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

<location k<="" th=""><th colspan="15"><location abukuma="" collected="" k="" mouth="" of="" off="" river:="" samples="" the=""></location></th></location>	<location abukuma="" collected="" k="" mouth="" of="" off="" river:="" samples="" the=""></location>														
	Items	Genera	al items	Radioactive materials											
Locations		Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)								
K-3	3	0	0	0	0	0	0								

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

Items Latitude and longitude of the location				Survey date and time		Water		Sedi		Other		
Locations	Latitude	Longitude	Date	Time (water)	Time (water) Time (sediment)		Sediment temperature (degrees C)	Property Color		Contaminants	Water depth (m)	Secchi disk depth (m)
K-3(Surface layer)	38.0458°	140.9518°	2019/11/1	08:36	08:50	18.4	18.9	Silt with sand	2.5¥ 3/2	None	21.0	9.0
K-3(Bottom layer)	38.0458°	140.9518	2019/11/1	08:23	08:50	18.8	18.9	Sint with sand	2.5 ¥ 5/2			9.0

<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		рН	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)		140.9518°	2019/11/1	08:36	8.0	<0.5	2.0	8.7	4750	31.82	1.0	2	1.2	N.D.(0.0015)	0.0057	-
K-3(Bottom layer)	38.0458°	140.9518	2019/11/1	08:23	8.0	<0.5	1.5	8.8	4960	33.31	0.9	2	0.7	N.D.(0.0015)	0.0036	0.00076

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 location		Survey date and time								Grain size distribution								,	Į į	
Itellis					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	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	Lauttude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
K-3	38.0458°	140.9518°	2019/11/1	08:50	7.8	366	42.5	4.5	8.1	2.697	0.0	0.1	0.1	41.0	40.6	18.2	0.059	4.8	15	180	N.D.(0.13)
Note) N.D. means to be below	the detection limit and figu	ares in parentheses show th	e detection limit.	•		•			•				•			•					

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

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
	1 51	Latitude	Longitude	1.5						e	1	(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
Surrounding water	Sector in front of	c			Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	Sebastes cheni	Rockfish	2	0.32	Immature fish	Empty stomach	Viscera removed	0.50	N.D.(0.44)	0.50	-
area off the mouth of the Abukuma River	the Abukuma River Estuary	_	-	2019/10/19	Vertebrata	Osteichthyes	Perciformes	Sparidae	Evynnis japonica	Crimson sea-bream	2	0.67	Immature fish	Brittle star	Viscera removed	N.D.	N.D.(0.36)	N.D.(0.33)	-
the Abukuma River	Kivei Estuary				Vertebrata	Osteichthyes	Perciformes	Sciaenidae	Nibea mitsukurii	Nibe croaker	1	0.33	Mature fish	Gobiidae	Viscera removed	0.68	N.D.(0.36)	0.68	-

*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.

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