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 ation		Survey date and time		Water		Sedi		Other				
Locations	Latitude	Longitude	Date	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°	2018/8/22	09:01	09:21	24.9	19.8	Silt with sand	5Y3/2	None	20.5	5.0		
K-3(Bottom layer)	36.0436	140.9310	2018/8/22	08:28	09:21	20.1	19.8					3.0		

<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)	38.0458°	140.9518°	2018/8/22	09:01	8.1	1.2	3.2	8.2	4240	25.50	1.5	3	2.2	N.D.(0.0017)	0.0068	-
K-3(Bottom layer)		140.2316	2018/8/22	08:28	7.9	0.8	2.0	6.0	5030	33.78	1.1	5	3.6	N.D.(0.0015)	0.016	0.00082

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>

Items	Latitude and longitude of the		Survey date and time											Grain s	ize distribution						
acins	loca	tion	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 _{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	Lunude			rine (seument)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
K-3	38.0458°	140.9518°	2018/8/22	09:21	7.7	273	34.3	4.8	7.6	2.703	0.0	0.2	0.2	32.2	54.7	12.7	0.058	4.8	22	230	N.D.(0.12)

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

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Locations	Sampling point	Latitude and le	ongitude of the tion	of the Sampling date		Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note		Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude	, -			Growth stage Stomach contents						Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)	
Surrounding water	S				Mollusca	Cephalopoda	Decapodiformes	Loliginidae	Loliolus japonica	Japanese squid	70	0.39	Juvenile -	-	N.D.	N.D.(0.34)	N.D.(0.34)	-
area	Sea area in front of the Abukuma River Estuary	_	_	2018/8/28	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Pleuronectes herzensteini	Yellow striped flounder	1	0.35	Mature fish Empty stomach	Viscera removed	0.44	N.D.(0.43)	0.44	-
off the mouth of					Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	Paralichthys olivaceus	Bastard halibut	2	2.8	Immature fish,Mature fish Empty stomach	Viscera removed	0.45	N.D.(0.31)	0.45	N.D.(0.018)
the Abukuma River					Vertebrata	Osteichthyes	Perciformes	Sparidae	Evynnis japonica	Crimson sea-bream	1	0.32	Immature fish Empty stomach	Viscera removed	0.42	N.D.(0.28)	0.42	-

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

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

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

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