○ Results (water)

Locations				2019 December Survey											
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Abukuma River System	A-1(Surface layer)	37.6210°	140.5218°	7.0	0.9	2.9	11.9	18.7	0.09	1.4	4	2.5	N.D.(0.0014)	0.011	0.0012
	A-1(Bottom layer)	37.6210°	140.5218°	7.2	0.9	2.8	12.2	18.4	0.09	1.3	3	2.6	N.D.(0.0015)	0.0054	-
	A-2	37.5673°	140.3946°	7.3	<0.5	2.0	12.2	10.3	0.05	0.8	<1	0.7	N.D.(0.0013)	0.0041	-
	B-2	37.8121°	140.5058°	7.2	0.6	2.7	12.7	17.8	0.09	1.2	3	2.2	N.D.(0.0014)	0.0037	-
	B-3	37.8182°	140.4679°	7.4	<0.5	2.8	12.0	9.4	0.05	1.2	2	1.7	N.D.(0.0012)	0.0043	-
Uda River	C-6	37.7764°	140.8877°	7.5	<0.5	1.7	12.9	10.0	0.05	0.8	<1	1.4	N.D.(0.0014)	0.0067	0.0012
Mano River	D-4 a	37.7308°	140.9081°	7.2	<0.5	2.2	12.1	9.0	0.05	1.1	2	3.2	0.0030	0.040	0.0011
Niida River	E-2 a	37.6640°	140.9447°	7.2	<0.5	1.7	11.5	6.9	0.04	0.8	4	2.3	0.0034	0.047	0.0015
Ota River	F-1	37.5975°	140.9252°	7.4	<0.5	1.9	12.6	6.5	0.04	0.9	2	2.1	0.0047	0.076	0.0041
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7348°	140.8102°	7.2	<0.5	3.6	9.8	6.6	0.04	2.0	8	15.7	0.0050	0.083	-
	G-1(Bottom layer)	37.7348°	140.8102°	7.2	<0.5	3.5	9.6	6.6	0.04	1.9	6	15.7	0.0084	0.15	0.0012
	G-4	37.7382°	140.8035°	7.4	<0.5	1.8	12.3	7.2	0.04	0.9	<1	<0.2	N.D.(0.0012)	0.0069	-
Lake Akimoto	H-2(Surface layer)	37.6616°	140.1226°	7.0	<0.5	4.1	10.6	4.8	0.03	1.8	2	1.9	N.D.(0.0014)	0.0051	-
	H-2(Bottom layer)	37.6616°	140.1226°	7.0	<0.5	4.1	11.1	4.9	0.03	1.8	4	2.5	N.D.(0.0014)	0.018	0.0011
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.6	<0.5	1.4	11.2	11.7	0.06	0.7	<1	0.3	N.D.(0.0014)	0.0060	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.7	<0.5	1.3	11.1	11.7	0.06	0.8	<1	0.4	N.D.(0.0014)	0.0053	0.00087
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3(Surface layer)	38.0458°	140.9518°	8.0	<0.5	1.5	8.9	4810	32.16	1.0	2	0.9	N.D.(0.0015)	0.0046	-
	K-3(Bottom layer)	38.0458°	140.9518°	8.0	<0.5	1.4	8.7	5010	33.75	0.9	5	1.2	N.D.(0.0016)	0.0042	0.0011
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.0	0.6	1.9	9.3	4840	32.50	1.1	5	2.2	N.D.(0.0013)	0.0071	0.0011
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.0	0.8	0.8	8.3	5070	34.14	0.8	2	0.4	N.D.(0.0012)	0.0028	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.0	0.7	0.9	8.6	5070	34.17	0.8	2	0.7	N.D.(0.0011)	0.0037	0.0011

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

○ Results (sediments)

