

○ 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	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	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	38.045717°	140.928567°	2013/10/18	8:50	9:25	18.7	19.7	Sand	2.5Y4/3	None	Shell fragments	—	—		
K-2	38.045517°	140.940300°		8:50	9:25	18.7	20.1	Sand with silt	2.5Y3/1	None	Shellfish, young shells	15.5	1.5		
K-3	38.045950°	140.951850°		8:19	8:19	19.8	19.8	Sand with silt	2.5Y2/1	Faint hydrogen sulfide	Shellfish	—	—		

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

Items	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)	38.045517°	140.940300°	2013/10/18	8:50	8.0	<0.5	5.2	8.6	3.080	18.11	2.3	25	16.6	0.0098	0.029	—
K-2 (Deep layer)	38.045517°	140.940300°	2013/10/18	9:10	8.1	<0.5	2.0	7.0	5.130	33.00	1.2	4	5.0	0.012	0.025	0.00098

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

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHE} (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) (%)	Course 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	38.045717°	140.928567°	2013/10/18	9:57	8.0	224	20.2	1.4	<1	2.731	0	2.1	34.5	59.5	1.5	2.4	0.20	2	26	55	—
K-2	38.045517°	140.940300°		9:25	7.7	196	36.8	3.8	4	2.712	0	0.1	0.7	52.8	25.8	20.6	0.086	2	140	330	N.D.(<0.15)
K-3	38.045950°	140.951850°		8:19	7.7	198	52.4	8.0	12	2.660	0	0.3	0.2	12.8	53.3	33.4	0.016	2	220	440	—

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 waters area offshore of Abukuma River Estuary	—	—	2013/10/29	Arthropod	Malacostraca	Malacostraca	Penaeidae	<i>Trachysalambria curvirostris</i>	Southern rough shrimp	32	0.30	Imago	—	0.47	0.87	—
								<i>Ovalipes punctatus</i>	Ovalipes punctatus	5	1.0	Imago	—	N.D.(<0.40)	0.66	—
								<i>Paralichthys olivaceus</i>	Flounder	6	1.7	3-year-old fish	Small fish	0.59	1.2	N.D.(<0.019)
								<i>Pleuronectes yokohamae</i>	Marbled sole	5	2.1	3-year-old fish	Hairy rope	0.80	2.5	N.D.(<0.019)
								<i>Chelidonichthys spinosus</i>	Gurnard	9	2.1	2-year-old fish	Small shrimps	0.48	1.4	N.D.(<0.018)
<i>Eynnys japonica</i>	Crimson sea-bream	7	1.9	4-year-old fish	Small shrimps, small fish	0.59	1.4	N.D.(<0.020)								

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.