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	General items Radioactive 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 ttion	Survey date and time			Water		Sedi		Other			
Locations	Latitude Longitude Date		Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property		Contaminants	Water depth (m)	Secchi disk depth (m)		
K-3(Surface layer)	38.0458°	140.9518°	2017/11/2	08:31	08:42	15.1	17.1	Fine sand with silt	5Y3/2	Plant pieces a little,	21.0	3.5	
K-3(Bottom layer)	36.0436	140.9318	201//11/2	08:03		17.0		Time sand with shi	313/2	Shell fragments a little	21.0	3.5	

<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	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)	29.04599	140.9518°	2017/11/2	08:31	8.1	0.8	2.4	8.7	3830	23.78	1.3	4	2.9	0.0014	0.0080	-
K-3(Bottom layer)	38.0458°	140.9518°	201//11/2	08:03	8.0	<0.5	1.7	7.8	4960	33.36	1.0	3	1.9	0.0012	0.010	0.00091

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>

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Itame	Latitude and l	Latitude and longitude of the		Survey date and time							Grain size distribution									1	
Itelis	location		Survey date 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	Latituda	Lancituda	Data	Time (sediment)		$E_{N.H.E}$				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	Latitude	Longitude	Date			(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
K-3	38.0458°	140.9518°	2017/11/2	08:42	7.7	245	44.5	4.5	8.9	2.696	0.0	0.0	0.3	33.0	52.8	13.9	0.057	2.0	26	220	N.D.(0.12)

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>

		Latitude and longitude of the					Order		Scientific name	English name	Population	Sample weight	N.			Radioactive cesium (Bq/kg-wet)			0.00
Locations	Sampling point	location		Sampling date	Division	Class		Family						Note		Kac	Sr-90		
		Latitude	Longitude				,	,				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
	the Abukuma				Arthropoda	Malacostraca	Decapoda	Portunidae	Portunus trituberculatus	Japanese blue crab	2	0.66	Imago	-	-	2.41	0.41	2.0	-
					Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	Hexagrammos otakii	Fat greenling	1	0.22	Mature fish	Empty stomach	Viscera removed	0.51	N.D.(0.36)	0.51	-
Surrounding water					Vertebrata	Osteichthyes	Scorpaeniformes	Platycephalidae	Platycephalus sp.	Flathead	1	0.57	Mature fish	Empty stomach	Viscera removed	0.82	N.D.(0.35)	0.82	-
area off the mouth of			_	2017/10/20	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Kareius bicoloratus	Stone flounder	1	0.23	Immature fish	Ragworm, Mantis shrimp	Viscera removed	N.D.	N.D.(0.38)	N.D.(0.42)	-
the Abukuma River					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Pseudopleuronectes herzensteini	Yellow striped flounder	1	0.54	Mature fish	Ragworm	Viscera removed	1.1	N.D.(0.46)	1.1	-
are recurrent terver					Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	Paralichthys olivaceus	Bastard halibut	1	1.2	Mature fish	Anchovy	Viscera removed	0.45	N.D.(0.29)	0.45	N.D.(0.019)
					Vertebrata	Osteichthyes	Perciformes	Sciaenidae	Nibea mitsukurii	Nibe croaker	2	0.90	Mature fish	Shrimp,Fish	Viscera removed	0.67	N.D.(0.38)	0.67	<u> </u>

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

^{*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.

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

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