Locations				2019 December Survey																	
										Grain size distribution									Cs-134	Cs-137	Sr-90
		Latitude	Longitude	pH	Redox potential $E_{N.H.E}$ (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm^3)	Gravel (2-75mm) (%)	Coarse 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)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
Abukuma River System	A-1	37.6210°	140.5218°	7.2	340	26.6	1.9	5.9	2.742	0.1	3.3	61.9	20.5	6.9	7.3	0.34	4.8	9.9	160	0.17
	A-2	37.5673°	140.3946°	7.3	358	18.7	1.5	2.3	2.723	44.3	39.3	13.4	1.7	1.3		1.8	19	6.7	95	-
	B-2	37.8121°	140.5058°	7.4	382	25.2	1.5	2.0	2.785	0.2	1.0	45.8	48.8	2.3	1.9	0.24	4.8	6.1	88	-
	B-3	37.8182°	140.4679°	7.4	392	26.6	1.8	2.4	2.698	8.0	18.8	55.8	11.1	3.3	3.0	0.53	4.8	8.5	120	-
Uda River	C-6	37.7764°	140.8877°	7.7	382	12.1	0.7	1.4	2.694	54.7	38.0	6.6	0.5	0.2		2.2	4.8	2.3	42	0.22
Mano River	D-4 a	37.7308°	140.9081°	7.4	401	15.5	1.4	1.6	2.709	68.1	21.4	6.0	3.6	0.9		2.5	9.5	13	170	0.90
Niida River	E-2 a	37.6640°	140.9447°	7.6	408	11.8	1.2	2.0	2.690	51.6	31.1	6.8	7.4	1.3	1.8	2.0	9.5	19	280	0.31
Ota River	F-1	37.5975°	140.9252°	7.3	389	18.8	0.7	1.4	2.661	2.1	16.3	69.1	10.7	1.8		0.50	4.8	10	180	0.54
Lake Hayama (Mano Dam)	G-1	37.7348°	140.8102°	7.6	141	44.4	8.0	21.5	2.688	0.0	0.0	1.0	36.7	44.5	17.8	0.049	2.0	74	1200	2.3
	G-4	37.7382°	140.8035°	7.7	368	33.1	4.3	5.0	2.728	4.1	4.3	37.7	37.0	11.2	5.7	0.23	9.5	45	680	-
Lake Akimoto	H-2	37.6616°	140.1226°	6.6	60	73.7	12.3	43.8	2.480	0.3	1.5	2.1	2.2	37.1	56.8	0.0031	4.8	110	1600	1.2
Lake Inawashiro	J-1	37.4203°	140.1008°	6.6	402	24.8	1.5	3.2	2.682	0.3	2.4	51.7	37.0	4.7	3.9	0.26	9.5	6.3	100	0.19
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.7	300	34.1	3.6	4.7	2.712	0.0	0.0	0.5	54.7	33.2	11.6	0.093	2.0	8.0	140	N.D.(0.13)
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	7.7	312	19.6	0.9	1.8	2.739	0.7	2.5	66.4	28.8	1.6		0.31	4.8	0.72	8.7	N.D.(0.14)
Off Iwaki City (Hisanohama)	M-2	37.1996°	141.0853°	7.7	302	21.6	1.6	1.8	2.776	0.0	0.6	2.0	92.8	3.1	1.5	0.16	2.0	1.3	20	N.D.(0.13)

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

○ Results (aquatic organisms)

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Abukuma River System	A-1	The main stream of the Abukuma River	2019/12/23	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	8	0.033	Immature fish	-	-	4.9	N.D.(2.0)	4.9	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Opsariichthys platypus*	Pale chub	366	2.0	Immature fish,Mature fish	-	-	3.8	N.D.(0.29)	3.8	0.19
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	3	0.065	Immature fish,Mature fish	-	-	2.7	N.D.(0.46)	2.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	11	0.64	Immature fish	-	-	2.1	N.D.(0.28)	2.1	-
				Vertebrata	Amphibia	Anura	Ranidae	*Rana japonica*	Japanese brown frog	2	0.045	Imago	-	-	4.6	N.D.(1.2)	4.6	-
	A-2	Harase River	2019/12/1	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.021	-	-	-	43.9	2.9	41	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	3	0.083	Immature fish,Mature fish	-	-	20.3	1.3	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Pseudogobio esocinus esocinus*	Pseudogobio esocinus esocinus	3	0.031	Immature fish	-	-	6.5	N.D.(1.4)	6.5	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	1	0.049	Immature fish	-	-	10	N.D.(0.74)	10	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	4.5	N.D.(1.3)	4.5	-
	B-3	Surikami River	2019/12/1	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.018	-	-	-	52.2	3.2	49	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	52	0.014	Larva	-	-	9.8	N.D.(2.6)	9.8	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	13	0.011	Larva	-	-	2.4	N.D.(2.7)	2.4	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.26	-	-	-	2.9	N.D.(1.1)	2.9	-
Uda River	C-6	The main stream of the Uda River	2019/12/2	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.010	-	-	-	63.5	3.5	60	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	*Eriocheir japonica*	Japanese mitten crab	15	0.39	Juvenile	-	-	8.54	0.64	7.9	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	2.47	0.27	2.2	-
Mano River	D-3	The main stream of the Mano River	2019/12/3	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	6	2.0	Immature fish,Mature fish	-	-	24.4	1.4	23	0.11
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus reinii*	Sculpin	1	0.053	Immature fish	-	-	13	N.D.(2.9)	13	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	37	1.7	Immature fish,Mature fish	-	-	6.7	N.D.(0.72)	6.7	0.19
	D-4 b	The main stream of the Mano River	2019/12/3	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0094	-	-	-	57	N.D.(3.6)	57	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	68	0.043	Larva	-	-	7.2	N.D.(1.2)	7.2	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	2	0.033	Immature fish	-	-	12	N.D.(1.5)	12	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	1	0.037	Immature fish	Plant pieces	Viscera removed	26	N.D.(4.5)	26	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	22.3	1.3	21	-

