OResults 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	Gener	al items		Radioactiv	e materials	
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
K-3	0	0	0	0	0	0

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

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Items		ongitude of the tion	Survey date and time Water Sediment						Other				
Locations	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)	
K-3(Surface layer)	38.0458°	140.9518°	2018/10/17	08:25	09:10	20.8	20.3	Silt	5Y2/2	Juvenile shellfish	22.5	8.5	
K-3(Bottom layer)	38.0438	140.5316	2018/10/17	08:40		20.1						6.3	

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

Items	Latitude and longitude of the location		of the Survey date and time		pH	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
K-3(Surface layer)	38.0458°	140.9518°	2018/10/17	08:25	8.0	2.4	1.9	7.9	4850	32.88	1.1	1	0.7	N.D.(0.0013)	0.0044	-
K-3(Bottom layer)	36.0436		2016/10/17	08:40	8.0	2.0	1.5	7.4	4960	33.18	0.9	<1	0.4	N.D.(0.0015)	0.0072	0.00098

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

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

Itome	Latitude and l	ongitude of the	Common de	ate and time							Grain size distribution										
iii.	loca	ition	Survey da	ne and time	pH	Redox potential	Water content	IL.	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (sediment)		E_{NHE}				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			
Locations	Linnade	Lingitude		Time (seament)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
K-3	38.0458°	140.9518°	2018/10/17	09:10	7.8	187	37.2	5.2	9.8	2.693	0.0	0.1	0.2	39.7	42.5	17.5	0.062	2.0	28	280	N.D.(0.14)

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location K off the mouth of the Abukuma River: Analysis items Aquatic organisms:</p>

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Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude		i			-				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
Surrounding water	of the Abukuma				Arthropoda	Malacostraca	Decapoda	Portunidae	Portunus trituberculatus	Japanese blue crab	1	0.35	Imago	-	-	N.D.	N.D.(0.38)	N.D.(0.34)	=
		-	-	2018/10/22	Arthropoda	Malacostraca	Decapoda	Portunidae	Ovalipes punctatus	Ovalipes punctatus	3	0.76	Imago	-	-	N.D.	N.D.(0.30)	N.D.(0.30)	-
the Abukuma River					Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	Lateolabrax japonicus	Japanese sea bass	1	0.58	Immature fish	Japanese sardine	Viscera removed	0.96	N.D.(0.39)	0.96	-

^{*1:} Organisms were collected in or around the targeted water areas.

 $^{^{\}circ}2$: When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

^{*3:} For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

^{*5:} Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

^{*6:} River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

 $^{^{\}circ}$ 7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

^{*8:} Activity concentrations include counting errors, but the details are omitted here.