

Reykjavík, April 15th 2011

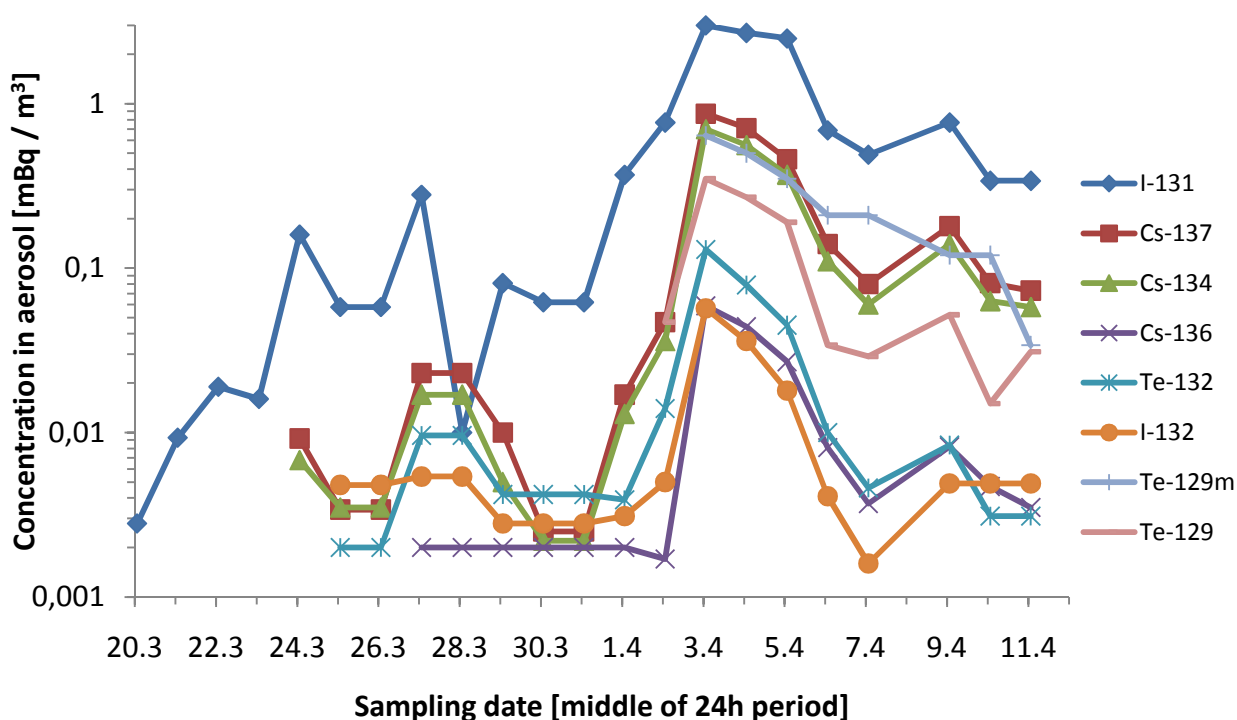
Summary of radionuclide concentrations in air

March 19th - April 11th, Reykjavík, Iceland (64°08'N, 21°56'W)

Radionuclides from Fukushima were first detected in samples collected during the March 19th-20th sampling period. Aerosol samples are collected for 24 hours, with filters changed daily at 13:30 UTC. Total daily air volume throughput is on average more than 15 000 m³. Minimum detectable concentrations for I-131, Cs-137, Cs-134, and Cs-136 are approximately 0.002-0.003 mBq/m³ (2-3 µBq/m³).

The Cs-137/I-131 ratio was typically 4–8% in the beginning (March 25th – April 2nd, with the exception of March 27th–28th). After the increase in concentrations observed on April 3rd, the ratio increased to an average value of 22%.

The Cs-134/Cs-137 ratio has remained relatively constant at an average value of 0.8 since these radionuclides were first detected in samples from March 23rd–24th.



Data table

Sampling dates	I-131	Cs-137	Cs-134	Cs-136	Te-132	I-132	Te-129m	Te-129
19.03 - 20.03	0.0028	-	-	-	-	-	-	-
20.03 - 21.03	0.0093	-	-	-	-	-	-	-
21.03 - 22.03	0.019	-	-	-	-	-	-	-
22.03 - 23.03	0.016	-	-	-	-	-	-	-
23.03 - 24.03	0.16	0.0092	0.0068	-	-	-	-	-
24.03 - 25.03	0.058	0.0034	0.0035	-	0.002	0.0048	-	-
25.03 - 26.03	0.058	0.0034	0.0035	-	0.002	0.0048	-	-
26.03 - 27.03	0.28	0.023	0.017	0.002	0.0096	0.0054	-	-
27.03 - 28.03	0.01	0.023	0.017	0.002	0.0096	0.0054	-	-
28.03 - 29.03	0.081	0.01	0.005	0.002	0.0042	0.0028	-	-
29.03 - 30.03	0.062	0.0025	0.0022	0.002	0.0042	0.0028	-	-
30.03 - 31.03	0.062	0.0025	0.0022	0.002	0.0042	0.0028	-	-
31.03 - 01.04	0.37	0.017	0.013	0.002	0.0039	0.0031	-	-
01.04 - 02.04	0.77	0.047	0.036	0.0017	0.014	0.005	-	0.047
02.04 - 03.04	3	0.87	0.7	0.059	0.13	0.057	0.64	0.35
03.04 - 04.04	2.7	0.71	0.56	0.044	0.079	0.036	0.5	0.27
04.04 - 05.04	2.5	0.46	0.37	0.027	0.045	0.018	0.35	0.19
05.04 - 06.04	0.69	0.14	0.11	0.0081	0.01	0.0041	0.21	0.034
06.04 - 07.04	0.49	0.08	0.06	0.0037	0.0046	0.0016	0.21	0.029
08.04 - 09.04	0.77	0.18	0.14	0.0082	0.0084	0.0049	0.12	0.052
09.04 - 10.04	0.34	0.081	0.063	0.0047	0.0031	0.0049	0.12	0.015
10.04 - 11.04	0.34	0.073	0.058	0.0035	0.0031	0.0049	0.034	0.031

The data given here are published before validation of the measurements during the last few days. The values should thus not be regarded as final and they should not be referred to without consulting the Icelandic Radiation Safety Authority.