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*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.

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Niida River	E-2 b	The main stream of the Niida River	2019/12/2	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.014	-	-	-	491	31	460	-
				Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	43	0.025	Larva	-	-	15	N.D.(1.2)	15	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	*Eriocheir japonica*	Japanese mitten crab	8	0.098	Juvenile	-	-	47.2	3.2	44	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus pollux*	Japanese fluvial sculpin	5	0.043	Immature fish	-	-	22	N.D.(1.6)	22	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	73	1.2	Immature fish,Mature fish	-	-	48.6	3.6	45	0.54
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius fluviatilis*	Rhinogobius fluviatilis	18	0.073	Immature fish,Mature fish	-	-	32.0	2.0	30	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius nagoyae*	Rhinogobius nagoyae									
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	61.3	3.3	58	-
Ota River	F-1	The main stream of the Ota River	2019/12/5	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.033	-	-	-	490	30	460	-
				Arthropoda	Insecta	Odonata	Corduliidae	*Macromia amphigena amphigena*	Macromia amphigena	34	0.014	Larva(Dragonfly larva)	-	-	184	14	170	-
				Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii									
				Arthropoda	Insecta	Odonata	Gomphidae	*Sieboldius albardae*	Sieboldius albardae									
				Arthropoda	Insecta	Odonata	Gomphidae	*Asiagomphus melaenops*	Asiagomphus melaenops									
				Arthropoda	Insecta	Odonata	Aeshnidae	*Boyeria maclachlani*	Boyeria maclachlani									
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	*Cottus pollux*	Japanese fluvial sculpin	1	0.047	Immature fish	-	-	362	22	340	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	30	0.35	Immature fish	-	-	264	14	250	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	5	0.063	Immature fish	-	-	442	32	410	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius fluviatilis*	Rhinogobius fluviatilis	11	0.055	Mature fish	-	-	531	31	500	-
				Vertebrata	Amphibia	Anura	Lithobates	*Lithobates catesbeianus*	American bullfrog	2	0.40	Imago	-	-	103.6	6.6	97	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	55.3	3.3	52	-
	F-3	The main stream of the Ota River	2019/12/2	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	1	0.025	Immature fish	Midge	Viscera removed	181	11	170	-
	F-5	The main stream of the Ota River	2019/12/2	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	0.30	Immature fish	Obscure digesta	Viscera removed	36.5	2.5	34	-

