

● Results of Radioactive Material Monitoring of Aquatic Organisms (Location K off the mouth of the Abukuma River)

< Location K off the mouth of the Abukuma River: Samples collected >

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
K-1	○	○	○	○	○	○
K-2	○	○	○	○	○	○
K-3	○	○	○	○	○	○

< Location K off the mouth of the Abukuma River: Site measurement item >

Items Locations	Latitude and longitude of the location		Survey date and time			Water					Sediment			Other	
	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Secchi disk depth (m)		
K-1	38.045617°	140.928150°	2013/8/29	—	9:53	—	23.6	Fine sand	2.5Y3/3	None	None	—	—		
K-2	38.045467°	140.940000°		9:18	9:34	24.9	20.1	Sand with silt	10Y4/6	None	None	15.0	5.2		
K-3	38.045767°	140.952033°		—	8:38	—	19.5	Silt with sand	2.5Y3/1	None	None	—	—		

< Location K off the mouth of the Abukuma River: General survey items/Analysis of radioactive materials Water >

Items Locations	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
	Latitude	Longitude	Date	Time												
K-2 (Surface layer)	38.045467°	140.940000°	2013/8/29	9:18	8.3	1.2	3.4	8.2	3.910	25.18	1.9	3	1.9	0.0065	0.017	—
				9:03	8.2	0.7	1.4	8.0	5.170	32.96	1.2	2	0.5	0.0083	0.018	0.00095

< Location K off the mouth of the Abukuma River: General survey items/Analysis of radioactive materials Sediment >

Items Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHLE} (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
	Latitude	Longitude	Date	Time							Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)				Median grain diameter (mm)	Maximum grain diameter (mm)
K-1	38.045617°	140.928150°	2013/8/29	9:53	7.7	174	20.8	1.6	<1	2.715	0	4.9	48.2	37.4	3.9	5.6	0.27	2	32	68	—
K-2	38.045467°	140.940000°		9:34	7.9	-49	42.8	4.6	4	2.730	0	0.2	1.4	64.7	17.0	16.7	0.11	2	270	580	N.D.(<0.18)
K-3	38.045767°	140.952033°		8:38	7.9	-72	48.5	6.5	10	2.691	0	0.3	0.4	21.7	54.6	23.0	0.039	2	180	380	—

Note) N.D. means to be below the detection limit.

< Location K off the mouth of the Abukuma River: Survey items Aquatic organisms >

Location	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note		Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)
	Latitude	Longitude										Growth stage	Stomach contents			
Surrounding water area off the mouth of Abukuma River	—	—	2013/8/29	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	6	1.7	Imago	—	0.63	1.2	—
								<i>Ovalipes punctatus</i>	Ovalipes punctatus	5	0.70	Imago	—	0.39	N.D.(<0.85)	—
								<i>Hexagrammos otakii</i>	Fat greenling	8	2.4	<u>2-year-old fish</u>	Small fish, crustacean fragments	0.46	1.1	0.019
								<i>Chelodanichthys spinosus</i>	Gurnard	11	2.7	<u>3-year-old fish</u>	Small fish, crustacean fragments	0.78	1.7	0.024
								<i>Sebastes sp.</i>	Sebastes	5	1.1	<u>5-year-old fish</u>	Small fish, crustacean fragments	2.1	4.9	—
								<i>Paralichthys olivaceus</i>	Flounder	6	2.5	<u>1-year-old fish</u>	Small fish	0.51	1.2	0.015
								<i>Eynniss japonica</i>	Crimson sea-bream	8	1.7	<u>4-year-old fish</u>	Some (details unknown)	0.73	1.5	—

Note 1) When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

Note 2) For species with stomach contents as indicated in the note column, all stomach contents were removed for conducting the analysis.

Note 3) Underlined names in the English name column indicate species largest in number in the respective samples.

Note 4) A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

Note 5) N.D. means to be below the detection limit.