4.7	821	○
K3	37°31'23.9"	140°44'52.6"	Paved surface (50), Grassland (50)	April 25 - December 22	1.9	1.3	318	○
kw1	37°38'37.3"	140°39'04.2"	Paved surface (50), Grassland (50)	April 26 - December 28	1.6	0.9	204	
kw3	37°36'05.3"	140°38'12.2"	Paved surface (50), Grassland (50)	April 26 - December 21	2.1	1.2	353	○
n1	37°35'50.0"	140°45'10.9"	Paved surface (40), Grassland (50), Forest (10)	April 27 - December 18	25	16	2709	○
n2	37°34'37.4"	140°46'45.6"	Paved surface (50), Grassland (50)	April 27 - December 18	24	15	3067	○
n3	37°34'57.9"	140°47'36.8"	Paved surface (50), Grassland (50)	April 27 - December 18	14	8.3	2544	○
n8	37°33'18.5"	140°46'44.9"	Paved surface (30), Forest (60), River (10)	April 27 - December 27	16	9.6	2306	○
n10	37°33'37.4"	140°42'29.2"	Paved surface (50), Grassland (50)	April 27 - December 27	2.2	1.3	387	○
111	37°17'51.7"	140°45'33.3"	Paved surface (50), Forest (50)	May 20 - December 28	0.8	0.4	144	
113	37°27'34.1"	140°45'09.4"	Paved surface (50), Grassland (50)	May 20 - December 28	1.5	0.8	205	
114	37°14'25.6"	140°50'46.9"	Paved surface (40), Grassland (50), Forest (10)	May 23 - December 28	1.5	1.0	233	

12 **Supplementary Table S2.** Descriptions of Dataset_Paved.

No.	Latitude	Longitude	Land type (proportion)	Monitoring period in 2011	$dH^*(10) dt^{-1}$ ($\mu\text{Sv hr}^{-1}$)		^{137}Cs activity per unit area (kBq m^{-2})	Evacuation zone
					Max.	Min.		
1	37°45'02.1"	140°28'00.7"	Building (100)	March 17 - December 24	8.5	0.3	186	
2	37°45'24.2"	140°33'17.8"	Paved surface (80), Grassland (20)	March 17 - December 28	18	0.9	369	
4	37°39'45.0"	140°35'44.2"	Paved surface (100)	March 17 - December 28	6.7	0.3	180	
5	37°47'26.9"	140°55'48.0"	Paved surface (100)	March 17 - December 28	7.5	0.3	56	
7	37°42'00.2"	140°57'45.4"	Paved surface (75), Grassland (25)	March 17 - December 28	5.0	0.3	82	
10	37°35'48.1"	140°34'47.2"	Paved surface (75), Grassland (25)	March 17 - December 28	5.2	0.3	185	
22	37°30'52.4"	140°39'17.6"	Paved surface (75), Grassland (25)	March 16 - December 28	26	0.2	129	
34	37°33'14.5"	140°44'13.6"	Paved surface (75), Forest (25)	March 16 - December 28	25	3.4	738	○
38	37°07'27.9"	140°56'52.8"	Paved surface (70), Grassland (30)	March 16 - December 28	2.5	0.2	93	
79	37°33'33.5"	140°45'34.9"	Paved surface (90), Building (10)	March 20 - December 30	39	5.9	1838	○
102	37°44'07.7"	140°36'34.0"	Paved surface (50), Building (10), Grassland(40)	April 7 - December 28	1.7	0.3	228	
104	37°30'11.6"	140°45'49.8"	Paved surface (60), Forest (10), River (30)	April 7 - December 28	3.4	0.6	381	○
112	37°13'10.1"	140°57'04.7"	Paved surface (65), Gravel (20), Forest (15)	May 21 - December 28	1.2	0.5	129	
i9	37°43'00.3"	140°41'28.3"	Paved surface (60), Building (15), Grassland (25)	April 25 - December 24	5.9	3.4	783	○
K11	37°28'51.8"	140°48'15.4"	Paved surface (60), Forest (40)	April 25 - December 24	2.1	1.3	289	○
ni2	37°34'47.1"	140°40'30.6"	Paved surface (50), Building (25), Gravel (25)	May 4 - December 28	1.0	0.6	208	

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