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

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Lake Hayama	G-1 G-2 G-3	In the lake	2019/12/4	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0026	-	-	-	N.D.	N.D.(15)	N.D.(13)	-
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Hypomesus nipponensis*	Japanese smelt	102	0.088	Immature fish	-	-	18.3	1.3	17	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus salmoides*	Largemouth bass	1	0.10	Immature fish	Japanese smelt	Viscera removed	51.5	4.5	47	-
	G-4	Inflowing rivers	2019/12/4	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.016	-	-	-	137.1	7.1	130	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	50	0.37	Immature fish	-	-	23.4	1.4	22	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	4	0.053	Immature fish	-	-	42.8	2.8	40	-
				Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	7.64	0.44	7.2	-
Lake Akimoto	H-1 H-2 H-3	In the lake	2019/12/2	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.013	-	-	-	N.D.	N.D.(3.0)	N.D.(2.9)	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	12	2.3	Mature fish	Obscure digesta	Viscera removed	33.9	1.9	32	0.64
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Carassius auratus*	Carassius auratus langsdorfii	3	2.4	Mature fish	Obscure digesta	Viscera removed	27.8	1.8	26	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	2	0.67	Immature fish	Obscure digesta	Viscera removed	12.78	0.78	12	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Hemibarbus barbus*	Hemibarbus barbus	4	3.8	Mature fish	Obscure digesta	Viscera removed	27.1	2.1	25	1.3
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	*Hypomesus nipponensis*	Japanese smelt	25	0.15	Mature fish	-	-	13.87	0.87	13	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Salvelinus leucomaenis*	Char	3	0.86	Mature fish	Japanese smelt	Viscera removed	24.5	1.5	23	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou masou*	Seema	2	0.73	Immature fish	Japanese smelt	Viscera removed	21.9	1.9	20	-
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	*Micropterus dolomieu*	Small mouth bass	7	2.0	Immature fish,Mature fish	Common prawn	Viscera removed	38.1	2.1	36	-
	H-3	Inflowing rivers	2019/12/2	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.24	-	-	-	12.69	0.69	12	-
	H-4	Within the lake and rivers in the vicinity	2019/12/2	Arthropoda	Insecta	Odonata	Cordulegastridae	*Anotogaster sieboldii*	Anotogester sieboldii	14	0.020	Larva(Dragonfly larva)	-	-	35.7	2.7	33	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Phoxinus lagowskii steindachneri*	Amur minnow	12	0.031	Immature fish,Mature fish	-	-	5.2	N.D.(4.5)	5.2	-
Lake Inawashiro	I-1 I-2 (north lakeside)	Within the lake and Nagase River	2019/12/1	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.15	-	-	-	1.3	N.D.(0.50)	1.3	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2019/12/3	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0059	-	-	-	N.D.	N.D.(6.3)	N.D.(6.1)	-
			2019/12/1	Mollusca	Gastropoda	Architaenioglossa	Viviparidae	*Cipangopaludina chinensis laeta*	Mud-snail	20	0.044	Juvenile,Imago	-	Molluscous part	N.D.	N.D.(1.1)	N.D.(0.99)	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Gymnogobius urotaenia*	Goby	11	0.028	Immature fish	-	-	9.7	N.D.(2.3)	9.7	-

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*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.

Location		Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
												Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Off the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	Sea area in front of the Abukuma River Estuary	2019/12/3	Arthropoda	Malacostraca	Decapoda	Portunidae	*Portunus trituberculatus*	Japanese blue crab	1	0.50	Imago	-	-	0.44	N.D.(0.28)	0.44	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	*Lepidotrigla microptera*	Searobin	2	0.56	Mature fish	Obscure digesta	Viscera removed	0.73	N.D.(0.34)	0.73	-
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	*Zeus faber*	John dory	1	1.0	Mature fish	Fish	Viscera removed	0.69	N.D.(0.19)	0.69	-
Off Soma City	L-1	Matsukawaura Lagoon	2019/12/6	Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	*Zostera marina*	Eel grass	-	0.27	-	-	-	0.39	N.D.(0.34)	0.39	-
	L-2		2019/12/3	Arthropoda	Malacostraca	Decapoda	Varunidae	*Hemigrapsus sp.*	Hemigrapsus	202	0.23	Juvenile,Imago	-	-	1.8	N.D.(0.30)	1.8	-
	L-3		2019/12/2	Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Acanthogobius flavimanus*	Yellowfin Goby	5	0.10	Mature fish	-	-	1.5	N.D.(0.53)	1.5	-
Off Iwaki City	M-1 M-2 M-3	Offshore of Hisanohama	2019/12/22	Mollusca	Cephalopoda	Octopoda	Octopodidae	*Octopus vulgaris*	Common octopus	2	3.4	Imago	-	-	N.D.	N.D.(0.21)	N.D.(0.24)	-
				Vertebrata	Chondrichthyes	Rajiformes	Rajidae	*Okamejei kenojei*	Common skete	2	1.6	Immature fish	-	-	1.9	N.D.(0.39)	1.9	-
	M-4	Hisanohama Coastal areas	2019/12/6	Echinodermata	Holothuroidea	Aspidochirotida	Stichopodidae	*Apostichopus japonicus*	Japanese common seacucumber	3	0.20	Imago	-	-	24.5	1.5	23	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	*Hexagrammos agrammus*	Hexagrammos agrammus	1	0.10	Immature fish	Amphipod	Viscera removed	0.80	N.D.(0.72)	0.80	-
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	*Sebastes cheni*	Rockfish	4	0.17	Immature fish	Shrimp,Mysid shrimp,Ragworm,Amphipod	Viscera removed	1.5	N.D.(0.45)	1.5	-

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